Supplementary Material for

Three-Dimensional Structures Self-Assembled from DNA Bricks

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Supplementary Materials I

Three-Dimensional Structures Self-Assembled from DNA Bricks

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S1 Methods and materials

Sample preparation. DNA strands were synthesized by Integrated DNA Technology, Inc. (www.idtdna.com) or Bioneer Corporation (us.bioneer.com). To assemble the structures, unpurified DNA strands were mixed to a final concentration of 100 nM or 200 nM per strand (for a structure that contained more than 500 strands, an evaporation step was performed to achieve the desired 200 nM concentration) in 0.5 $\times$ TE buffer (5 mM Tris, pH 7.9, 1 mM EDTA) supplemented with 10 to 80 mM $MgCl_2$.

Annealing ramps. The strand mixture was then annealed in a PCR thermo cycler by a fast linear cooling step from 80°C to 60°C over 1 hour, then a 24-hour or 72-hour linear cooling ramp from 60°C to 24°C. The annealing ramps were named according to the length of the second cooling step, as 24-hour annealing or 72-hour annealing.

Agarose gel electrophoresis and sample purification. Annealed samples were then subjected to 2% native agarose gel electrophoresis at 70 volts for 2 hours (gel prepared in 0.5 $\times$ TBE buffer supplemented with 11 mM $MgCl_2$ and 0.005% (v/v) EtBr) in an ice water bath. Then, the target gel bands were excised and placed into a Freeze 'N Squeeze column (Bio-Rad Laboratories, Inc.). The gel pieces were crushed into fine pieces by a microtube pestle in the column, and the column was then centrifuged at 7000 g for 5 minutes. Samples that were extracted through the column were collected for TEM or AFM imaging.

Robot automation for sample preparation. A Python (http://www.python.org/) program was created to aid complex shape design and automate strand mixing by using a liquid handling robot (Bravo, Agilent). For each shape, 4 μL of each strand (10 μM in water) was pipetted and mixed into a final volume of less than 2 mL (the exact volume was determined by the number of constituent strands for the target shape). The mixture was then vacufuge-dried (Savant Speedvac sc110) and resuspended in 200 μL 0.5 $\times$ TE buffer with 40 mM $MgCl_2$. Each round of robot pipetting accommodated 48 shapes and took three to four days to complete.

TEM imaging. For imaging, 3.5 μL of agarose-gel-purified or unpurified sample was adsorbed for 4 minutes onto glow-discharged, carbon-coated TEM grids. The grids were then stained for 1 minute using a 2% aqueous uranyl formate solution containing 25 mM NaOH. Imaging was performed using a JEOL JEM-1400 operated at 80 kV.

AFM imaging. AFM images were obtained using an SPM Multimode with Digital Instruments Nanoscope V controller (Veeco). Five μL of purified sample was applied onto the surface of a freshly cleaved mica chip and left for approximately 2 minutes to allow for adsorption. Forty μL of 0.5 $\times$ TE (10 mM $MgCl_2$) was then added onto the mica surface. The AFM tips used were the short and thin cantilevers in the SNL-10 silicon nitride cantilever chip (Veeco Probes).

S2 Summary figure

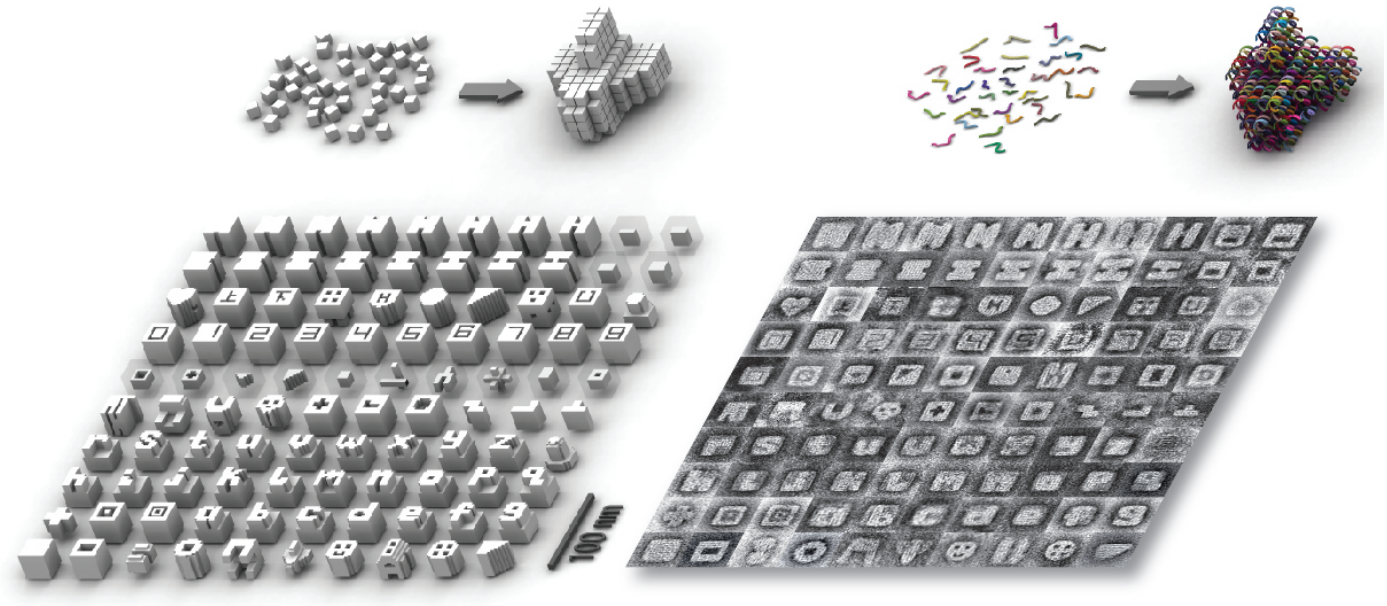


Fig. S1. Complex three-dimensional shapes self-assembled from DNA bricks.

S3 Design of 3D DNA-brick structures

S3.1 Design strategy

S3.1.1 A more detailed Lego-like model

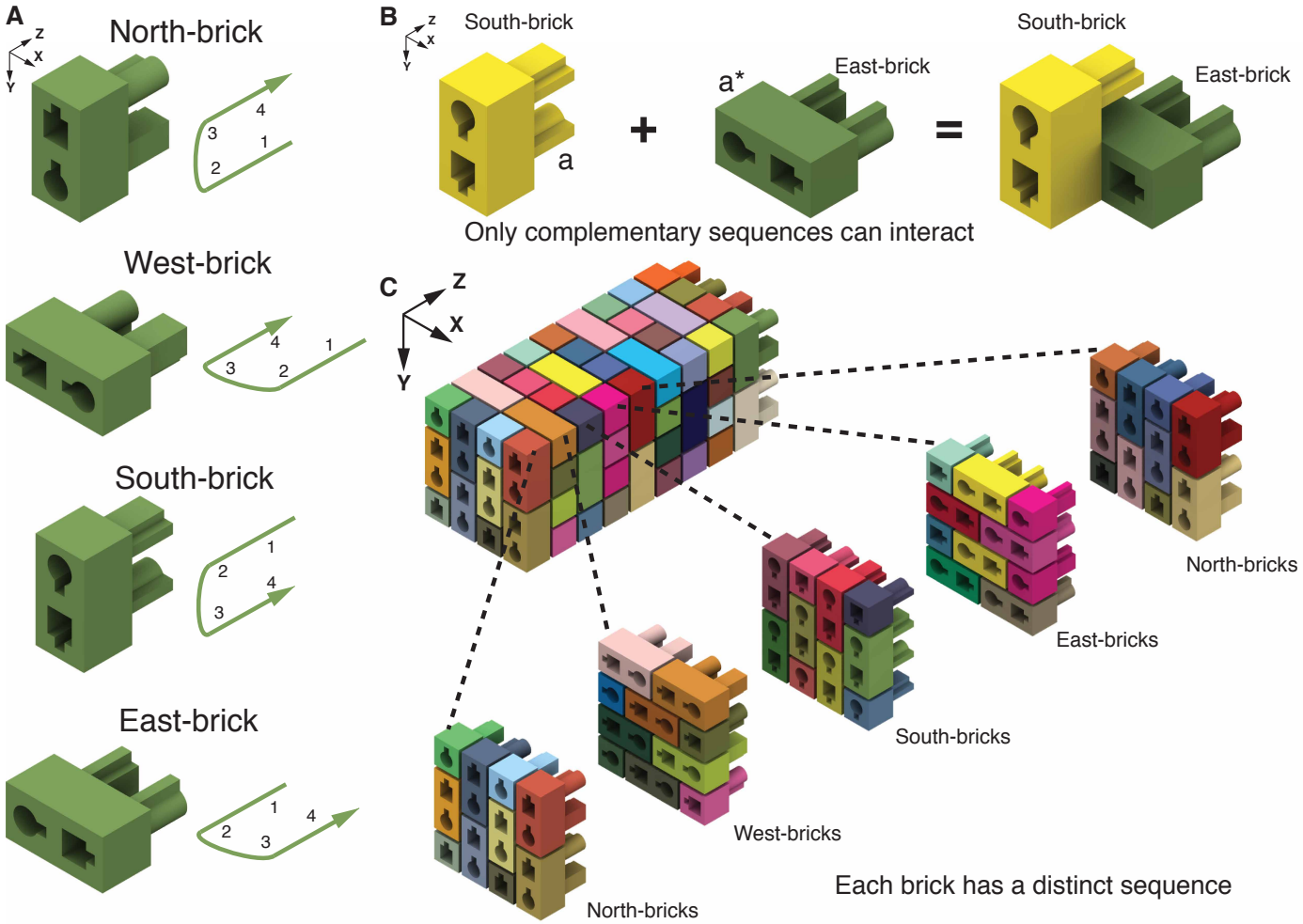


Fig. S2. A Lego-like model that differentiates each domain within a DNA brick. (**A**) DNA bricks are designated as north-bricks, west-bricks, south-bricks, or east-bricks, based on their orientation. This model uses different shapes to distinguish the four domains. Arrows indicate the 3′ ends. (**B**) Two bricks interact via hybridization of two complementary 8nt-domains "a" and "a*". The shapes of domains are designed to graphically depict the connecting rules: (1) domain "a" of the south-brick can only fit into the cavity of domain "a*" but not the other cavity of the east-brick; (2) the plug-cavity match forces the formation of a 90° dihedral angle. (**C**) A Lego-like model of a 4H × 4H × 64B cuboid in fig. S3. Each brick has a unique sequence, indicated by distinct colors. In the Z+ direction, DNA bricks have the same orientation within each layer; DNA bricks rotate 90° counter-clockwise with each successive layer along the Z+ direction.

Here we present a more detailed Lego-like model that depicts the polarity and connection rule for the DNA bricks by using different protruding shapes (for tail-domains 1 and 4) and respectively matching cavities (for head-domains 3 and 2).

First, the model shows the polarity of the DNA bricks. Considering the polarity and orientation of a DNA brick within an assembled structure, four different types of bricks are used for the construction: north-bricks, west-bricks, south-bricks, and east-bricks, as depicted in fig. S2A.

Second, the model uses the geometric match of domains to depict connecting rules. In terms of domain-domain hybridization, two neighboring DNA bricks in our design have one of two possible connections: domain 1↔domain 3 or domain 4↔domain 2 connections. For example, fig. S2B depicts domain 4 of a south brick interacting with domain 2 of an east brick. In addition, the shapes and cavities are designed to force a pair of interacting bricks to form a 90° dihedral angle. It is also obvious that bricks rotate 90° counter-clockwise with each successive layer along the Z+ direction. Fig. S2C depicts DNA bricks along successive 8bp layers with orientations of north, west, south, and east.

S3.1.2 Strand diagrams of a DNA-brick cuboid

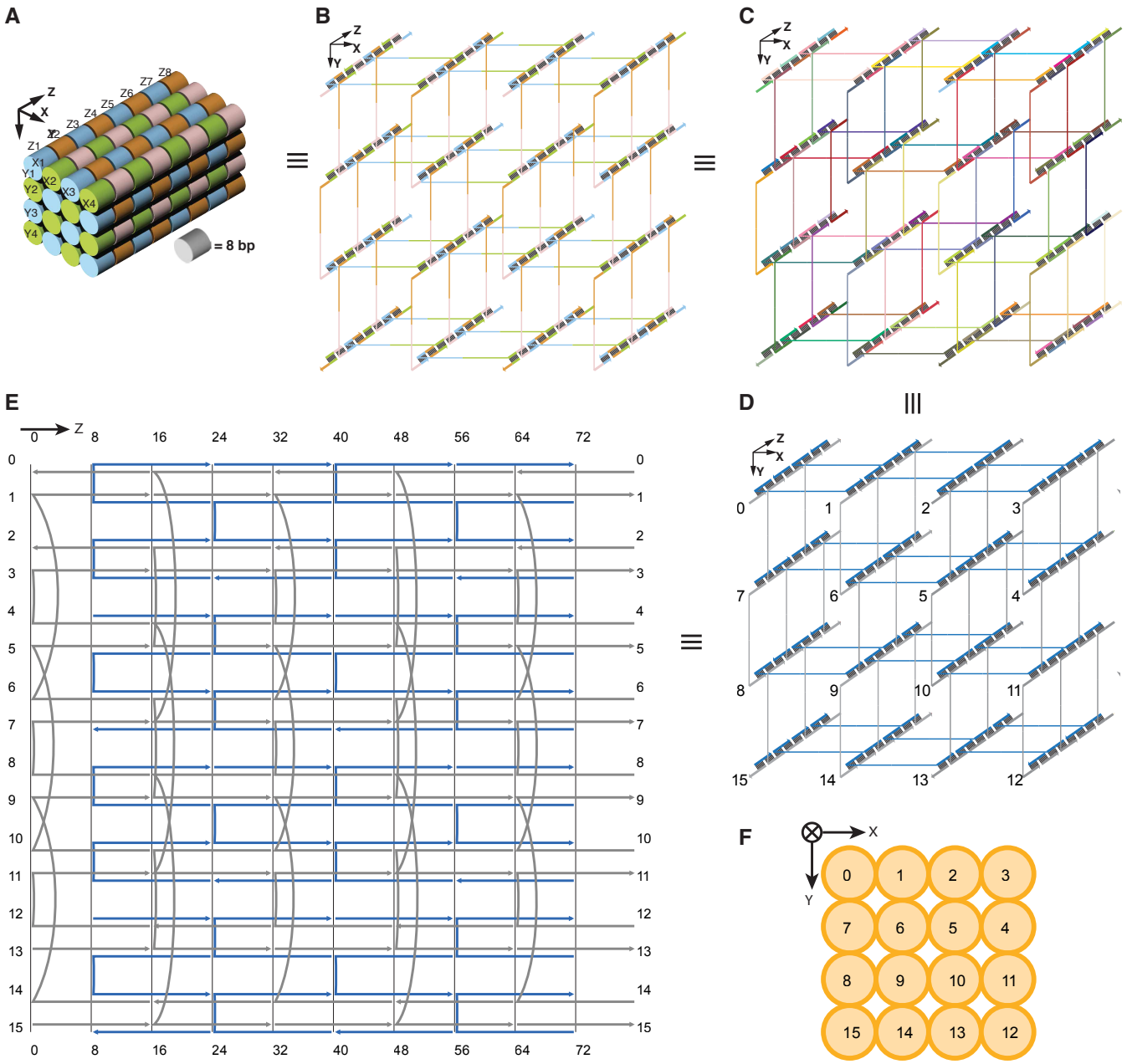


Fig. S3. Strand diagrams of a DNA-brick cuboid. (**A**) A cylinder model of a 4 helix(H) × 4 helix(H) × 64 bp(B) cuboid DNA structure that consists of 4 × 4 × 8 voxels. Each voxel represents an 8bp duplex that is formed by base-pairing between an X-brick and a Y-brick. (**B-D**) 3D strand diagrams. Colors distinguish domains within a strand (**B**), strands with different sequences (**C**), X-bricks (blue) *vs.* Y bricks (gray) (**D**). (**E**) and (**F**) show helix and strand diagrams in caDNAno format. (**E**) Detailed strand diagram of all strands. The numbers on the left and the right indicate the helices. The numbers on the top and the bottom indicate the position of the base-pairs along the Z-axis. X-bricks are represented with blue lines, and Y-bricks are represented with gray lines. Arrows indicate the 3′ ends of strands. Color use is consistent with **D**. (**F**) The X–Y cross-section looking down the Z+ direction, in caDNAno format.

A 4H × 4H × 64B cuboid is used as an example to illustrate the molecular details for the construction of DNA brick structures (fig. S3). Fig. S3A shows a cylinder model for a 4H × 4H × 64B cuboid. Figs. S3B-D depict three different 3D strand diagrams, with colors distinguishing domains, strands, and X-bricks *vs.* Y bricks, respectively. X-bricks (blue, fig. S3D) refer to the east and west bricks; and Y-bricks (gray) are the north and south bricks. X- and Y-bricks are oriented horizontally and vertically, respectively. Periodicity of the 3D design can be clearly seen from Figs. S3B-D: Along the Z-axis, a crossover appears every 32bp between each pair of neighboring helices; along the X-axis or Y-axis, a crossover occurs every two helices within each layer. Additionally, the structure can also be depicted in caDNAno format (Figs. S3E, F).

S3.1.3 Connections between X-bricks and Y-bricks

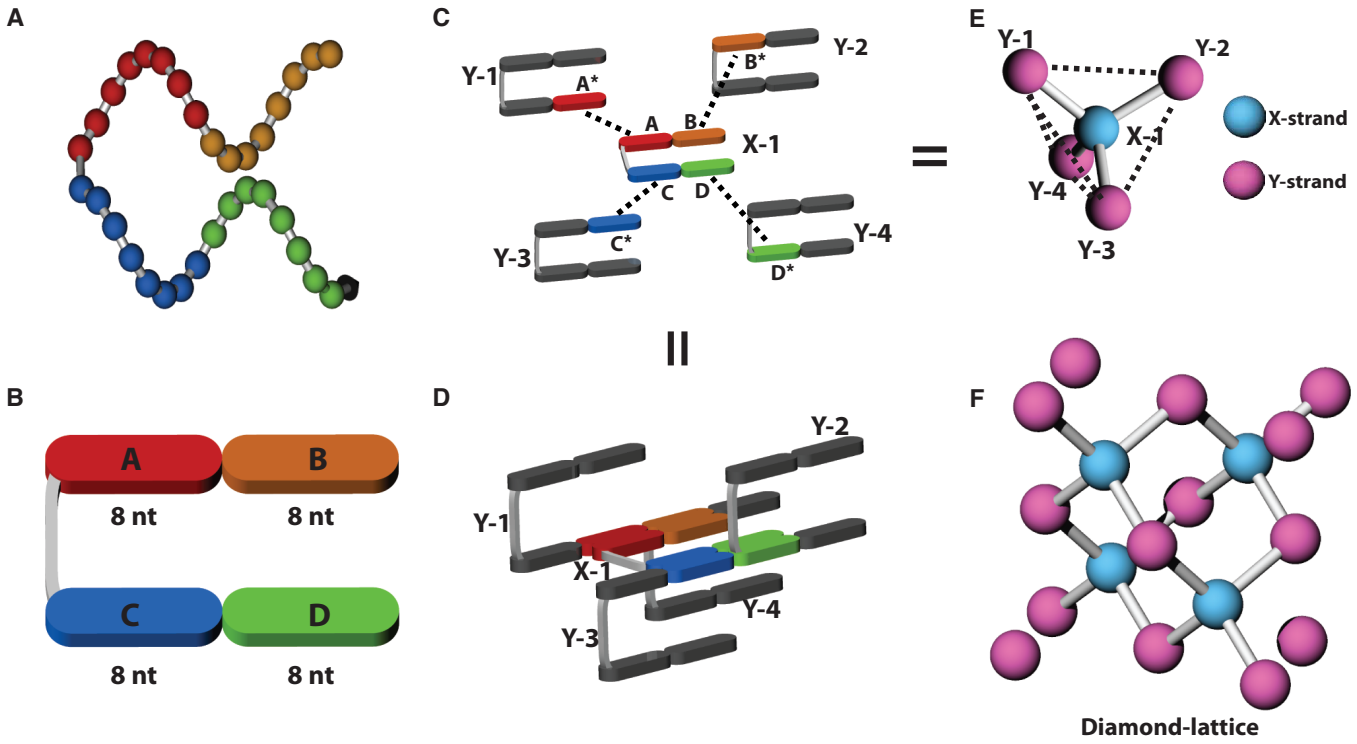


Fig. S4. Connections between X-bricks and Y-bricks. (**A**) A 32nt DNA brick. (**B**) Another drawing depicting the same 32nt strand. Each 8nt segment is labeled A, B, C, or D. (**C**) Interactions between an X-brick and its four neighboring Y-bricks. Complementarity is indicated by matching colors and symbols. For instance, segment A is complementary to segment A*; the two segments are shown in the same color. (**D**) An X-brick hybridizes with its four neighboring Y-bricks. (**E**) A ball-and-stick model showing the connection between an X-brick and its four neighboring Y-bricks. The ball represents the mass center of the strand. A stick represents the connection between two hybridizing strands. Together, the balls and sticks form a tetrahedron structure (dotted lines) with the X-brick at the center and each of four Y-bricks occupying a vertex. (**F**) The connection pattern of a large group of DNA strands resembles a diamond-lattice.

In this section, we discuss the interaction between a 32nt DNA brick and its four neighboring DNA bricks (fig. S4). These five strands resemble a tetrahedron in a ball-and-stick model, in which a 32nt strand occupies the center and each of its four neighbors occupies a vertex. In a 3D DNA-brick structure, a large number of strands will fit on a diamond-lattice (fig. S4F). Note that here we use a perfect tetrahedron shape and a perfect diamond-lattice for visual simplicity. To be more accurate, the tetrahedron and the diamond-lattice should be elongated along the axis of DNA duplexes to account for the dimensions of a voxel (2.5 nm $\times$ 2.5 nm $\times$ 2.7 nm) in a DNA-brick structure.

S3.2 Sequence design

S3.2.1 Random sequences *vs.* specifically designed sequences

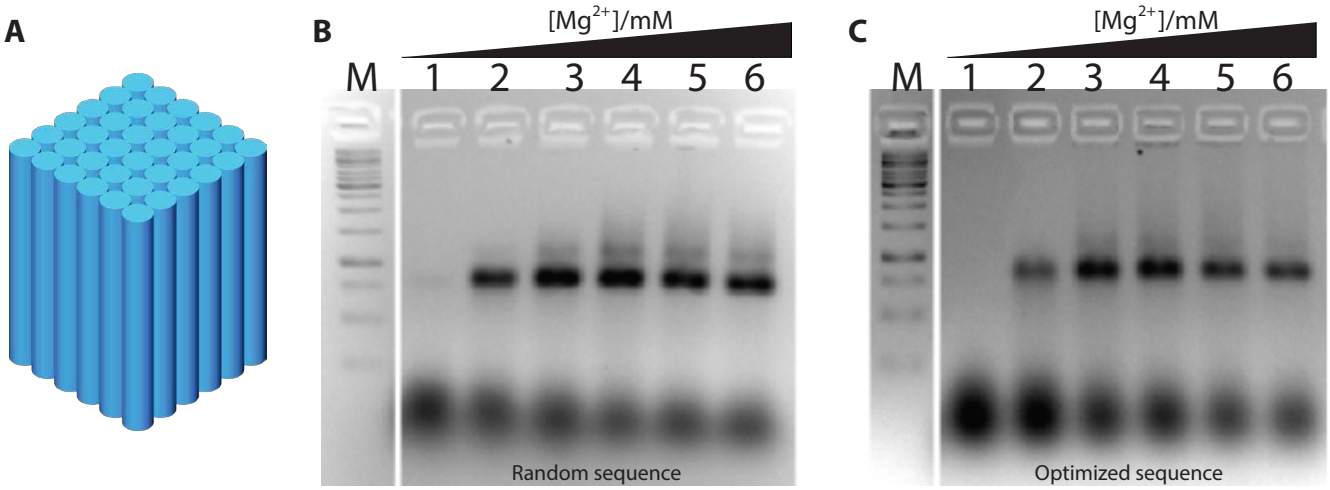


Fig. S5. Random sequences *vs.* specifically designed sequences. (**A**) A 6H × 6H × 64B cuboid was used for this experiment. All samples were self-assembled using a 72-hour annealing protocol. (**B**) and (**C**) Agarose gel assaying self-assembly of a 6H × 6H × 64B cuboid designed with random sequences (**B**) or specifically designed sequences (**C**). Lane M shows 1kb ladder. Lanes 1 to 6 show the 6H × 6H × 64B cuboid assembled at 200 nM concentration with 10, 20, 30, 40, 50, 60 mM $MgCl_2$, respectively. 20 μL of sample was loaded into each of lanes 1 to 6.

We tested the assembly of a 6H × 6H × 64B cuboid with random sequences or specifically designed sequences. The random sequences were generated by arbitrarily assigning G-C, A-T base-pairs to the structure. The designed sequences were generated using a combination of a custom program and UNAfold (http://mfold.rna.albany.edu/). Sequences of all X-bricks were generated first, by optimizing the following three criteria:

(1) Smoothing binding energy of strands (each strand has similar GC content).

(2) Minimizing secondary structure of each strand.

(3) Reducing sequence symmetry.

The Y-bricks were then generated according to their complementarity to the X-bricks. Our experiments showed similar assembly yield for random sequences and specifically designed sequences. Thus, we decided to use random sequences for all our 3D structures for simplicity.

S3.2.2 A 4H × 12H × 120B cuboid with three sets of random sequences

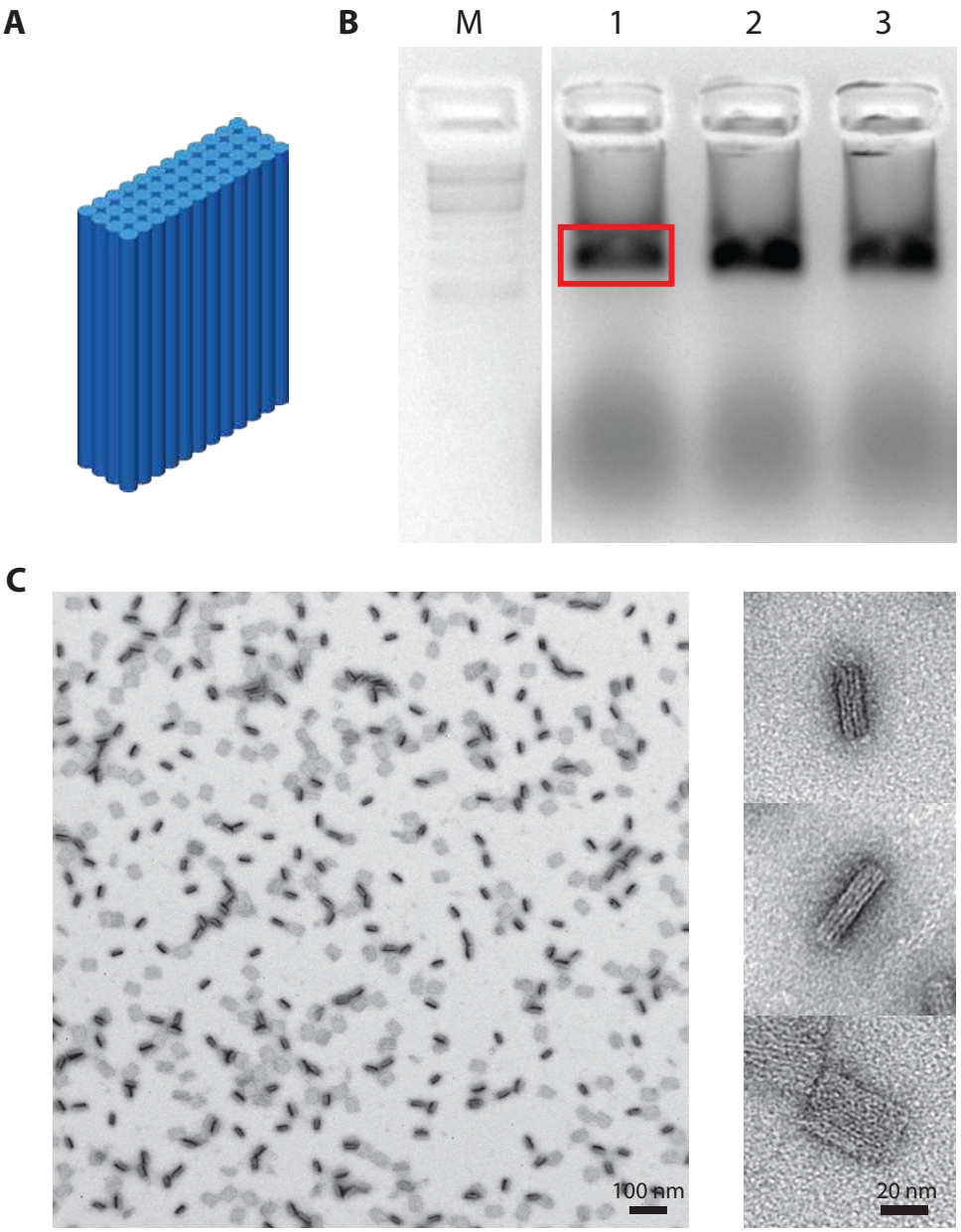


Fig. S6. Comparison of the self-assembly of 3D structures using three sets of random sequences. (**A**) A 4H × 12H × 120B cuboid was used for this experiment. (**B**) Agarose gel assaying self-assembly of the 4H × 12H × 120B cuboid. Lane M shows 1kb ladder. Lanes 1 to 3 show the 4H × 12H × 120B cuboid designed with three different sets of random sequences. All samples were self-assembled using a 72-hour annealing protocol with 40 mM $MgCl_2$. (**C**) TEM images of the 4H × 12H × 120B cuboid extracted from the band marked in (**B**).

We further tested the random sequence design with a 4H × 12H × 120B cuboid (fig. S6A). We generated three sets of strands with different random sequences and tested the self-assembly. Our results show the three sets of strands produced comparable yields (fig. S6B). The product for one of the designs was extracted and TEM images revealed expected molecular morphology (fig. S6C).

S3.2.3 Strand diagram of the 4H × 12H × 120B cuboid

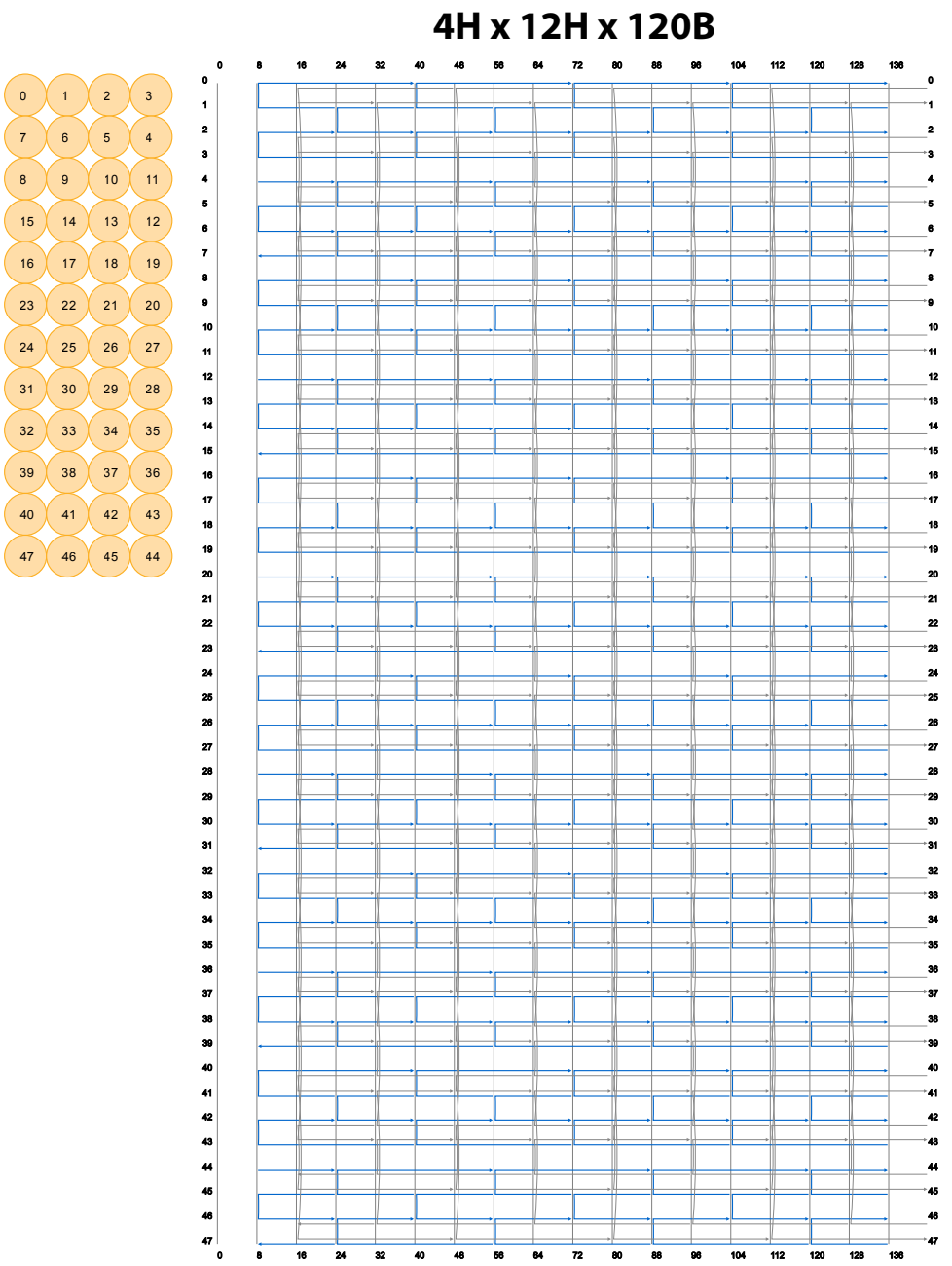


Fig. S7. Strand diagram of the 4H × 12H × 120B cuboid. Zoom in to see details.

S3.2.4 Analysis of random sequences: similarity of randomly-generated 8-base domains

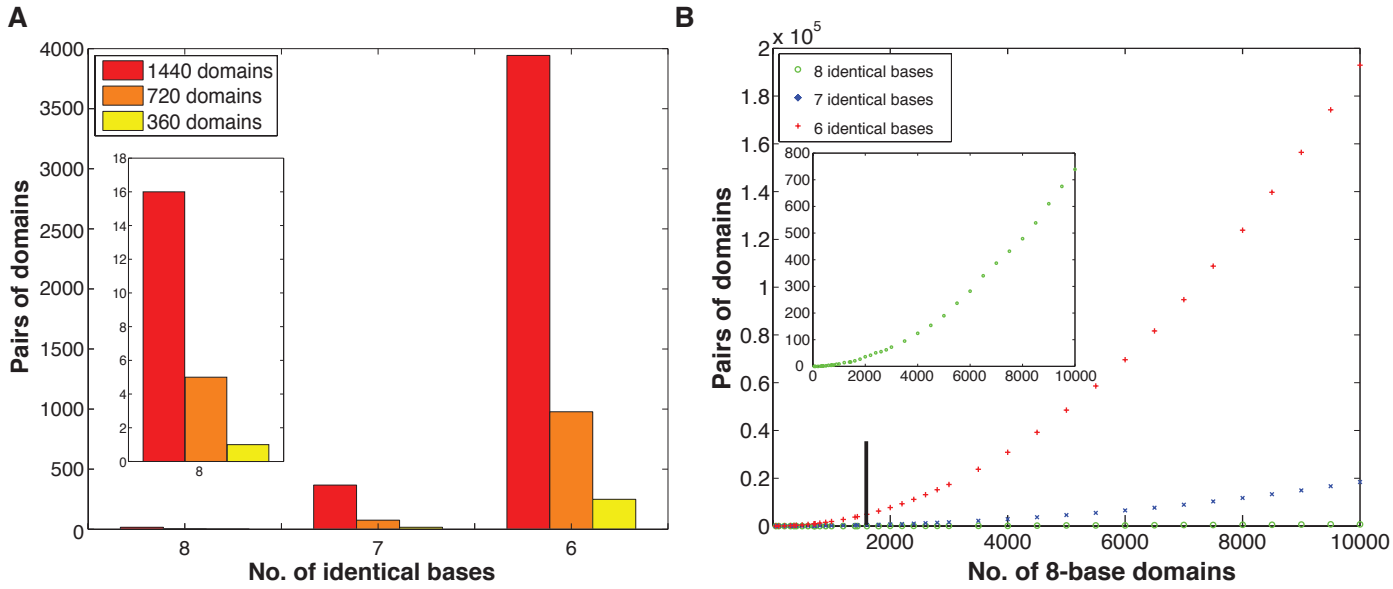


Fig. S8. (**A**) Number of pairs of 8-base domains that contain 8, 7, or 6 identical bases. The red, orange, and yellow bars represent the statistics for structures with 1440, 720, and 360 random domains, respectively. The inset provides a zoomed-in view of the graphs for domain pairs that contain 8 identical bases. (**B**) Number of pairs of 8-base domains that contain 8, 7, or 6 identical bases for a structure with a given number of 8-base domains. The red, blue, and green dots denote the number of pairs that contain 8, 7, and 6 identical bases, respectively. The inset provides a zoomed-in view for the number of pairs that contain 8 identical bases. The black line marks the approximate boundary to the left of which the experimentally tested structures in this paper reside.

To better understand the sequence space for DNA brick self-assembly, we analyzed the domain level sequence similarity for the structures constructed in this paper that use random sequences. Fig. S8A shows the number of domain pairs with 8, 7, or 6 identical sequences among all possible pairs of 8-base domains for: (1) the 4H × 24H × 128B cuboid (1,440 domains, red bars), (2) a structure one-half this size (720 domains, orange bars), and (3) a structure one-fourth of this size (360 domains, yellow bars). Additionally, fig. S8B shows the number of pairs of 8-base domains that contain 8, 7, or 6 identical bases for all possible pairs for a given number of 8-base domains. The experimentally constructed structures in this paper reside to the left of the black line. The domain similarity can also be studied analytically: for a pair of randomly-generated 8nt domains, the probability (p) of their sequences to contain n (n = 0,1,...,8) identical bases is $3^{(8-n)} \times C_8^{(8-n)}/4^8$ (e.g. if n = 8, p = $1/4^8$; if n = 7, p = $24/4^8$).

The above analysis reveals certain sequence similarity (including completely identical 8nt sequences) between the random domains used in our work. However, it appears that our DNA brick assembly method can tolerate such domain level similarity, as the structures self-assembled successfully, suggesting both the method's robustness as well as its potential scalability. The tolerance of domain level similarity likely reflects the "cooperativity" between domain interactions – a DNA brick binds to its neighbors with four domains (two domains for boundary species) in the assembled structures; during the assembly process, it is expected to bind to at least two neighbors when it first gets "stably" incorporated into the growing assembly. By intentionally avoiding the more complex and sophisticated sequence design criteria (e.g. the ones used in Sect. S3.2.1 for designed sequences) that may significantly restrict the sequence design space, it is possible that our seemingly "naive" random sequence design algorithm, by implicitly taking advantage of the intrinsic cooperativity of brick incorporation and the robustness of brick assembly, may have (somewhat counter-intuitively) achieved both robustness and scalability through simplicity.

S3.3 Boundary bricks

S3.3.1 Design of 48nt boundary bricks

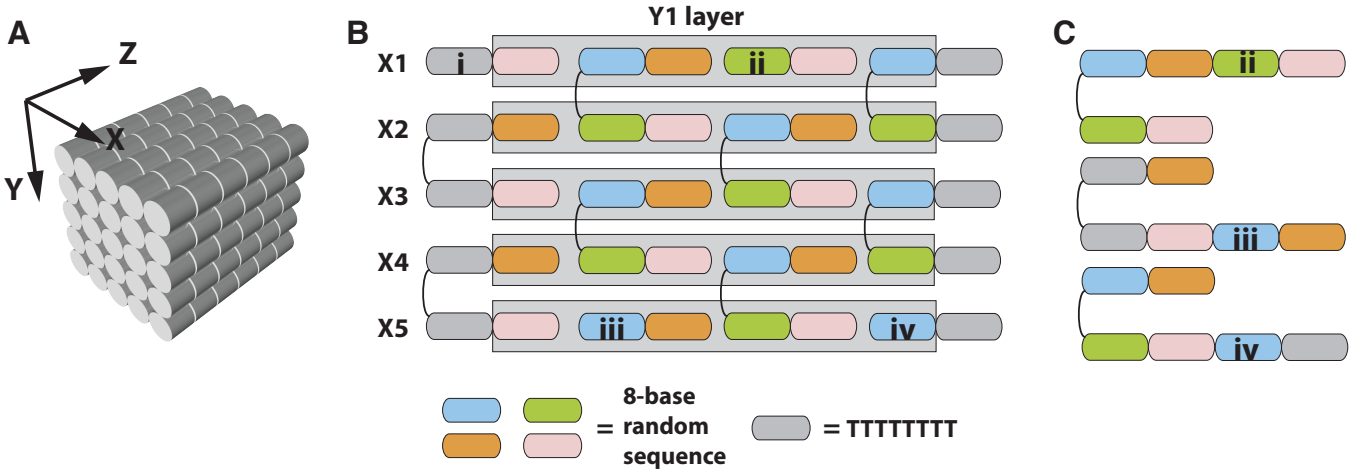


Fig. S9. Design of 48nt boundary bricks. (**A**) A cylinder model of a 5H × 5H × 48B cuboid. (**B**) The Y1-layer contains five helices - X1, X2, X3, X4, X5. Only X-bricks in the Y1-layer are shown. i, ii, iii, iv are 16nt boundary bricks. (**C**) Most of these short 16nt boundary bricks can be connected with the 32nt bricks on their left (Z- direction) to form 48nt boundary bricks, except for the ones at the very left end of the structure.

S3.3.2 A 6H × 6H × 64B cuboid with 48nt boundary bricks or 16nt boundary bricks

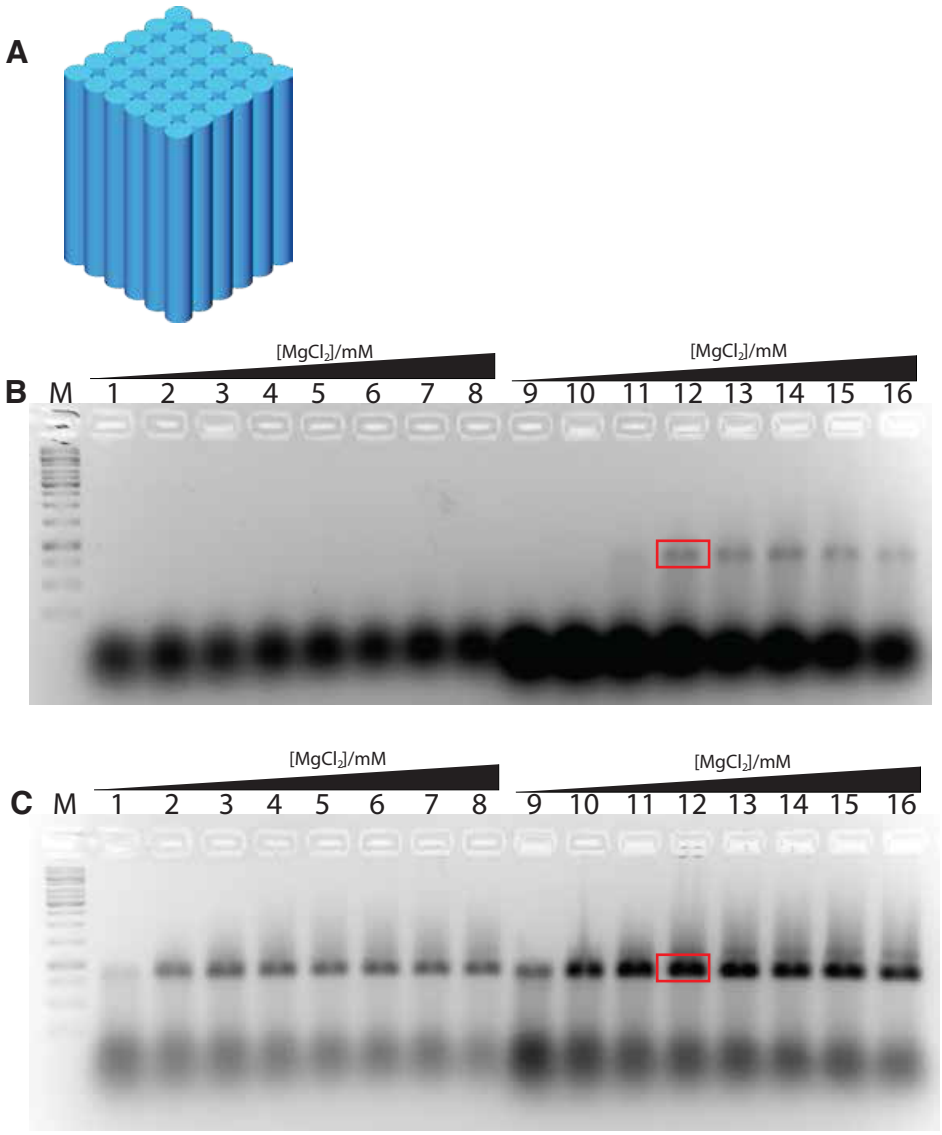


Fig. S10. A 6H × 6H × 64B cuboid with 48nt or 16nt boundary bricks. (**A**) A 6H × 6H × 64B cuboid is used to test the 16nt short boundary strands and 48nt long boundary strands. The design using 16nt boundary strands is named as a 6H × 6H × 64B-S cuboid. The design using 48nt boundary strands is named as a 6H × 6H × 64B cuboid. All samples were annealed using a 72-hour annealing protocol. (**B**) Agarose gel assaying the self-assembly of a 6H × 6H × 64B-S cuboid. Lane M shows 1kb ladder. Lanes 1 to 8 show a 6H × 6H × 64B-S cuboid assembled at 100 nM concentration with 10, 20, 30, 40, 50, 60, 70, 80 mM $MgCl_2$. Lanes 9 to 16 show a 6H × 6H × 64B-S cuboid assembled at 200 nM concentration with 10, 20, 30, 40, 50, 60, 70, 80 mM $MgCl_2$. 20 μL sample was loaded into each lane from 1 to 16. (**C**) Agarose gel assaying self-assembly of a 6H × 6H × 64B cuboid. Lane M shows 1kb ladder. Lanes 1 to 8 show a 6H × 6H × 64B cuboid assembled at 100 nM concentration with 10, 20, 30, 40, 50, 60, 70, 80 mM $MgCl_2$. Lanes 9 to 16 show 6H × 6H ×64B cuboid assembled at 200 nM concentration with 10, 20, 30, 40, 50, 60, 70, 80 mM $MgCl_2$. 20 μL sample was loaded into each lane from 1 to 16. Fluorescence intensities of the two bands in red boxes are used to compare yields of two designs.

Our experiments suggest these 48nt boundary strands greatly favor the formation of 3D structures. A 6H × 6H × 64B cuboid (with 48nt boundary strands) shows 142% higher yield in comparison with the 6H × 6H × 64B-S cuboid (with 16nt boundary strands). Both designs use strands with random sequences. A detailed strand diagram of a 6H × 6H × 64B-S cuboid is shown in fig. S11.

S3.3.3 Strand diagram of the 6H × 6H × 64B-S cuboid

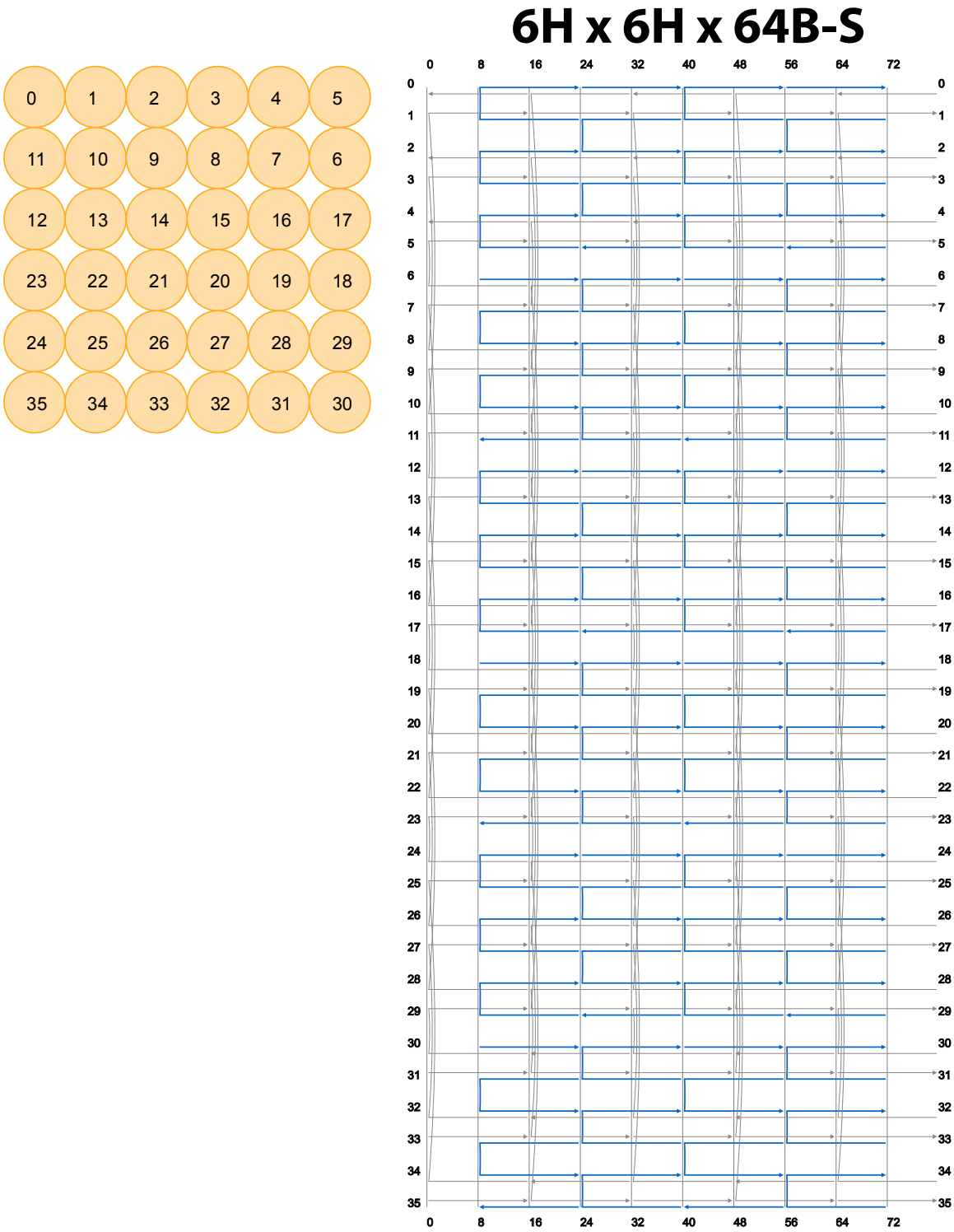


Fig. S11. Strand diagram of the 6H × 6H × 64B-S cuboid. Zoom in to see details.

S4 Self-assembly and characterization of a 6H × 10H × 128B cuboid

S4.1 Design of the 6H × 10H × 128B cuboid

S4.1.1 A cylinder model of the 6H × 10H × 128B cuboid and TEM images

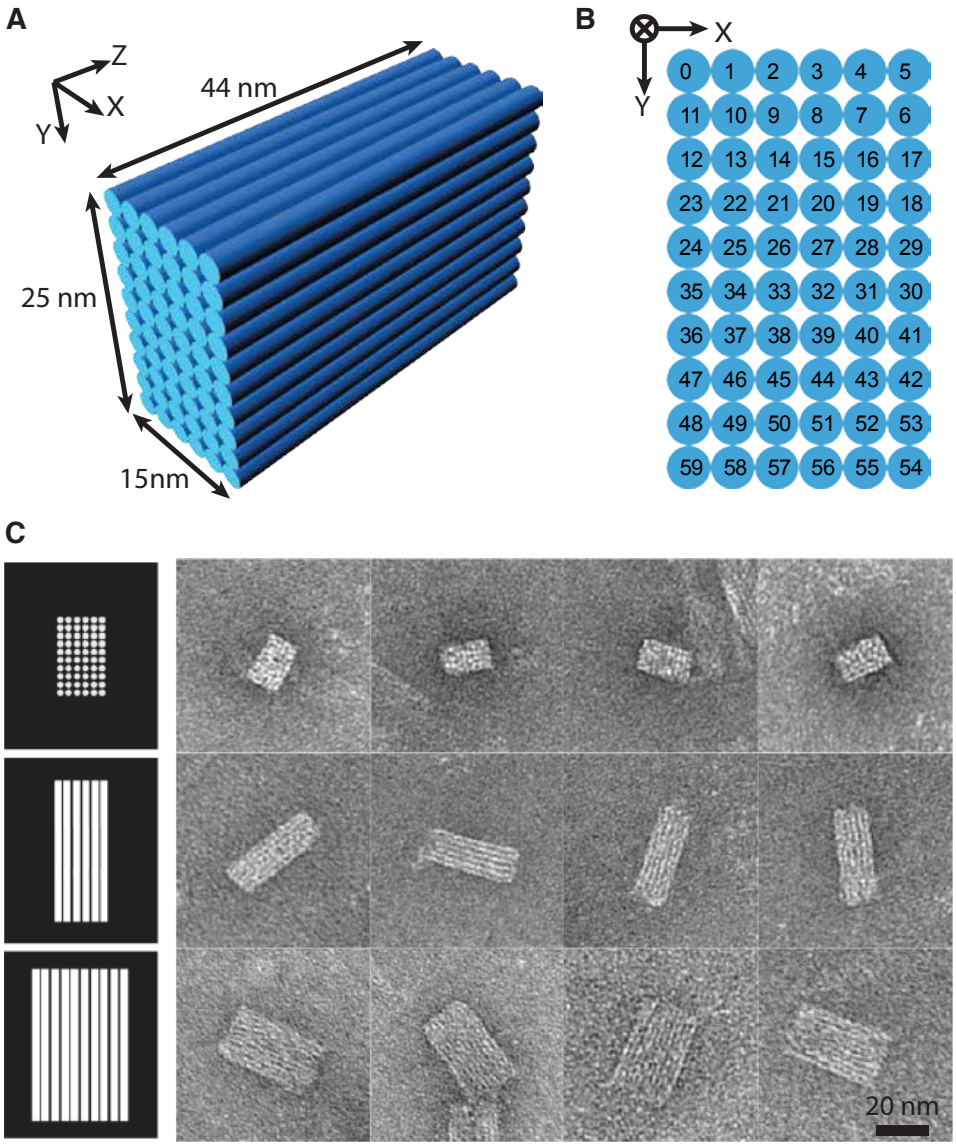


Fig. S12. Design and TEM images of the 6H × 10H × 128B cuboid. (**A**) A cylinder model of a 6H × 10H × 128B cuboid. (**B**) The X–Y cross-section, looking down the Z+ direction of a 6H × 10H × 128B cuboid. The helices are numbered from 0 to 59 for strand editing in caDNAno. (**C**) Computer-generated projection views (left) and TEM images (right) of a 6H × 10H × 128B cuboid.

S4.1.2 Strand diagrams of the 6H × 10H × 128B cuboid

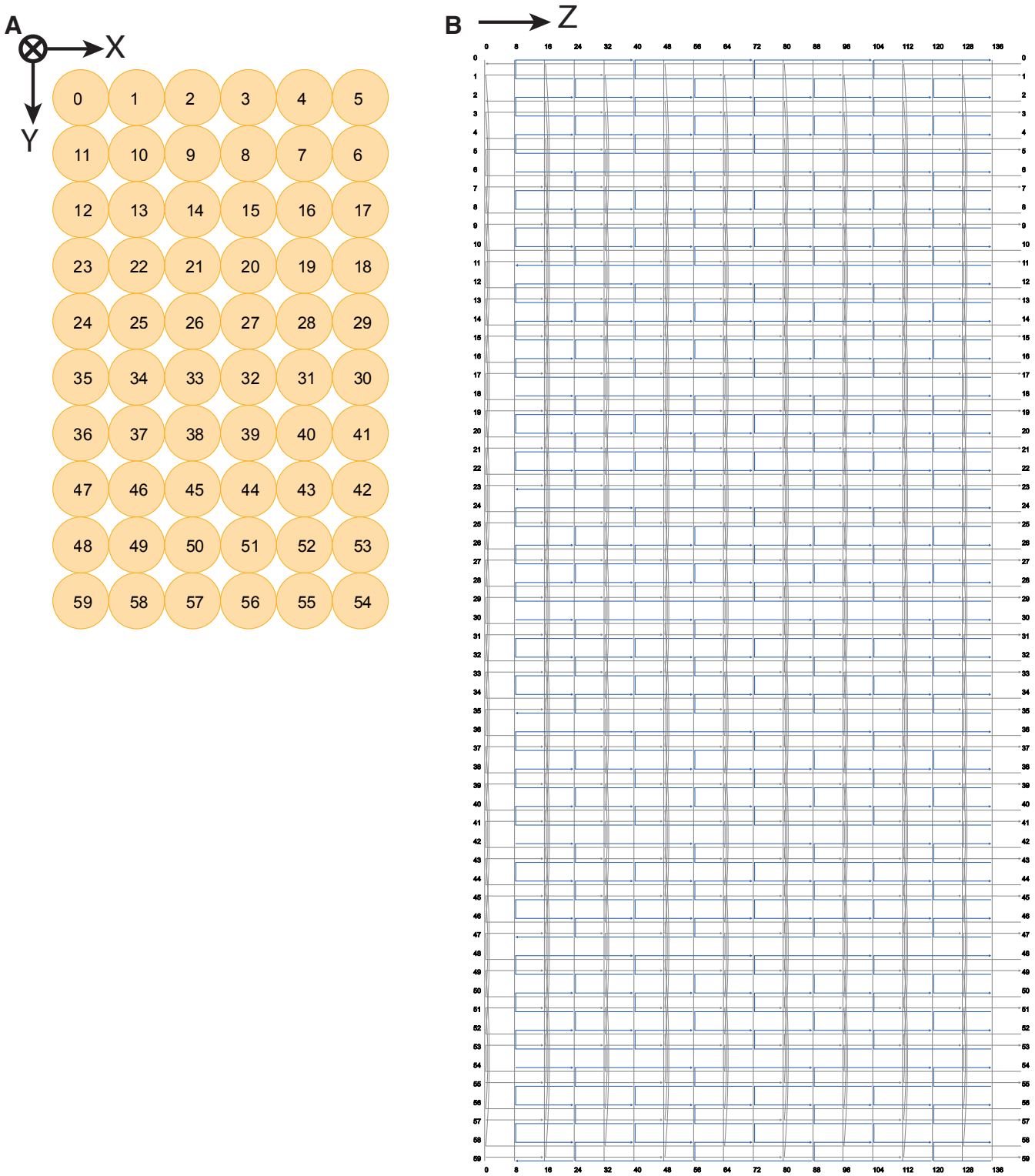


Fig. S13. Detailed strand diagrams of the 6H × 10H × 128B cuboid. (**A**) The X–Y cross-section, looking down the Z+ direction of 6H × 10H × 128B cuboid. (**B**) Detailed strand diagram of all strands of 6H × 10H × 128B cuboid. The numbers in the left image indicate the helices. The numbers on the top and bottom indicate the position of the bases along Z-axis. X-bricks are in blue, and Y-bricks are in gray. Arrows indicate the 3′ ends of strands. Zoom in to see details.

S4.2 Yield analysis of the 6H × 10H × 128B cuboid

S4.2.1 Optimization of assembly conditions

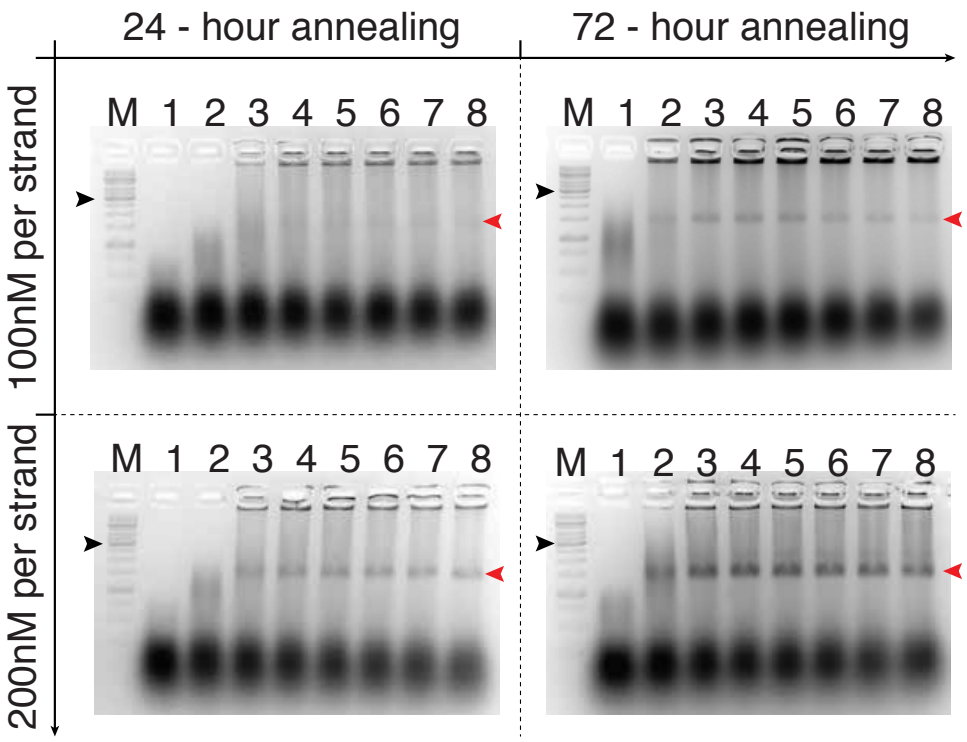


Fig. S14. Assembly conditions for the 6H × 10H × 128B cuboid. Agarose gel electrophoresis shows that the maximum assembly yield was achieved when strands (200 nM each) were annealed for 72 hours with 40 mM $MgCl_2$. For each agarose gel, lane M contains the 1 kb ladder, lanes 1 to 8 contain 6H × 10H × 128B cuboids annealed with ascending $MgCl_2$ concentrations from 10 to 80 mM (10 mM interval). The product bands (denoted by red arrows) were compared to the 3 kb marker band (indicated by black arrows) to estimate the assembly yield under each condition (See fig. S15 for more details).

S4.2.2 Assembly yield analysis of the 6H × 10H × 128B cuboid based on agarose gel electrophoresis

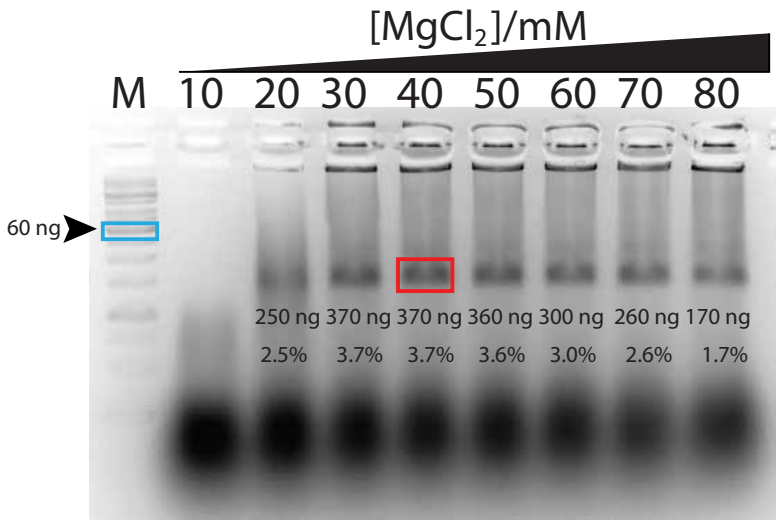


Fig. S15. Assembly yield analysis of the 6H × 10H × 128B cuboid based on agarose gel electrophoresis. The strands (at 200 nM each) were self-assembled in 0.5 × TE buffer with 10, 20, 30, 40, 50, 60, 70, 80 mM $MgCl_2$, using a 72-hour annealing ramp. 10 μL of sample was loaded into each lane. Lane M contains the 1 kb ladder. The band in the blue box indicates the 3000bp ladder band corresponding to 60 ng DNA. This band was used as a standard to measure the yield of products. The product band formed with 40 mM $MgCl_2$ is marked in a red box. Both the absolute mass value and the percentage yield are shown below each product band.

The yields of 3D structures are estimated using agarose gel electrophoresis. Fig. S15 demonstrates one example of such assays. Annealed samples were subjected to agarose gel electrophoresis to separate the product from free strands and unwanted aggregates. The yield of a product was estimated by comparing the fluorescence intensity of the product band (marked in a red box) to the fluorescence intensity of the 3 kb ladder band (marked in a blue box). Background was subtracted from the fluorescence signal of the band. The intensities were measured using ImageJ software as:

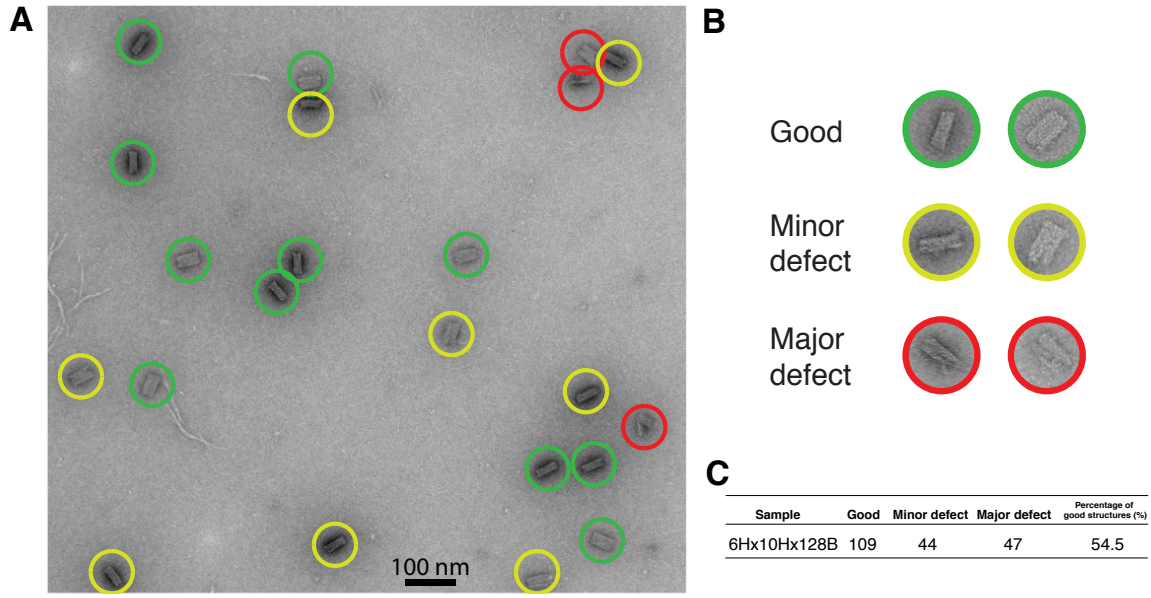
$$\text{Product mass} = \frac{\text{Fluorescence intensity of product band}}{\text{Fluorescence intensity of 3kb ladder}} \times 60 \text{ ng}$$

Percentage yield is then calculated as:

$$\text{Percentage yield} = \frac{\text{Mass of product}}{\text{Mass of all strands}}$$

It is worth noting that efficiency of the EtBr staining may vary between the double-stranded 3kb ladder and our 3D structures. Therefore, the absolute number of the yield should be treated as a rough estimate. Nonetheless, this assay is especially useful for comparing self-assembly results between structures and for screening optimal annealing conditions of 3D structures.

S4.2.3 TEM analysis of the purified 6H × 10H × 128B cuboid



Sample	Good	Minor defect	Major defect	Percentage of good structures (%)
6Hx10Hx128B	109	44	47	54.5

Fig. S16. TEM analysis of the purified 6H × 10H × 128B cuboid. (**A**) A representative TEM image of the purified 6H × 10H × 128B cuboid. Particles circled in green were categorized as "good" particles with no visible defect. Particles circled in yellow that showed minor defects were categorized as "minor defect" particles. Particles circled in red that showed major defects or were even broken were categorized as "major defect" particles. (**B**) Examples of "good", "minor defect", and "major defect" particles of the purified 6H × 10H × 128B cuboid. (**C**) Statistics of "good", "minor defect", and "major defect" structures.

After agarose gel purification of the 6H × 10H × 128B cuboid, percentage of intact structures was also calculated by counting the structures in the TEM images. This percentage is related to the stability of purified structures. The particles in TEM images were categorized as "good", "minor defect", or "major defect":

Good: no obvious damage.

Minor defect: one small damage, often on the edges.

Major defect: more than one small defect or completely broken structures.

The percentage of intact particles was determined as a ratio of the good particles over total counted particles. Most minor defects occurred at the locations close to the helix ends of structures, possibly indicating that strands at these locations were prone to dissociation.

S4.3 A modified design of the 6H × 10H × 128B cuboid to improve self-assembly yield

S4.3.1 Design of "head protector" modification

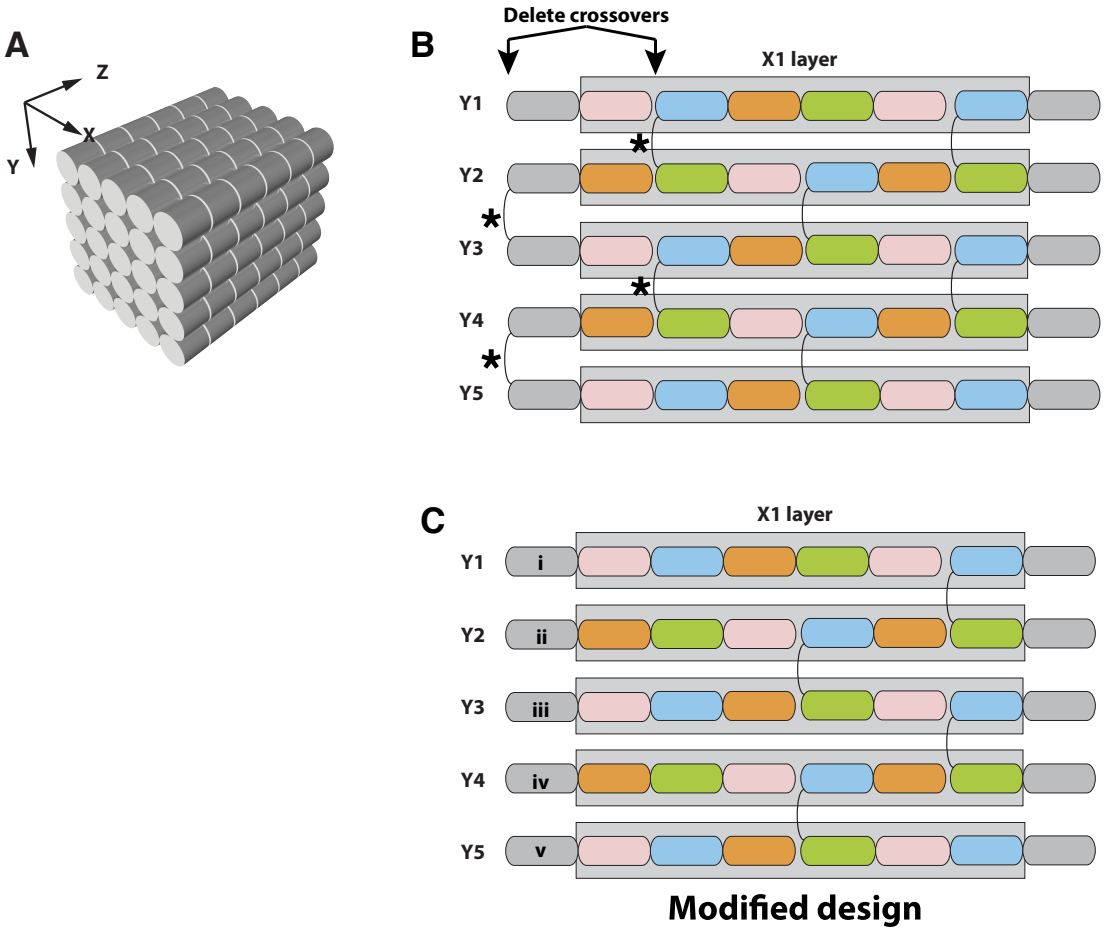


Fig. S17. Design of "head protector" modification. (**A**) A cylinder model of a 5H × 5H × 48B cuboid. Each voxel is 8bp. (**B**) The X1-layer of a 5H × 5H × 48B cuboid designed using the original strategy. Only the Y-bricks in the X1-layer are shown. Note that the 48nt boundary strands (fig. S10) are implemented. Arrows and "⋆"s denote the positions where the crossover are removed to generate a modified version. (**C**) The X1-layer of a 5H × 5H × 48B cuboid using the modified design. Compared to the original design, four crossovers were removed, and the new strands (i, ii, iii, iv, v) were incorporated by merging two neighboring strands in the same duplex.

Strands located at the ends of DNA duplexes only bind to other bricks via one or two 8nt domains (fig. S17B) and are thus likely to be less stable than other bricks. We attempted to increase the binding strength of the end bricks in the following two-step modified design method. (1) Deletion of crossovers. As indicated by the arrows (fig. S17B), the first and second column of crossovers are removed. (2) Connection of strands. As shown in fig. S17C, each pair of strands located in the same duplex are merged together to form a longer strand (32nt or 48nt). This method was applied to a 6H × 10H × 128B cuboid (strand diagram in fig. S18) and successfully improved the assembly yield (fig. S19).

Although the above modification of end brick strands is expected to improve the self-assembly of 3D DNA-brick structures, the deletion results in a lower crossover density that may create weak attachment points and local deformation, especially for structures with shorter helices. Therefore, we only tried this modified version as a proof-of-concept that 3D structures can be stabilized by implementing special design rules (fig. S19). Other 3D structures used in this paper were designed using the standard strategy.

S4.3.2 Comparison of the 6H × 10H × 128B cuboid and a modified version of the 6H × 10H × 128B-M cuboid

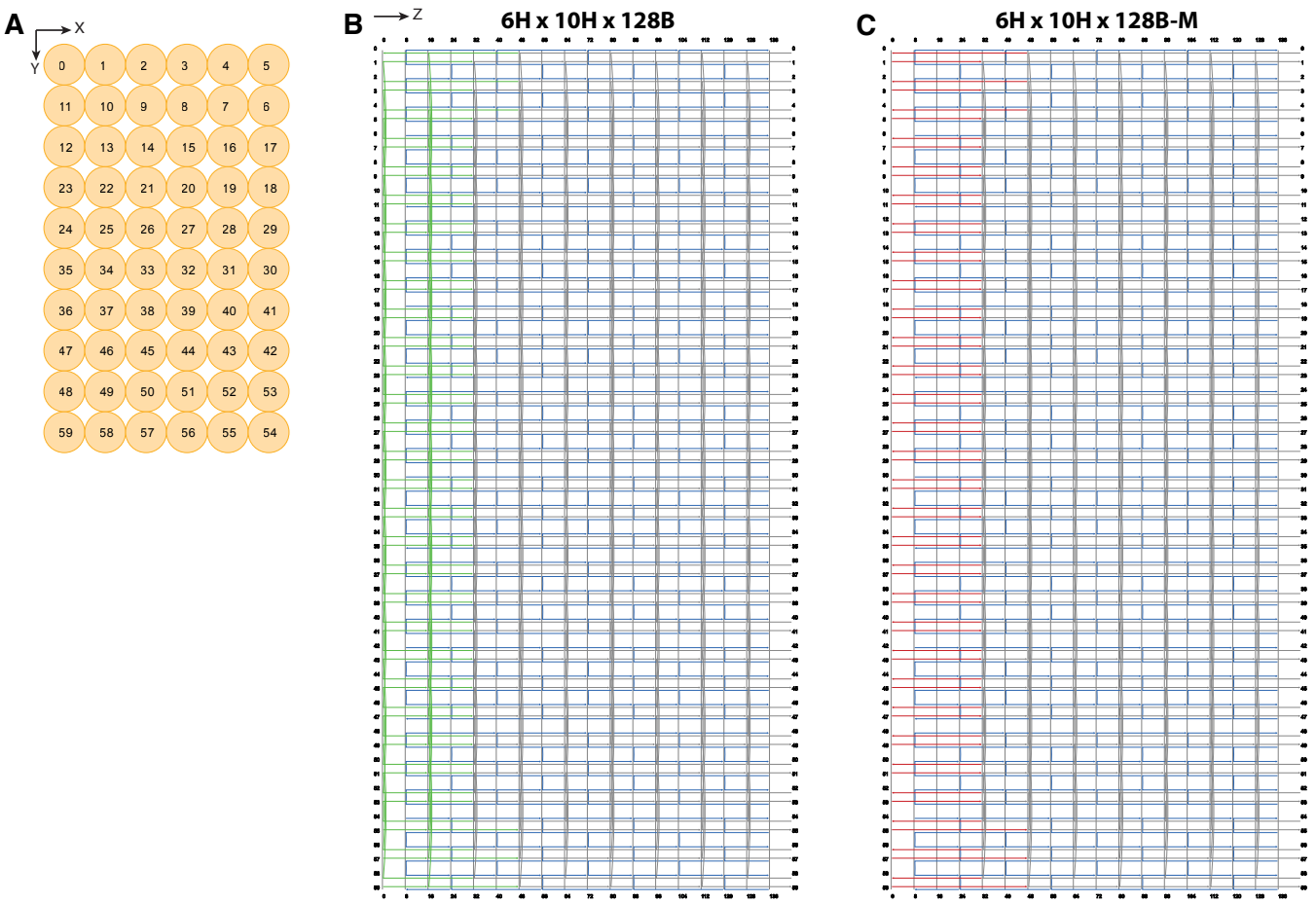
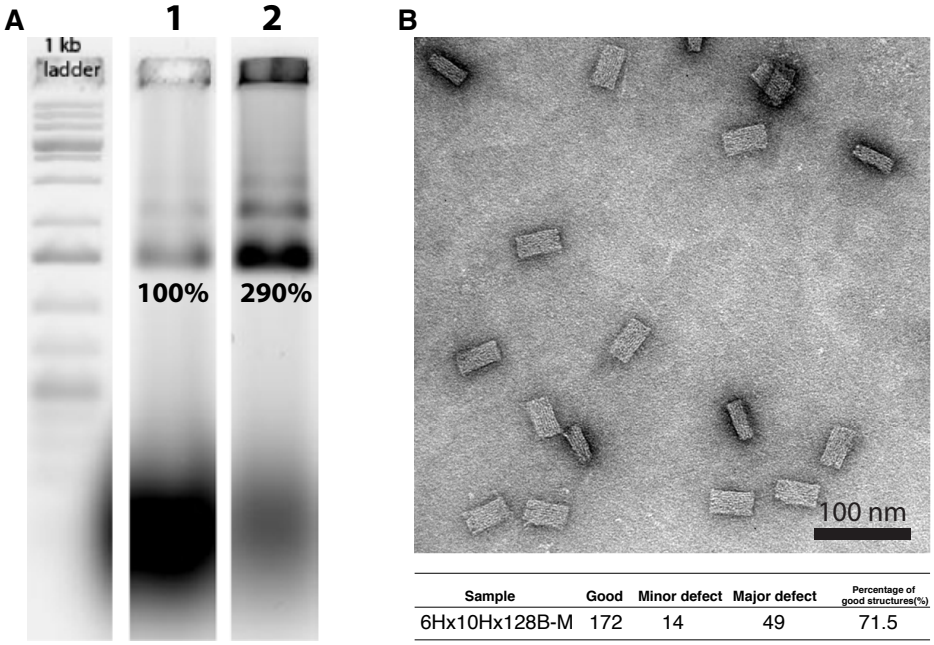


Fig. S18. Strand diagrams of the original 6H × 10H × 128B cuboid and a modified version of the 6H × 10H × 128B-M cuboid. (**A**) X–Y cross-section of a 6H × 10H × 128B cuboid. (**B**) Strand diagram of a 6H × 10H × 128B cuboid. Strands colored in green are modified. First, the crossovers located at Z0 and Z16 positions are removed. Second, each pair of green strands located on the same duplex are merged together to form a single strand. (**C**) Strand diagram of the modified version 6H × 10H × 128B-M cuboid. Strands colored in red are the modified strands with no crossovers. Zoom in to see details.

We modified a 6H × 10H × 128B cuboid in order to test our new strategy (fig. S17). Experimental results are shown in fig. S19.

S4.3.3 Agarose gel yield and TEM analysis of the 6H × 10H × 128B-M cuboid



Sample	Good	Minor defect	Major defect	Percentage of good structures(%)
6Hx10Hx128B-M	172	14	49	71.5

Fig. S19. Agarose gel electrophoresis and TEM analysis of the 6H × 10H × 128B-M cuboid. (**A**) Agarose gel assay of the 6H × 10H × 128B-M cuboid. Lane 1 shows the 6H × 10H × 128B cuboid as a control sample. Lane 2 shows a 6H × 10H × 128B-M cuboid. Both samples were annealed using the same condition (200 nM per strand, 0.5 × TE buffer with 40 mM $MgCl_2$, 72-hour annealing ramp). A 6H × 10H × 128B-M cuboid generated 2.9 times higher yield than the 6H × 10H × 128B cuboid. (**B**) A representative TEM image and analysis of intact structures of purified 6H × 10H × 128B-M cuboid.

Agarose gel electrophoresis assay shows that the 6H × 10H × 128B-M cuboid yielded a much brighter product band than the 6H × 10H × 128B cuboid under the same annealing conditions (fig. S19A). The intact structures of a gel purified 6H × 10H × 128B-M cuboid structures is estimated to be 71.5%, an improvement over the 54.5% intact structures of a 6H × 10H × 128B cuboid (fig. S16), suggesting that the self-assembled structures of the 6H × 10H × 128B-M cuboid survived the purification and imaging processes better than the original design.

S5 TEM images and yields of DNA brick cuboid structures

S5.1 TEM and agarose gel electrophoresis of 3H × 3H, 4H × 4H, 6H × 6H, 6H × 10H, 8H × 12H, 4H × 24H, and 12H × 12H cuboids

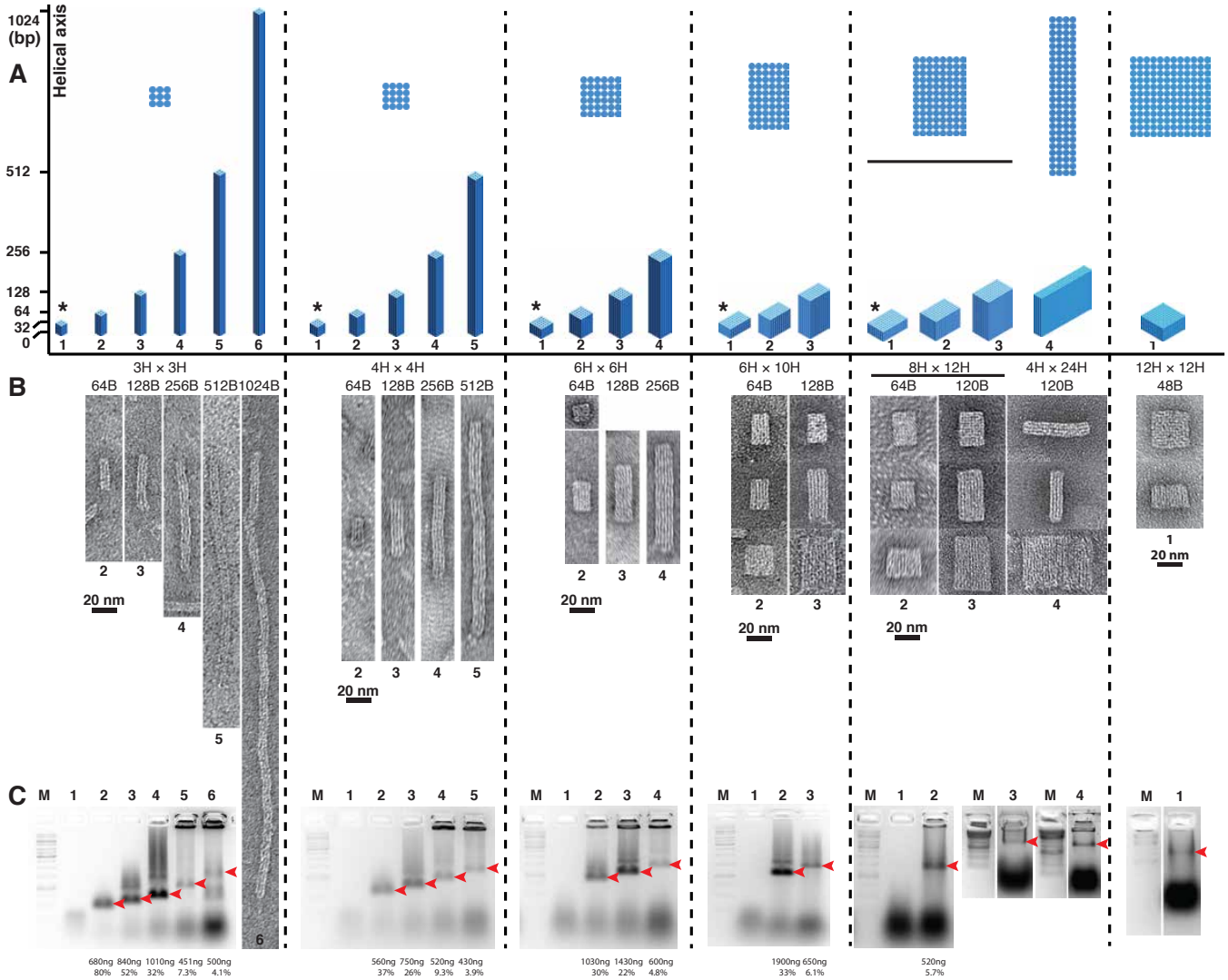


Fig. S20. TEM and agarose gel electrophoresis of 3H × 3H, 4H × 4H, 6H × 6H, 6H × 10H, 8H × 12H, 4H × 24H, and 12H × 12H cuboids. (**A**) Designs of cuboids with a variety of dimensions. 3D cylinder models are drawn proportionally to their relative dimensions. The cross-sections of each group are shown above their 3D cylinder models. The "⋆"s indicate designs measuring 32bp in height that failed self-assembly. (**B**) TEM images of purified cuboids in **A**. (**C**) Agarose gel electrophoresis for cuboids. For each group, lane M contains the 1 kb ladder; other lanes are labeled with numbers in accordance with their designs in **A**. Products (indicated by red arrows) were purified for TEM imaging. Structures were self-assembled in 0.5 × TE buffer with 40 mM $MgCl_2$ using a 72-hour annealing ramp. The concentration of each strand was 200 nM. 10 μL of sample was loaded into each lane. The 3000bp band corresponding to 60 ng DNA was used as a standard to measure the yield of annealing products, indicated by red arrows. Below each product band, both the absolute mass value and the percentage yield are shown, using the method described in fig. S15. Note that the yields of 8H × 12H × 120B, 4H × 24H × 120B, and 12H × 12H × 120B cuboids are lower than 1%. Fig. S20 is a more complete version of Fig. 2.

S5.2 3H × 3H cuboids

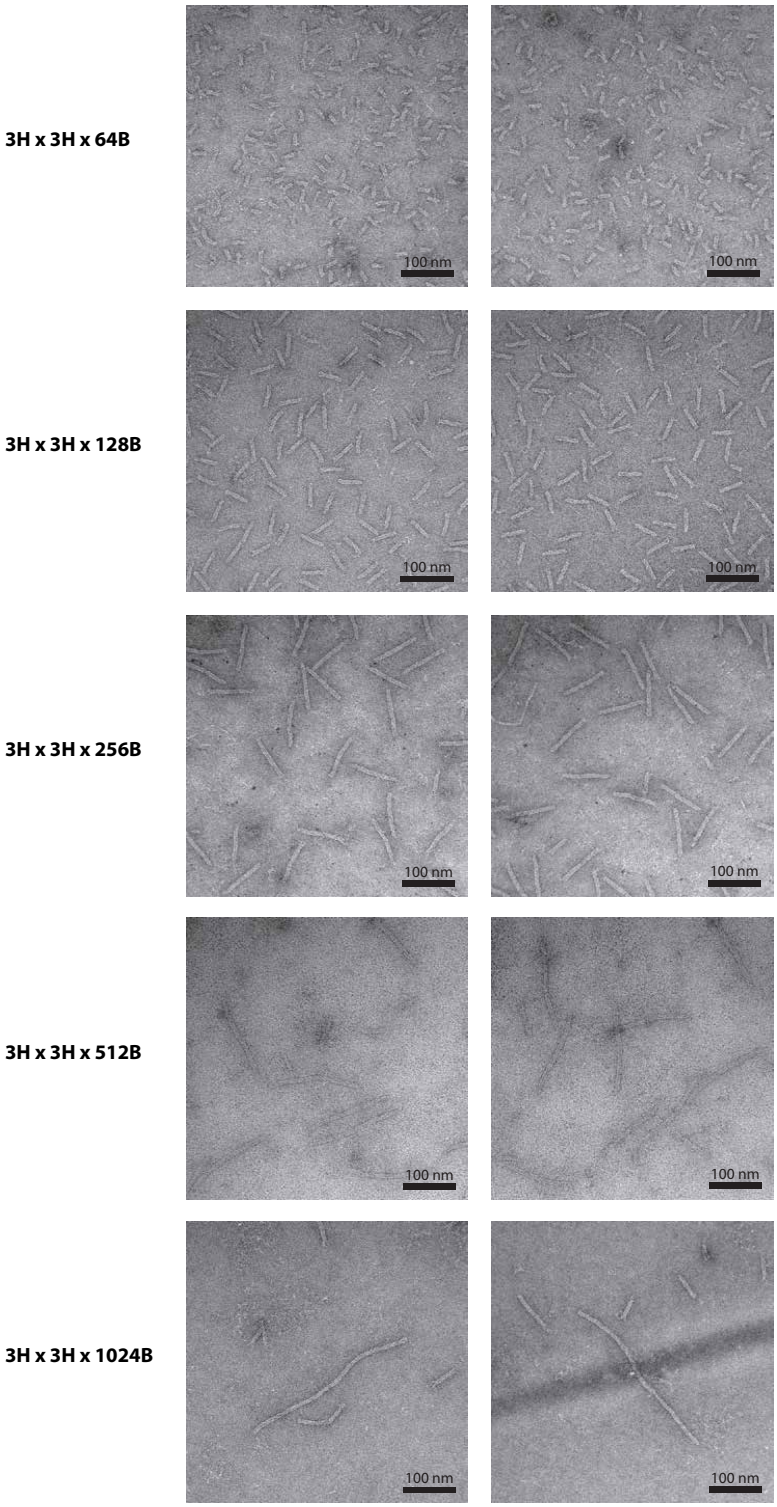


Fig. S21. TEM images of 3H × 3H × (64B, 128B, 256B, 512B, 1024B) cuboids.

S5.3 4H × 4H cuboids

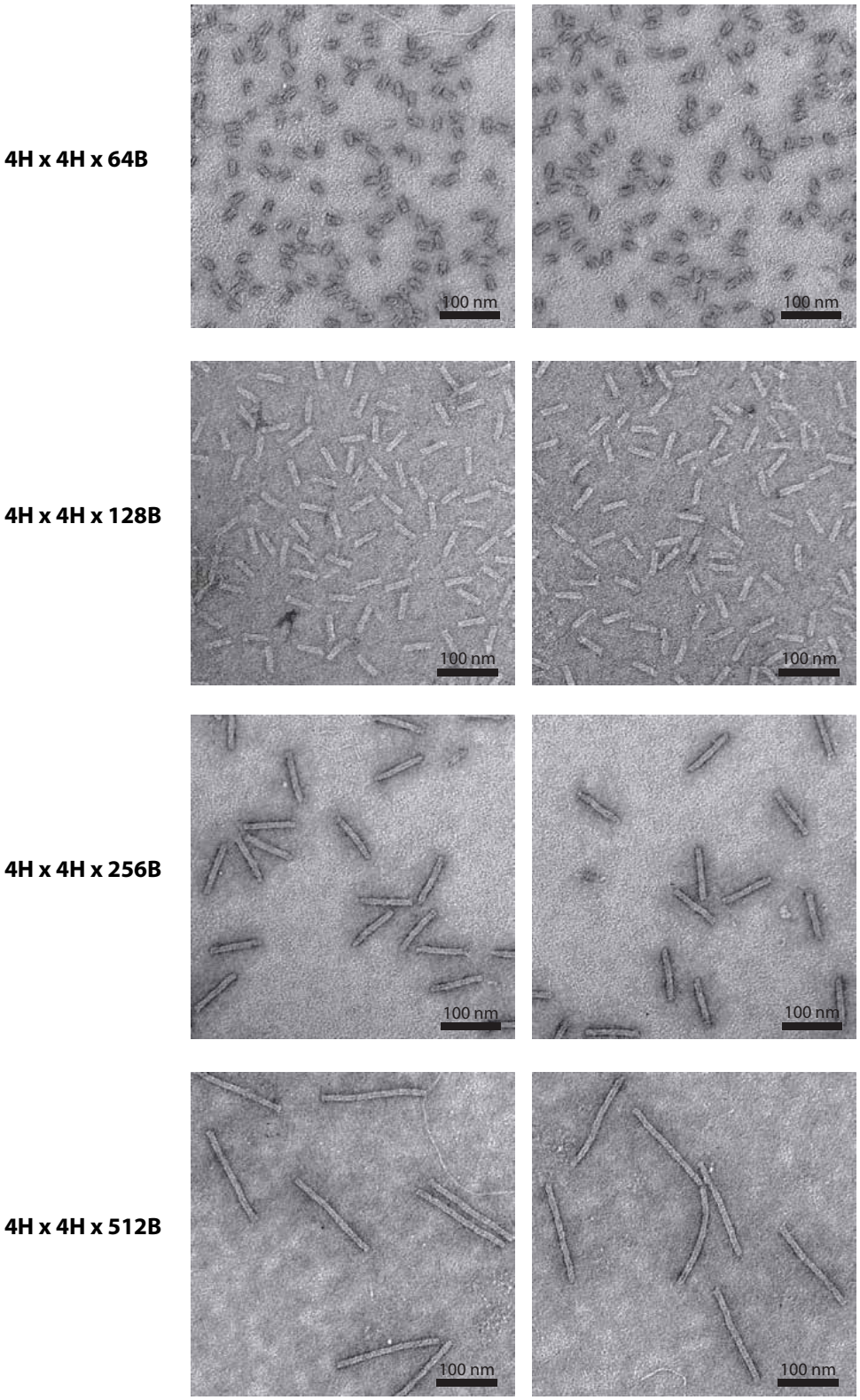


Fig. S22. TEM images of 4H × 4H × (64B, 128B, 256B, 512B) cuboids.

S5.4 6H × 6H cuboids

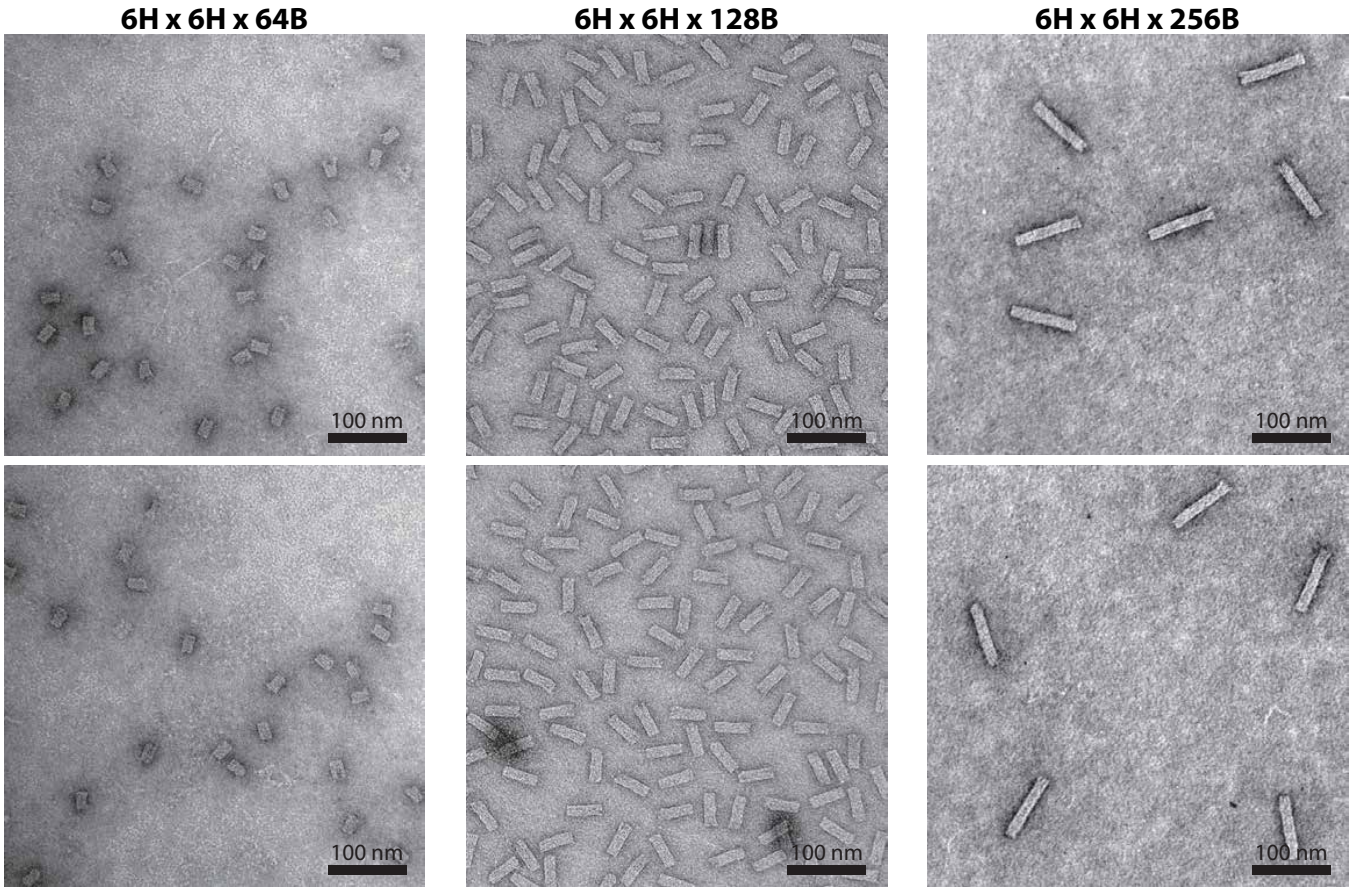


Fig. S23. TEM images of 6H × 6H × (64B, 128B, 256B) cuboids.

S5.5 6H × 10H cuboids

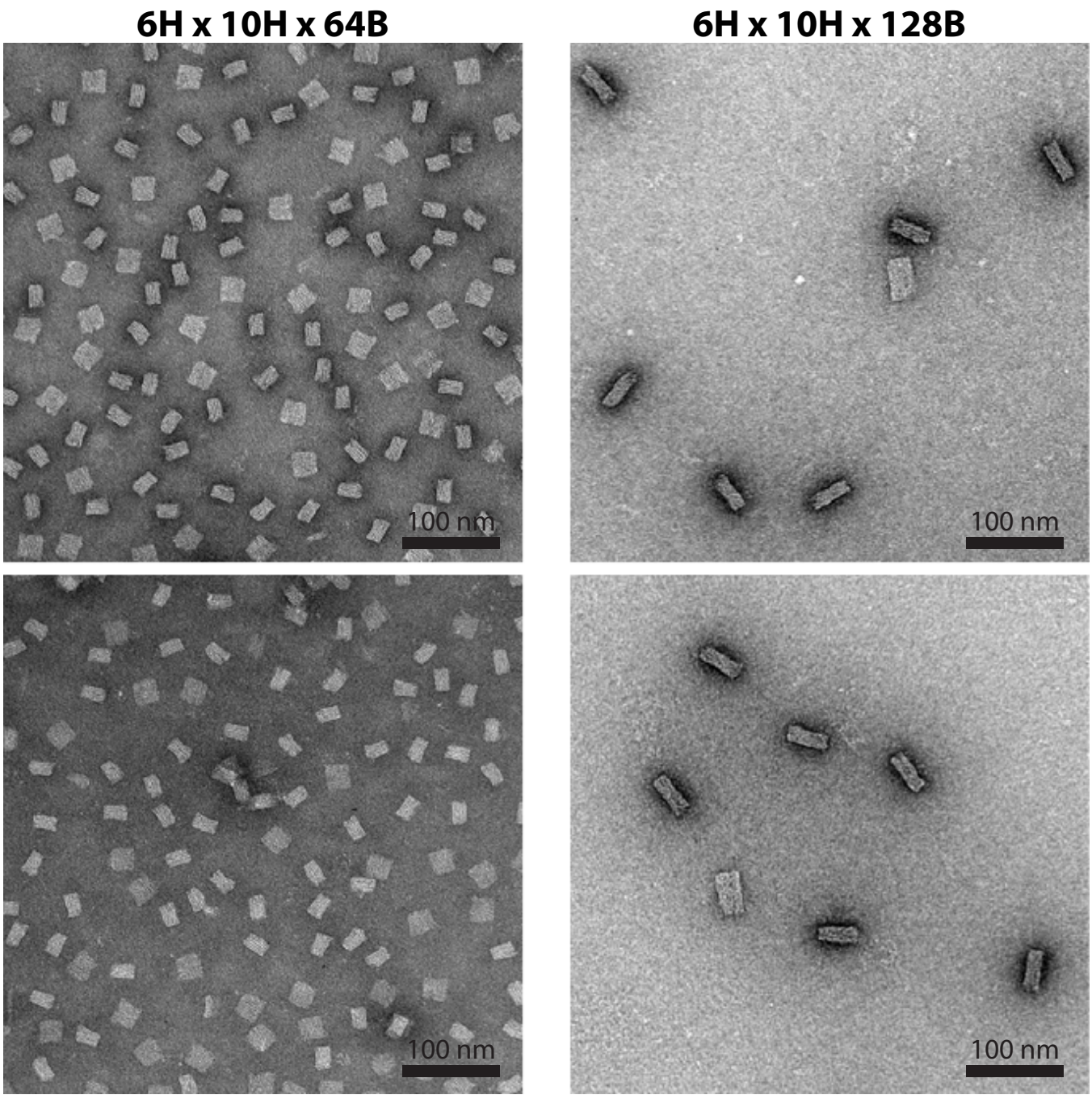


Fig. S24. TEM images of 6H × 10H × (64B, 128B) cuboids.

S5.6 8H × 12H cuboids

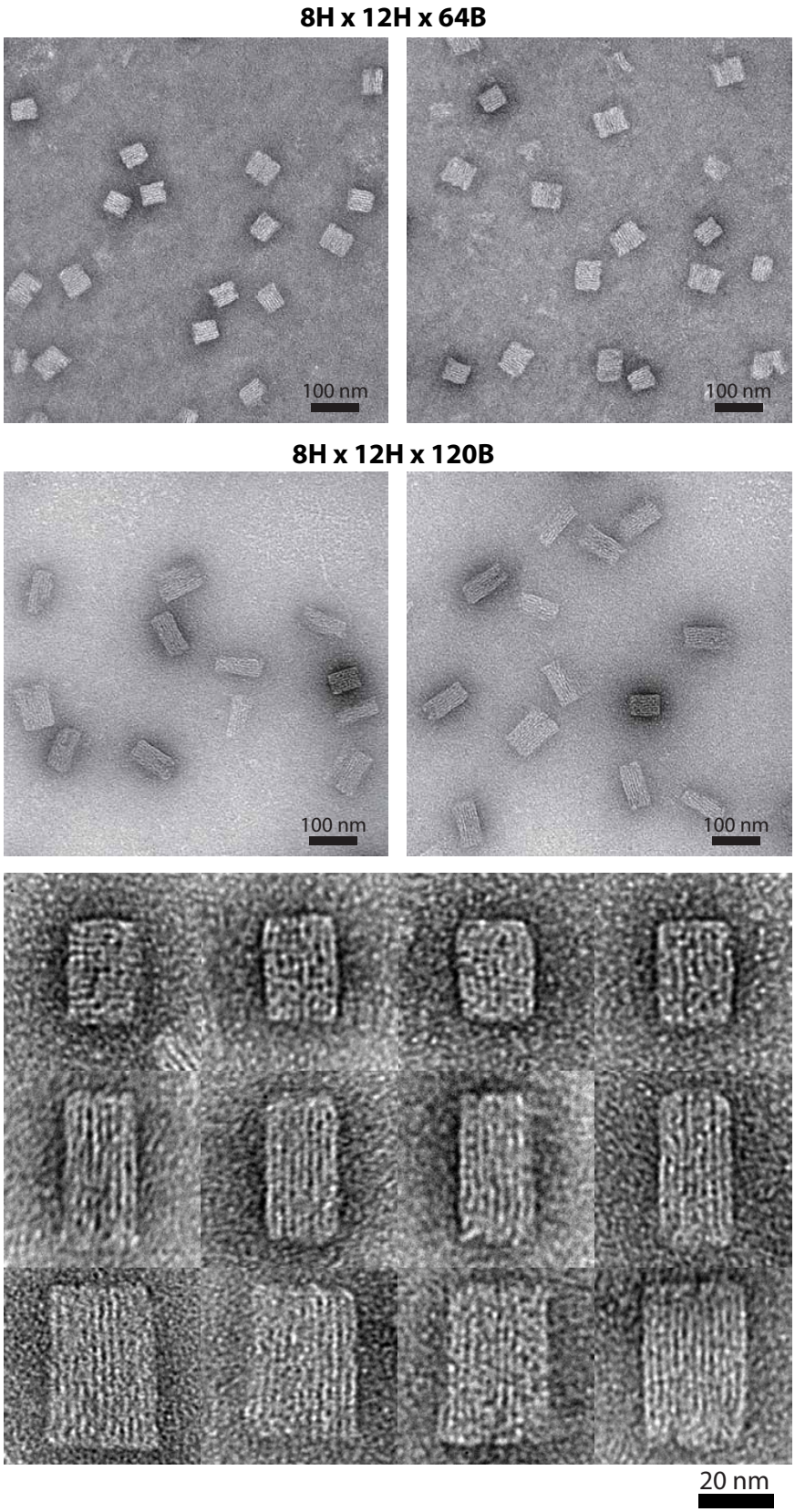


Fig. S25. TEM images of 8H × 12H × (64B, 120B) cuboids. Zoomed-in images show three projection views of the 8H × 12H × 120B cuboid.

S5.7 A 4H × 24H cuboid

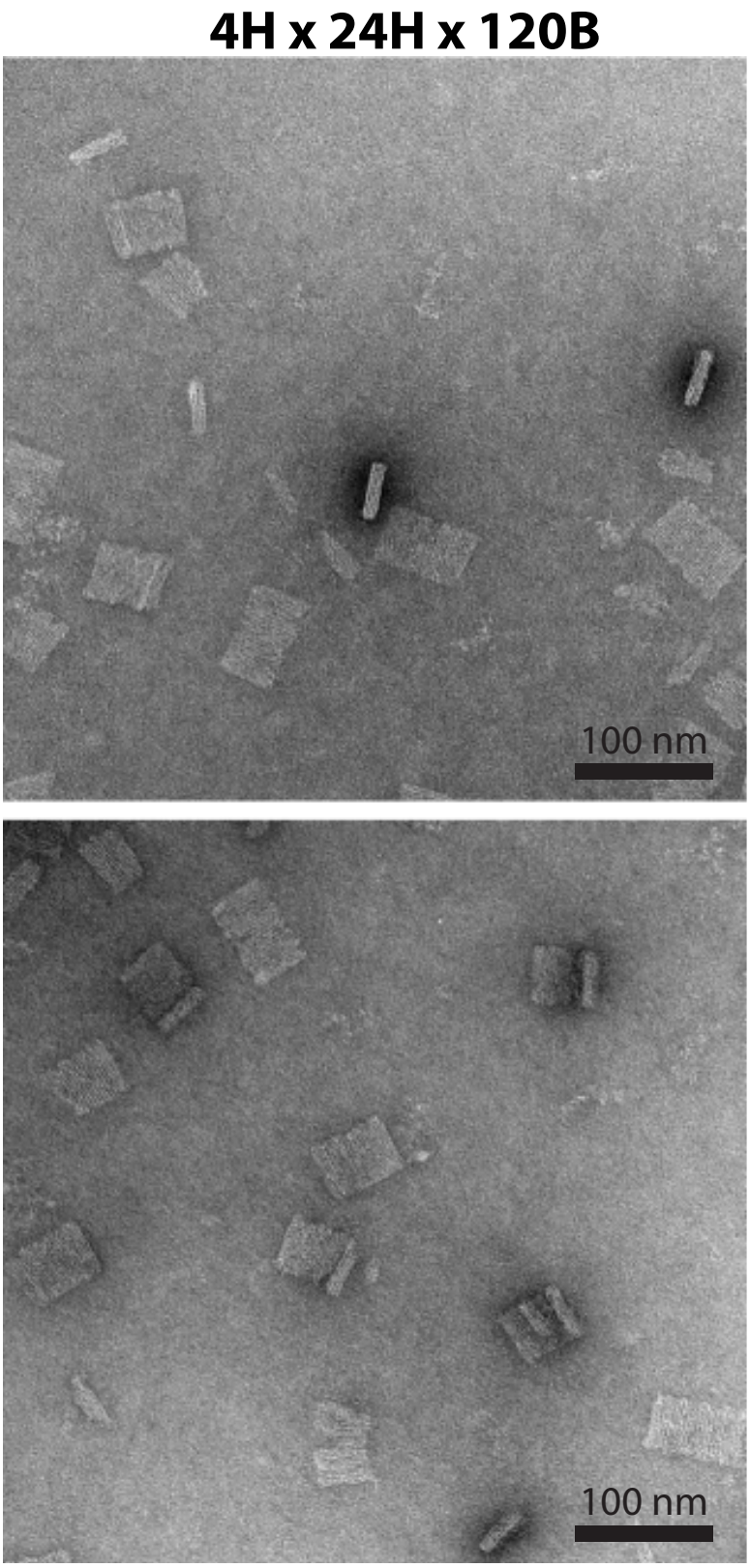


Fig. S26. TEM images of the 4H × 24H × 120B cuboid.

S5.8 A 12H × 12H cuboid

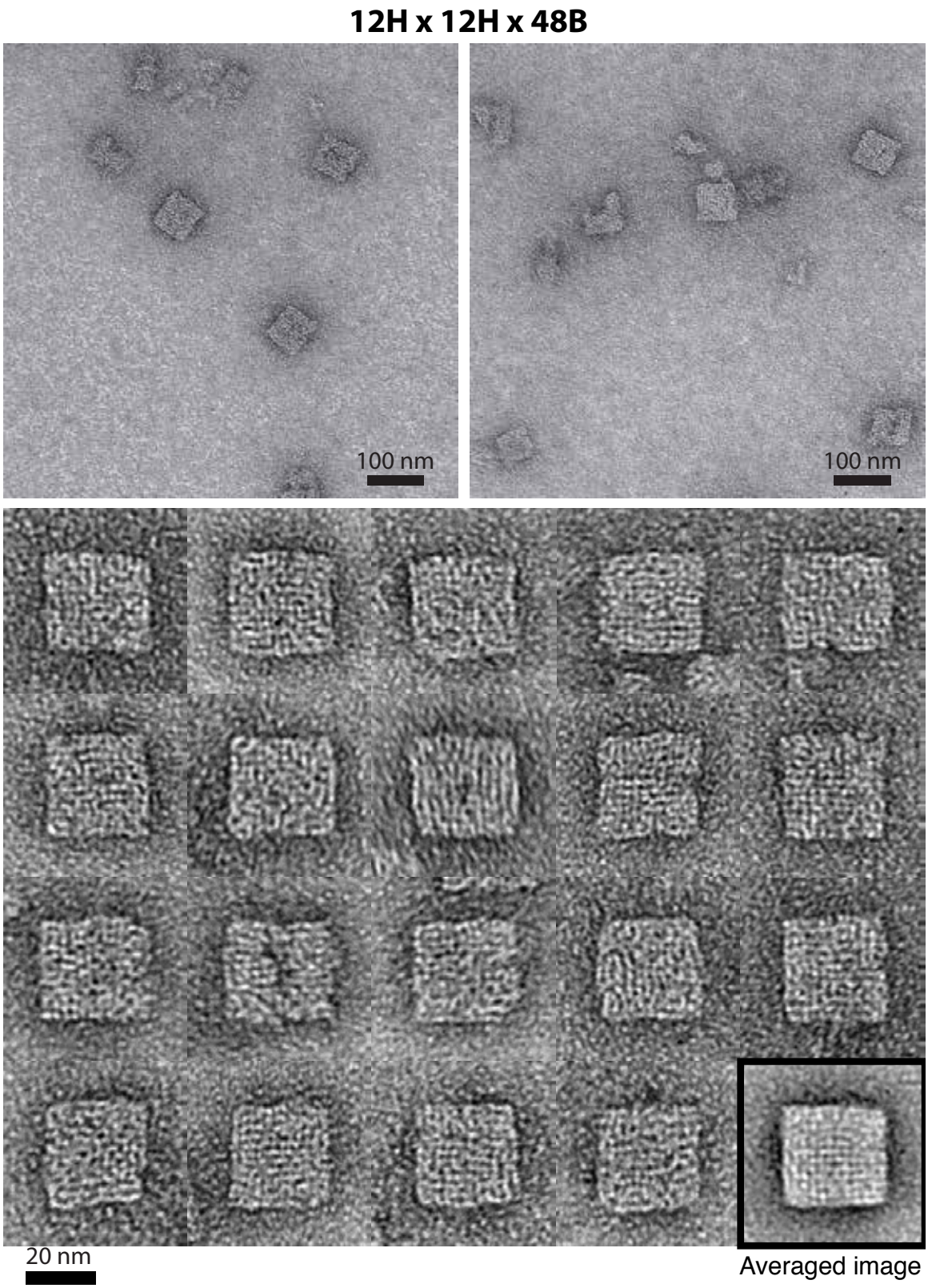


Fig. S27. TEM images of the 12H × 12H × 48B cuboid. The bottom right zoomed-in image is an averaged image made from the other 19 individual zoomed-in images.

S5.9 Statistics of 3H × 3H, 4H × 4H, 6H × 6H, 6H × 10H, 8H × 12H, 4H × 24H, and 12H × 12H cuboids

Nanostructure	3H x 3H x 64B	3H x 3H x 128B	3H x 3H x 256B	3H x 3H x 512B	3H x 3H x 1024B
Number of strands	33	57	105	201	393
Number of nucleotides	1296	2448	4752	9360	18576
Measured X or Y dimension (nm)	9±0.3	9±0.2	8±0.2	8±0.3	8±0.4
Measured Z dimension (nm)	24±0.4	45±0.8	86±1.2	170±2	240±10
Agarose gel yield	80%	52%	32%	7.30%	4.10%

Nanostructure	4H x 4H x 64B	4H x 4H x 128B	4H x 4H x 256B	4H x 4H x 512B
Number of strands	62	110	206	398
Number of nucleotides	2304	4352	8448	16640
Measured X or Y dimension (nm)	11±0.4	10±0.4	11±0.5	9±0.3
Measured Z dimension (nm)	22±0.3	46±0.6	84±1.1	170±3
Agarose gel yield	37%	26%	9.30%	3.90%

Nanostructure	6H x 6H x 64B	6H x 6H x 128B	6H x 6H x 256B	12H x 12H x 48B
Number of strands	147	267	507	486
Number of nucleotides	5184	9792	19008	16128
Measured X or Y dimension (nm)	15±0.7	16±0.6	15±0.6	31±1.2
Measured Z dimension (nm)	22±0.4	43±0.8	86±1.0	16±0.2
Agarose gel yield	30%	22%	4.80%	N/A

Nanostructure	6H x 10H x 64B	6H x 10H x 128B	8H x 12H x 64B	8H x 12H x 120B	4H x 24H x 120B
Number of strands	251	459	408	728	710
Number of nucleotides	8640	16320	13824	24576	24576
Measured X dimension (nm)	16±0.5	15±0.6	22±0.8	21±0.7	11±0.3
Measured Y dimension (nm)	24±1.2	26±1.0	29±1.3	30±1.4	57±2.6
Measured Z dimension (nm)	22±0.3	44±0.7	22±0.3	41±0.6	41±0.6
Agarose gel yield	33%	6.1%	5.7%	N/A	N/A

Fig. S28. Statistics of 3H × 3H, 4H × 4H, 6H × 6H, 6H × 10H, 8H × 12H, 4H × 24H, 12H × 12H cuboids in Fig. 2. The number of strands used, the number of nucleotides, the measured dimensions, and the gel yields are listed for each structure.

Dimensions of intact particles were measured. For low yield samples (3H × 3H × 1024B cuboid, 8H × 12H × 120B cuboid, 4H × 24H × 120B cuboid, and 12H × 12H × 48B cuboid), analysis was done on only 10 to 20 particles. For all other samples, the measurement was performed over 50 particles.

S5.10 Assembling a 4H × 4H × 128B cuboid at different concentrations

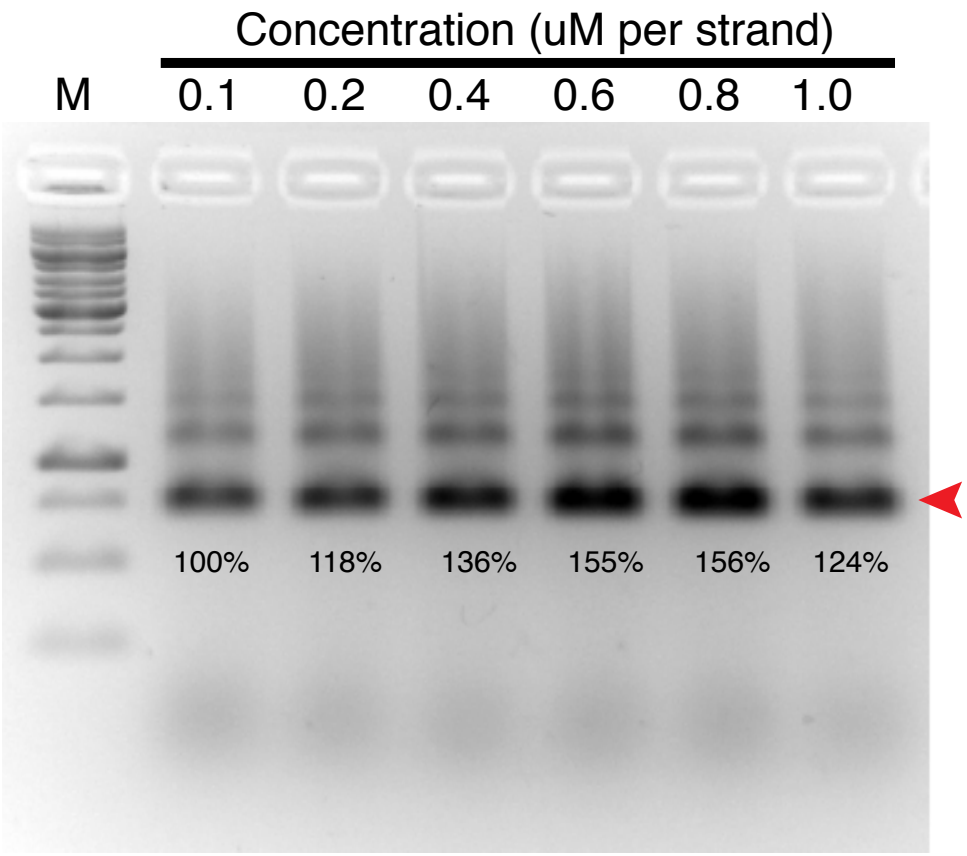


Fig. S29. Agarose gel electrophoresis of 4H × 4H × 128B annealed at 0.1, 0.2, 0.4, 0.6, 0.8, and 1.0 μM (per strand) concentrations. Structures were self-assembled in 0.5× TE buffer with 40 mM $MgCl_2$ using a 24-hour annealing ramp. 1 pmol (per strand) of sample was loaded into each lane. Lane M shows 1kb ladder. The 0.1 μM sample was used as a standard to measure the yield of annealing products (red arrow).

In fig. S14, we tested two concentrations (100 nM and 200 nM) for the assembly of the 6H × 10H × 128B cuboid and observed higher yield at 200 nM. In this section, we studied whether the yield of DNA-brick structures can be further improved with even higher concentration (e.g. 1 μM) of strands.

However, as such high concentration for large structures (e.g the 6H × 10H × 128 cuboid) is practically challenging (cloudy precipitates at high concentrations were observed during annealing), a small object (4H × 4H × 128B cuboid) was used for the test. As shown in the figure above (also in fig. S14), in the 0.1 – 0.8 μM range, higher concentration resulted in higher yield, consistent with our model in discussion and hypothesis above. The yield dropped slightly at 1 μM concentration, presumably due to precipitation (a cloudy sample was observed at this concentration).

S5.11 Agarose gel electrophoresis and TEM images of 6H × 10H × 64B cuboid dimers

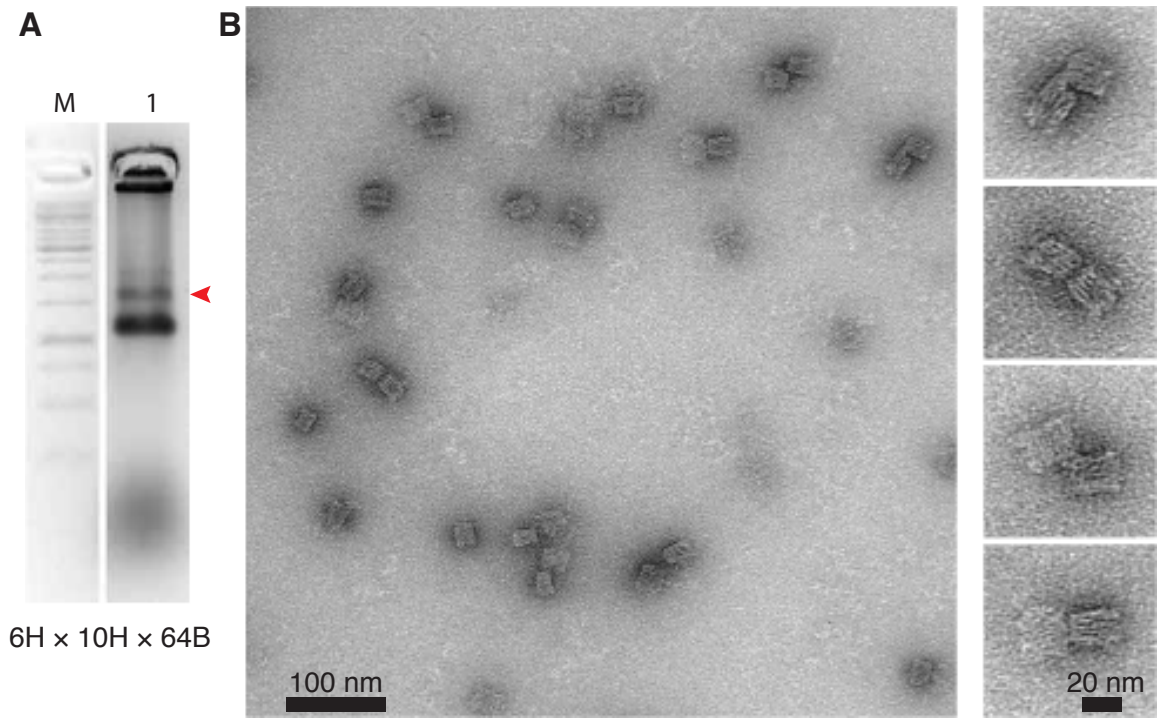


Fig. S30. Agarose gel electrophoresis and TEM images of 6H × 10H × 64B dimers. (**A**) Agarose gel electrophoresis of a 6H × 10H × 64B cuboid. The structure was assembled in 0.5 × TE buffer with 40 mM $MgCl_2$ using a 72-hour annealing ramp. The concentration of each strand was 200 nM. 10 μL of sample was loaded into each lane. Lane M shows 1kb ladder. The dimer band is denoted with the red arrow. (**B**) TEM images of purified 6H × 10H × 64B dimers.

Besides the major monomer product bands on agarose gels, weaker slow-migrating bands were also observed for some structures. We speculated that these bands corresponded to dimers, trimers, and other multimers that were caused by non-specific interactions. We annealed the 6H × 10H × 64B cuboid, purified and imaged the band directly above the monomer band. We observed mostly dimers in the images. In addition, we also saw a small amount of monomers that likely resulted from detached dimers.

S6 Custom shapes made from a 3D molecular canvas

S6.1 Design process

S6.1.1 A 10H × 10H × 80B (10 × 10 × 10 voxel) 3D canvas

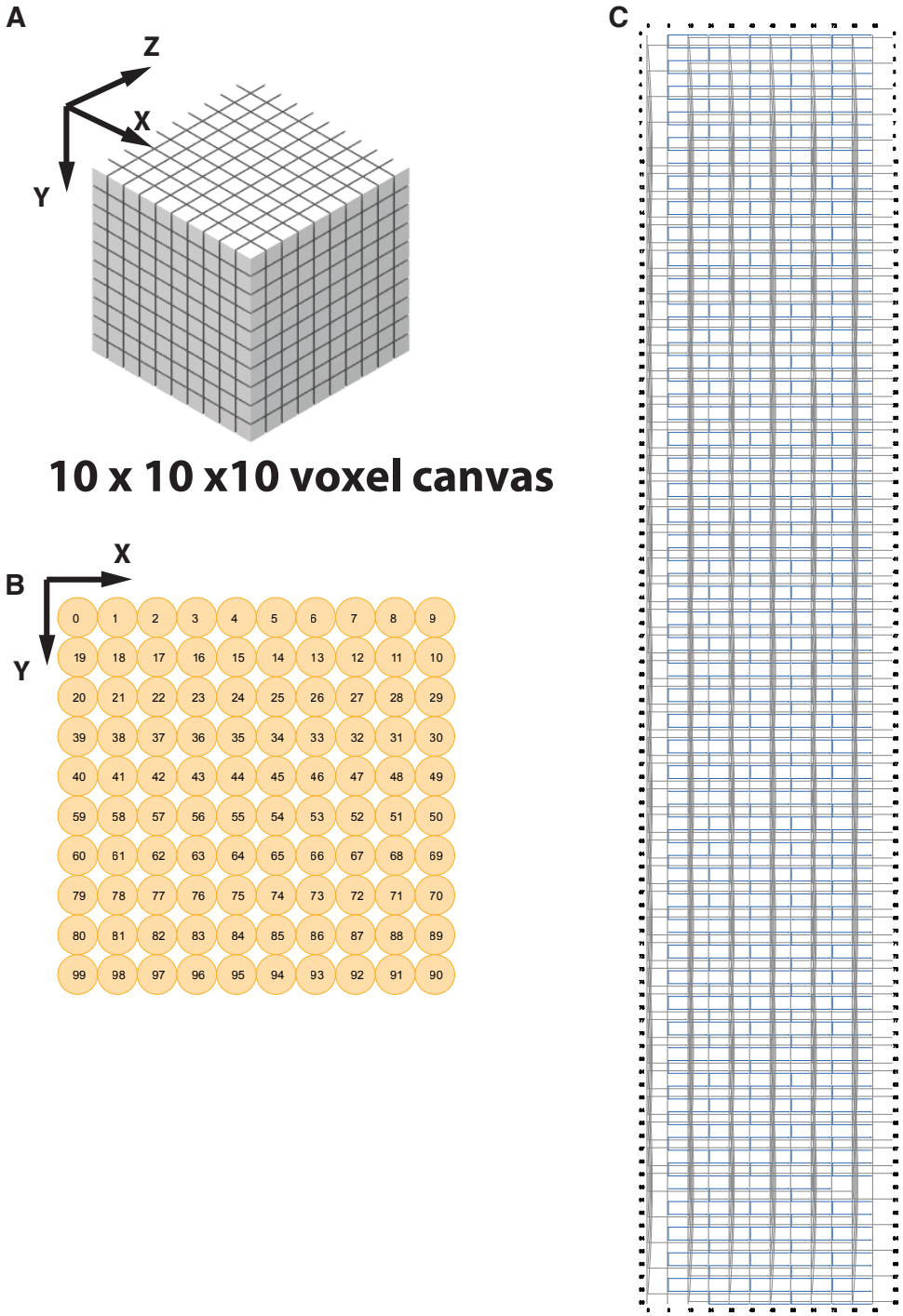


Fig. S31. A 10H × 10H × 80B (10 × 10 × 10 voxel) 3D canvas. (**A**) A 3D voxel model of 10H × 10H × 80B. (**B**) X–Y plane cross-section of the 10H × 10H × 80B cuboid. (**C**) Detailed strand diagram of the 10H × 10H × 80B cuboid. Zoom in to see details.

S6.1.2 DNA bricks and derivatives for making the 3D canvas

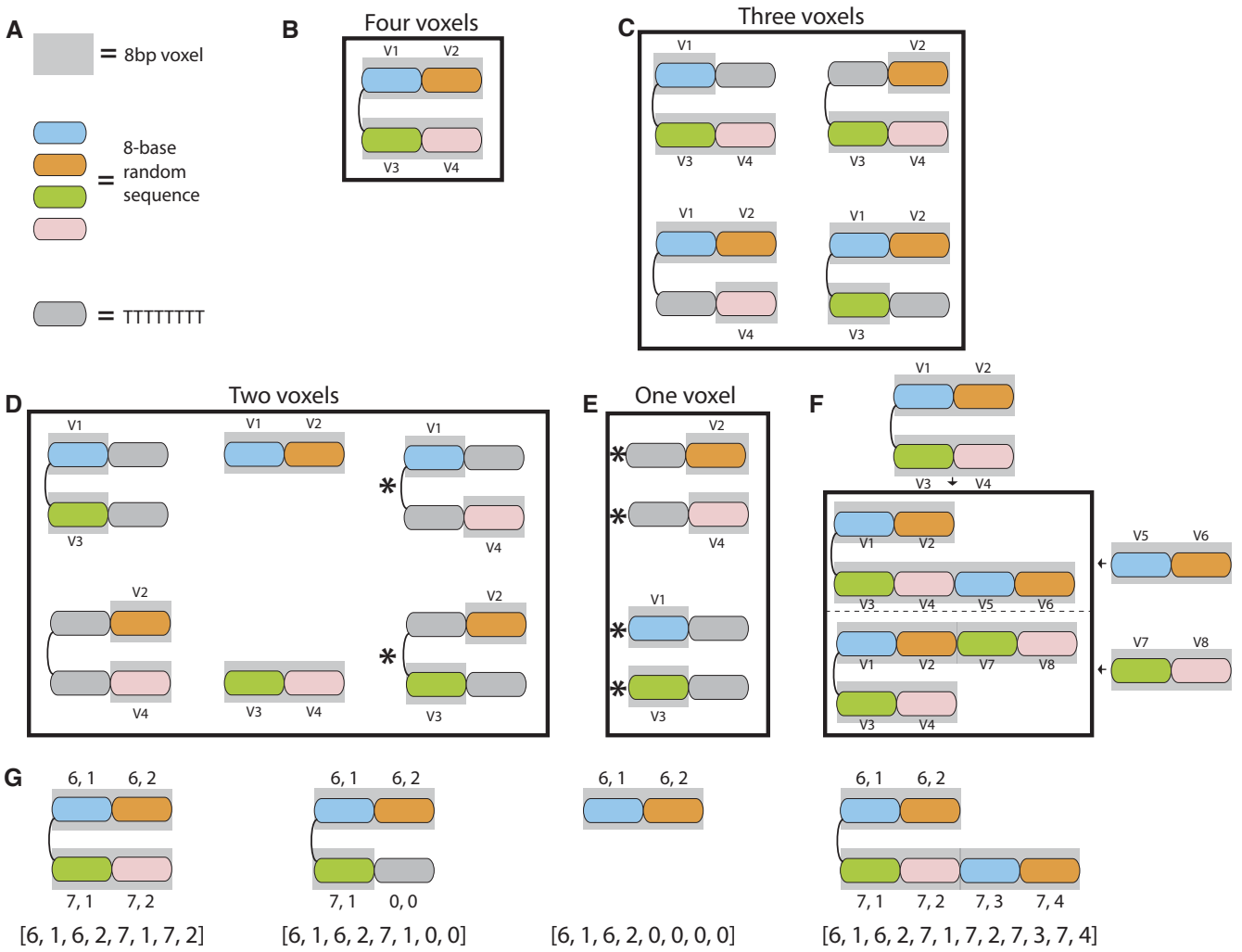


Fig. S32. DNA bricks and derivatives for making the 3D canvas. (**A**) Symbols used in this figure. (**B**) A typical 32nt brick with four 8nt random-sequence domains. Each 8nt domain is located within an 8bp voxel - V1, V2, V3, or V4. V1 and V2 are on the same helix. V3 and V4 are on another adjacent helix. (**C**) to (**F**) Other types of bricks derived from the strand with four 8nt random-sequence domains. (**C**) When one of the four 8bp voxel is removed, the 8nt domain corresponding to that 8bp voxel is changed to eight consecutive Ts. (**D**) When two of the four 8bp voxels are removed, the two 8nt domains corresponding to those 8bp voxels are either changed to eight consecutive Ts or deleted. The latter case happens if the two removed 8bp voxels are from the same helix. The symbol "*" indicates a derivative that was omitted in our experimental implementation. (**E**) When three of the four 8bp voxels are removed, the two 8nt domains that reside within the two removed voxels on the same helix are deleted. The other 8nt domain that resides within the third removed voxel is changed to eight consecutive Ts. (**F**) For each strand shown in **B**, two types of 48nt boundary strands are created. (**G**) Each strand is labeled by the positions of the voxels that it occupies. Each pair of numbers represent one voxel. The first number indicates the helix number as in caDNAno designs, and the second number indicates the voxel position in the helix (fig. S31). The numbers (0, 0) indicate either a domain with eight consecutive Ts or an empty domain.

Fig. S32 describes the four-domain bricks and their derivatives used for making the 3D canvas. Self-assembly of discrete DNA structures is often compromised by unwanted aggregation that occurs when a structure contains (1) unpaired single-stranded domains, or (2) unprotected blunt ends of DNA duplexes. Different types of strands shown in **C** to **E** are designed to avoid these two situations by changing the DNA sequence of any unpaired single-stranded domain to eight consecutive Ts. This strategy leads to fourteen total types of strand derivatives, to cover all possibilities when one, two, or three voxels are removed for a custom shape design. If all fifteen types of bricks (**B** to **E**) are included, any custom shape can be designed with 8bp (1 voxel) resolution.

Of the fourteen derivatives, only eight of them are actually implemented in our designs and experiments. The other six types of derivatives (labeled with **"*"** in **D** and **E**) are excluded. The two removed derivatives (where the two separate voxels are located diagonally) in **D** are expected to occur rarely for designed shapes. The four removed derivatives in **E** consist of only one 8nt random-sequence domain, and their incorporation in the DNA structures is expected to be relatively unstable. We have redesigned two shapes (shapes 45, 55) by incorporating more than one hundred "one voxel" derivatives for each shape. Neither modified shape

self-assembled successfully (no product bands detected on agarose gels; data not shown). Based on the above experiments, we choose not to include such one-domain binders in our canvas design. It is worth noting that as these 6 derivatives only occur at the end of a helix that is on the boundary of a shape, their exclusion is not expected to significantly affect the design space for the shapes.

We also included two types of 48nt "boundary bricks" (following the strategy in fig. S9) to improve the self-assembly yield of the shapes. All together, for each strand, a total of $(9 + 2)$ = 11 original and derivatives were created for our design.

Each strand is named by the positions of the voxels it occupies (fig. S32G). The voxel information of strands is used to select strands that form the shape using the program in fig. S33.

S6.1.3 Workflow of designing 3D shapes

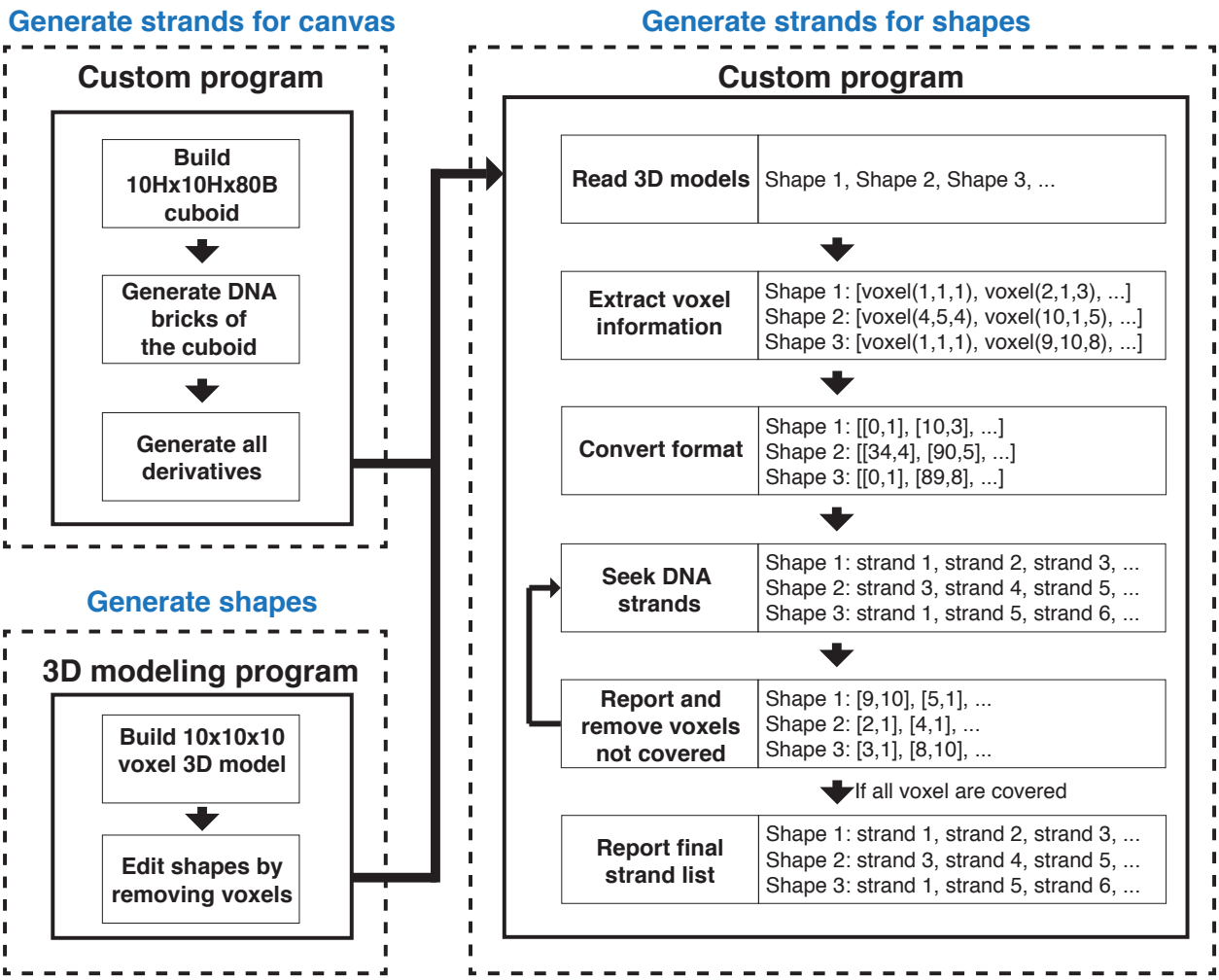


Fig. S33. Workflow of designing 3D shapes.

The shapes are designed with a combination of custom software and commercial 3D modeling software. The complete workflow of the design process (fig. S33) is described below:

Generate all DNA strands

(1) Build 3D canvas using a custom program. We used a $10 \times 10 \times 10$ voxel canvas in this paper (fig. S31).

(2) A custom program generates strands and their derivatives (fig. S32) for self-assembly of custom shapes that can be made from a $10 \times 10 \times 10$ voxel 3D canvas. All sequences and their corresponding voxel information are then stored in a single text file, ALL-strand.txt. A total of 4,455 strands (138,240nt) were generated for making custom shapes.

Build 3D model and edit shapes

(3) Build a 3D model containing all $10 \times 10 \times 10$ voxels using a commercial 3D modeling software (we used Strata^{TM} 3D, http://www.strata.com). Each voxel is represented by a small sphere (fig. S34A) and can be edited independently (fig. S34B). The small sphere voxels are easy to edit in comparison with the cube voxels used for the final illustration of shapes. The conversion between sphere-voxels and cube-voxels can be done by a custom program (or simply using the "search and replace" function of a text editing software). Commercial modeling software packages provide convenient tools to remove/add voxels and visualize the shapes from different angles.

(4) Design shapes by removing voxels from a $10 \times 10 \times 10$ voxel 3D canvas, as shown in fig. S34B. In this step, the shapes are designed with single voxel (8bp) resolution. Each shape is stored in a separate file with its voxel information.

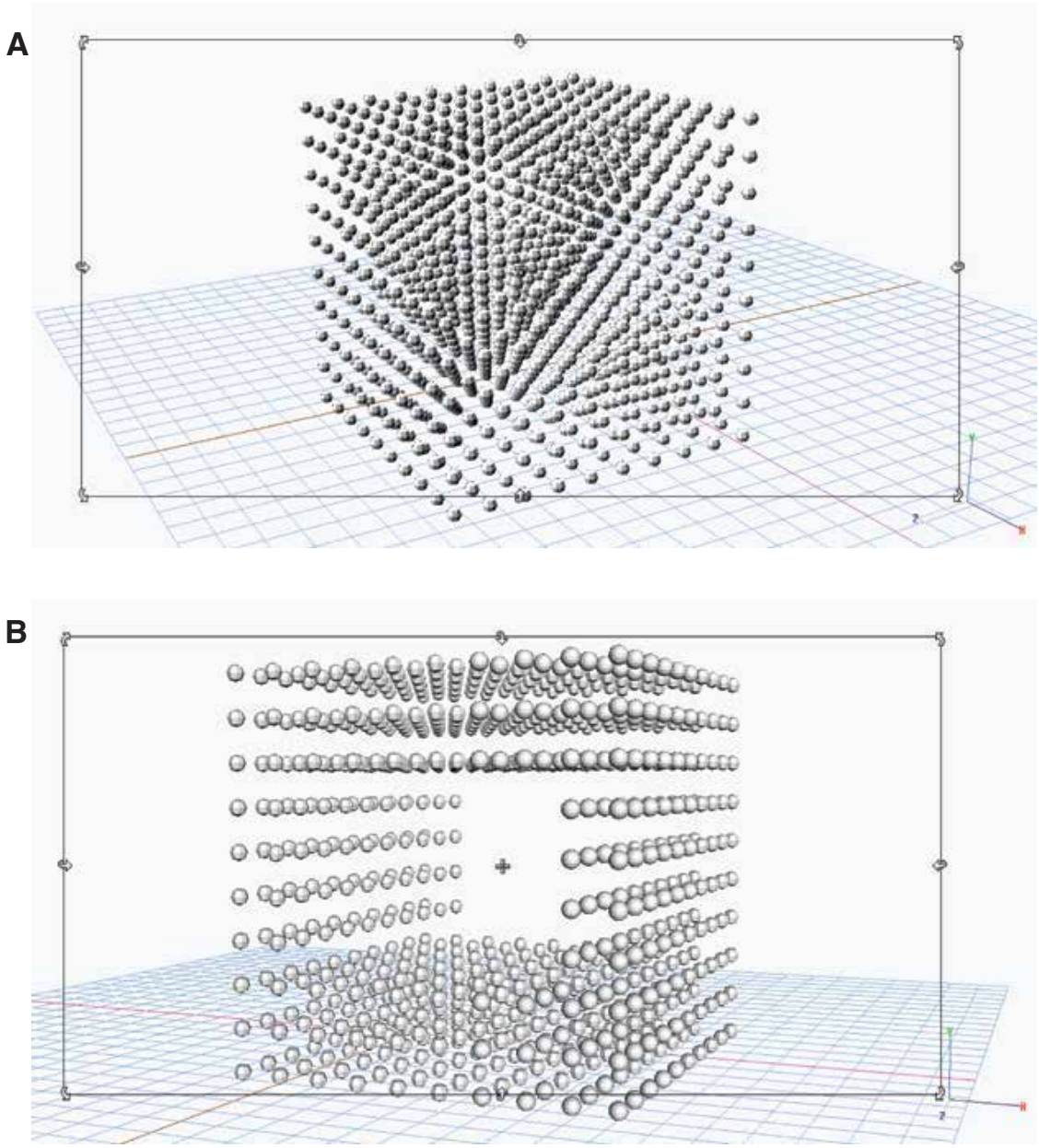


Fig. S34. 3D-shape-editing interface. (**A**) A $10 \times 10 \times 10$ voxel 3D canvas. Each sphere represents one voxel. (**B**) Shape editing is performed by removal of unwanted voxels.

Generate strands for each shape based on its voxel information

(5) Our custom program reads the voxel file. Based on the voxel information of the shape, the program searches the sequence file ALL-strand.txt and generates a list of strands for assembly of the designed shapes. The program first searches for only the 32nt and 16nt bricks to generate the shapes. Then the program determines whether any pairs of 32nt bricks and 16nt bricks can be merged to form a 48nt "boundary" brick (fig. S32F). If so, the program will substitute the 32nt brick and 16nt brick with a 48nt "boundary" brick.

(6) Because of our strand design described in section S6.1.2, some voxel may not be covered by our strands in ALL-strand.txt due to the six removed strand types. During this search process, the program will automatically remove the voxels that cannot be covered and rerun the brick-seeking process. As only a small number of voxels (at the end of helices on the boundary of a shape) will be removed from a shape, the deletions are expected to only cause marginal change to the overall appearance of the designed shapes.

(7) The program finishes searching strands and generates a list of strands for assembling the designed shapes.

S6.1.4 Visualizing shapes in caDNAno and CanDo

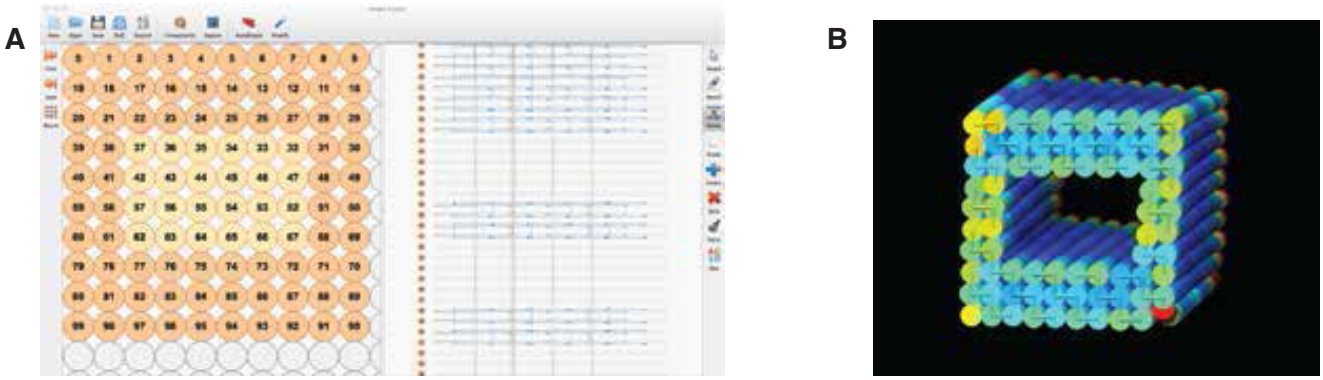


Fig. S35. (**A**) A caDNAno file corresponding to the shape in fig. S34B. The conversion from the 3D depiction to the caDNAno format was done by using a custom program. (**B**) The caDNAno file can be used to simulate the expected conformation of a shape in CanDo.

To utilize programs developed previously, our program can also generate caDNAno files corresponding to the desiged shapes (fig. S35A). These files can then be opened in caDNAno for further editing or illustration purposes. The computer program CanDo (cando-dna-origami.org), which was developed for simulating DNA origami shapes, can also be used to compute the expected 3D conformation of our DNA brick structures (fig. S35B).

S6.2 Agarose gels and TEM images of shapes

S6.2.1 Agarose gel electrophoresis of shapes 1–17

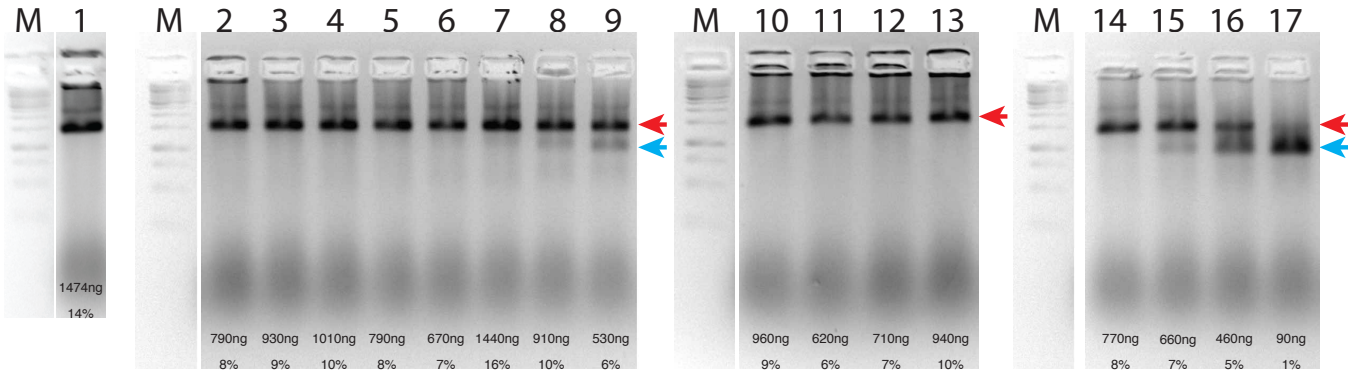


Fig. S36. Agarose gel electrophoresis of shapes 1–17 (Fig. 3E). Lane M shows 1kb ladder. Lanes 1–17 show shapes 1–17, respectively. The red arrows point to slow migrating bands that correspond to complete shapes. The blue arrows point to faster migrating bands that correspond to putative broken shapes. Yield of each intact shape (red arrow) is labeled under each lane.

Shapes 1–17 were designed to explore basic rules of designing shapes from a 3D canvas. Shape 1 is a cuboid that contains all 10 × 10 × 10 voxels. Shapes 2–9 are two 4H × 10H × 80B blocks connected by a 2H × 9H × 80B, a 2H × 8H × 80B, a 2H × 7H × 80B, a 2H × 6H × 80B, a 2H × 5H × 80B, a 2H × 4H × 80B, a 2H × 3H × 80B, or a 2H × 2H × 80B block. Shapes 10–17 are two 4H × 10H × 80B blocks respectively connected by a 2H × 10H × 72B, a 2H × 10H × 64B, a 2H × 10H × 56B, a 2H × 10H × 48B, a 2H × 10H × 40B, a 2H × 10H × 32B, a 2H × 10H × 24B, or a 2H × 10H × 16B block, respectively.

Agarose gel electrophoresis revealed that, in both systems, as the connector became overly thin, the gel yields for the intact structures decreased and partial structures (putative unconnected 4H × 10H × 80B blocks) became more prominent (e.g. in lanes for shapes 8, 9, 15-17 in fig. S36). However, reducing the number of voxels in the Z-axis appeared to decrease the yield more significantly than in the Y-axis. Shape 9, which contained only a 2-voxel connection along the Y-axis, gave 6% gel yield. In contrast, the yield for shape 17 (2-voxel in Z-axis) dropped to 1%. It is worth noting that TEM still detected some intact structures for shape 17. It is conceivable that a fraction of complete structures may fall apart during agarose gel electrophoresis.

S6.2.2 Agarose gel electrophoresis of shapes 18–100

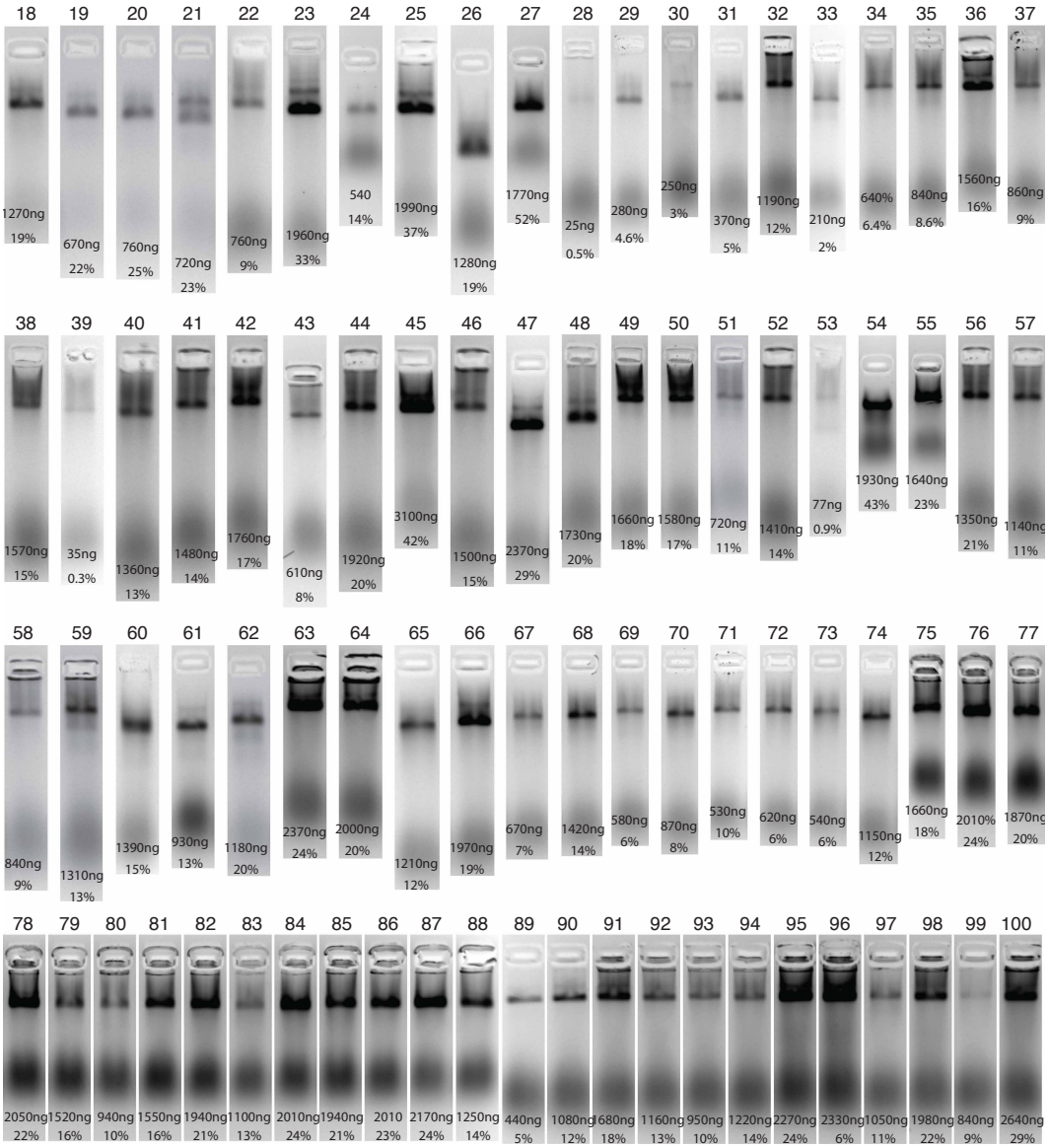


Fig. S37. Agarose gel electrophoresis of shapes 18–100. Both the mass yield and the percentage yield of each shape are shown under each lane.

Yields are estimated using the method described in fig. S15. Most shapes have yields between a few percent and 30%.

S6.2.3 TEM images of shapes 1–9

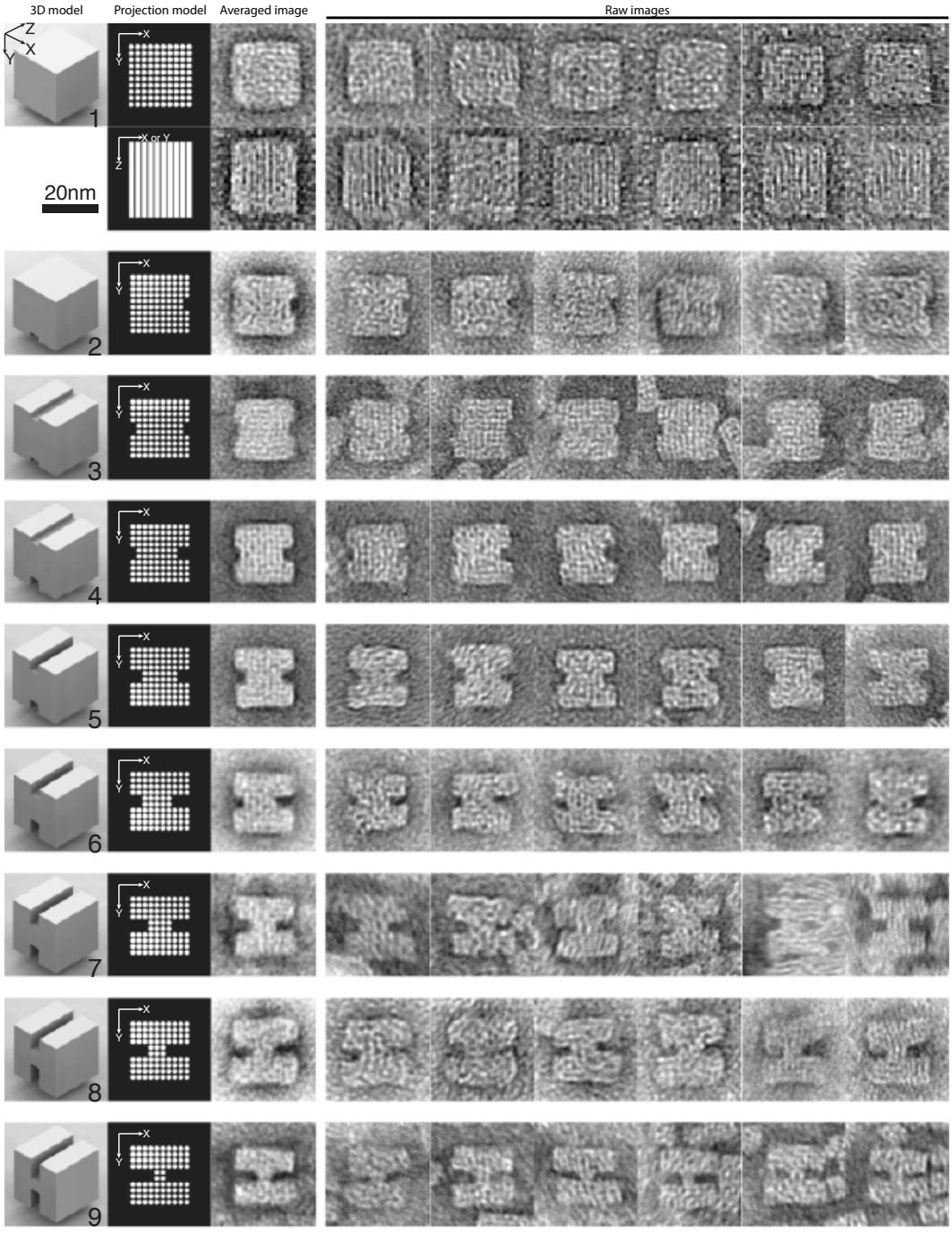


Fig. S38. TEM images of shapes 1–9. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

In the projection model column, views along the helical axis depict each individual helix as a dot, while views perpendicular to the helical axis show the helical bundles as lines. The brightness of a dot is proportional to the length of a helix. The brightness of a line is proportional to the number of corresponding helix(es) that contributes to its projection.

S6.2.4 TEM images of shapes 10–17

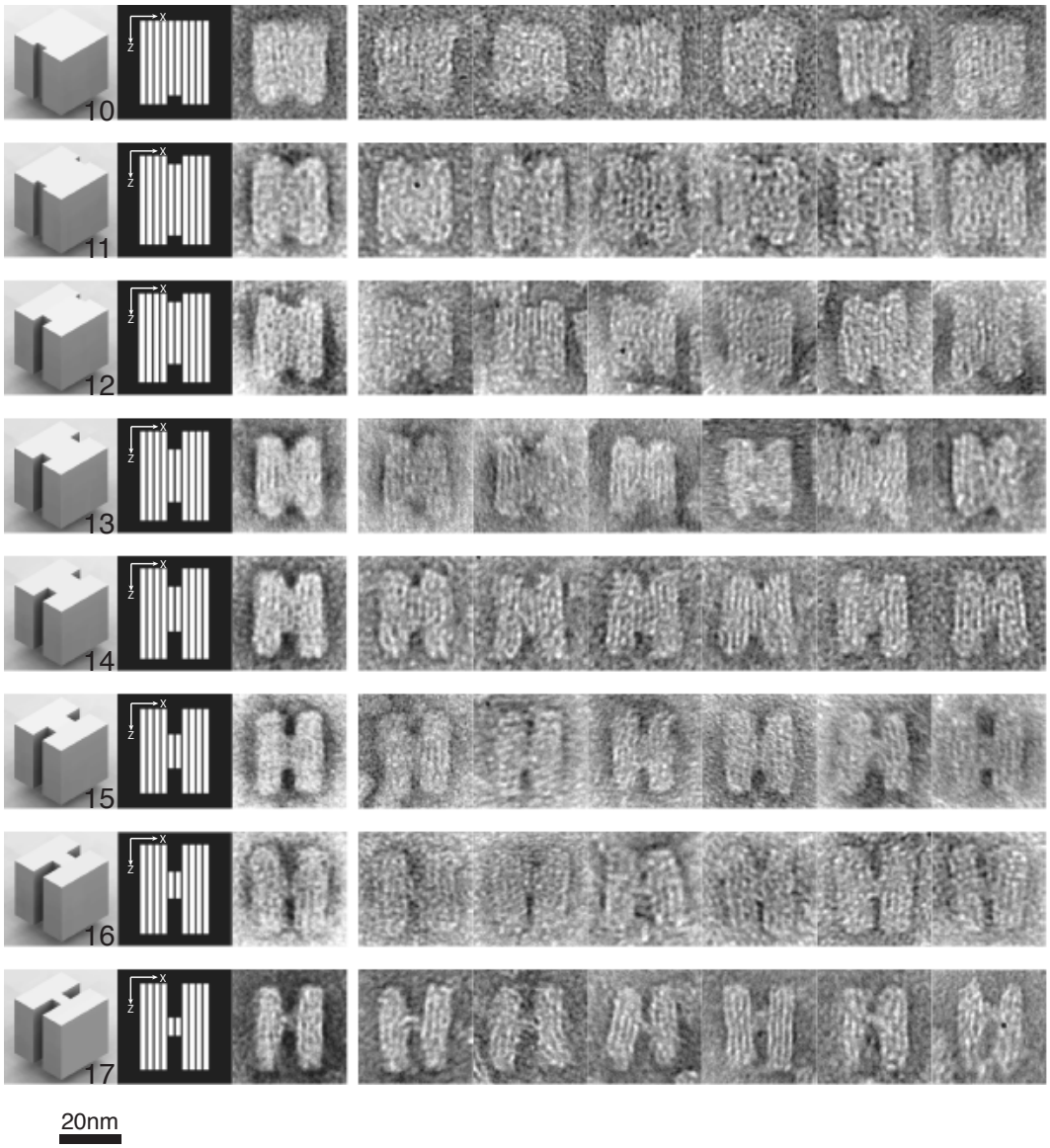


Fig. S39. TEM images of shapes 10–17. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.5 TEM images of shapes 18–23

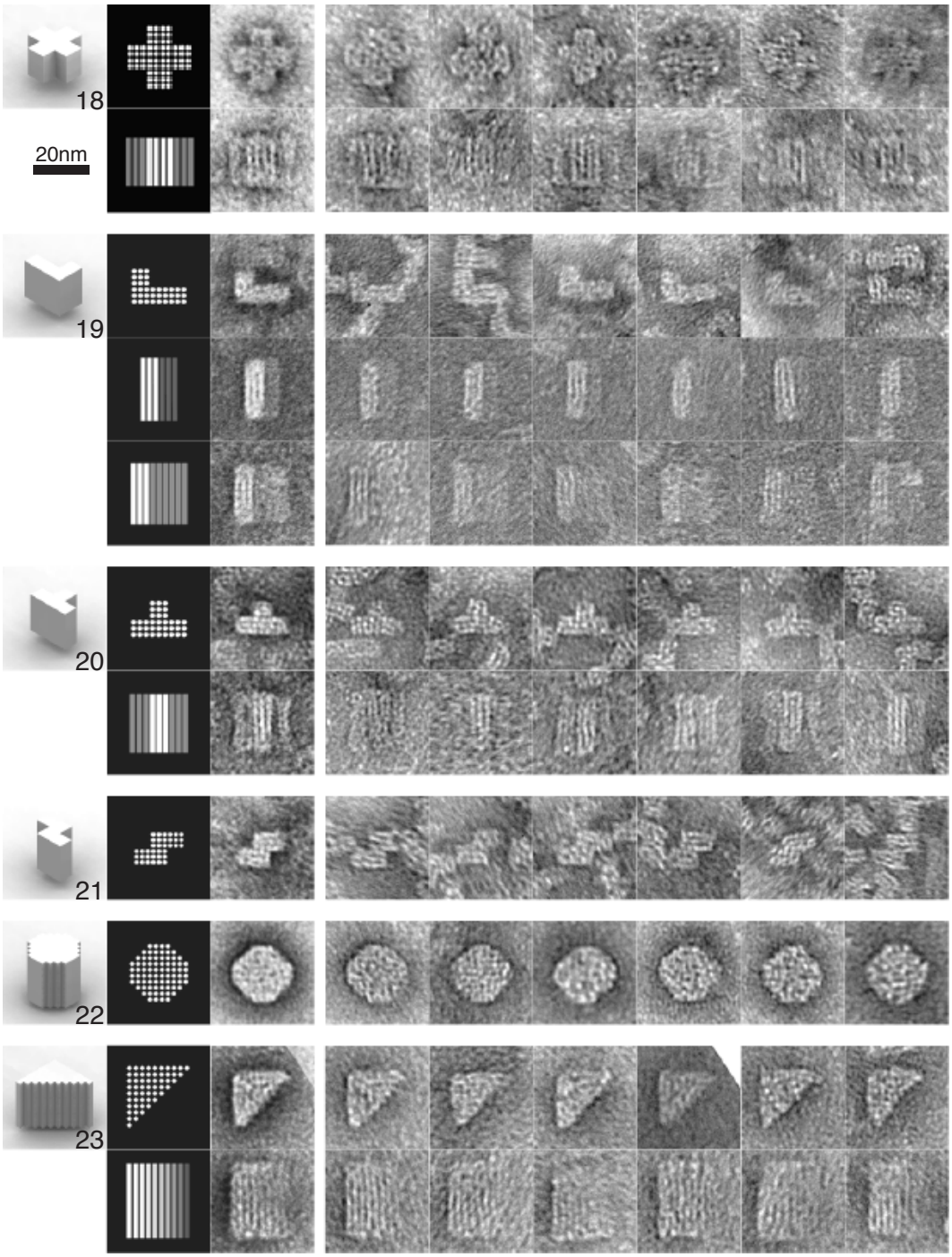


Fig. S40. TEM images of shapes 18–23. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.6 TEM images of shapes 24–30

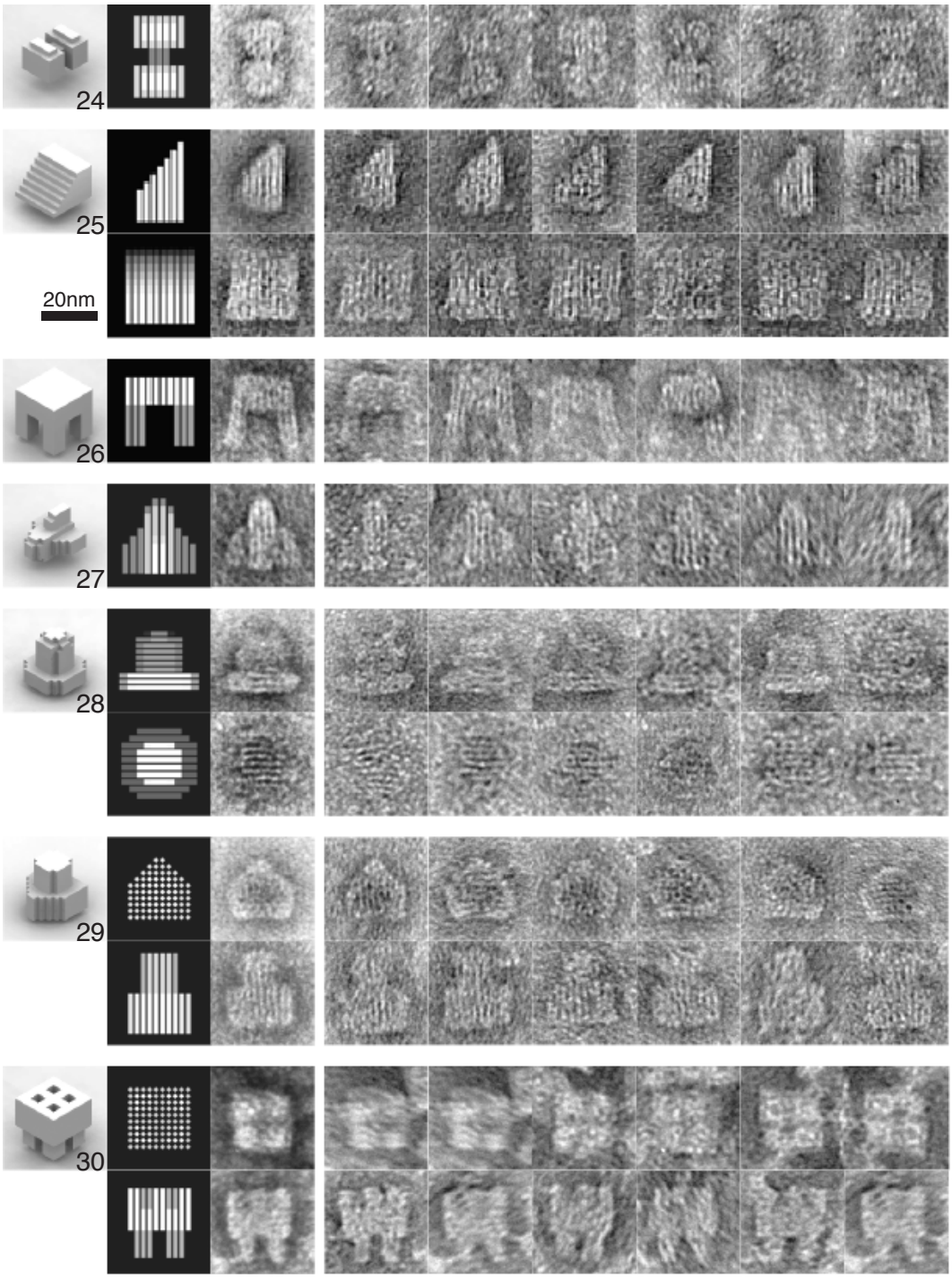


Fig. S41. TEM images of shapes 24–30. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.7 TEM images of shapes 31–34

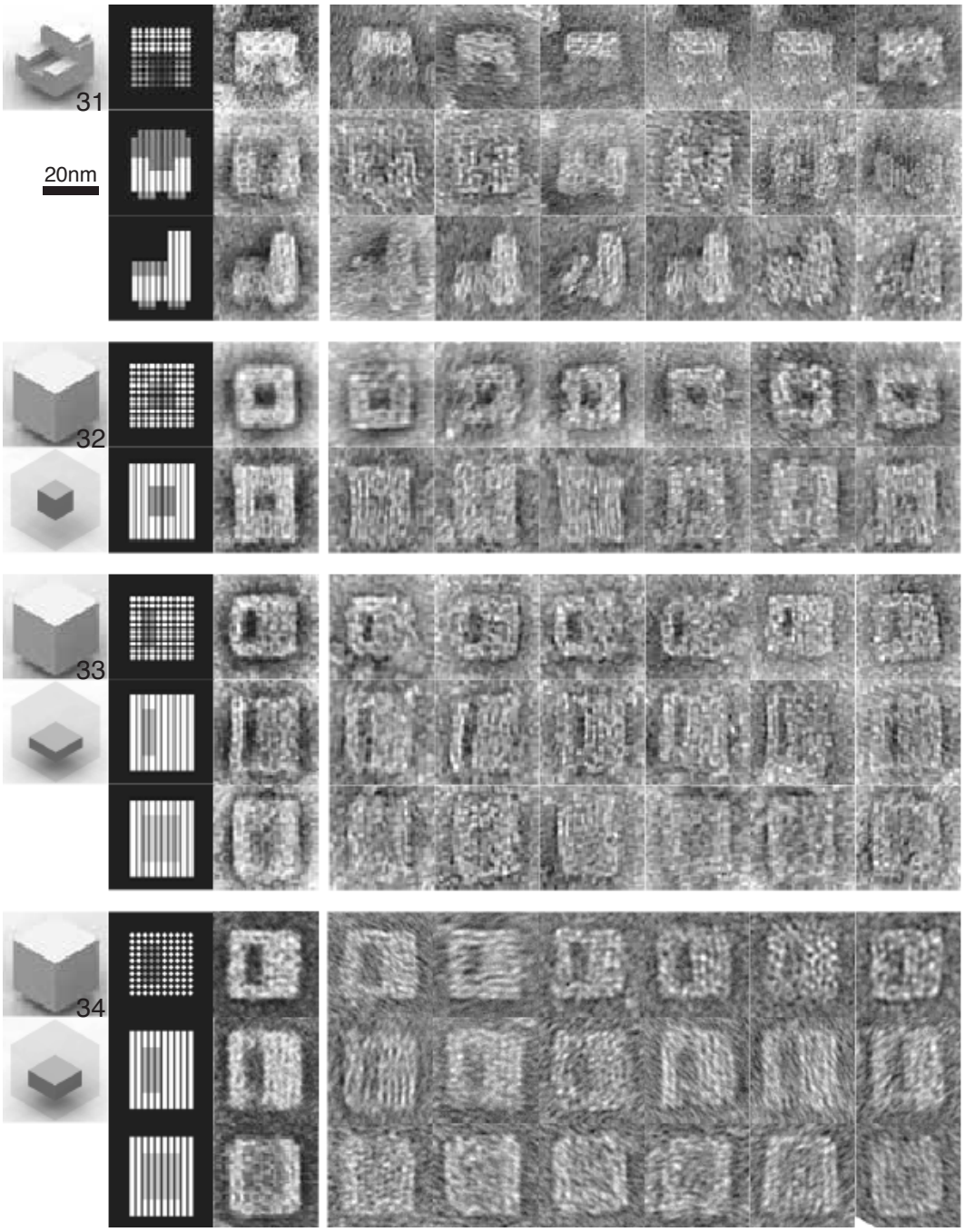


Fig. S42. TEM images of shapes 31–34. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.8 TEM images of shapes 35–38

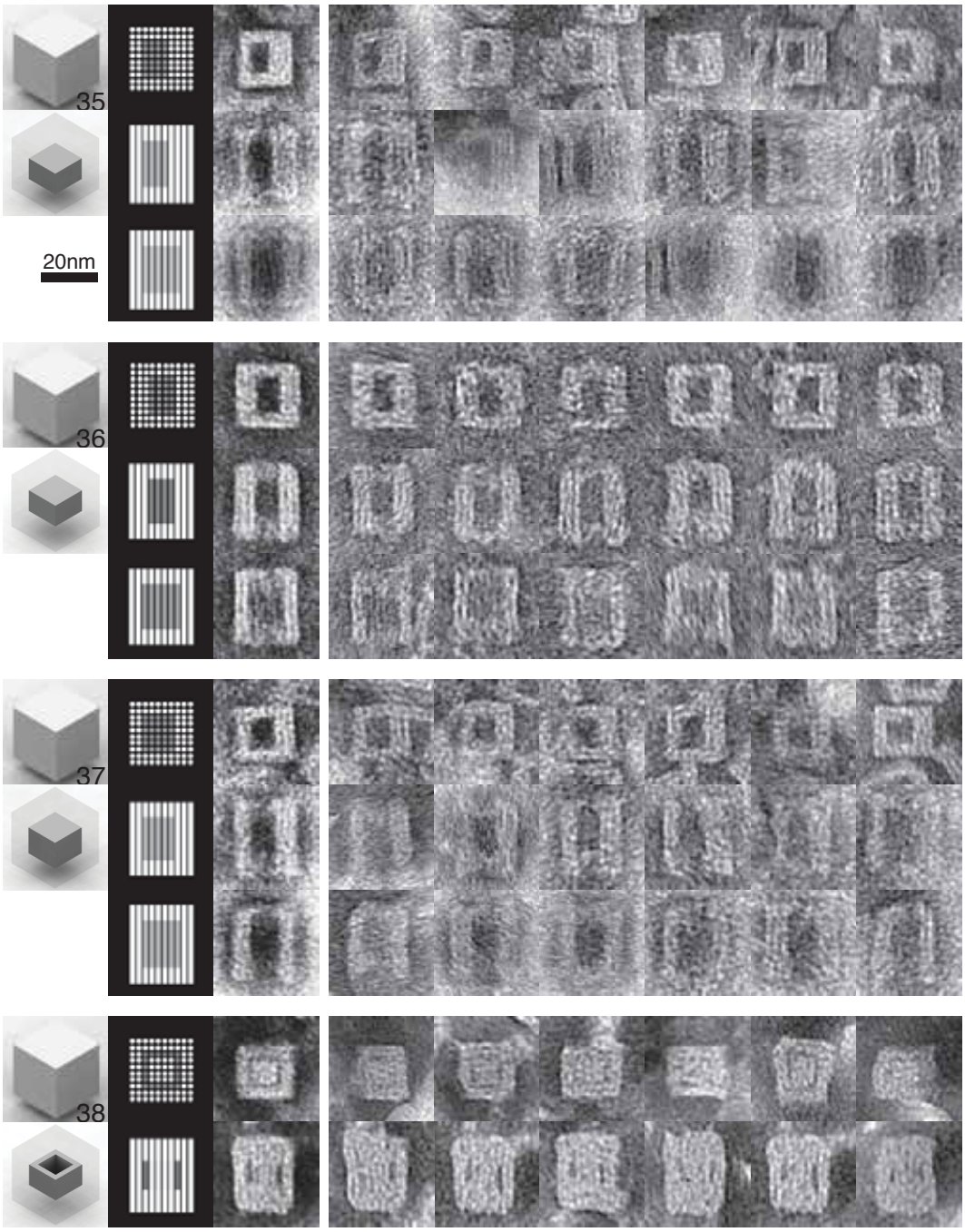


Fig. S43. TEM images of shapes 35–38. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.9 TEM images of shapes 39–43

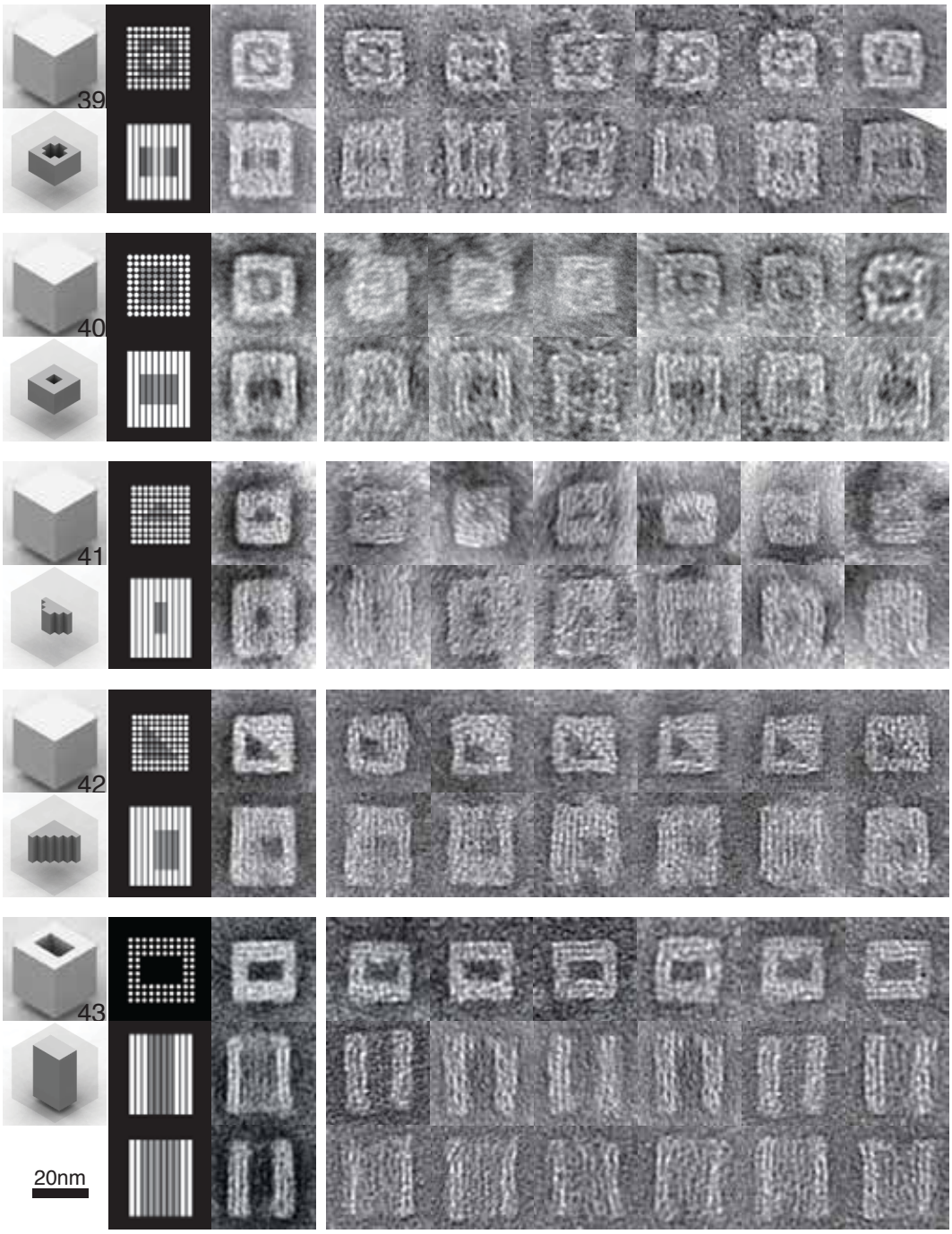


Fig. S44. TEM images of shapes 39–43. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.10 TEM images of shapes 44–48

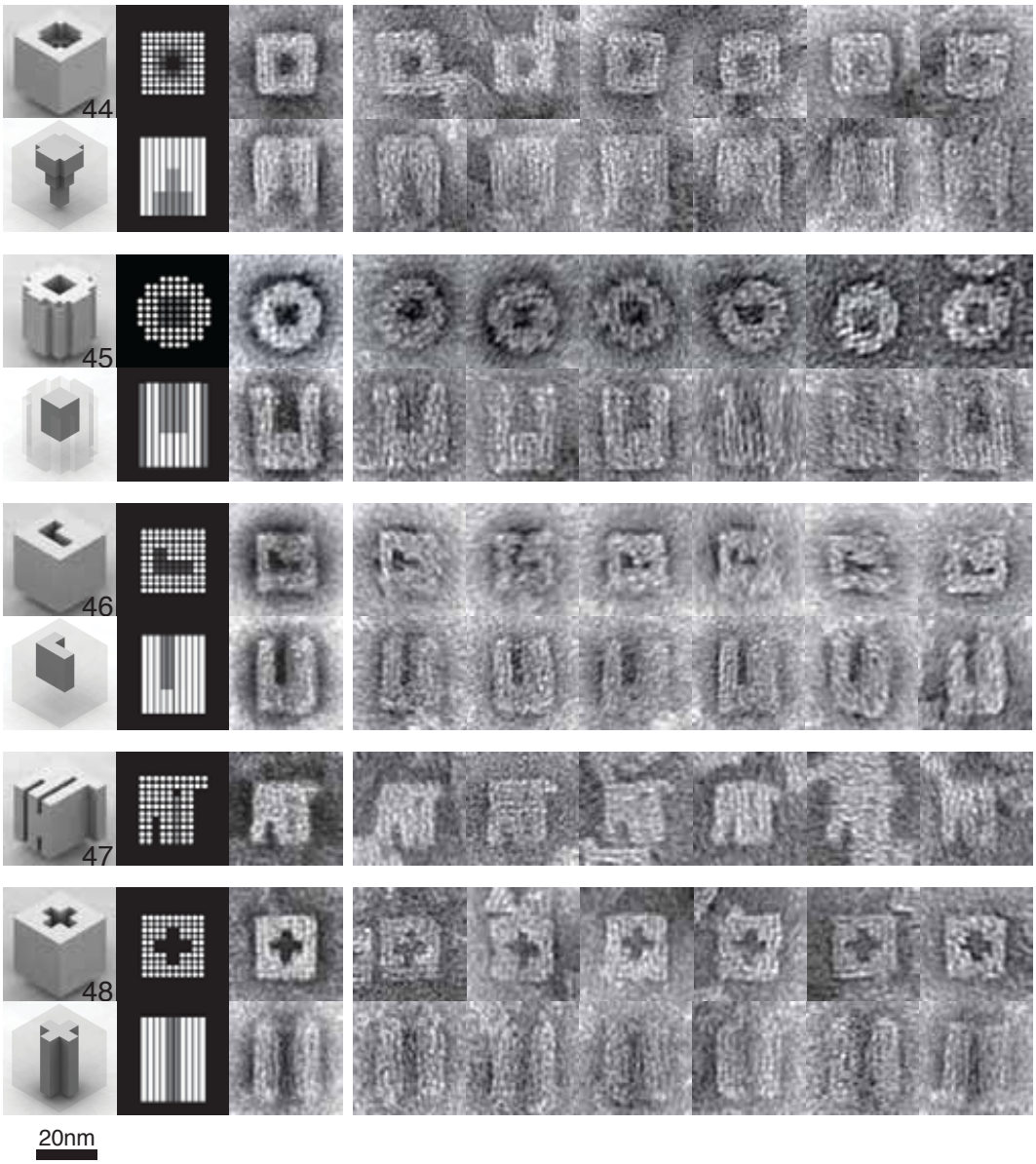


Fig. S45. TEM images of shapes 44–48. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.11 TEM images of shapes 49–53

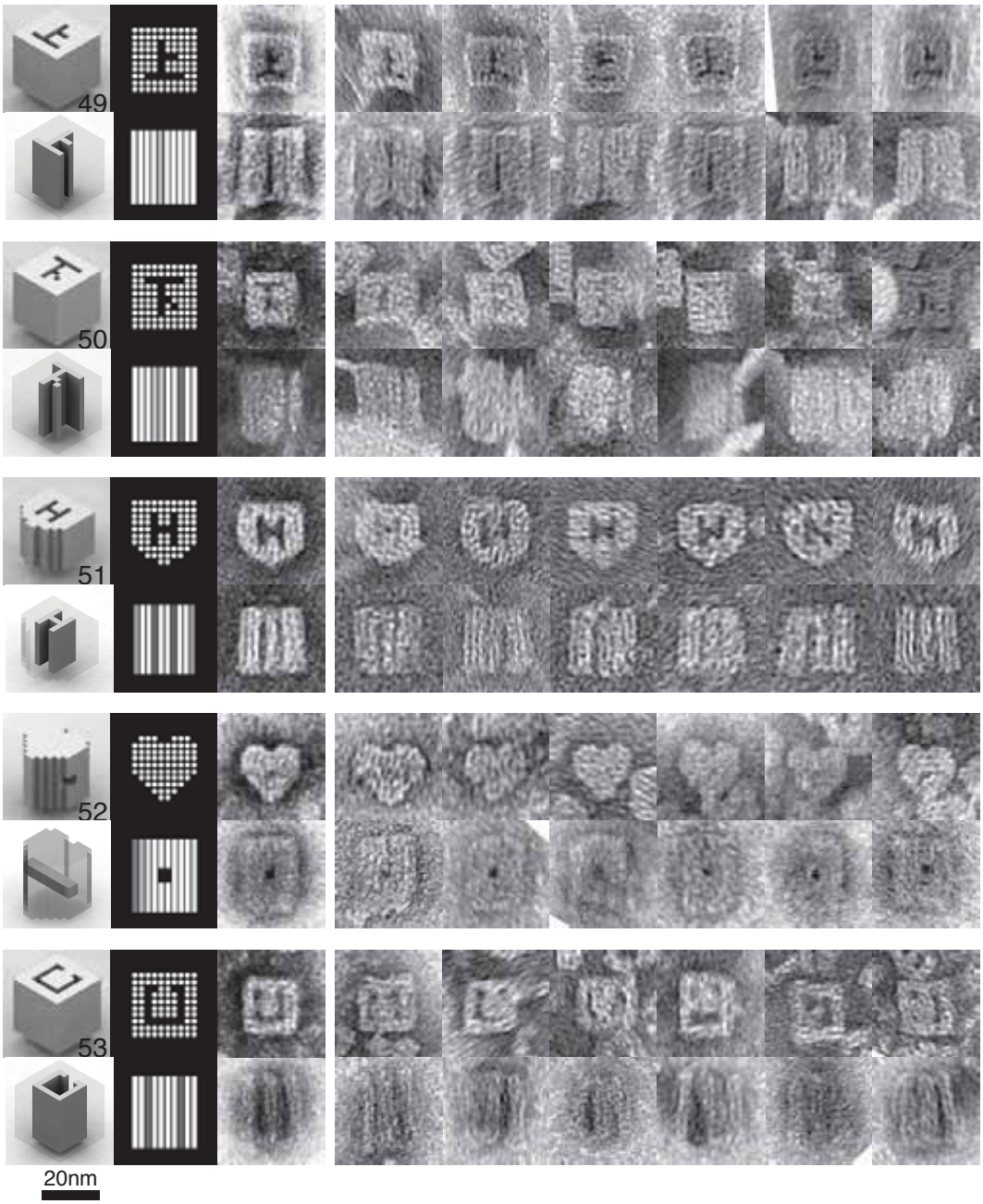


Fig. S46. TEM images of shapes 49–53. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.12 TEM images of shapes 54–58

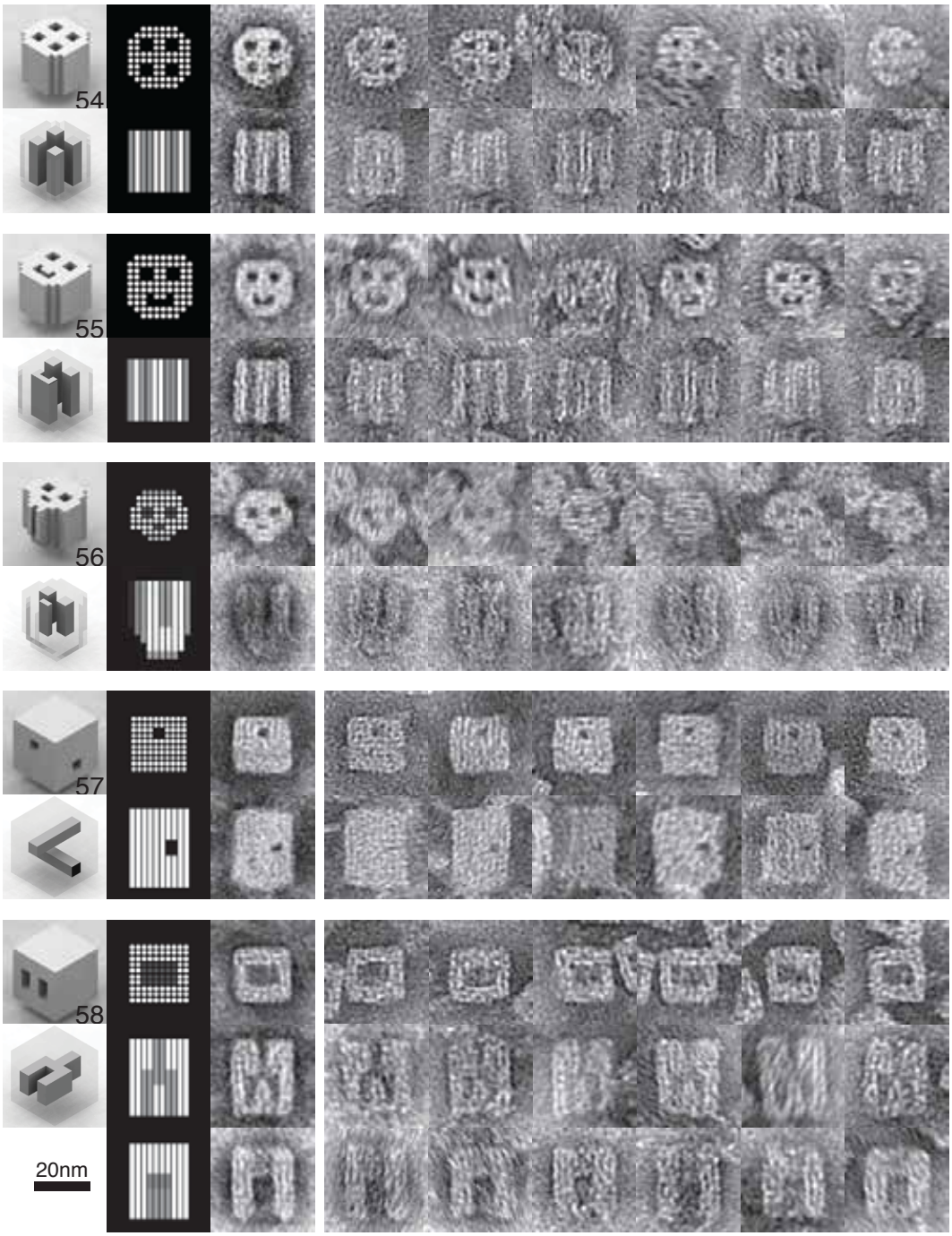


Fig. S47. TEM images of shapes 54–58. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.13 TEM images of shapes 59–62

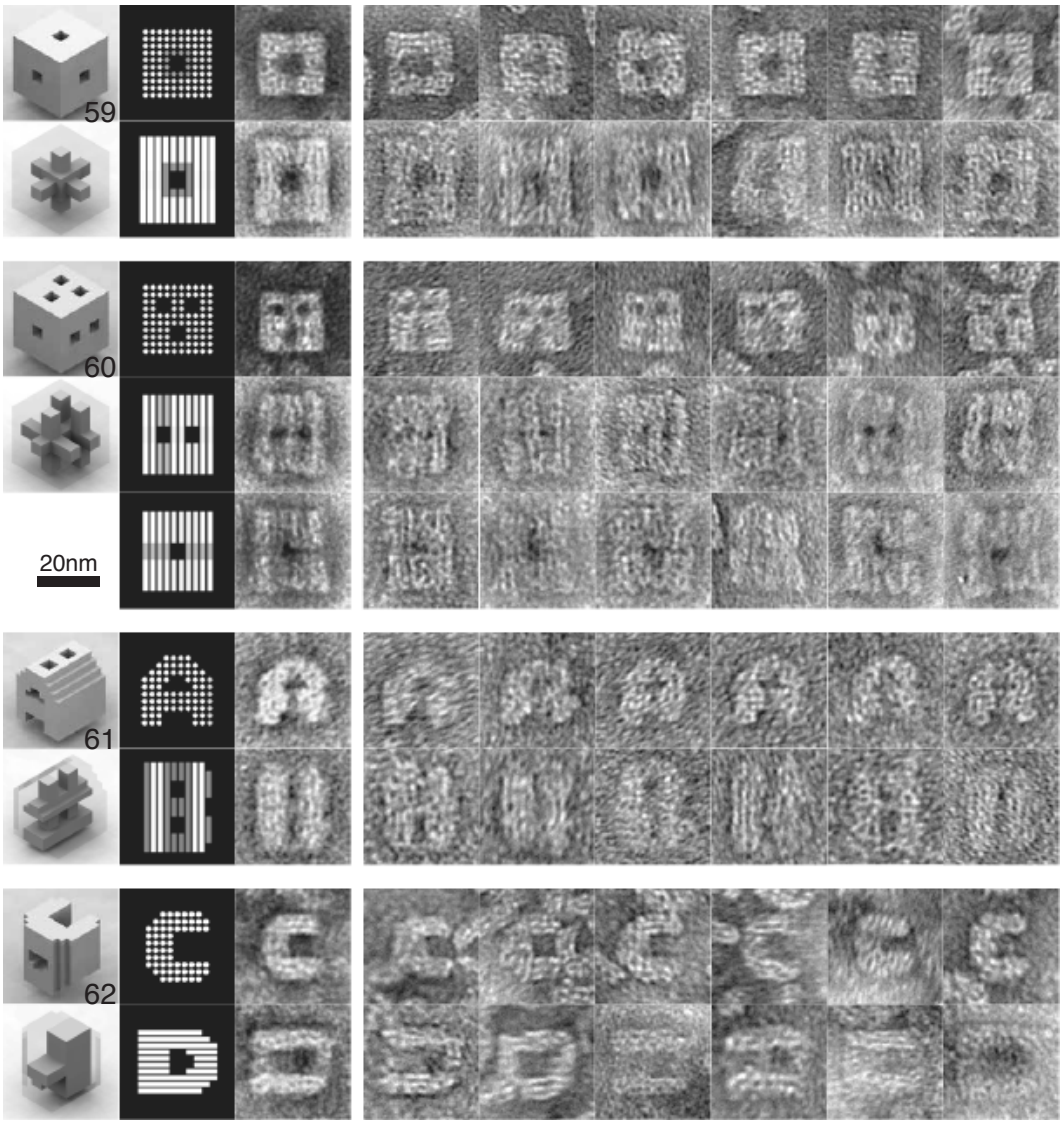


Fig. S48. TEM images of shapes 59–62. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.14 TEM images of shapes 63–69

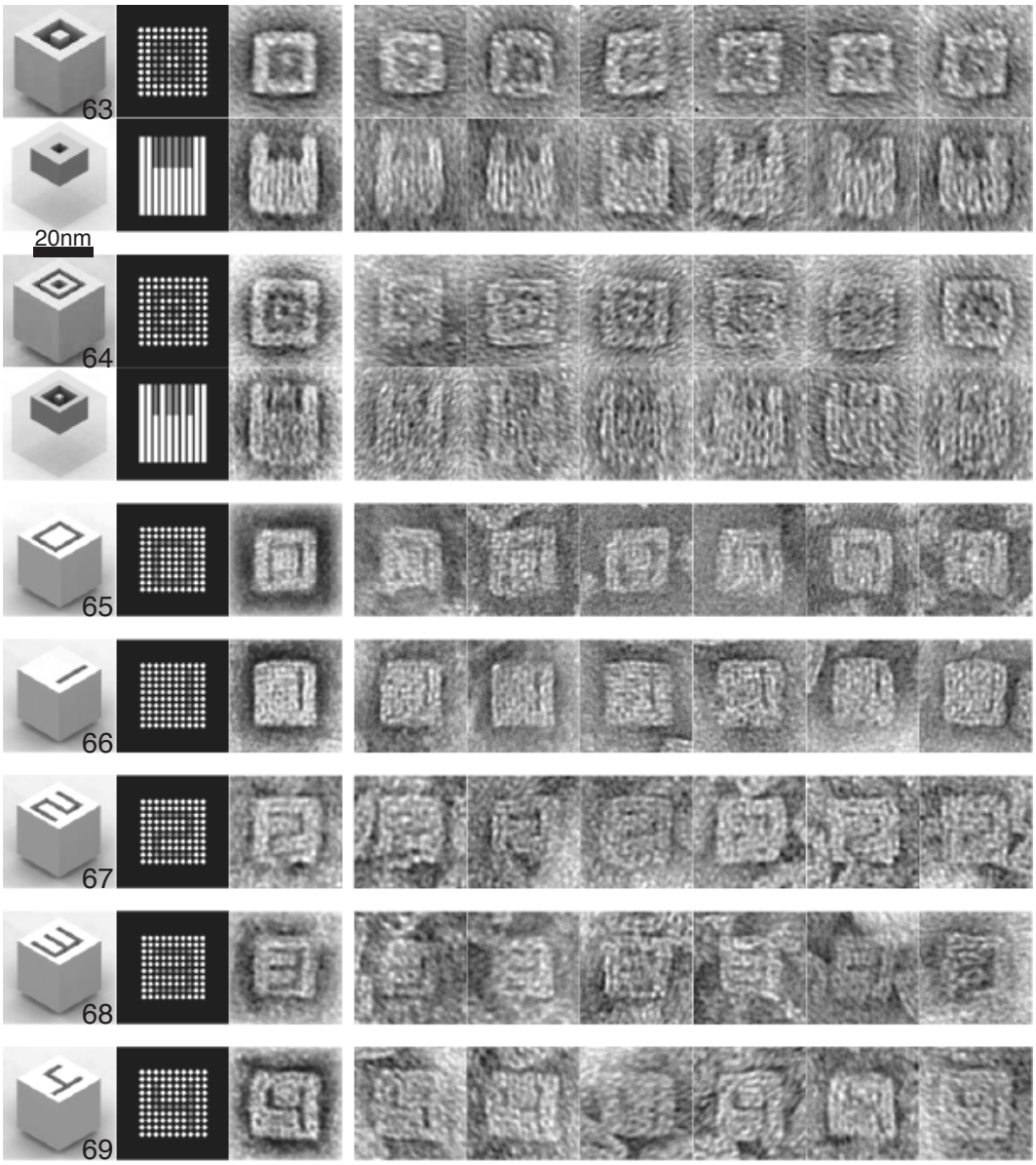


Fig. S49. TEM images of shapes 63–69. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.15 TEM images of shapes 70–76

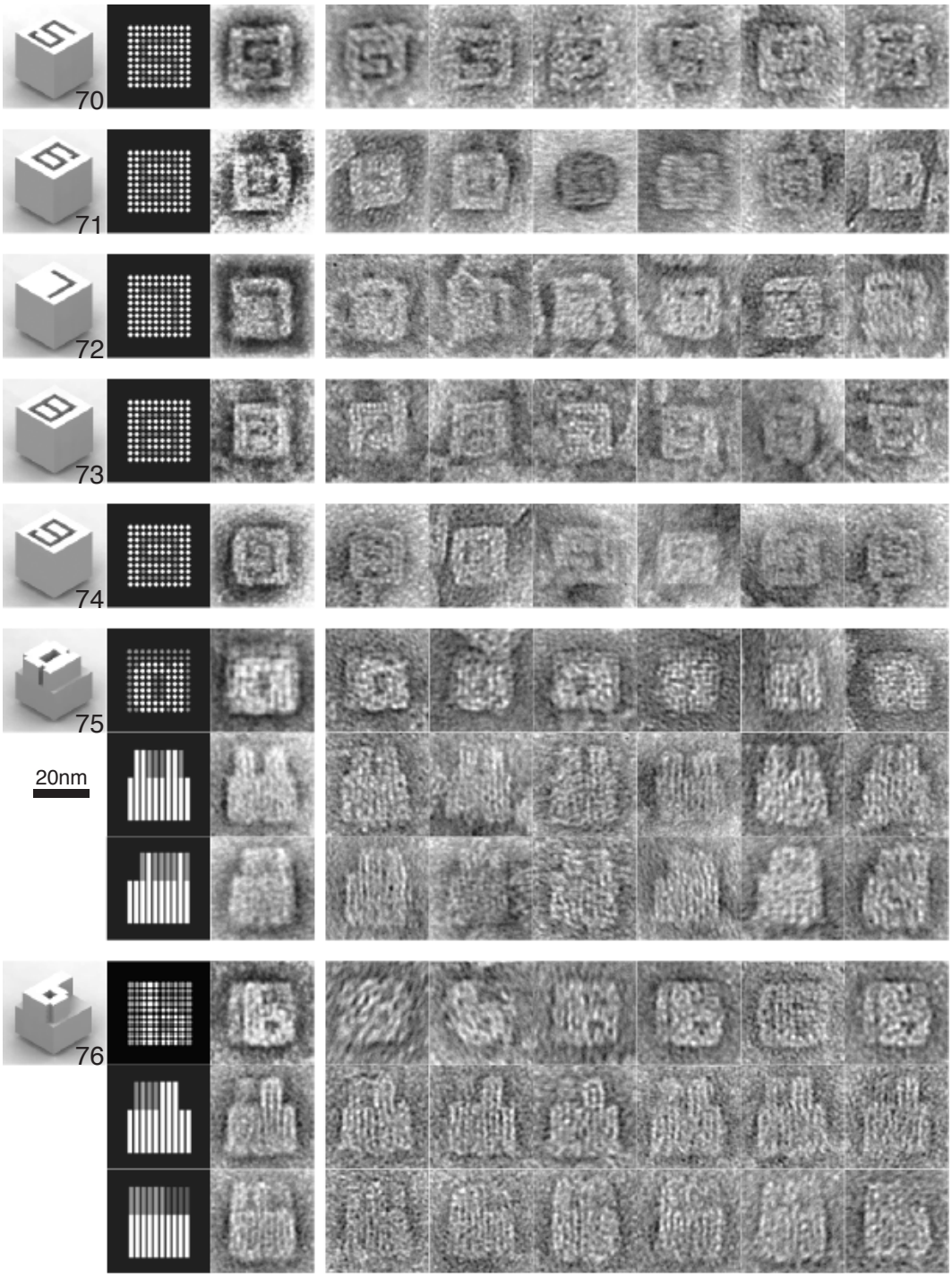


Fig. S50. TEM images of shapes 70–76. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.16 TEM images of shapes 77– 84

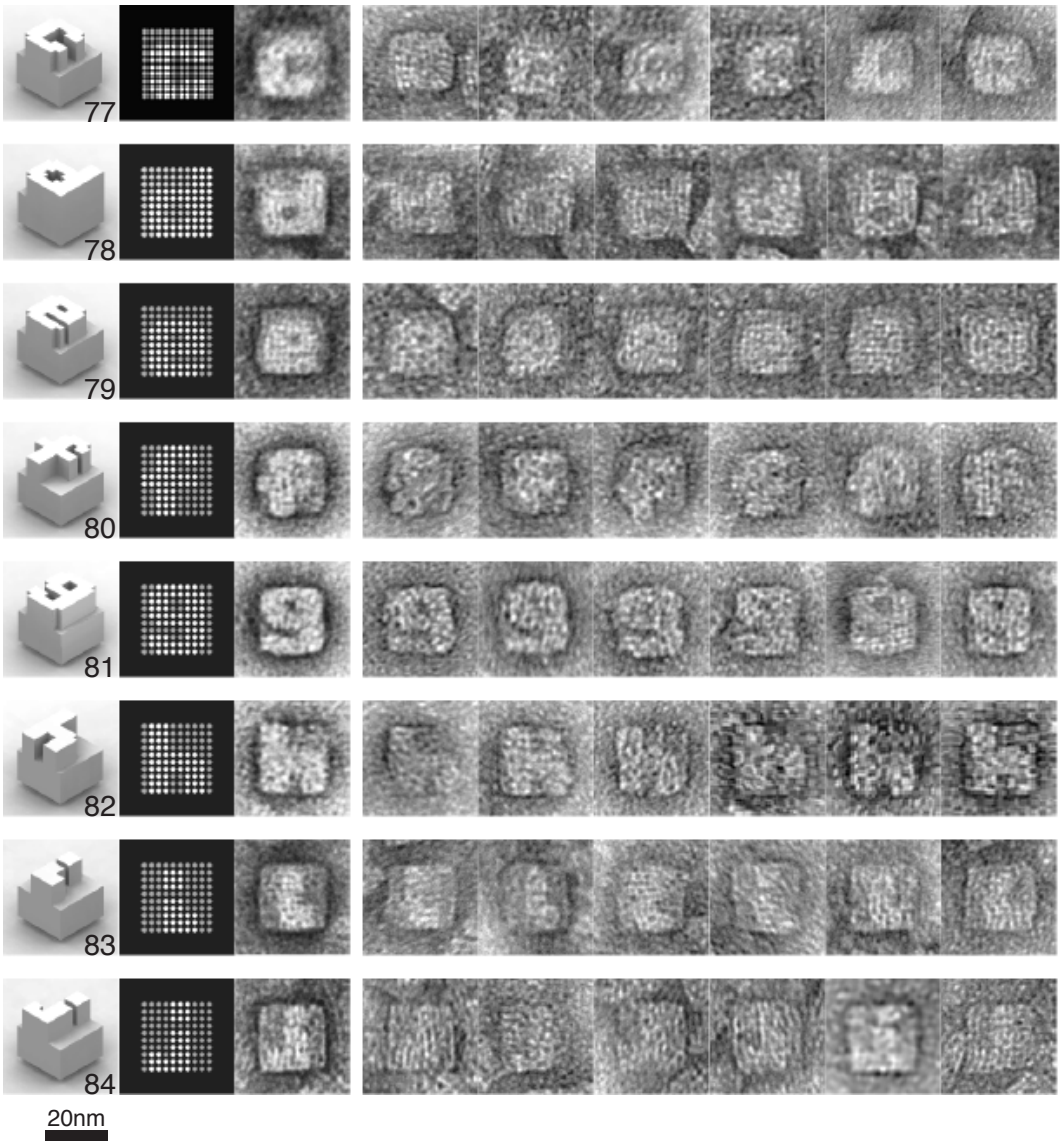


Fig. S51. TEM images of shapes 77–84. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.17 TEM images of shapes 85– 92

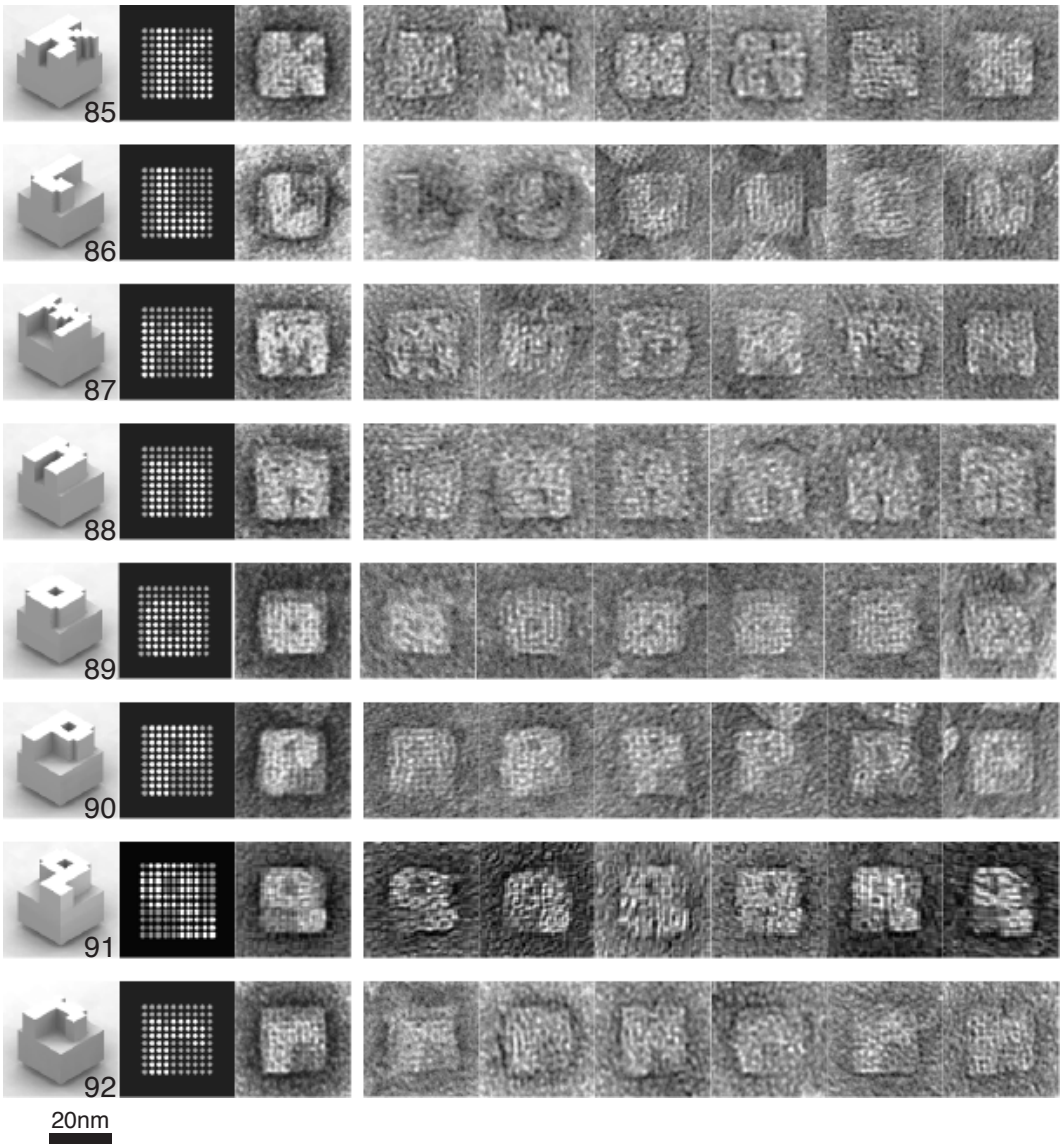


Fig. S52. TEM images of shapes 85–92. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.18 TEM images of shapes 93–100

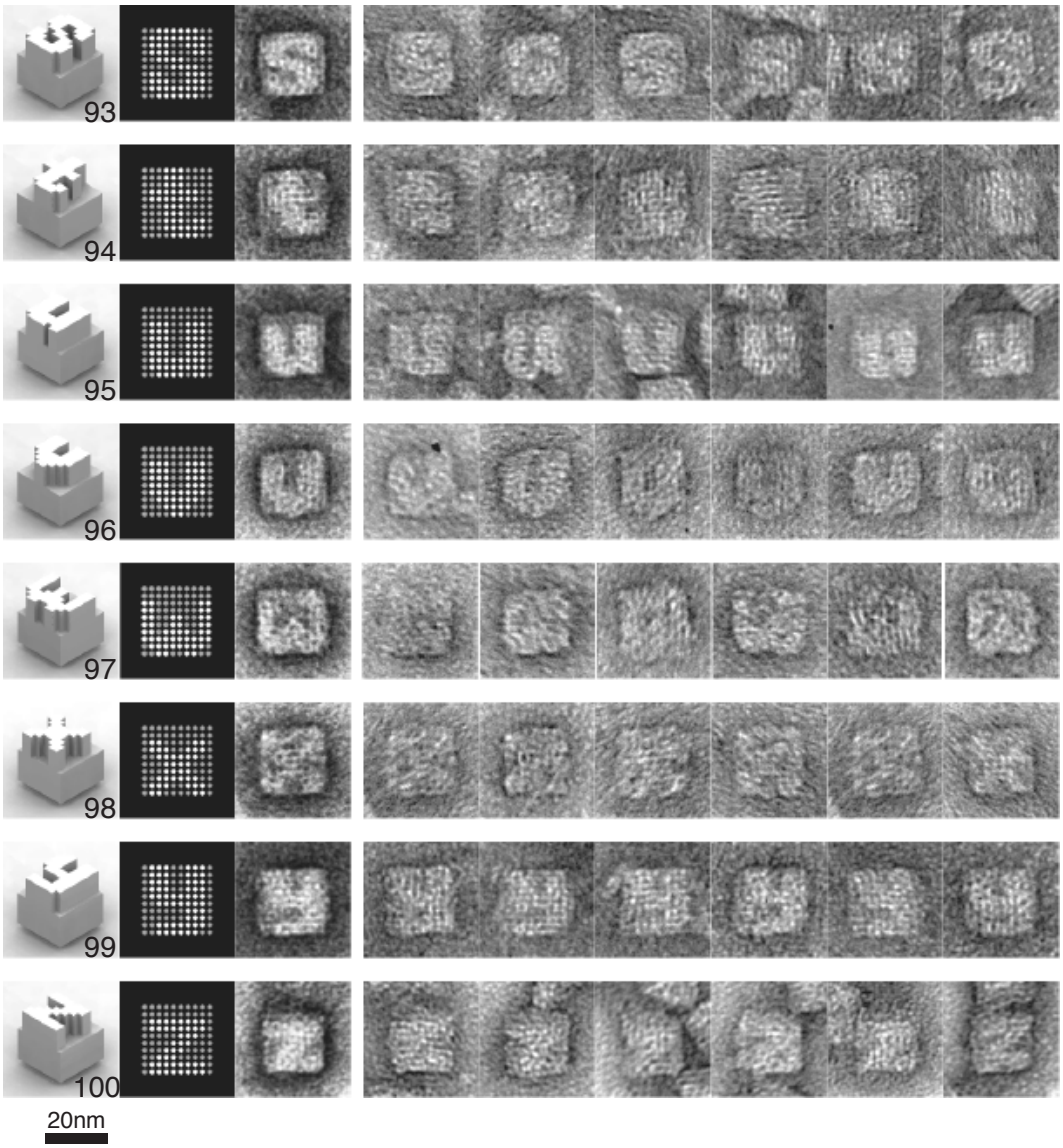


Fig. S53. TEM images of shapes 93–100. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.2.19 TEM images of shapes 101,102

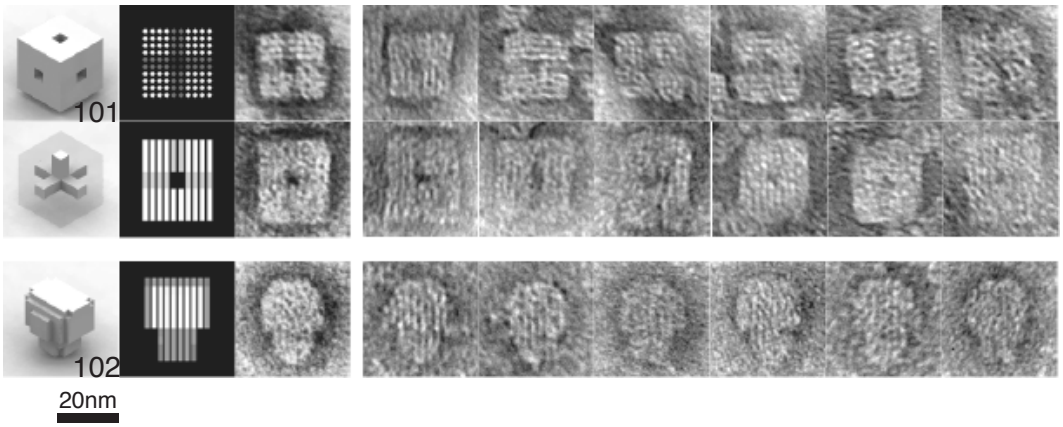


Fig. S54. TEM images of shapes 101,102. The first column is a computer-generated 3D model of the structure. The second column depicts a computer-generated projection view. The third column shows the image averaged from the six raw TEM images on the right.

S6.3 Shapes that failed self-assembly and shapes that could not be verified by TEM

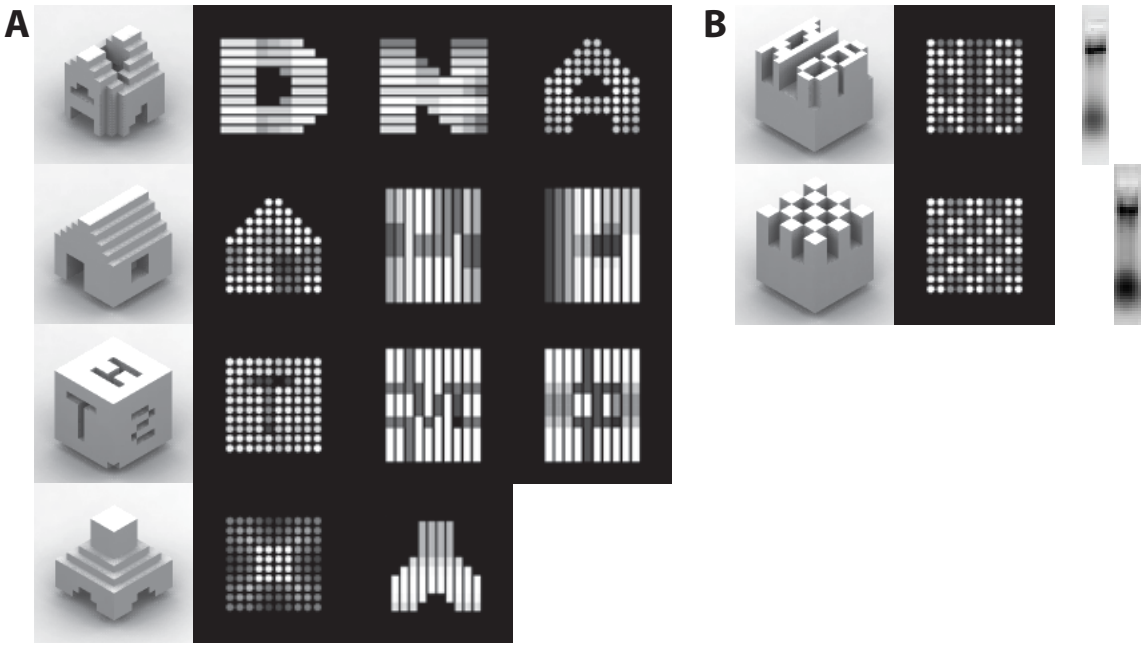


Fig. S55. Shapes that failed to assemble or could not be resolved by TEM. For each design, a 3D model and computer-generated projection views are shown. (**A**) Four shapes failed self-assembly. (**B**) Two shapes that showed clear bands on agarose gel, but the features were not clear in TEM images. Agarose gel images are shown on the right.

Some complex designs failed to assemble. Four failed shapes are shown in fig. S55A. Additionally, the self-assembly of certain "features-on-solid-base" designs seemed successful according to agarose gel electrophoresis (fig. S55B), but unclear features were revealed in TEM images, possibly due to the low contrast of the designed features.

S7 Generality of modular DNA-brick self-assembly

S7.1 Single-layer DNA structures

S7.1.1 Comparison of single-stranded tile 2D design and single-layer brick design in Fig. 4A

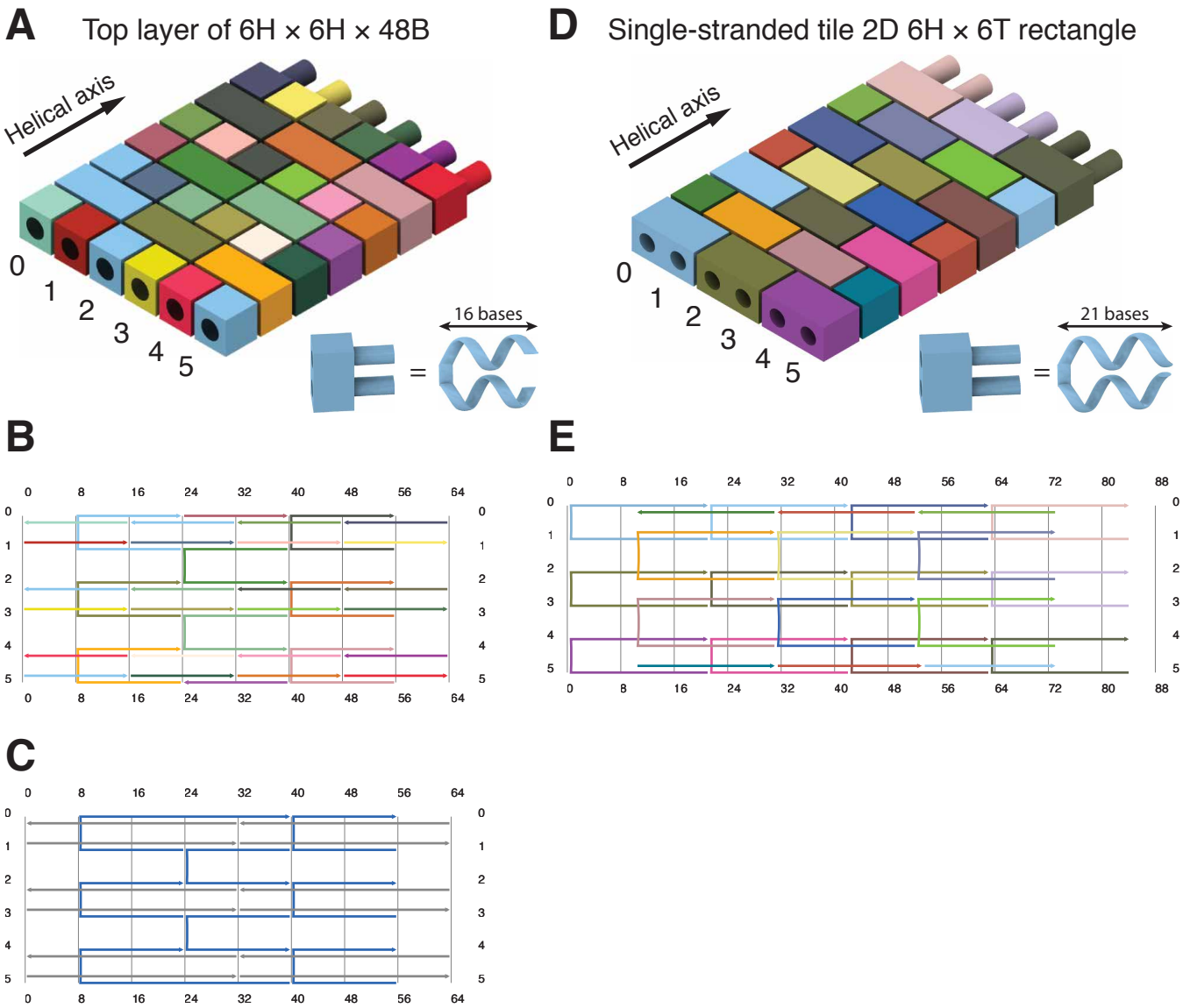


Fig. S56. Comparison of single-stranded tile 2D design and single-layer brick design in Fig. 4A. (**A-C**) The top layer of the 6H × 6H × 64B cuboid in Fig. 4A. (**A**) Lego-brick depiction. The bottom right panel shows the correspondence between a Lego-brick depiction and a strand depiction for a single brick. (**B**) Strand diagram. Colors are consistent with (**A**). (**C**) Strand diagram after merging the boundary strands. (**D, E**) Lego (**D**) and strand (**E**) depiction of a single-stranded tile 6H × 6T (turn, 6T equals to 63bp) rectangle. Colors in (**D**) and (**E**) are consistent.

The single-stranded tile 2D design is different from the single-layer brick design in Fig. 4A and fig. S56A. (1) The 2D brick rectangle is designed by "extraction" of the top layer from a 3D DNA-brick structure, and contains alternating rows of 32nt full-bricks and 16nt half-bricks (figs. S56A, B). In the actual implementation, each of these 16nt half-bricks was merged with another neighboring brick to stabilize the structure (fig. S56C). (2) The single-stranded tile 2D rectangle (6H × 6T, figs. S56D, E) contains mostly 42nt full-SSTs and a few 21nt half-SSTs on the two edges (helices 0 and 5). A pair of neighboring 42nt SSTs form a 180^o angle.

S7.1.2 Strand diagram of a 30H × 1H × 126B rectangle

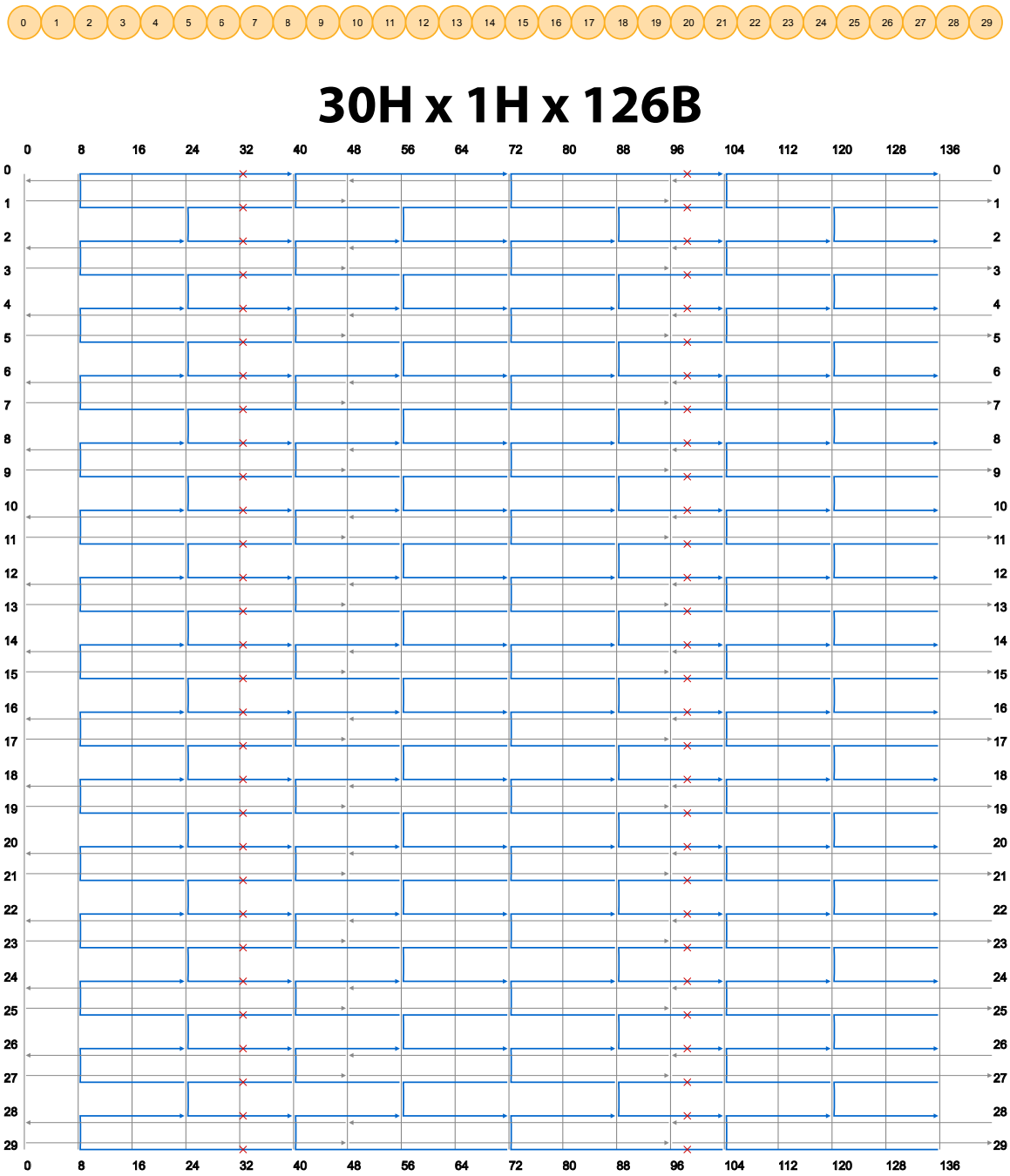


Fig. S57. Strand diagram of a 30H × 1H × 126B rectangle. Two base pairs were deleted from each helix, as indicated by the red " × ", to change the design from 10.67 base pairs per turn to 10.5 base pairs per turn (126 base pairs per 12 turns). This modification aims to cancel the right-handed twist to generate a "flatter" sheet. Zoom in to see details.

S7.1.3 Agarose gel electrophoresis of the 30H × 1H × 126B rectangle

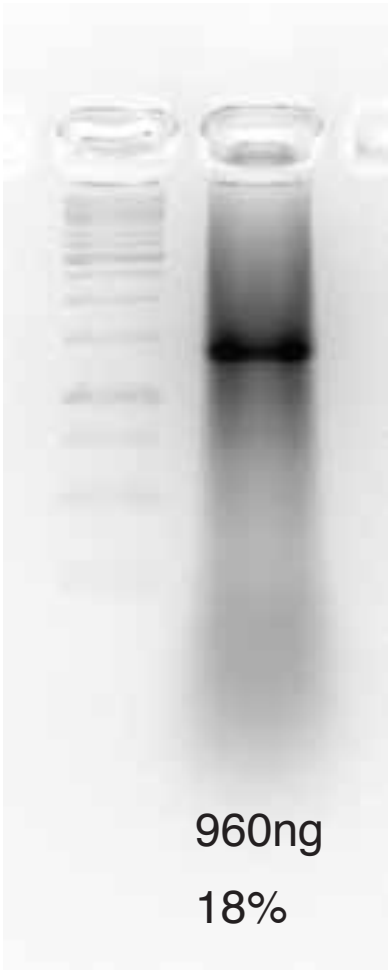


Fig. S58. Agarose gel electrophoresis of the 30H × 1H × 126B rectangle. Yield is labeled beneath the sample lane. The sample was self-assembled under the following conditions: 200 nM per strand, 0.5 × TE buffer with 40 mM $MgCl_2$, 72-hour annealing ramp. 10 μL of sample was loaded to the gel.

S7.2 3D honeycomb-lattice DNA structures

S7.2.1 Design of a 6H × 6H × 84B-HC cuboid

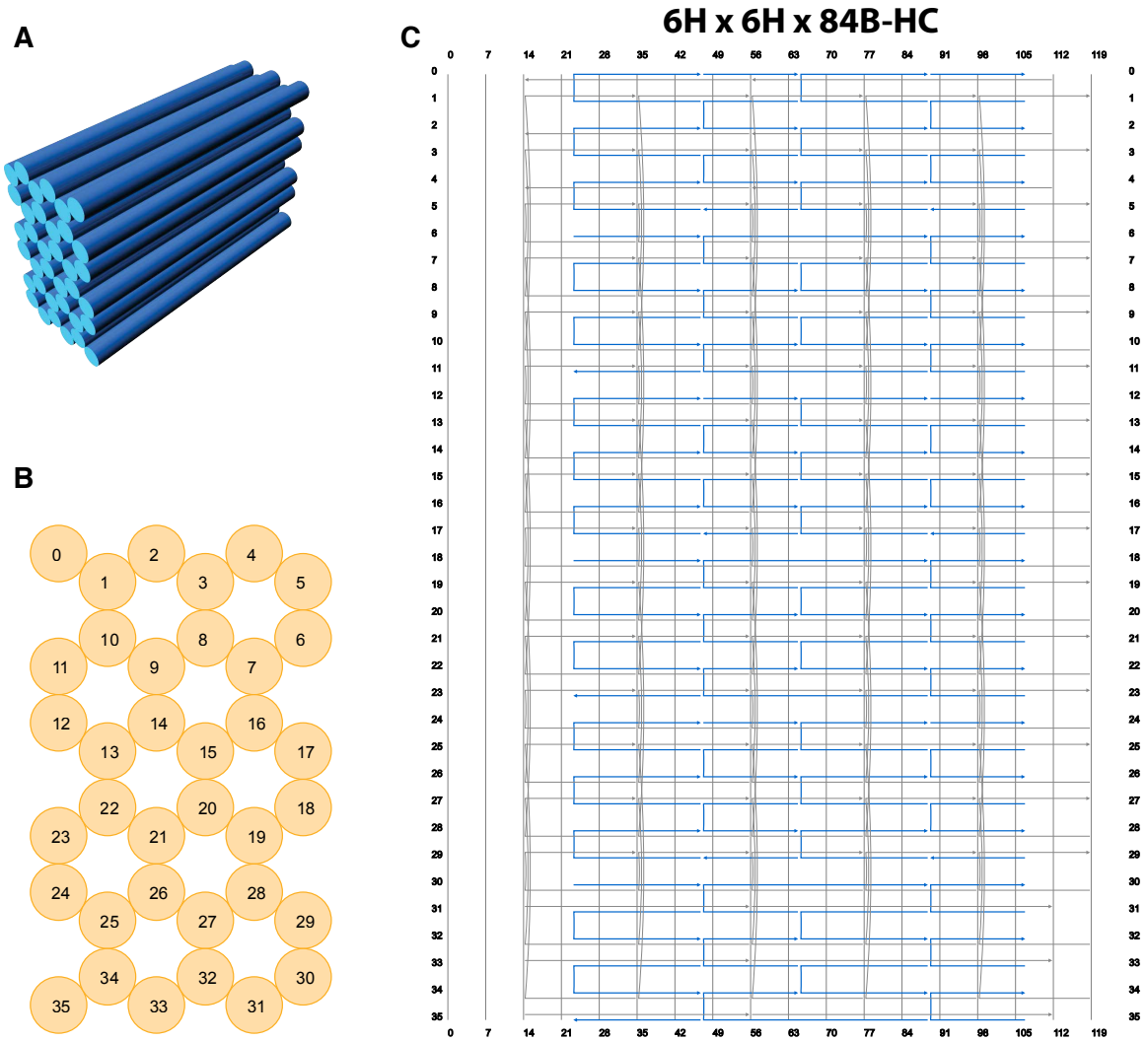


Fig. S59. Design of a 6H × 6H × 84B-HC cuboid. (**A**) A 3D cylinder model. (**B**) and (**C**) Strand diagrams. Zoom in to see more details.

S7.2.2 Agarose gel electrophoresis of the 6H × 6H × 84B-HC cuboid

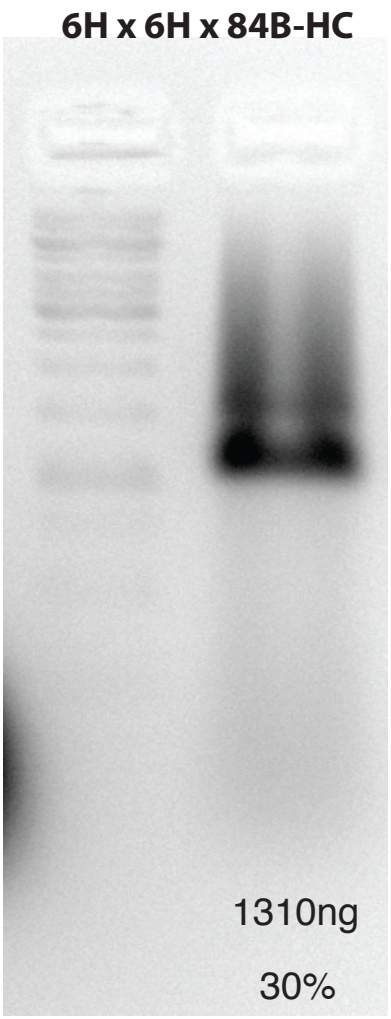


Fig. S60. Agarose gel electrophoresis of the 6H × 6H × 84B-HC. Yield is labeled beneath the sample lane. The sample was assembled at the following conditions: 200 nM per strand, 0.5 × TE buffer with 40 mM $MgCl_2$, 72-hour annealing ramp. 10 μL of sample was loaded into the gel.

S7.3 3D hexagonal-lattice DNA structures

S7.3.1 Design of a 6H × 7H × 108B-HL cuboid

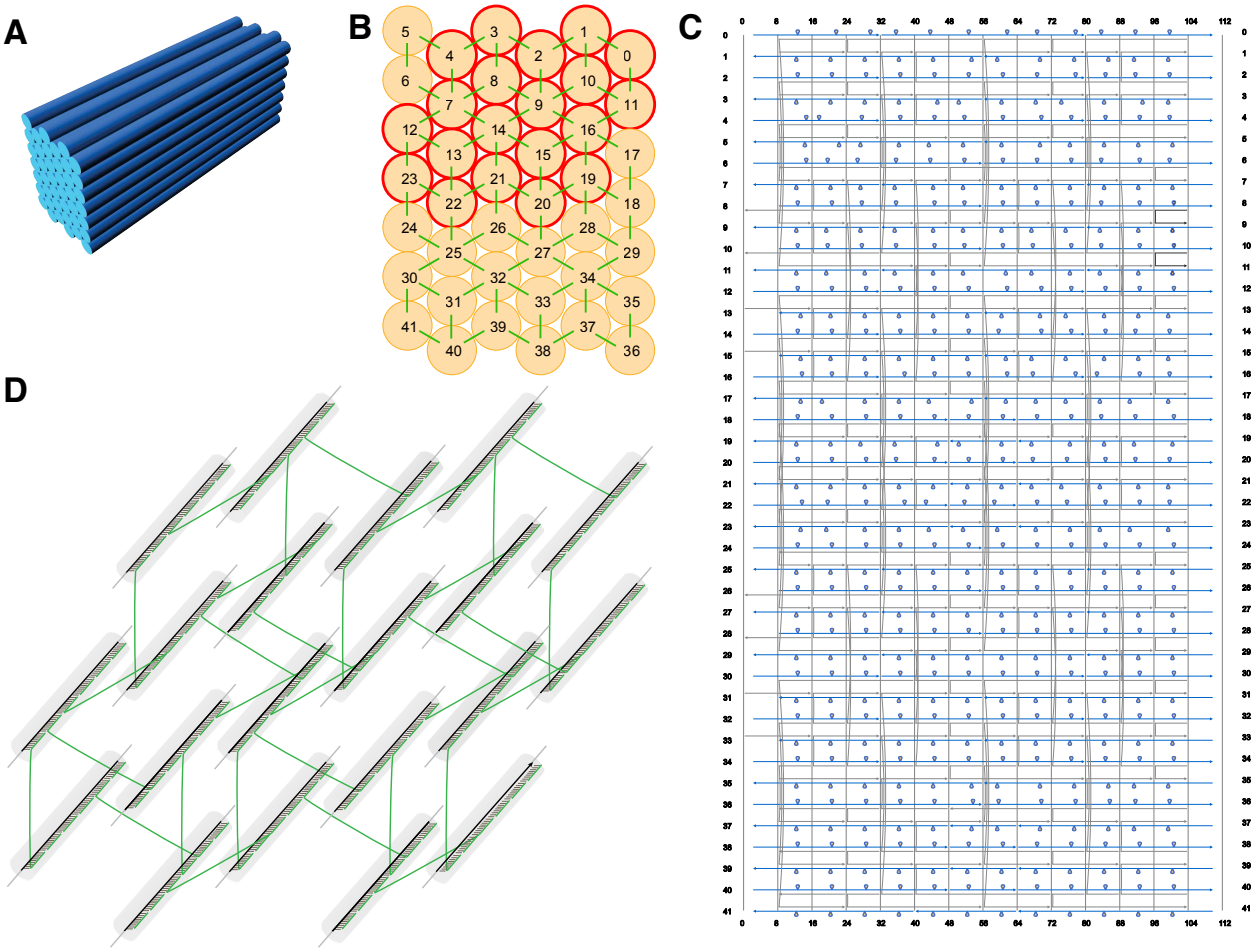


Fig. S61. Design of a 6H × 7H × 108B-HL cuboid. (**A**) A 3D cylinder model. (**B**), (**C**) and (**D**) Strand diagrams. Zoom in to see more details. Green lines in (**B**) indicate duplexes that are connected by crossovers. The detailed 3D strand diagram shown in (**D**) corresponds to the helices indicated with red circles in (**B**). Note that the 9-base half-bricks are merged with their neighboring bricks to form longer strands in (**C**).

S7.3.2 Agarose gel electrophoresis of the 6H × 7H × 108B-HL cuboid

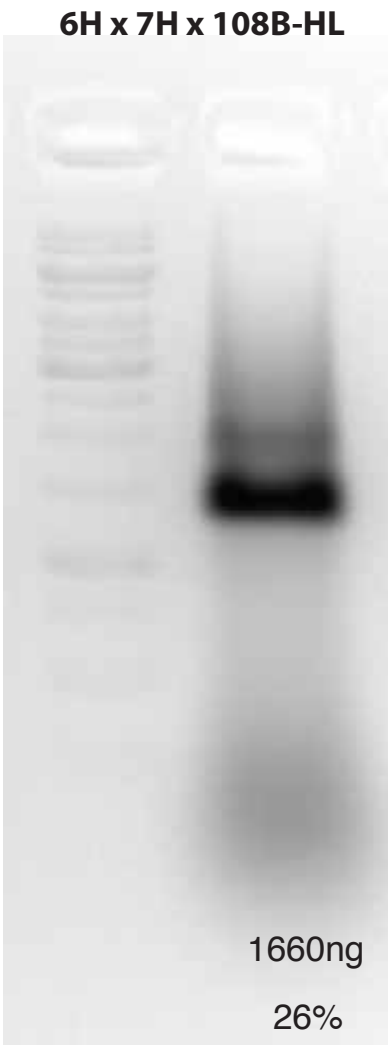


Fig. S62. Agarose gel electrophoresis of the 6H × 7H × 108B-HL cuboid. Yield is labeled beneath the sample lane. The sample was assembled at the following conditions: 200 nM per strand, 0.5 × TE buffer with 40 mM $MgCl_2$, 72-hour annealing ramp. 10 μL of sample was loaded into the gel.

S7.4 Design with alternating bricks

S7.4.1 Design of a 6H × 10H × 64B-A cuboid

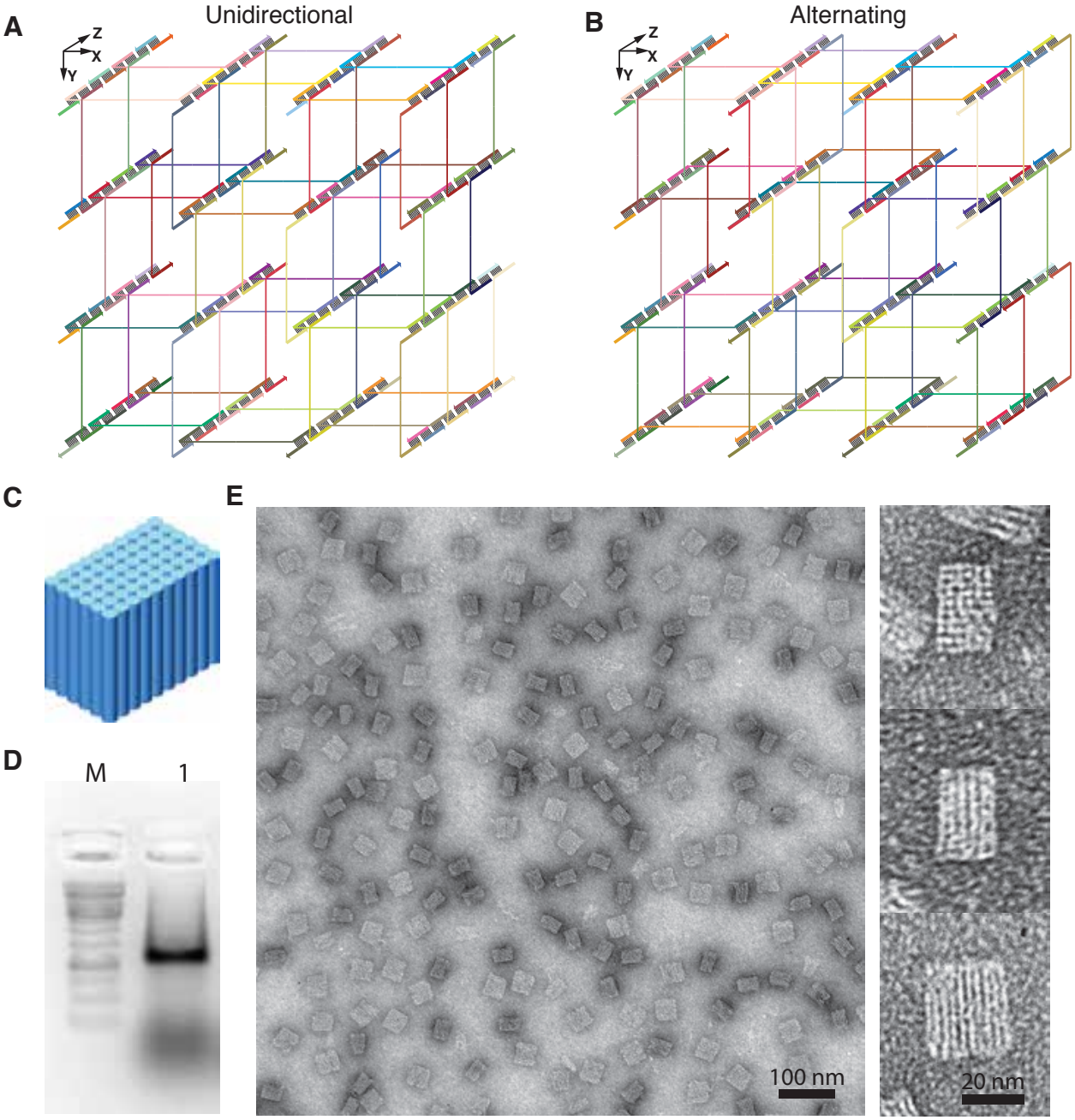


Fig. S63. Design with alternating bricks. (**A**) Strand diagram of a 4H × 4H × 64B cuboid unidirectional-brick design. (**B**) Strand diagram of a 4H × 4H × 64B-A cuboid alternating-brick design. (**C**) A 6H × 10H × 64B-A cuboid was used to test the alternating-brick design strategy. (**D**) Results of agarose gel electrophoresis. Lane M shows 1kb ladder. Lane 1 shows the 6H × 10H × 64B-A cuboid. The structures were self-assembled in 0.5 × TE buffer with 40 mM $MgCl_2$, using 72-hour annealing ramp. Concentration of each strand is 200 nM. A bright band corresponding to the product was extracted from the gel. (**E**) TEM images of 6H × 10H × 64B-A cuboid after agarose gel purification.

In contrast to the "unidirectional" design in which all the bricks point towards the same direction (fig. S63A, identical to fig. S3C), bricks can also be designed to point to opposite directions in a 3D structure. Fig. S63B depicts an alternating-brick design in which bricks in odd numbered layers (numbered from top most row and the leftmost column) point in the Z- direction, and bricks in even numbered layers point in the Z+ direction. We successfully constructed a 6H × 6H × 64B-A cuboid using the alternating-brick design (agarose gel electrophoresis, fig. S63D; TEM imaging, fig. S63E).

S7.4.2 Strand diagram of the 6H × 10H × 64B-A cuboid

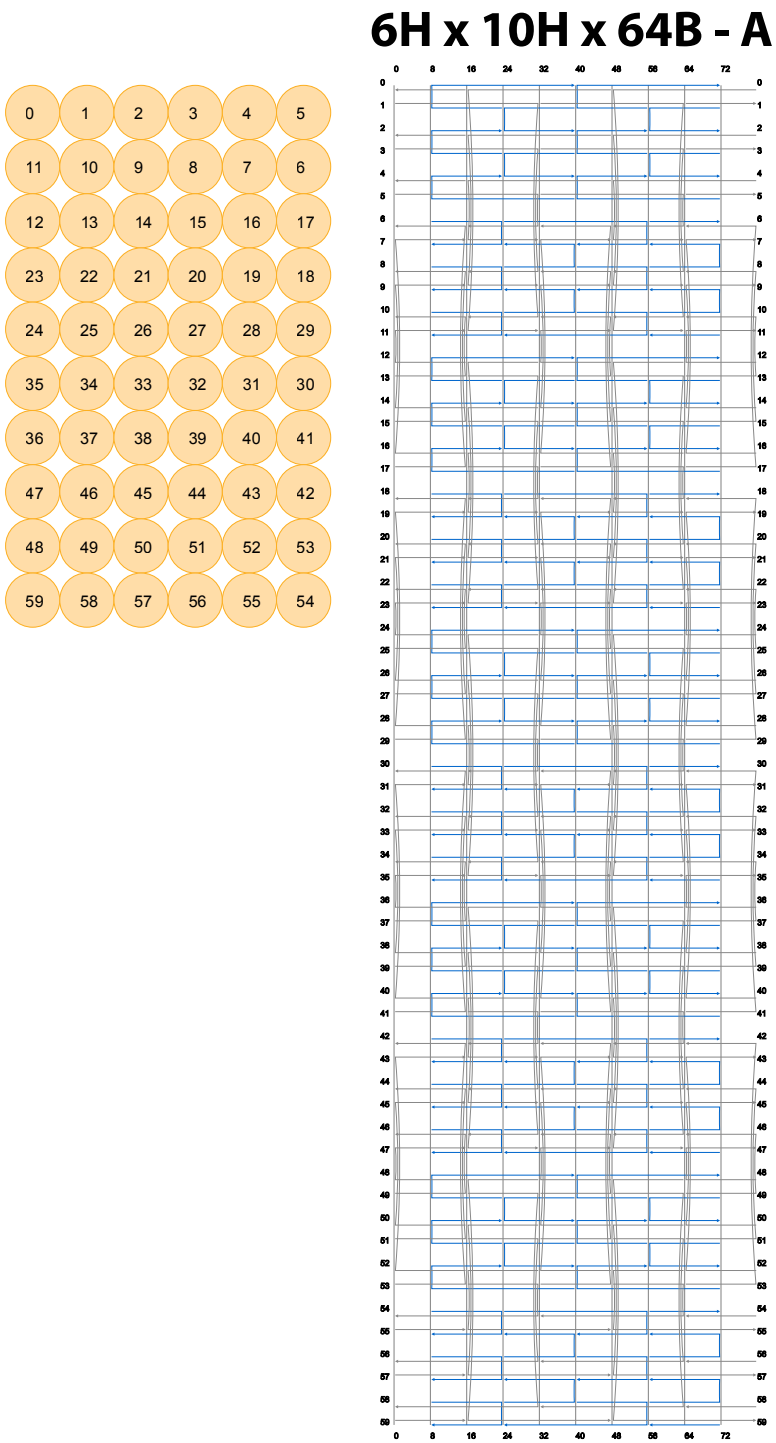


Fig. S64. Strand diagram of the 6H × 10H × 64B-A cuboid. Zoom in to see details.

S7.5 3D structures with other DNA brick motifs

S7.5.1 A 6H × 6H × 64B cuboid with two different DNA brick motifs

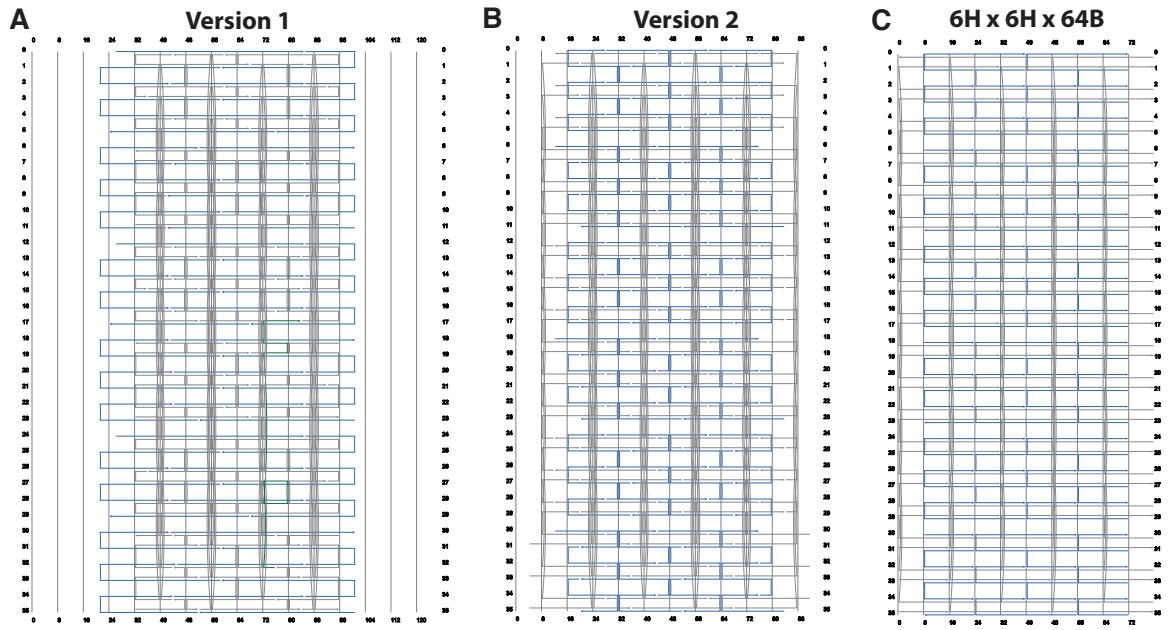


Fig. S65. A 6H × 6H × 64B cuboid with two different brick motifs derived from 3D origami. (**A**) Design version 1. (**B**) Design version 2. (**C**) Strand diagram of the standard 6H × 6H × 64B cuboid. Zoom in to see details.

In order to explore the motif space for DNA bricks, we designed two other versions of the 6H × 6H × 64B cuboid. Version 1 mimics an "origami" design. It contains short blue bricks (considered to be equivalent to "chopping" a long scaffold) and gray bricks (considered equivalent to the short synthetic single-stranded staples) of different lengths. Nicking points in this design are randomly arranged. Version 2 is a standardized design where most brick strands are exactly 32nt in length and contain two crossovers (strands on the boundary contain one crossover; see strand diagram for details). See fig. S66 for experimental results.

S7.5.2 Agarose gel electrophoresis and TEM images

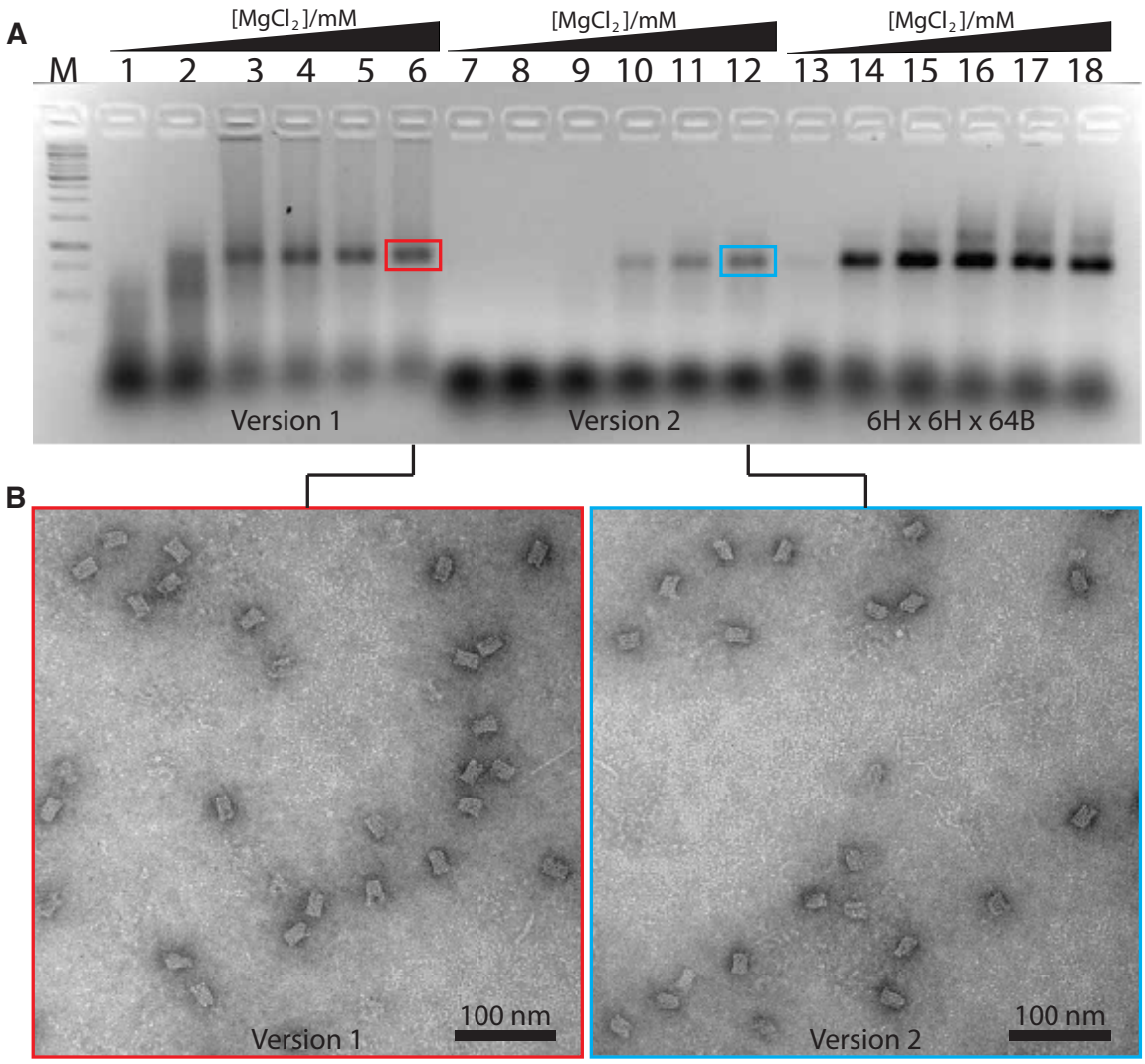


Fig. S66. Agarose gel electrophoresis and TEM images of the cuboids with designs in fig. S65. (**A**) Agarose gel electrophoresis results. All samples were self-assembled using a 72-hr annealing ramp at 200 nM (per strand) concentration in 0.5 × TE buffer. 20 μL of sample was loaded into a single lane. Lane M shows 1 kb ladder. Lanes 1 to 6 show version 1 with 10, 20, 30, 40, 50, 60 mM $MgCl_2$. Lanes 7 to 12 show version 2 with 10, 20, 30, 40, 50, 60 mM $MgCl_2$. Lanes 13 to 18 show strand 6H × 6H × 64B cuboid with 10, 20, 30, 40, 50, 60 mM $MgCl_2$. Bands circled in red or blue were extracted and subjected to purification and TEM imaging. (**B**) TEM images of version 1 and version 2.

Both versions showed lower gel yields in comparison to the 6H × 6H × 64B (fig. S66). Additionally, version 1 shows more unwanted products (strong smearing bands and more aggregates in the wells). At 60 mM $MgCl_2$ concentration, version 1 consumed almost all strands (dim band of free strand) while producing a much lower amount of desired product compared with the 6H × 6H × 64B cuboid. Self-assembly of version 2 occurred only when $MgCl_2$ concentration was higher than 30 mM.

TEM images of version 1 and version 2 showed that the two designs formed the designed structure. The experiments here proved that other DNA brick motifs could also be used to construct DNA 3D structures. However, both of the above two versions showed lower yields than the canonical 32nt brick motif.

Supplementary Materials II – Sequences

Three-Dimensional Structures Self-Assembled from DNA Bricks

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Table S1. Sequences of 6H × 6H × 64B-S and 6H × 6H × 64B.

Sequence of 6H x 6H x 64B-S	5' end	Sequence of 6H x 6H x 64B	5' end
CCAGGTTAAGTGGCTC	[0, 32]	GTATGATTTTTTTTTT	[0, 23]
AATCATACTCACGGTT	[0, 64]	CTATCTTCATAGGACACAACAGTTAACCGTGACCAGCCGCGCGCAGGG	[0, 55]
AACTGTTGTGTCCTATGTTTACTTAGGGATGG	[1, 31]	TTTTTTTTTCCGGTTTAGCGAATTTATGCTCTCGCACGGCTTAATTTG	[0, 87]
TACGAACTCAACGCACGCTCGGGTAGTCTCAA	[1, 47]	CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	[1, 31]
GAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 63]	GTTTACTTAGGGATGGTACGAACTCAACGCAC	[1, 47]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 79]	GCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 63]
TTCATGTCGCCTTTTCGAACGGTGACACACTT	[3, 31]	AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 79]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 47]	CACCGTTCTTTTTTTT	[2, 23]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 63]	ACAGGCGGGTGCGTTGAGTTCGTAAAGTGTGTAAAGACTGTGCGAGAT	[2, 55]
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 79]	TTTTTTTTTACTCGATCACTGAGTTAAGCGTTGAGTCGGCCTGACAGA	[2, 87]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[5, 31]	TTCATGTCGCCTTTTCGAACGGTGACACACTT	[3, 31]
CCGGGCTAATGAAGCC	[5, 47]	GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 47]
GTGACCCCAGAGACTGTCTGATGCACCGGGAG	[5, 63]	TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 63]
CCAGCCACTTAGCTGT	[5, 79]	ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 79]
GTCAGTGTGATCGCGA	[6, 16]	TAGCCCGGTTTTTTTT	[4, 23]
GTTCCCTCTAGCTAGG	[6, 48]	GTGGCTGGGCGGCCATATTTCCGCGGCTTCATGAGGGAACTTCCAGCT	[4, 55]
GTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[7, 31]	TTTTTTTTCGCTCAGCGTATTAGCACAGCTAATAGCTCCGGGGGATGA	[4, 87]
CGGCTCTGATTTCTAGTGACCTGGTATAATGG	[7, 47]	ATGCTGTTGTTGCGGGGTTTCTGAACCGGAACCCGGGCTAATGAAGCC	[5, 47]
CGGAGCTACCTGACCTCAATCATACGTCCCAC	[7, 63]	GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[5, 79]
GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[7, 79]	GTCAGTGTGATCGCGA	[6, 16]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[9, 31]	ACACTGACTTTTTTTTTTTTTTTTTGTTCCGGTTCAGAAACCCCGCAAC	[6, 23]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[9, 47]	CAGAGCCGTCGCGATCCTTACATCGAATATGG	[6, 39]
GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[9, 63]	CCAGGTCACTAGAAATAACAGCATCTCCCGGTGCATCAGACAGTCTCT	[6, 55]
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[9, 79]	TTCTTAAACCATTATAGGTCAGAAGCCCCCTA	[6, 71]
GCGGCTGGACGACCCC	[11, 31]	TTTTTTTTTGCGATCAGGGGTCACTTTTTTTT	[6, 87]
GCCGTGCGACGACTGACCGTCGAGCCCTGCGC	[11, 47]	GTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	[7, 31]
GACAAACGCATATCCT	[11, 63]	GGATATGGAGCTGGAACGGCTCTGATTTCTAGTGACCTGGTATAATGG	[7, 47]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[11, 79]	CGGAGCTACCTGACCTCAATCATACGTCCCAC	[7, 63]
GCCTAAAGGTCCTTCC	[12, 32]	GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[7, 79]
ACGGTAATCGGGGGTG	[12, 64]	GGCATCACTTTTTTTTTTTTTTTTGAAAAGGCGACATGAATACTCTGA	[8, 23]
ACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[13, 31]	CACCAGAAACCCTTTTGACAGGGACCACCGCA	[8, 39]
CTCGCGTGGCACGTCTACGACTCGTCGAACGA	[13, 47]	TATGATTGAGTTTTGGATGAACACCCCGCTGCGCACCGAAAAAAGCCC	[8, 55]
GGACTGTTCTACATAGTGACTTGGACGAGGTT	[13, 63]	AGCTTGGGGTGGGACGCCCCCAAGACGCTTAG	[8, 71]
TCACTGGGCGCTATACAGGAAACTCGAGGGGC	[13, 79]	TTTTTTTTTTATGCTAGGGCTGATTTTTTTTT	[8, 87]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[15, 31]	CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[9, 31]
GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	[15, 47]	GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[9, 47]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	[15, 63]	GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[9, 63]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[15, 79]	AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[9, 79]
CAGCTATCCCATATTCGATGTAAGCGGACATC	[17, 31]	AGATGTTCTTTTTTTTTTTTTTTTGAGCCACTTAACCTGGCCATCCCT	[10, 23]
TATGCGCCCGATATCC	[17, 47]	CGTTTGTCCAACCAAACTTTAGGCTGGGTAAG	[10, 39]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCA	[17, 63]	ATAATAGTAGGATATGAAGTAAACTTGAGACTACCCGAGCGAGATGCG	[10, 55]
TGAGAATTGTAAACAG	[17, 79]	ATCGACTAATAGCCAGCGAGTCGTGTATAGCG	[10, 71]
GAACAGCTTAGAGCAG	[18, 16]	TTTTTTTTGAAGCGTAGATACTTTTTTTTTTT	[10, 87]
TCAAGTTCGGATACGC	[18, 48]	GCGGCTGGACGACCCC	[11, 31]
TACCTATGGACGGGGATATGCGACACCATGAT	[19, 31]	GCCGTGCGACGACTGACCGTCGAGCCCTGCGCGACAAACGCATATCCT	[11, 63]
CCGGATGAGTTATGAAGATCGTCATTGGGATA	[19, 47]	CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[11, 79]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[19, 63]	ATTACCGTTTTTTTTTTTTTTTTTGGGGTCGT	[12, 23]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[19, 79]	GCCGGAGTCACCCCCGATCAGTTAATATTAAG	[12, 39]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[21, 31]	AACAGTCCCCAAGGAGCTCGACGGTCAGTCGT	[12, 55]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[21, 47]	CCAAGTCACTATGTAGGCGGAACCTGTTTCAC	[12, 71]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[21, 63]	TTTTTTTTAACCTCGTGCGGGCCGTTTTTTTT	[12, 87]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[21, 79]	GCCTAAAGGTCCTTCCACGGTAATCGGGGGTGACTCCGGCCTCCTTGG	[13, 31]
TAACTGATTTTCTCCT	[23, 31]	TATATTAGCTTACCCACTCGCGTGGCACGTCT	[13, 47]
GGTTCCGCTAGCTGATCTATGGTCCTTAATAT	[23, 47]	ACGACTCGTCGAACGAGGACTGTTCTACATAGTGACTTGGACGAGGTT	[13, 63]
AACCCTCGGAGGCAAG	[23, 63]	TCACTGGGCGCTATACAGGAAACTCGAGGGGC	[13, 79]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[23, 79]	GTCGCTGGTTTTTTTTTTTTTTTTAACATCTC	[14, 23]
GAGTGCCCCCTCGGCA	[24, 32]	CACGCGAGCAGAAGTGGTCCAACATGATAATC	[14, 39]
GCCGCCTCGGTTATAC	[24, 64]	TTAGTGAGAGACGTGCCTTTACGCGCTTGAAC	[14, 55]
TCGTCAAGCCTGCTTTCCATAGCTAACCCGAT	[25, 31]	AGTTTCCTGAAGGAGTCTAACGATGTGGGAGG	[14, 71]
TGTGCATTCCACGTGAGTCGTACTTAAAGCAA	[25, 47]	TTTTTTTTGCCCCTCGCATCTTTTTTTTTTTT	[14, 87]
ACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[25, 63]	TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[15, 31]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[25, 79]	GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	[15, 47]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[27, 31]	CTTGGGGGTGATATACCTCACTAAACTCCTTC	[15, 63]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[27, 47]	TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[15, 79]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[27, 63]	GGCGCATATTTTTTTTTTTTTTTTCCTAGCTA	[16, 23]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[27, 79]	AACTACTGGGATATCGGAACTTGAATCATGGT	[16, 39]
ATTGTAGGCACAATTTTTGATTCGATCACATA	[29, 31]	AATTCTCACTAATCACCCATATCCAGGTCAGG	[16, 55]
CATGGGCAATAAAGCT	[29, 47]	TGGAGTTACTGTTTACAGATTGTAGCTGTGAC	[16, 71]
GTAGCCTGAGGCGCGCAGCTGCACCGTGTCAC	[29, 63]	TTTTTTTTGTTTCCTTATCCTTCCTTTTTTTT	[16, 87]
CTTGATATTGAGGGAC	[29, 79]	CAGCTATCCCATATTCGATGTAAGCGGACATCTATGCGCCCGATATCC	[17, 47]
ACCTCGTCATTCGGAT	[30, 16]	GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	[17, 79]
AAACCATACTGAGGGC	[30, 48]	GAACAGCTTAGAGCAG	[18, 16]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[31, 31]	AGCTGTTCTTTTTTTTTTTTTTTGATGTCCG	[18, 23]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[31, 47]	TCATCCGGCTGCTCTACGAATCAAAAATTGTG	[18, 39]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[31, 63]	TGACGATCTTCATAACGATAGCTGTGAGCTTT	[18, 55]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[31, 79]	GTATTACTTATCCCAAGTGCAGCTGCGCGCCT	[18, 71]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[33, 31]	TTTTTTTTAGGTAGAGGTTTGAACTTTTTTTT	[18, 87]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[33, 47]	TCAAGTTCGGATACGCTACCTATGGACGGGGA	[19, 31]

CTTGACACCTTTCAATTTTTAGTAAACACCCA	[33, 63]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[33, 79]
TCGTATGATCATAGGA	[35, 31]
TCAAACTAAATACAGCGTACCGCCAGTTCTTG	[35, 47]
TCCTTATTGGCGATCG	[35, 63]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[35, 79]
AAGTAAACTTTTTTTT	[0, 23]
TAACCTGGCCATCCCTCCAGCCGCTCAGTCGT	[0, 39]
AGCGAATTGAGCCACT	[0, 55]
GTATGATTTCCGGTTTCGTTTGTCTTAATTTG	[0, 71]
TTTTTTTTAACCGTGA	[0, 87]
CAACAGTTGTGCGTTG	[1, 24]
CTATCTTCGAGATGCG	[1, 56]
CACCGTTCTTTTTTTT	[2, 23]
ACCCGAGCAAGTGTGTAAAGACTGTGCGAGAT	[2, 39]
ACAGGCGGTTGAGACT	[2, 55]
CACTGAGTTAAGCGTTGAGTCGGCCTGACAGA	[2, 71]
TTTTTTTTTACTCGAT	[2, 87]
GACATGAATACTCTGA	[3, 24]
GCACCGAAAAAAGCCC	[3, 56]
TCAGAAACTTTTTTTT	[4, 23]
ATTTCCGCGTTCCGGTGGCATCACCTAGAAAT	[4, 39]
GCATCAGAGCGGCCAT	[4, 55]
GTATTAGCCTCCCGGTTAGCTCCGGGGGATGA	[4, 71]
TTTTTTTTCGCTCAGC	[4, 87]
AACAGCATGGCTTCAT	[5, 24]
GGGGTCACACAGCTAA	[5, 56]
ACACTGACTTTTTTTTTTTTTTTTCCCGCAAC	[6, 23]
CCAGGTCATCGCGATCGATAGCTGGGATATCG	[6, 39]
GAGGGAACCCATTATATAGCCCGGCAGTCTCT	[6, 55]
TTCTTAAACCTAGCTAGTTTGAACCTGTTTAC	[6, 71]
TTTTTTTTTGCGATCAGTGGCTGGTTTTTTTT	[6, 87]
CCATATCCTTTTTTTTTTTTTTTTGAAAAGGC	[8, 23]
CACCAGAATTCCAGCTGACAGGGACCACCGCA	[8, 39]
TATGATTGAGTTTTGGATGAACACCCCGCTGC	[8, 55]
AGCTTGGGGTGGGACGCCCCCAAGACGCTTAG	[8, 71]
TTTTTTTTTTATGCTAGGGCTGATTTTTTTTT	[8, 87]
AGATGTTCTTTTTTTTTTTTTTTTTATAGGACA	[10, 23]
CTCGACGGCAACCAAAGCCGGAGTAGACGTGC	[10, 39]
ATAATAGTGCGCAGGGAGTTCGTATATGCTCT	[10, 55]
ATCGACTAATAGCCAGAACAGTCCGTATAGCG	[10, 71]
TTTTTTTTGAAGCGTAGATACTTTTTTTTTTT	[10, 87]
CTAATATATTTTTTTTTTTTTTTTTGGGGTCGT	[12, 23]
CTTTAGGCTGGGTAAGATCAGTTAATCAGCTA	[12, 39]
CCAAGTCAGGAAGGACCGCACGGCAGGATATG	[12, 55]
ATTACCGTAACCTCGTCGAGGGTTTGTTTCAC	[12, 71]
TTTTTTTTCACCCCCGGCGGGCCGTTTTTTTT	[12, 87]
GTCGCTGGTTTTTTTTTTTTTTTTAACATCTC	[14, 23]
CGAGTCGTCAGAAGTGGTCCAACATGATAATC	[14, 39]
TTAGTGAGTCGTTCGACTTTACGCGCTTGAAC	[14, 55]
AGTTTCCTGAAGGAGTCTAACGATGTGGGAGG	[14, 71]
TTTTTTTTGCCCCTCGCATCTTTTTTTTTTT	[14, 87]
CTTACATCTTTTTTTTTTTTTTTTACCCTTTT	[16, 23]
AACTACTGGATGTCCGCATAGGTATTCATAAC	[16, 39]
GGTCAGAACTAATCACCAGAGCCGAGGTCAGG	[16, 55]
TGGAGTTATGAGCTTTAGATTGTAGCTGTGAC	[16, 71]
TTTTTTTTGTTTCCTTATCCTTCCTTTTTTTT	[16, 87]
AGCTGTTCTTTTTTTTTTTTTTTTGAATATGG	[18, 23]
TGACGATCCTGCTCTACCTACAATAGCTTTAT	[18, 39]
GAACTTGATATCCCAAGGCGCATAGCCCCCTA	[18, 55]
GTATTACTGCGTATCCCAGGCTACGTCCCTCA	[18, 71]
TTTTTTTTAGGTAGAGAATTCTCATTTTTTTT	[18, 87]
GTCGCATATTTTTTTTTTTTTTTTGCTCGACA	[20, 23]
GGTACACGATCATGGTTAATTAGTACGGCCAC	[20, 39]
GCTATGCTTATTTCGATCTTTCTCGTATATCA	[20, 55]
TAGGTTAACGCAGGGTGAGTGCAACTAATCCC	[20, 71]
TTTTTTTTCCAAGGCATCACATTATTTTTTTT	[20, 87]
GTTATTCTTTTTTTTTTTTTTTTTCCAAGGAG	[22, 23]
GACCATAGTTCTGGTCCTTGACGATCACGTGG	[22, 39]
CGGAACAGATATTAAGCACGCGAGCTATGTAG	[22, 55]
AGGTGGCCGCCTGTTTTCCCACGTACAACATA	[22, 71]
TTTTTTTTCCCGAGCCCCCAGTGATTTTTTTT	[22, 87]
AGCTATGGTTTTTTTTTTTTTTTTAGGAGAAA	[24, 23]
GGGCACTCATCGGGTTTCATACGAGCTGTATT	[24, 39]
TCAGACGCTGCCGAGGGCGGAACCCTTGCCTC	[24, 55]
GAGGCGGCACCATACCAATAAGGACAAACATT	[24, 71]
TTTTTTTTGTATAACCCCTCTCCCTTTTTTTT	[24, 87]
CGTGCACATTTTTTTTTTTTTTTTACGCTTAC	[26, 23]
AGTACGACATCCCTGAACATGTAATCTAGCAG	[26, 39]
AGTATAGTTTGCTTTACTCGTGCTTCGAGAAA	[26, 55]
CACTTGAGAGTGCGTAGTGTCAAGGGAAGTTC	[26, 71]
TATGCGACACCATGATCCGGATGAGTTATGAAGATCGTCATTGGGATA	[19, 47]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[19, 63]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[19, 79]
CATAGGTATTTTTTTTTTTTTTTTGCTCGACA	[20, 23]
GGTACACGTCCCCGTCTAATTAGTACGGCCAC	[20, 39]
GCTATGCTTATTTCGATCTTTCTCGTATATCA	[20, 55]
TAGGTTAACGCAGGGTGAGTGCAACTAATCCC	[20, 71]
TTTTTTTTCCAAGGCATCACATTATTTTTTTT	[20, 87]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[21, 31]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[21, 47]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[21, 63]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[21, 79]
GTTATTTCTTTTTTTTTTTTTTTTGGAAGGAC	[22, 23]
CGAGGGTTTTCTGGTCGGGCACTCATCGGGTT	[22, 39]
CGGAACAGCTTGCCTCCTAATATATCGTTCGA	[22, 55]
AGGTGGCCGCCTGTTTAGTACGACACAACATA	[22, 71]
TTTTTTTTCCCGAGCCCCCAGTGATTTTTTTT	[22, 87]
TAACTGATTTTCTCCT	[23, 31]
GGTTCCGCTAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAG	[23, 63]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[23, 79]
GAGGCGGCTTTTTTTTTTTTTTTTAGGAGAAA	[24, 23]
CTTGACGAGTATAACCTCATACGACAAGAACTGGCGGTACGCTGTATT	[24, 39]
TCCCACGTAAAGCAGGGACCATAGATCAGCTA	[24, 55]
TCAGACGCTCGGGCACTAGTTTGACAAACATTGGAATGCATTTTTTTT	[24, 71]
TTTTTTTTACCATACCCCTCTCCCTTTTTTTT	[24, 87]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[25, 31]
CCATAGCTAACCCGATTGTGCATTCCACGTGA	[25, 47]
GTCGTACTTAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[25, 63]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[25, 79]
CGTGCACATTTTTTTTTTTTTTTTACGCTTAC	[26, 23]
AATGCACAATCCCTGAACATGTAATCTAGCAGATCTGGTCATTGAAAG	[26, 39]
AGTATAGTTCACGTGGCTCGTGCTTCGAGAAA	[26, 55]
CACTTGAGAGTGCGTAGTGTCAAGGGAAGTTCAGCTCTGTTTTTTTTT	[26, 71]
TTTTTTTTACTGTTAGCTACCGCTTTTTTTT	[26, 87]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[27, 31]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[27, 47]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[27, 63]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[27, 79]
TGCCCATGTTTTTTTTTTTTTTTGCGTATCC	[28, 23]
ATGTAGCAAGCTTTATTATGGTTTGGAGCACTAATGATTATGGGGCAC	[28, 39]
ATATCAAGAGAAACTGGTCGCATATTACTTCG	[28, 55]
GCAATTGCGTCCCTCACAGCCCATTACCCACAGGTACACCTTTTTTTT	[28, 71]
TTTTTTTTGCAACCTACCTATCTTTTTTTTTT	[28, 87]
ATTGTAGGCACAATTTTTGATTCGATCACATACATGGGCAATAAAGCT	[29, 47]
GTAGCCTGAGGCGCGCAGCTGCACCGTGTCACCTTGATATTGAGGGAC	[29, 79]
ACCTCGTCATTCGGAT	[30, 16]
TAACTAAGATCCGAATGACGAGGTTTTTTTTTTTTTTTTTTATGTGAT	[30, 39]
CTCGGCCCTTCCGCCCCTAATGAACTATGAACCCTACAATGTGACACG	[30, 71]
TTTTTTTTGCCCAGCGCAGGCTACTTTTTTTT	[30, 87]
TTTTTTTTGCCCTCAG	[31, 8]
AAACCATACTGAGGGCAGTGGGCGAGATCGGC	[31, 31]
TAATCATTAGTGCTCCCTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[31, 47]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[31, 63]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[31, 79]
TGGTGGTTGCCGATCTCGCCCACTTTTTTTTTTTTTTTTTGTTATGGA	[32, 39]
CGACCATGGGTTGGTTACTGTACGGAGGATGTCGGTGAGATTCCCCAG	[32, 71]
TTTTTTTTCAGTAGAATCCAAACCTTTTTTTT	[32, 87]
TTTTTTTTTCACTTGC	[33, 8]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[33, 31]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[33, 47]
CTTGACACCTTTCAATTTTTAGTAAACACCCA	[33, 63]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[33, 79]
AATAAGGAGACCAAGTCATATATTTTTTTTTTTTTTTTTTTGCCGAGG	[34, 39]
GCGGCCATTGGGTGTTTACTAAAACGATCGCCAGCTATGGTTGCTTTA	[34, 71]
TTTTTTTTTAAGCCACGTGGGTAATTTTTTTT	[34, 87]
TTTTTTTTTCCTATGA	[35, 8]
TCGTATGATCATAGGA	[35, 31]
TCAAACTAAATACAGCGTACCGCCAGTTCTTGTCCTTATTGGCGATCG	[35, 63]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[35, 79]

TTTTTTTTACTGTTAGCTACCGCTTTTTTTTT	[26, 87]
CGAATCAATTTTTTTTTTTTTTTTTCCCCGTC	[28, 23]
ATGTAGCATATGTGATCGCCCACTCTATGAAC	[28, 39]
GTGCAGCTAGAAACTGTCATCCGGTTACTTCG	[28, 55]
GCAATTGCGTGACACGCAGCCCATTACCCACA	[28, 71]
TTTTTTTTGCAACCTACCTATCTTTTTTTTTT	[28, 87]
GACGAGGTTTTTTTTTTTTTTTTTTAAATTGTG	[30, 23]
CTAATGAAATCCGAAT	[30, 39]
TATGGTTTTTCCGCCCTGCCCATGGCGCGCCT	[30, 55]
CTCGGCCCGCCCTCAG	[30, 71]
TTTTTTTTGCCCAGCGATATCAAGTTTTTTTT	[30, 87]
TTTTTTTTGCCGATCT	[31, 8]
TAACTAAGTGGGGCAC	[31, 40]
GGTACACCTTTTTTTT	[31, 72]
AATGATTATTTTTTTTTTTTTTTTGTTATGGA	[32, 23]
TGGTGGTTGGAGCACT	[32, 39]
ACTGTACGGAGGATGTCGGTGAGATTCCCCAG	[32, 55]
CGACCATGGGTTGGTT	[32, 71]
TTTTTTTTCAGTAGAATCCAAACCTTTTTTTT	[32, 87]
TTTTTTTTTCACTTGC	[33, 8]
ATCTGGTCATTGAAAG	[33, 40]
AGCTCTGTTTTTTTTT	[33, 72]
CATATATTTTTTTTTTTTTTTTTAAAGCAGG	[34, 23]
GGCGGTACGACCAAGT	[34, 39]
TACTAAAACAAGAACTAATGCACATCGGGCAC	[34, 55]
GCGGCCATTGGGTGTT	[34, 71]
TTTTTTTTTAAGCCACGTGGGTAATTTTTTTT	[34, 87]
TTTTTTTTTCCTATGA	[35, 8]
TAGTTTGACGATCGCC	[35, 40]
GGAATGCATTTTTTTT	[35, 72]

Table S2. Sequences of 6H × 10H × 64B-M.

Sequence	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	[1, 23]
GCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 55]
GTTTACTTAGGGATGGTACGAACTCAACGCAC	[1, 39]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 71]
TTCATGTCGCCTTTTCGAACGGTGACACACTT	[3, 23]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 55]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 39]
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 71]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAACCCGGGCTAATGAAGCC	[5, 39]
GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[5, 71]
TGACCTGGTATAATGG	[6, 56]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGG	[6, 8]
GTGATGCCAAAAGGGTGGATATGGAGCTGGAACGGCTCTGATTTCTAG	[6, 24]
GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[8, 24]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[8, 56]
CGGAGCTACCTGACCTCAATCATACGTCCCAC	[8, 8]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[8, 40]
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[10, 24]
GACAAACGCATATCCTCGGCCCGCCAAATTAA	[10, 56]
GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[10, 8]
GCGGCTGGACGACCCCGCCGTGCGACGACTGACCGTCGAGCCCTGCGC	[10, 40]
TAGTCGATTACGCTTC	[11, 71]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTGACTCCGGCCTCCTTGG	[13, 23]
ACGACTCGTCGAACGAGGACTGTTCTACATAGTGACTTGGACGAGGTT	[13, 55]
TATATTAGCTTACCCACTCGCGTGGCACGTCT	[13, 39]
TCACTGGGCGCTATACAGGAAACTCGAGGGGC	[13, 71]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[15, 23]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	[15, 55]
GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	[15, 39]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[15, 71]
CAGCTATCCCATATTCGATGTAAGCGGACATCTATGCGCCCGATATCC	[17, 39]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	[17, 71]
GATCGTCATTGGGATA	[18, 56]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[18, 8]
TACCTATGGACGGGGATATGCGACACCATGATCCGGATGAGTTATGAA	[18, 24]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[20, 24]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[20, 56]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[20, 8]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[20, 40]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[22, 24]
AACCCTCGGAGGCAAGGGGAGAGGGTGAAACA	[22, 56]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[22, 8]
TAACTGATTTTCTCCTGGTTCCGCTAGCTGATCTATGGTCCTTAATAT	[22, 40]
GGCCACCTGGCTCGGG	[23, 71]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[25, 23]
GTCGTACTTAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[25, 55]
CCATAGCTAACCCGATTGTGCATTCCACGTGA	[25, 39]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[25, 71]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[27, 23]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[27, 55]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[27, 39]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[27, 71]
ATTGTAGGCACAATTTTTGATTCGATCACATACATGGGCAATAAAGCT	[29, 39]
GTAGCCTGAGGCGCGCAGCTGCACCGTGTCACCTTGATATTGAGGGAC	[29, 71]
TTCATTAGGGGCGGAA	[30, 56]
ACCTCGTCATTCGGATAAACCATACTGAGGGC	[30, 8]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCCCTTAGTTAGTTCATAG	[30, 24]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[32, 24]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[32, 56]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[32, 8]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[32, 40]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[34, 24]
TCCTTATTGGCGATCGTGCATTCCAATGTTTG	[34, 56]
CTTGACACCTTTCAATTTTTAGTAAACACCCA	[34, 8]
TCGTATGATCATAGGATCAAACTAAATACAGCGTACCGCCAGTTCTTG	[34, 40]
ATGGCCGCGTGGCTTA	[35, 71]
TTAAGACGGCCGGTGTAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[37, 23]
GACAAAAACAGATTTGTACCGGGGTGAACAGCACGTGCGGCTTCTCCT	[37, 55]
ACGCGGAACGTAATGGCAGAAAGTCTATACCC	[37, 39]
GTATCGCCTTGTGTATTATACTCTTGCGGGGG	[37, 71]
GGTCGAGCGCTCCACTGTAGTGGCCGGCCATC	[39, 23]
GCTACCTCCGATACGCGAACCAGAACCATTTA	[39, 55]
GTGGACTAGAAAGCGCCGGCAATCTGAATATC	[39, 39]
AGAGTAGGGGCAGTGCTCAGCCAAACAGTGGG	[39, 71]
ACATCTCGGAAAGGTGTCCCAAGTGCAAGTAAAAAAGGAATTATGAGA	[41, 39]
TCATGTGGGATCCTAAAGTTTCTGGTAGACCTCGTAGGCTAGAGCGGT	[41, 71]
CGTTGCGAATTTTCGC	[42, 56]
GATATCCACGGTACATTCGTTTACTGCACGGA	[42, 8]

ACGAGAGTGCTGGCATAAGCAAGAGAAACCTAACTTGGGGACTAAGAT	[42, 24]
AGACGACGGATCTCCTGCATGCCGGTAGCACC	[44, 24]
CAGCTTGACGCAAGACGCTAATCACTGGGCAG	[44, 56]
GCGATTCGCATGTAGCCGAACGAGATCGTCCT	[44, 8]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[44, 40]
AGCGTAGTAAGGGTTACAAGTTCCTGCGGCGG	[46, 24]
CACCAGCAGGATGTCGAGCCCACAACTTGACA	[46, 56]
GGTCCTAGGTTGCAGAAACCTACCCCCTAAGC	[46, 8]
CTGTACGAATGAGTCCGGCCTTGACATGACATTCTCCCACCCGTCCAA	[46, 40]
GTAGTACAGTATCTTT	[47, 71]
TTTCATGGCGGCGATGTCGCCGTTTGCTCGCGTGCGTACGGCTTTTAT	[49, 23]
AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGTGGGACTGGATCAGATG	[49, 55]
ATAGCGTAGACCGGACAACCCCGTAAATCGTA	[49, 39]
TTCAAGTATTCGGTGACCTCCCCGCATTACAA	[49, 71]
CGCGCTTACCAAGTAACGTATGTACGACGCGA	[51, 23]
GGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[51, 55]
TGCGAGTGAACGGGTGGATGAATTTCGTTCGG	[51, 39]
ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[51, 71]
ATAGCATCGACACTACGACCTGCTTTTCGACACGGACTGCATTCTGGA	[53, 39]
CAGTAACTGCATTAACTACGTGCTCCCAACATAAGTGACGTCCTCAGC	[53, 71]
GTATTAATGCCGCGCC	[54, 56]
AGTTGAAAATTATCTCGATAAGCAGAAGGACC	[54, 8]
TGTATAACTGGCAAGAGACAAGGCCGCTTCAGAAAGGATAGCCGGACC	[54, 24]
TATTCTATGAAACCATTCTCGGGTCGAGCGGG	[56, 24]
GTTCCGCGCGAATAGCTCACAGGCGAACTACG	[56, 56]
AACGGTTTCCCGGACCTAGTGTCTATCAAGTC	[56, 8]
TCACTGTTGTGACCTACGAGAAGCGTATAGAT	[56, 40]
ATACGACAGGTGGCAAACCACCTCCGATGTCA	[58, 24]
TCCATGGGATTCACCAAGCTCGTATACACCCT	[58, 56]
TATGAATTGGTTTAAACGCTCCTCGGGAATTA	[58, 8]
GCGCCGCATACCCATTCACTGTGAATTTCCACACCGAGGATTCGCAGG	[58, 40]
GATTCTCCATGGCAGC	[59, 71]
GTATGATTTTTTTTTT	[0, 15]
GATACTTTTTTTTTT	[1, 64]
CACCGTTCTTTTTTTT	[2, 15]
GGGCTGATTTTTTTTT	[3, 64]
TAGCCCGGTTTTTTTT	[4, 15]
GGGGTCACTTTTTTTT	[5, 64]
CTATCTTCATAGGACACAACAGTTAACCGTGAATAATAGTGCGCAGGG	[0, 47]
TTTTTTTTCCGGTTTAGCGAATTTATGCTCTCGCACGGCGAAGCGTA	[0, 79]
TTTTTTTTGAGCCACTTAACCTGGCCATCCCTCATCTTTTGCTTGAAC	[1, 0]
AAGTAAACTTGAGACTACCCGAGCGAGATGCGCGTTTGTCGGGGTCGT	[1, 32]
ACAGGCGGGTGCGTTGAGTTCGTAAAGTGTGTTATGATTGTTATGCTA	[2, 47]
TTTTTTTTTACTCGATCACTGAGTTAAGCGTTAGATGTTCTTAATTTG	[2, 79]
TTTTTTTTGAAAAGGCGACATGAATACTCTGAATCCTTCCAGGTCAGG	[3, 0]
ATGAACACCCCGCTGCGCACCGAAAAAAGCCCCTTTACGCAACATCTC	[3, 32]
GTGGCTGGGCGGCCATATTTCCGCGGCTTCATGAGGGAACTGCGATCA	[4, 47]
TTTTTTTTCGCTCAGCGTATTAGCACAGCTAACAGAGCCGAGTTTTGG	[4, 79]
TTTTTTTTGTTCCGGTTCAGAAACCCCGCAACGGCATCACTCGCGATC	[5, 0]
AACAGCATCTCCCGGTGCATCAGACAGTCTCTCCAGGTCATTCCAGCT	[5, 32]
ATTACCGTTTTTTTTTTTTTTTTTATAGCCAG	[12, 15]
AACAGTCCCCAAGGAGCTCGACGGTCAGTCGT	[12, 47]
TTTTTTTAACCTCGTATCGACTATTTTTTTT	[12, 79]
TTTTTTTTGGAAGGACGAGTCGGCTTTTTTTT	[13, 0]
CTAATATATCGTTCGACCAGCCGCCTGACAGA	[13, 32]
CCCAGTGATTTTTTTTTTTTTTTTAGGATATG	[13, 64]
GTCGCTGGTTTTTTTTTTTTTTTTGTGGGACG	[14, 15]
TTAGTGAGAGACGTGCAGCTTGGGCAACCAAA	[14, 47]
TTTTTTTTGCCCCTCGGCGGGCCGTTTTTTTT	[14, 79]
TTTTTTTTGCTCGACATAGCTCCGTTTTTTTT	[15, 0]
TCTTTCTCGTATATCAAAAGACTGGGGGATGA	[15, 32]
TCACATTATTTTTTTTTTTTTTTTTGCGAGAT	[15, 64]
GGCGCATATTTTTTTTTTTTTTTTCCTAGCTA	[16, 15]
AATTCTCACTAATCACTTCTTAAACTAGAAAT	[16, 47]
TTTTTTTTGTTTCCTTCACCAGAATTTTTTTT	[16, 79]
TTTTTTTTGATGTCCGACACTGACTTTTTTTT	[17, 0]
GATAGCTGTGAGCTTTCCATATCCACCCTTTT	[17, 32]
GTTTGAACTTTTTTTTTTTTTTTTCCATTATA	[17, 64]
GCCGGAGTCACCCCCGCGGAACAGATATTAAG	[12, 31]
CCAAGTCACTATGTAGGCGGAACCCCCGAGCC	[12, 63]
CTTTAGGCTGGGTAAGCTACCGCTTCGAGAAA	[13, 16]
CGAGTCGTGTATAGCGCGAGGGTTAGGAGAAA	[13, 48]
CACGCGAGCAGAAGTGGCTATGCTCCAAGGCA	[14, 31]
AGTTTCCTGAAGGAGTGTTATTTCTGTTTCAC	[14, 63]
GACAGGGACCACCGCACCTATCTTTTACTTCG	[15, 16]
CCCCCAAGACGCTTAGCTCGTGCTACGCTTAC	[15, 48]
AACTACTGGGATATCGGAACTTGAAGGTAGAG	[16, 31]
TGGAGTTACTGTTTACTCATCCGGTATTTCGA	[16, 63]
CTTACATCGAATATGGCATAGGTACTGCTCTA	[17, 16]
GGTCAGAAGCCCCCTATGACGATCATCATGGT	[17, 48]
GAGGCGGCTTTTTTTTTTTTTTTTGCCTGTTT	[24, 15]

TCCCACGTAAAGCAGGGACCATAGATCAGCTA	[24, 47]
TTTTTTTTACCATACCAGGTGGCCTTTTTTTT	[24, 79]
TTTTTTTTTGCCGAGGCTAACGATTTTTTTTT	[25, 0]
AGCTATGGTTGCTTTAATCAGTTAGTGGGAGG	[25, 32]
GTGGGTAATTTTTTTTTTTTTTTTCTTGCCTC	[25, 64]
CGTGCACATTTTTTTTTTTTTTTTCGCAGGGT	[26, 15]
AGTATAGTTCACGTGGTAGGTTAATTCTGGTC	[26, 47]
TTTTTTTTACTGTTAGCCTCTCCCTTTTTTTT	[26, 79]
TTTTTTTTGTTATGGAAGATTGTATTTTTTTT	[27, 0]
CGGTGAGATTCCCCAGGTCCAACAGCTGTGAC	[27, 32]
TCCAAACCTTTTTTTTTTTTTTTTTGATAATC	[27, 64]
TGCCCATGTTTTTTTTTTTTTTTTGCGTATCC	[28, 15]
ATATCAAGAGAAACTGGTATTACTTTCATAAC	[28, 47]
TTTTTTTTGCAACCTAGGTACACGTTTTTTTT	[28, 79]
TTTTTTTTTATGTGATAGCTGTTCTTTTTTTT	[29, 0]
CCTACAATGTGACACGGTCGCATATCCCCGTC	[29, 32]
CAGGCTACTTTTTTTTTTTTTTTTTATCCCAA	[29, 64]
CTTGACGAGTATAACCTACTAAAACAAGAACT	[24, 31]
TCAGACGCTCGGGCACTAGTTTGATAAGCCAC	[24, 63]
GGGCACTCATCGGGTTAGCTCTGTATTGAAAG	[25, 16]
AGTACGACACAACATAAATAAGGATCCTATGA	[25, 48]
AATGCACAATCCCTGAACTGTACGCAGTAGAA	[26, 31]
CACTTGAGAGTGCGTACATATATTCAAACATT	[26, 63]
TAATTAGTACGGCCACGGTACACCTGGGGCAC	[27, 16]
GAGTGCAACTAATCCCATCTGGTCTCACTTGC	[27, 48]
ATGTAGCAAGCTTTATTATGGTTTGCCCAGCG	[28, 31]
GCAATTGCGTCCCTCATAACTAAGGAGGATGT	[28, 63]
CGAATCAAAAATTGTGCGCCCACTATCCGAAT	[29, 16]
GTGCAGCTGCGCGCCTCTAATGAAGGAGCACT	[29, 48]
ATGTGGTTTTTTTTTTTTTTTTTTTGGGTGTT	[36, 15]
CCCCGGTATGACTACCGGCGGTACGCTGTATT	[36, 47]
TTTTTTTTAGGAGAAGGCGGCCATTTTTTTTT	[36, 79]
TTTTTTTTACACCGGCGTGTCAAGTTTTTTTT	[37, 0]
TTCCGCGTCAAATCTGTCATACGAGGAAGTTC	[37, 32]
GGCGATACTTTTTTTTTTTTTTTTCGATCGCC	[37, 64]
GCCACTACTTTTTTTTTTTTTTTTTGGTTGGTT	[38, 15]
TCTGGTTCGGGTATAGCGACCATGGACCAAGT	[38, 47]
TTTTTTTTCCCCCGCAGGAATGCATTTTTTTT	[38, 79]
TTTTTTTTAGTGGAGCCAGCCCATTTTTTTTT	[39, 0]
TAGTCCACGCGTATCGACATGTAATACCCACA	[39, 32]
CCTACTCTTTTTTTTTTTTTTTTTTCTAGCAG	[39, 64]
TTCCTTTTTTTTTTTTTTTTTTTTGCCCTCAG	[40, 15]
AGCCTACGGATATTCACTCGGCCCCTATGAAC	[40, 47]
TTTTTTTTCCCACTGTTGGTGGTTTTTTTTTT	[40, 79]
TTTTTTTTTTACTTGCGACGAGGTTTTTTTTT	[41, 0]
CGAGATGTAGGTCTACAATGATTAGCCGATCT	[41, 32]
CCACATGATTTTTTTTTTTTTTTTTTCCGCCC	[41, 64]
GGAGGCGGACGACTTTGGTAGGTTTTGGACGG	[36, 31]
CCGCACGTGCTGTTCATCAAGGCCAAAGATAC	[36, 63]
CGTCTTAACCATTACGACTACGCTTCTGCAAC	[37, 16]
TTTTTGTCATACACAATGCTGGTGGGACTCAT	[37, 48]
ACTTTCTGGATGGCCGCTCGTTCGCCGCCGCA	[38, 31]
AGAGTATATAAATGGTGCGTTAAATGTCAAGT	[38, 63]
GCTCGACCGCGCTTTCCGTCGTCTGCTACATG	[39, 16]
GAGGTAGCGCACTGCCTCAAGCTGAGCACGCA	[39, 48]
GATTGCCGTCTCATAAGTAAACGAGGTGCTAC	[40, 31]
TTGGCTGAACCGCTCTCCCCAAGTCTGCCCAG	[40, 63]
ACTTGGGACACCTTTCACTCTCGTATGTACCG	[41, 16]
CAGAAACTTTAGGATCTCGCAACGTAGGTTTC	[41, 48]
AACGGCGATTTTTTTTTTTTTTTTGCTTAGGG	[48, 15]
AGAACCGGATAAAAGCGTGGGAGAATGTCATG	[48, 47]
TTTTTTTTCATCTGATTGTACTACTTTTTTTT	[48, 79]
TTTTTTTTCATCGCCGCTAGGACCTTTTTTTT	[49, 0]
TACGCTATGGGGCATATCGTACAGTAACCCTT	[49, 32]
TACTTGAATTTTTTTTTTTTTTTTCGACATCC	[49, 64]
TACATACGTTTTTTTTTTTTTTTTTAGGACGAT	[50, 15]
GCGCCAGATACGATTTGGAACTTGGGTCTAAA	[50, 47]
TTTTTTTTTTGTAATGTGTGGGCTTTTTTTTT	[50, 79]
TTTTTTTTTTACTTGGCGAATCGCTTTTTTTT	[51, 0]
CACTCGCACTTAGATCTATTTGACAGGAGATC	[51, 32]
ACTTACGTTTTTTTTTTTTTTTTTGTCTTGCG	[51, 64]
GCAGTCCGTTTTTTTTTTTTTTTTTCCGTGCA	[52, 15]
CGTCACTTCCGAACGACGGCATGCATCTTAGT	[52, 47]
TTTTTTTTGGCTAGAATGATTAGCTTTTTTTT	[52, 79]
TTTTTTTTTGTCGAAATGGATATCTTTTTTTT	[53, 0]
GATGCTATATGTTGGGTCTTGCTTATGCCAGC	[53, 32]
AGTTACTGTTTTTTTTTTTTTTTTGCGAAAAT	[53, 64]
CGTACGCACGCGAGCAGAGGAGCGCCTGCGAATCCTCGGTGTGGAAAT	[48, 31]
CCAGTCCCACTCTAGCTCACAGTGGCTGCCATGGAGAATCTTTTTTTT	[48, 63]
CCATGAAAGTCCGGTCTGTCGTATTTTAAACCAATTCATATTTTTTTT	[49, 16]
ACGACTCTTCACCGAACCCATGGAAATGGGTATGCGGCGCTTGCCACC	[49, 48]

ACGGGGTTTCGCGTCGAGACACTATGACATCGGAGGTGGTATCTATAC	[50, 31]
CGGGGAGGGTCCTCACGCTTCTCGAGGGTGTATACGAGCTTTTTTTTT	[50, 63]
TAAGCGCGCACCCGTTATAGAATAGGTCCGGGAAACCGTTTTTTTTTT	[51, 16]
GCCTGGCCCTACTTCACGCGGAACTAGGTCACAACAGTGAATGGTTTC	[51, 48]
AATTCATCTCCAGAATTGCTTATCCCCGCTCGACCCGAGAGGTCCGGC	[52, 31]
AAAGCTTCGCTGAGGATATCCTTTCGTAGTTCGCCTGTGATTTTTTTT	[52, 63]
AGCAGGTCGTAGTGTCGTTATACAGAGATAATTTTCAACTTTTTTTTT	[53, 16]
AGCACGTAGTTAATGCATTAATACCTGAAGCGGCCTTGTCTCTTGCCA	[53, 48]
TTTTTTTTGGCGCGGC	[54, 79]
TTTTTTTTGGTCCTTC	[55, 0]
TTTTTTTTGCTATTCG	[56, 79]
TTTTTTTTGACTTGAT	[57, 0]
TTTTTTTTTGGTGAAT	[58, 79]
TTTTTTTTTAATTCCC	[59, 0]

Table S3. Random sequences and designed sequences of 6H × 6H × 64B.

Random sequence	Designed sequence	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	TAACGTCAAGTGCATCTTCGAACAAGCGTAAACTCGTCAGTCAAGCGA	[1, 31]
GTTTACTTAGGGATGGTACGAACTCAACGCAC	ATCAGGGGTCAAACCACAAACTCCTCGATGAA	[1, 47]
GCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACCGGA	CTGGAACACGTTGTACCGTACCATGGCAGTTGCTTGACCCCTTGGCTC	[1, 63]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	CAGCTTTGTGACGTTGATGTTGGAGAGGAGGT	[1, 79]
TTCATGTCGCCTTTTCGAACGGTGACACACTT	CGAAAGGCTTCTACCCATCACAGTGAGTGGTT	[3, 31]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	GAGTGGCAAAAGGTGAAGGTCCAAGGGAAAGT	[3, 47]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	CAGGTCAGATCACGTTTGCTCTCCTCATCCCC	[3, 63]
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	TAGACCCTGACACTCTTGCTCTCATCGATGCG	[3, 79]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAACCCGGGCTAATGAAGCC	TTTTTCGGGTGATAGGCTAAGCGTACAAGGTGGATTGGCTGAGGGAGT	[5, 47]
GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGT	AGTCCGATACGCTTTGAGCTCTTTGGGGTAACTGGCATTTCTGGGGTA	[5, 79]
GTCAGTGTGATCGCGA	GTCCCTCTAGCCTGTA	[6, 16]
GTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	CACCACTCCCTGATGACGTAGACTCTGCCAAA	[7, 31]
GGATATGGAGCTGGAACGGCTCTGATTTCTAGTGACCTGGTATAATGG	TCGACCATCCTCCAAGCATCCAAGCAAGCTAGTAGGCAGAGTTTCGGT	[7, 47]
CGGAGCTACCTGACCTCAATCATACGTCCCAC	AGGGGAACCAAAGGATCGATGGAGAAACGGAT	[7, 63]
GGAAGGATTCATCCCCTTTAAGAATGATCGCA	ACCTGACAAGTGCGATGCATCCATGACCACAG	[7, 79]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	TTTCGAGAAGCTGAAGACTAGGTGTGTTGTTA	[9, 31]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	CGGTTTGCATCGATCGGCTAATCCCTGACAGG	[9, 47]
GCCGACTCGTTCAAGCACTATTATCTGGCTAT	AATCCCAACAAACAACCCAGACACAACACAGA	[9, 63]
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	CTGACCGATTCTAGCCCCTGGTATGGCCTTGA	[9, 79]
GCGGCTGGACGACCCC	CCTCACAGCTGATCCC	[11, 31]
GCCGTGCGACGACTGACCGTCGAGCCCTGCGCGACAAACGCATATCCT	TCTGGTTGGACTGGGTCTTCTGGTGGAAAGGTGTGGTCGAGATGCTGT	[11, 63]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	AGGAGAGGGACCACTTAGGCAACCATCCAACC	[11, 79]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTGACTCCGGCCTCCTTGG	TCCACAACAGCAGTACAGCAAGCATACGTTTGGAGAGCAAGTGGTCAC	[13, 31]
TATATTAGCTTACCCACTCGCGTGGCACGTCT	ATGTCGAACTCGTTACACCTTGACCGTTTTCG	[13, 47]
ACGACTCGTCGAACGAGGACTGTTCTACATAGTGACTTGGACGAGGTT	ATGGGGAAGTTCCGTGATGAGCTGAAAGTGGTCCTAGCCTGAGTGCTT	[13, 63]
TCACTGGGCGCTATACAGGAAACTCGAGGGGC	CGTACCCAGTCTCCACGCTAGAACCACTCCAT	[13, 79]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	GGCATACCAGCAAAGCTAAGCGTTCAATCGTC	[15, 31]
GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	AGTTTGGGTTGTGTGTCTGTGTGAAAGTCCCC	[15, 47]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	ATGAGTGCAAGGCAACCATGAATCCCGTAGTC	[15, 63]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	TGGCTAAGCTCCTCCATCACATTCGTGCATAG	[15, 79]
CAGCTATCCCATATTCGATGTAAGCGGACATCTATGCGCCCGATATCC	ACCGAGTTCGTTGGTTACGGAAAGTGGCATTAGCTTCGAAGAGCAGAG	[17, 47]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	CATGGTGAAAGCTTGGTTGTGTTGCATCTGGAGGACAGGCATTGATAC	[17, 79]
GAACAGCTTAGAGCAG	CCTTGACTGGTACCAC	[18, 16]
TCAAGTTCGGATACGCTACCTATGGACGGGGA	TCCTGATACGACACTGACCTCTGGAACGAGTT	[19, 31]
TATGCGACACCATGATCCGGATGAGTTATGAAGATCGTCATTGGGATA	GGGGATTTGCATGTCTGGCTCATATGGGGGTATCGACATTCACCTCCT	[19, 47]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	CAGACTCCAGGGTTTCTCCGAAGATCGTGTGT	[19, 63]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	TCCATACCCTGTGAAAGCTCGACTAACGGTGA	[19, 79]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	TGTCTGCTGACTACGCTGTTTTCGACCTCAGT	[21, 31]
AGCACGAGGATTATCACGTGTACCTCGAAATA	GTGTGTGCATTCGGTAGCCTCATGAGCGTAAA	[21, 47]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	CCAGGTCCTGAAGGGAGACTGTACCGGAAAAC	[21, 63]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	CCAAGGAGCAAACTTCTGTGGACTGATGTGCA	[21, 79]
TAACTGATTTTCTCCT	TACCGGAAGAGCAACA	[23, 31]
GGTTCCGCTAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAG	CTCCCTCGTACCTCGAAAAGGCCTTCTCACCTCTCCTCCCATCCCAAT	[23, 63]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	CTGGTTCCTTCAGCATTCTCGAGTGACAGTAG	[23, 79]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	CCAGTAGTCCCAACATCGAACCTGAACAGCATTCCACACTTGACCTCC	[25, 31]
CCATAGCTAACCCGATTGTGCATTCCACGTGA	ATCTGGGACCACTAGCGATTTCGGGTACATGG	[25, 47]
GTCGTACTTAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	TAGCCTTGTCTGTCAGTGTTCCCTGTTCAGCTTGGAGGAGTCAACCGG	[25, 63]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	AAGAGACACACCTAGGCTCCATATCGGGACAG	[25, 79]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	TGCTCGTAGGGGTGTTAGCCAAGTTGCATTGA	[27, 31]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	CTCACCTCCTTCACTCCATTGACCCCAAAGAC	[27, 47]
TTGCACTCCTGGGGAAACTATACTTACGCACT	GTTCATGACCGATTCAACCTCCTCAGTTCGAC	[27, 63]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	CAAAACCGTAAGGCGATGAGGGGATTAGCCGA	[27, 79]
ATTGTAGGCACAATTTTTGATTCGATCACATACATGGGCAATAAAGCT	TGGAACATGGAGACAGCGAAAAGGGCTTGACTTGGCGATGTTGGGGTA	[29, 47]
GTAGCCTGAGGCGCGCAGCTGCACCGTGTCACCTTGATATTGAGGGAC	CTCCAGTGTGTGGTAGACAGCCTTCGAACCTAGTGGGAAACCTGACAA	[29, 79]
ACCTCGTCATTCGGAT	GTGGTCCATCCTTCGA	[30, 16]
AAACCATACTGAGGGCAGTGGGCGAGATCGGC	GTTGAACGTTGGTTTGCTTTTCGTCCTCAGTG	[31, 31]
TAATCATTAGTGCTCCCTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	CCTCTAGGGGTACTCTGGGTCTTGGAGCTTTGAGGTACGGACTCAACG	[31, 47]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	TCATCCTGTTCCAAGCTCCTCTACGAGTCCTG	[31, 63]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	AATCCTGCAACTTGTGGGTACCTGGAACTGTG	[31, 79]
TTACATGTGCAAGTGAAATATATGACTTGGTC	TAGTCCCCTTGAACTGGAGTCCTAGTGTGTAC	[33, 31]
GACCAGATCTGCTAGAAACCACCAACATCCTC	GTCTGGAACGAAGAGAAGCAGTACAACCGTAG	[33, 47]
CTTGACACCTTTCAATTTTTAGTAAACACCCA	TCCATGGGATCTCGTGTTTGCATACCCCTACC	[33, 63]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	TGATTGGTGTGAGCATTCCCGTAAAAGCGTAG	[33, 79]
TCGTATGATCATAGGA	ACTTGCCTAGACACGT	[35, 31]
TCAAACTAAATACAGCGTACCGCCAGTTCTTGTCCTTATTGGCGATCG	TTGGAAGGAGGTGATTGGGTGATCGACATGGTTGTTCCTGCTTAACGG	[35, 63]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	ACTTCTGAGCTTTTCGGGATACGTTGGAACAC	[35, 79]
GTATGATTTTTTTTTT	TGTTCGAATTTTTTTT	[0, 23]
CTATCTTCATAGGACACAACAGTTAACCGTGACCAGCCGCGCGCAGGG	ATGGTACGTCGCTTGACTGACGAGTTTACGCTCTGTGAGGACCTTTCC	[0, 55]
TTTTTTTTTCCGGTTTAGCGAATTTATGCTCTCGCACGGCTTAATTTG	TTTTTTTTGAGCCAAGGGGTCAAGCAACTGCCCAACCAGAAAGTGGTC	[0, 87]
CACCGTTCTTTTTTTT	ACTGTGATTTTTTTTT	[2, 23]
ACAGGCGGGTGCGTTGAGTTCGTAAAGTGTGTAAAGACTGTGCGAGAT	GGAGAGCATTCATCGAGGAGTTTGAACCACTCTCTCGAAACGATCGAT	[2, 55]
TTTTTTTTTACTCGATCACTGAGTTAAGCGTTGAGTCGGCCTGACAGA	TTTTTTTTACCTCCTCTCCAACATGGGGATGATTGGGATTGGCTAGAA	[2, 87]
TAGCCCGGTTTTTTTT	AGCCAATCTTTTTTTT	[4, 23]
GTGGCTGGGCGGCCATATTTCCGCGGCTTCATGAGGGAACTTCCAGCT	AAATGCCAACTTTCCCTTGGACCTACTCCCTCGAGTGGTGCTTGGAGG	[4, 55]
TTTTTTTTCGCTCAGCGTATTAGCACAGCTAATAGCTCCGGGGGATGA	TTTTTTTTCGCATCGATGAGAGCATACCCCAGGTTCCCCTATCGCACT	[4, 87]
ACACTGACTTTTTTTTTTTTTTTTGTTCCGGTTCAGAAACCCCGCAAC	AGAGGGACTTTTTTTTTTTTTTTCACCTTGTACGCTTAGCCTATCAC	[6, 23]
CAGAGCCGTCGCGATCCTTACATCGAATATGG	CTTGGATGTACAGGCTCTTTCCGTAACCAACG	[6, 39]
CCAGGTCACTAGAAATAACAGCATCTCCCGGTGCATCAGACAGTCTCT	TCTGCCTACTAGCTTGCCGAAAAAGTTACCCCAAAGAGCTCAAAGCGT	[6, 55]

TTCTTAAACCATTATAGGTCAGAAGCCCCCTA	ATGGATGCACCGAAACCAACACAACCAAGCTT	[6, 71]
TTTTTTTTTGCGATCAGGGGTCACTTTTTTTT	TTTTTTTCTGTGGTCATCGGACTTTTTTTTT	[6, 87]
GGCATCACTTTTTTTTTTTTTTTTTGAAAAGGCGACATGAATACTCTGA	AGTCTACGTTTTTTTTTTTTTTTTTGGGTAGAAGCCTTTCGTCACCTTT	[8, 23]
CACCAGAAACCCTTTTGACAGGGACCACCGCA	GGATTAGCTTTGGCAGGGTATGCCACACACAA	[8, 39]
TATGATTGAGTTTTGGATGAACACCCCGCTGCGCACCGAAAAAAGCCC	CTCCATCGCCTGTCAGTGCCACTCAACGTGATCTGACCTGAGAGTGTC	[8, 55]
AGCTTGGGGTGGGACGCCCCCAAGACGCTTAG	ATACCAGGATCCGTTTGCACTCATTGGAGGAG	[8, 71]
TTTTTTTTTTATGCTAGGGCTGATTTTTTTTT	TTTTTTTTCAAGGCCAGGGTCTATTTTTTTT	[8, 87]
AGATGTTCTTTTTTTTTTTTTTTTGAGCCACTTAACCTGGCCATCCCT	CACCTAGTTTTTTTTTTTTTTTTGATGCACTTGACGTTATGGTTTGA	[10, 23]
CGTTTGTCCAACCAAACTTTAGGCTGGGTAAG	TCGACCACTAACAACAGTTGTGGAGTAACGAG	[10, 39]
ATAATAGTAGGATATGAAGTAAACTTGAGACTACCCGAGCGAGATGCG	GTGTCTGGACAGCATCCCCCTGATGTACAACGTGTTCCAGCAACGTCA	[10, 55]
ATCGACTAATAGCCAGCGAGTCGTGTATAGCG	GGTTGCCTTCTGTGTTTTCCCCATGTGGAGAC	[10, 71]
TTTTTTTTGAAGCGTAGATACTTTTTTTTTTT	TTTTTTTTGGTTGGATCAAAGCTGTTTTTTTT	[10, 87]
ATTACCGTTTTTTTTTTTTTTTTTGGGGTCGT	TGCTTGCTTTTTTTTTTTTTTTTTGGGATCAG	[12, 23]
GCCGGAGTCACCCCCGATCAGTTAATATTAAG	TTGCTCTCCAAACGTATTCCGGTAAGGTGAGA	[12, 39]
AACAGTCCCCAAGGAGCTCGACGGTCAGTCGT	CAGCTCATGTGACCACACCAGAAGACCCAGTC	[12, 55]
CCAAGTCACTATGTAGGCGGAACCTGTTTCAC	AGGCTAGGACCACTTTCGAGGGAGATGCTGAA	[12, 71]
TTTTTTTTAACCTCGTGCGGGCCGTTTTTTTT	TTTTTTTAAGCACTCCCTCTCCTTTTTTTT	[12, 87]
GTCGCTGGTTTTTTTTTTTTTTTTAACATCTC	AACGCTTATTTTTTTTTTTTTTCTTCAGCT	[14, 23]
CACGCGAGCAGAAGTGGTCCAACATGATAATC	GTCAAGGTGACGATTGAGCAGACATACCGAAT	[14, 39]
TTAGTGAGAGACGTGCCTTTACGCGCTTGAAC	GATTCATGCGAAAACGGCAAACCGGTTGTTTG	[14, 55]
AGTTTCCTGAAGGAGTCTAACGATGTGGGAGG	GTTCTAGCGACTACGGGGACCTGGGAAGTTTG	[14, 71]
TTTTTTTTGCCCCTCGCATCTTTTTTTTTTT	TTTTTTTATGGAGTGTCGGTCAGTTTTTTTT	[14, 87]
GGCGCATATTTTTTTTTTTTTTTTCCTAGCTA	TTCGAAGCTTTTTTTTTTTTTTTTCATCAGG	[16, 23]
AACTACTGGGATATCGGAACTTGAATCATGGT	TCACACAGCTCTGCTCTATCAGGAAGACATGC	[16, 39]
AATTCTCACTAATCACCCATATCCAGGTCAGG	GCCTGTCCGGGGACTTATGGTCGAATCCTTTG	[16, 55]
TGGAGTTACTGTTTACAGATTGTAGCTGTGAC	GAATGTGAGTATCAATGGAGTCTGTTTCACAG	[16, 71]
TTTTTTTTGTTTCCTTATCCTTCCTTTTTTTT	TTTTTTTTCTATGCACTGTCAGGTTTTTTTTT	[16, 87]
AGCTGTTCTTTTTTTTTTTTTTTTTGATGTCCG	AGTCAAGGTTTTTTTTTTTTTTTTTAATGCCA	[18, 23]
TCATCCGGCTGCTCTACGAATCAAAAATTGTG	TATGAGCCGTGGTACCCCTTTTCGCTGTCTCC	[18, 39]
TGACGATCTTCATAACGATAGCTGTGAGCTTT	AATGTCGATACCCCCAAACTCGGTTCCAGATG	[18, 55]
GTATTACTTATCCCAAGTGCAGCTGCGCGCCT	AGTCGAGCAGGAGGTGAAGGCTGTCTACCACA	[18, 71]
TTTTTTTTAGGTAGAGGTTTGAACTTTTTTTT	TTTTTTTTCACCGTTTCACCATGTTTTTTTT	[18, 87]
CATAGGTATTTTTTTTTTTTTTTTGCTCGACA	CCAGAGGTTTTTTTTTTTTTTTTGCTTTGCT	[20, 23]
GGTACACGTCCCCGTCTAATTAGTACGGCCAC	CATGAGGCAACTCGTTTACGAGCAGAGTGAAG	[20, 39]
GCTATGCTTATTTCGATCTTTCTCGTATATCA	TCTTCGGATTTACGCTCCCAAACTGTTGCCTT	[20, 55]
TAGGTTAACGCAGGGTGAGTGCAACTAATCCC	AGTCCACAACACACGATCATGAACTCGCCTTA	[20, 71]
TTTTTTTTCCAAGGCATCACATTATTTTTTTT	TTTTTTTTTGCACATCCTTAGCCATTTTTTTT	[20, 87]
GTTATTTCTTTTTTTTTTTTTTTTGGAAGGAC	CGAAAACATTTTTTTTTTTTTTTTGTACTGCT	[22, 23]
CGAGGGTTTTCTGGTCGGGCACTCATCGGGTT	GGGAGGAGACTGAGGTACTACTGGGCTAGTGG	[22, 39]
CGGAACAGCTTGCCTCCTAATATATCGTTCGA	GTACAGTCATTGGGATTTCGACATCACGGAAC	[22, 55]
AGGTGGCCGCCTGTTTAGTACGACACAACATA	ACTCGAGAGTTTTCCGCAAGGCTACCTAGGTG	[22, 71]
TTTTTTTTCCCGAGCCCCCAGTGATTTTTTTT	TTTTTTTTCTACTGTCTGGGTACGTTTTTTTT	[22, 87]
GAGGCGGCTTTTTTTTTTTTTTTTTAGGAGAAA	CAGGTTCGTTTTTTTTTTTTTTTTGTTGCTC	[24, 23]
CTTGACGAGTATAACCTCATACGACAAGAACTGGCGGTACGCTGTATT	AGTGTGGAATGCTGTTAGGCAAGTACCATGTCGATCACCCAATCACCT	[24, 39]
TCCCACGTAAAGCAGGGACCATAGATCAGCTA	AGGGAACAGGAGGTCAAGGCCTTTTCGAGGTA	[24, 55]
TCAGACGCTCGGGCACTAGTTTGACAAACATTGGAATGCATTTTTTTT	CTCCTCCAAGCTGAACCCTTCCAACGAAAAGCTCAGAAGTTTTTTTTT	[24, 71]
TTTTTTTTACCATACCCCTCTCCCTTTTTTTT	TTTTTTTTCCGGTTGAGGAACCAGTTTTTTTT	[24, 87]
CGTGCACATTTTTTTTTTTTTTTTTACGCTTAC	ACTTGGCTTTTTTTTTTTTTTTTTGCGTAGTC	[26, 23]
AATGCACAATCCCTGAACATGTAATCTAGCAGATCTGGTCATTGAAAG	CCGAAATCTCAATGCAGGGGACTATCTCTTCGTTCCAGACCACGAGAT	[26, 39]
AGTATAGTTCACGTGGCTCGTGCTTCGAGAAA	GAGGAGGTCCATGTACGCACACACTCCCTTCA	[26, 55]
CACTTGAGAGTGCGTAGTGTCAAGGGAAGTTCAGCTCTGTTTTTTTTT	ATATGGAGGTCGAACTCCCATGGAATGCTCACACCAATCATTTTTTTT	[26, 71]
TTTTTTTTACTGTTAGCTACCGCTTTTTTTTT	TTTTTTTCTGTCCCGCTCCTTGGTTTTTTTT	[26, 87]
TGCCCATGTTTTTTTTTTTTTTTTTGCGTATCC	CATCGCCATTTTTTTTTTTTTTTTCAGTGTCG	[28, 23]
ATGTAGCAAGCTTTATTATGGTTTGGAGCACTAATGATTATGGGGCAC	GGTCAATGTACCCCAACGTTCAACAGAGTACCCCTAGAGGGCTTGGAA	[28, 39]
ATATCAAGAGAAACTGGTCGCATATTACTTCG	TTTCCCACGTCTTTGGAAATCCCCGAAACCCT	[28, 55]
GCAATTGCGTCCCTCACAGCCCATTACCCACAGGTACACCTTTTTTTT	TCCCCTCATTGTCAGGCAGGATGACACAAGTTGCAGGATTTTTTTTTT	[28, 71]
TTTTTTTTGCAACCTACCTATCTTTTTTTTTT	TTTTTTTTTCGGCTAAGGTATGGATTTTTTTT	[28, 87]
TAACTAAGATCCGAATGACGAGGTTTTTTTTTTTTTTTTTTATGTGAT	CAAGACCCTCGAAGGATGGACCACTTTTTTTTTTTTTTTTTAGTCAAGC	[30, 39]
CTCGGCCCTTCCGCCCCTAATGAACTATGAACCCTACAATGTGACACG	CAGGTACCCGTTGAGTCCGTACCTCAAAGCTCATGTTCCATAGGTTCG	[30, 71]
TTTTTTTTGCCCAGCGCAGGCTACTTTTTTTT	TTTTTTTTCACAGTTCCACTGGAGTTTTTTTT	[30, 87]
TTTTTTTTGCCCTCAG	TTTTTTTCAAACCAA	[31, 8]
TGGTGGTTGCCGATCTCGCCCACTTTTTTTTTTTTTTTTTTGTTATGGA	GTACTGCTCACTGAGGACGAAAAGTTTTTTTTTTTTTTTTTAACACCCC	[32, 39]
CGACCATGGGTTGGTTACTGTACGGAGGATGTCGGTGAGATTCCCCAG	TTACGGGACAGGACTCGTAGAGGACTACGGTTGAGGTGAGTGAATCGG	[32, 71]
TTTTTTTTCAGTAGAATCCAAACCTTTTTTTT	TTTTTTTTCTACGCTTCGGTTTTGTTTTTTTT	[32, 87]
TTTTTTTTTCACTTGC	TTTTTTTTCAGTTCAA	[33, 8]
AATAAGGAGACCAAGTCATATATTTTTTTTTTTTTTTTTTTGCCGAGG	CAGGAACAGTACACACTAGGACTCTTTTTTTTTTTTTTTTTATGTTGGG	[34, 39]
GCGGCCATTGGGTGTTTACTAAAACGATCGCCAGCTATGGTTGCTTTA	ACGTATCCGGTAGGGGTATGCAAACCGTTAAGTCCCAGATCTGACAGA	[34, 71]
TTTTTTTTTAAGCCACGTGGGTAATTTTTTTT	TTTTTTTTGTGTTCCATGTCTCTTTTTTTTT	[34, 87]
TTTTTTTTTCCTATGA	TTTTTTTTACGTGTCT	[35, 8]

Table S4. Sequences of 4H × 12H × 120B (three sets of random sequences).

Sequence-1	Sequence-2	Sequence-3	5' end
CCAGGTTATTTTTTTTTTTTTTTTTAGTGGCTCAATCATACTCACGGTT	GTAAGATATTTTTTTTTTTTTTTCTATAGGGCACATTAGAGTGTTGC	AAGCATGGTTTTTTTTTTTTTTTCCCACGTCCCAGTCTGACCTCTAT	[1, 23]
AACTGTTGTGTCCTATGTTTACTTAGGGATGG	ACATGATCGATGGGAAGCTAGGAGAGCTAGCT	TACTCGTCAGAATAGAGTTGTGCCCCAAAGTT	[1, 39]
TACGAACTCAACGCACGCTCGGGTAGTCTCAAGAAGATAGAGAGCATA	TCACAGTGGTTGCTATGCAGTAAGTCTTTCAAAGGATCTCAGAGGTTC	GATGCTGGAAACCGGATAACCTAAAAAGGAAAGCAGTGTGTCTGTCTC	[1, 55]
AATTCGCTAAACCGGAAAAGTATCCGCATCTC	ATTCTGACCTATATACAAATAAACTAACGTGA	CCATAAGACGAACCACCCGCGGGCCCACGTGG	[1, 71]
ACTCAGTGATCGAGTATTCATGTCGCCTTTTCGAACGGTGACACACTT	CTAGTATACGCTCCGAGCGCGCAGAACGACAAACGAATCCTCGTGGAA	AACTCTAGTACTCCATTCTGTCCTCGCACCACCGTACTGACTGGCCAC	[1, 87]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	CCCATGCAGAAAGATAAAGTCCGTGTCGGTAG	AGATACAATCTACTACTTCGTACACAACTATT	[1, 103]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTAATCAGCCCGGGCTTTT	GCGATGGTGATGGGAAATAGGTAACTGGGTTTGATATTTCAAGGACAC	CTGACGACCACCTGCAGAAAAAGAGGATACCTGGCGCCGGACTCTGAA	[1, 119]
GCTAATACGCTGAGCGATGCTGTTGTTGCGGG	CGCCCTGACGTAGAACAAGCAGAGCATTTTGA	TCCGGTGACTTGGCGAATTTAAATGCTCCTCA	[1, 135]
GTTTCTGAACCGGAACCCGGGCTATTTTTTTTTTTTTTTTTATGAAGCC	TCATTAGGGTCCACCGCGGCGATTTTTTTTTTTTTTTTTTAATTTGT	GTACCCTAAGACTCTATTTATCAATTTTTTTTTTTTTTTTCCTTGATC	[3, 39]
GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGT	TGCCTGCCGGTGTGAGCGTGGGTCTTAGAGTTGACTGCCTCATTAATA	GCCAAGTCTATGGACGATAGCTGAGGATGAAAGACGACGAGTTCCTCA	[3, 71]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	TCCGCATAAGGATTAACAGTGTCATCGGTACAGCCAGGGTTATCCGGT	GGCCCGAGTCTATTGGTAGAACCCTGAGAGGTTTATGTCTCAGGCGTA	[3, 103]
GGATATGGAGCTGGAACGGCTCTGATTTCTAGTGACCTGGTATAATGG	CGACATCGACCGTTCACGTAATGTTCCACTCGCAATCCATTACGGACA	TATTGAAAAGGAACCCGTTTCGTCTTCCCAGTCCCAGATAAAGATGTA	[3, 135]
TTTTTTTTCGGAGCTA	TTTTTTTTGTATCATC	TTTTTTTTCAGACAAG	[4, 8]
CCTGACCTTTTTTTTTTTTTTTTTTCAATCATA	CGAGTGTATTTTTTTTTTTTTTTTCGACACG	CACTAGTCTTTTTTTTTTTTTTTTCGCTCCGG	[5, 23]
CGTCCCACGGAAGGATTCATCCCCTTTAAGAATGATCGCACAGTCTTT	GTGATAGATCCTCGCACCCATTAAAAGCCAAGCGGTCACTTCCCAGTA	GCTTATAGTGCCTCATGACGTTAGTCGGCGCCTGGCATTGGTAGGCCG	[5, 39]
GAGATGTTGAACATCTTTTGGTTGGCGTAAAG	CTTATCTATAGTGCTAGTAGTTTCCTCCGAAA	ACGTGTTCGCGTGACCTACAGAGGAACGAGGT	[5, 55]
ATCTCGCATTCTGGTGCCAAAACTGCCGACTCGTTCAAGCACTATTAT	CCCTTATCAGCAGTAATGTGAGGGAGTACCAGTGCCAAAATGACTTC	GAATACAAAACCTCGAACTCGTCCCCACCGGGCAGGATAGAAGGAGTA	[5, 71]
CTGGCTATAAAAGATGTCTGTCAGCCCAAGCT	AATGTAAATGTCTCCCCTCCCATCACTGTTAC	CAGAGTACAAGCGGTCTGCTCCTCCTACTTTT	[5, 87]
TAGCATAAGCGGCTGGACGACCCCGCCGTGCGACGACTGACCGTCGAG	CCGCGCTGGAATCATAACCCGAAAAAGGGCCAGGAGTGTTTACATCTC	GACGTCAGACTGTCTTGACAGAAGAAGGGCCAAGCCATTGTCGGTCGA	[5, 103]
CCCTGCGCGACAAACGCATATCCTCGGCCCGC	GCTCGTCCTCACCATAATCCACCAAAGGTAAT	TGAAGTCCCATGACTCTGACGCCCCGAGTTTG	[5, 119]
CAAATTAATAGTCGATTACGCTTCGCCTAAAG	GTGAAACTCAATGATATGACGGATGTGCTCTT	CTGTATGGTGCTCGAGGATTTCAAAAGGAGAA	[5, 135]
GTCCTTCCTTTTTTTT	GAGCGGTGTTTTTTTT	CATCACCATTTTTTTT	[7, 23]
ACGGTAATCGGGGGTGACTCCGGCCTCCTTGGTATATTAGCTTACCCA	TTAAGAGCCTCGCTTCACTGAGGCGAGTTAACTTATGTTCTAACCTGC	TCTATTATTTACTCACTCTGCTTAGTGTATTGTACGAAACAAACTGAA	[7, 55]
CTCGCGTGGCACGTCTACGACTCGTCGAACGAGGACTGTTCTACATAG	GCGTATGCTGAAATGGAACCCTCCTACGTTTTGTAATGCGAAACCAGG	CGCGCGCTCTGGAGAGAAGGGTCGCATCGGTCATTATGACTGTCATAT	[7, 87]
TGACTTGGACGAGGTTTCACTGGGCGCTATACAGGAAACTCGAGGGGC	AGCCTATTCATCAAGGGAAAGATCATAACGTTGGGATTTGTTCCTGCCT	TCGAACGCTGTCTAGTTACAATGGGAAGCAATTGGCACTCCCCTAATC	[7, 119]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	AGCTCATTCTCGGTCCAATTCGAGCATGTCCC	ACCCGCTAGGTGGGCTGGTCTTAGGTCAATTC	[7, 135]
GAGAAAGATTTTTTTTTTTTTTTTTTGCGGTGGCAGTAGTTGTGATTAG	CGACCTCTTTTTTTTTTTTTTTTTAGATCCCAATGTTAGGAGCTAACA	GGGGGTGGTTTTTTTTTTTTTTTTACAAATGCGAGTTATCTTGCGGTC	[9, 23]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	GACCCGACACTCGCCTGTTTCCGTGCGTTCTT	CGGGGGCTCTGAAGTCGTGCAGCCGTCGTGAT	[9, 39]
TAATGTGACTAAGCGTTAACTCCAAAGGAAACCAGCTATCCCATATTC	AGCCAGACTTTTACGGCGGTAGGTGTAAGACCTTCAGCGGCAACCCGTT	GAACTAACCCCAAATTGACTTAGGCCGGATGGAATCGGAAAATTTGTA	[9, 55]
GATGTAAGCGGACATCTATGCGCCCGATATCC	CAATCCCTAGCCGTTCAAGAATGGTCTACATC	CACCTCTCGCTTGCCATGACTGTAAAAGGGAA	[9, 71]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	GTAATGAAGGATAGATTTCTAGCCACTGGCACGCTGGTAATCTGGGCT	CAGAGAGTGATACCCTCAACCAGGGCCTGCAAAAGAACAGTTCCGTGC	[9, 87]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	ATTAAGCTGTGGAATGTTGTTGAACATACTCC	GACTAAAGTTACGCCTCTCGCTTTTTGCTCTT	[9, 103]
TACCTATGGACGGGGATATGCGACACCATGATCCGGATGAGTTATGAA	GTCCTATCCCTTACTAGCGGTACACACCAAGAACCAATGTAAGCAGAT	CGCTTTTAACGTAAGGACAAAAATTGGACGTACAGTGATAGGTCTTCG	[9, 119]
GATCGTCATTGGGATATACAATCTCGAAGTAA	GGATCTACCGGCATGCCTCCTGACCCTTTACA	AGTGGGTTTTGGAGTGTTTCTTTTTCTCGGTA	[9, 135]
AGCATAGCACCCTGCGAAGATAGGTTTTTTTTTTTTTTTTGTCACAGC	CTCCGAAATGGAAGTGAAACTACTTTTTTTTTTTTTTTTTTTAGGTGA	CTTTAGATTTTCGAGGGCGCATAGTTTTTTTTTTTTTTTTACCGGAAT	[11, 39]
AGTAATACCTCTACCTTGTTGGACGTAAGCGTGAAATAACGACCAGAA	TAATCTCATTTTTAACTGTTATATGATATTTGGGGTTATACACCGTGT	TCCCTTACTGTTCTGATCTTCACGGGAGGTGCTCCCCCATAGGAAACT	[11, 71]
AGCACGAGGATTATCACGTGTACCTCGAAATAATCGTTAGTTTCTCGA	AGCTTCGCAATCTTCTGCTGCCTCTAGGGGGGTTTGTCCATGCCTGTA	GAGCGAGAACCATTACTTTCTTATTTTAGTGCAAGTCAAGATGTTCTC	[11, 103]
CTGTTCCGAAACAGGCAGCGGTAGCCTCCCACTTAACCTATGCCTTGG	CAATAGTCGTGACCGAGCGCTAGTCACGCGAAGGGCCGACAATCGGCG	GGAACACAAAGGTGTCAATCTTTGTTATGGTGAGGACTTGTAGCGATG	[11, 135]
TTTTTTTTTAACTGAT	TTTTTTTTCACCTGTA	TTTTTTTTACAAGAAG	[12, 8]
TTTCTCCTTTTTTTTTTTTTTTTTTGGTTCCGC	TACTGGAATTTTTTTTTTTTTTTTTGTTAAGC	GGCTATCTTTTTTTTTTTTTTTTTCCTTTGAC	[13, 23]
TAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAGGGGAGAGG	GTAAATAACGGCAGTTGTGAAAGGAGTGGCTTCCTAGGTGAACGTGGG	ATGGGGTTAGGACTGGGTGTAATCTCCATTCAGTTTTACGCGTTGAAT	[13, 39]
GTGAAACAGGCCACCTGGCTCGGGGAGTGCCC	AAACTGGTTTGGTATATCCTGATACGCGAGCA	GCCTGTGCCCTATGTCCTGCTTCGCTGTCCGT	[13, 55]
CCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTTCCAACCGA	GGGGCGTCGAAGGCTGTCTTTGTGTGGGTATTGAAATCCCGTCACCGA	GGTCAGTCCTTGAATATGCATCAATCAGATCCCGCTTCTCACCCAGAG	[13, 71]
AACCCGATTGTGCATTCCACGTGAGTCGTACT	GGTTTTCTTAGACTTTGACTCAGACGGATATG	GTTAACCATCTAAGGCAGGGTGTAACTTAGCG	[13, 87]
TAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGTTTACCCAC	CTGTAGACGGTCGGCGTCCCTTCTCCCGGATTTCAGGTCGGCACCGATA	TCTATCTGTTCGGCTCTCAGCACTCAGTGGTACTTGAGCATTTCAAAA	[13, 103]
TATGTTGTCTCAAGTGCTAACAGTACTAATTA	TGATATGTCGTTCCTTAAGGCCAAACGCGTTT	GAAGAATTAGCTCCATTTAGAATCGCCATACT	[13, 119]
TCCATAACTGTGCACGTCAGGGATTCTCACCG	TAATGCCGACATGGAACGTTATAGTTTGCCAA	GTTGCTCGCAGCTTCGAAATTGCACGATACCA	[13, 135]
GTGGCCGTTTTTTTTT	GTTTACCCTTTTTTTT	AATGAGAATTTTTTTT	[15, 23]
TGCTACATCAGTTTCTTTGCACTCCTGGGGAAACTATACTTACGCACT	GCTCCCCGCACGGGTTTTGTACCCACGCGGTTCACACGAATTCGGGGG	AAGCCAATCATGCCATCGGCGCATGGTCGACGACAATGACGAAATCGC	[15, 55]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGCATTGTAGGCACAATTT	CGACCGCTCTAGATCTGTGTGGCACCTGTTAGCGCGGTGACATGACGG	GGGTTACTATATTGTATCAGTGAAGCGACGAAACGGCCCGTGCCGTAT	[15, 87]
TTGATTCGATCACATACATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	CCATCGCTGATAAAGGGCTCTTAACAACACTATCAACTCGTACACACT	GTGAATTTTGCGCCCATAGGCCCCCATTGACGCCGAGCCAGTCTCGCC	[15, 119]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	CGTCACTAGTCGCCCGAATCAAGTAGGGCGAA	CCCGCAAGTAGTCTCGGAACCTTTACTTACCA	[15, 135]
ACCTCGTCTTTTTTTTTTTTTTTTTATTCGGATAAACCATACTGAGGGC	TACCGCAATTTTTTTTTTTTTTTTATGCCCCGAACAACGTGTCTCATT	CGCGTGCTGTTTTTTTTTTTTTTTTTACGCCGCCTTATCGCATTATTCCT	[17, 23]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	CGACATAACTAGCCGTGTGATAGGCTCTCAGC	GAGTTATTAACCTTCTCGGTCAGTACTTCGGC	[17, 39]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAAATGGGCTGGTGCCCCA	AACTGTGTCTGAGGCCTTGGCCCTCCTCGCCTTCGGACGTTACACGCG	GTTGCGATAATAGCCCAGTGTAGTGTGACACCGCTGGGACGCTCATAT	[17, 55]
CGTACAGTAACCAACCGGTGTACCTGTGGGTA	AACTTAAAGATCGACGACGAGATTGTATTCGT	AGCCCGATCCGAGGCTGGAGGGCTACTTAAAG	[17, 71]
GGGCCGAGCGCTGGGCTTACATGTGCAAGTGAAATATATGACTTGGTC	CAGGAGTAACCCGACCCTCCCTGTCCTGTTGGATTTTCGGATTTTGTT	GTACAGCTAATGAGAGAGGCGGATCTCTTTGAAGGGAGTTCCCGGCGA	[17, 87]
GACCAGATCTGCTAGAAACCACCAACATCCTC	AGAAGTTTAACTGCAACAGAGCACTACACGCC	GCTGTTTGGATTTACGCAAAGTGACGGCCCGT	[17, 103]
CTTGACACCTTTCAATTTTTAGTAAACACCCAACAGAGCTGAACTTCC	GTCTTGACATCAAACAAAGGCTGTTTAGAGTAAAGCGGATTCGAGCGT	GCCCGTGAGCGCTTTTCCGGCTGTTACGACGGGTCACATGCGCGATTC	[17, 119]
CATGGTCGTTCTACTGTCGTATGATCATAGGA	CGCAGGGGATGGGCAGCGGTTAAGGGCAACTG	TGTCGTGCGCGGTTTAATAGTAACCATATCCG	[17, 135]
TCAAACTAAATACAGCGTACCGCCTTTTTTTTTTTTTTTTTAGTTCTTG	TTGTAACTTAATCCATCTTAATGATTTTTTTTTTTTTCCCGCTTG	TCGCTGAACCGAGGCCCCCATTCTTTTTTTTTTTTTTTTTCAAATAA	[19, 39]
TCCTTATTGGCGATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	GAGTAAGGACATTACACTCAGTGATTCCAGAGCGTTAACACAGCGGAGT	CCTGAATAGCTGATCTTGAGGCTCTCATTTCTGGCGTTTAACAGGCAT	[19, 71]
TTAAGACGGCCGGTGTAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	TCCTTGTTCCGACCTAAAGGAGAGGGCGACTGTAGACAGGTATTGCCG	ATGCGGCTAGCTCGGGGAGAAACAAAAGGAGAGATTTTGCCATAGTGA	[19, 103]
ACGCGGAACGTAATGGCAGAAAGTCTATACCCGACAAAAACAGATTTG	ACGTAGGCACTCAACTCGGTGAAACCAAGATTGTTATAGAAGAATACA	GAGTCAAGAACAGTAATGTGCTCCACTGCCAACAAGGTCGCGAAAGACT	[19, 135]
TTTTTTTTACCGGGG	TTTTTTTTCATTCCAA	TTTTTTTTCAGGCGC	[20, 8]
TGAACAGCTTTTTTTTTTTTTTTTTACGTGCGG	TATCGAGATTTTTTTTTTTTTTTTCCACACA	TGTGTTAGTTTTTTTTTTTTTTTTAAAGTGGC	[21, 23]
CTTCTCCTGTATCGCCTTGTGTATTATACTCTTGCGGGGGGGTCGAGC	AGCAAAGATCCTTGGCATAGTTAGTGACTAGGTTTAGTTTCGCGTTAG	GTGCTTGTAAGCAGCGCGCCTGTATGACTAGACTGCCGACCTGAAAAC	[21, 39]
GCTCCACTGTAGTGGCCGGCCATCGTGGACTA	ATGTTAACTTATGCATTGCGGTACAACCGATA	GGAAACATGGCTTATGTGTCGCTTCTGTCCTG	[21, 55]

GAAAGCGCCGGCAATCTGAATATCGCTACCTCCGATACGCGAACCAGA	ACCTGGTGTAAAGCGAGTAACGACGACCAACTCTATGAAAGGCGCACT	ATAGTGATGACCCGGCCCAGTGAAGCACTCGACTCAACATAGGATGAG	[21, 71]
ACCATTTAAGAGTAGGGGCAGTGCTCAGCCAA	TAATTCTGGGTTAAGTTTGACATCTAAATTAA	CCAATCTGGTCTGAACAGGAGGCACGTAACCA	[21, 87]
ACAGTGGGACATCTCGGAAAGGTGTCCCAAGTGCAAGTAAAACAAGGAA	CCACCTGCCAGCGCAAAAGGCCTCTAGGCAGGGTACTGCTTCCATACT	TCCCTCGCAACAACCCGCACACAGAACCCTAATGCGGACAAGGCACCA	[21, 103]
TTATGAGATCATGTGGGATCCTAAAGTTTCTG	AGACGGGAGAAGGACTTGCACCAACTAAAGAC	TGTAAAAACCTGCTGAGCAGACCTAGCGGCTC	[21, 119]
GTAGACCTCGTAGGCTAGAGCGGTGATATCCA	GGGGTTGAGAGGGCTGTGCAAAGAGACCTTCC	ACCGACAACTTCATTCCACGGAGAACGGTCTT	[21, 135]
CGGTACATTTTTTTTT	TCACATTTTTTTTTT	CCTCTGTGTTTTTTTT	[23, 23]
TCGTTTACTGCACGGAACGAGAGTGCTGGCATAAGCAAGAGAAACCTA	TTATTGGGGGTGAAGACTAGAACGTTGCCACCGTGTGACCATAGCGCT	AGCCAGCACGCTCTTGTACGCCACCCATAACTGTGGCTACAACGGCGC	[23, 55]
ACTTGGGGACTAAGATCGTTGCGAATTTTCGCGCGATTCGCATGTAGC	CAAGGGATATCGGCTCCTTCGGATTCTCTGGCCTTACACTTTCGGGAG	TACACTCTTCGTCGTATGTCACGGACTGGGCTCCTCCAGACGCGTGCC	[23, 87]
CGAACGAGATCGTCCTAGACGACGGATCTCCTGCATGCCGGTAGCACC	AAAGTAATATGGGTTGCACTAAACTATAGCAAGATCACAAATATGGCA	CGCGCTTAACAAAGGGGTGGACAAGATTAATTCATTGGTGACCTGTTG	[23, 119]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	ACAAAGTCTGGGAGGGCCTCAACATCTTGAAT	AAGACCAACCGCAACCTTGTTGGCTATGTTCC	[23, 135]
CAGCTTGATTTTTTTTTTTTTTTTTCGCAAGACGCTAATCACTGGGCAG	GATCCTGATTTTTTTTTTTTTTTTTGAGATTACTGATATGGTCCAAAAAT	AACAATTTTTTTTTTTTTTTTTTTTGTGTTAGCTCGAGCCGCCCTTCAG	[25, 23]
GGTCCTAGGTTGCAGAAACCTACCCCCTAAGC	GTGCAACGGGAAACACTGGGCCCGGGGTTTGT	TGTCGACTCCCTAACCTGAGCTGGCCGCTACA	[25, 39]
AGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	TGTTTACTGGTACAATTCTTACACGGGTAGGAGCGCAGTTTCCTTGAT	GTACCGCGGCACGTTTAATGGTAGTATGATCTGGATCCAATGTTAGCG	[25, 55]
GGCCTTGACATGACATTCTCCCACCCGTCCAA	AGGATAAGGCAGTGACTGTAATATTGGGTACT	GCAACTCAGCCCAGGGTTACCCGGTTATACAA	[25, 71]
CACCAGCAGGATGTCGAGCCCACAACTTGACAGTAGTACAGTATCTTT	ATAACCATCCTGGTGAAACGGGATGGGAAGGGGGCGTAGGGGCCGCAC	GGTAGCCAACGGCTAACTGGTAACCCGTGCCCTAGAATGATTGTGGGT	[25, 87]
TTTCATGGCGGCGATGTCGCCGTTTGCTCGCG	TGGACCACGCGCTGTGACAGGCTTCGTCGCCG	AGTCATCCCCCTAACTAAAGTGTGTGAGTTCG	[25, 103]
TGCGTACGGCTTTTATATAGCGTAGACCGGACAACCCCGTAAATCGTA	AAATGTAGCCATGAATTTACAGCGACGCCTCGTTCTGTCAATGTCTAC	AGACGTCCGATGTAAGAACACGCTAAACCAAGCAGCGGAGTGCGGTTA	[25, 119]
AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGT	ATCCGACCTGGGGGGATTATGAAAGGCGGGTG	CGGAACCCCTCTACGTTGAGCGCGTGTCGGCG	[25, 135]
GGGACTGGATCAGATGTTCAAGTATTTTTTTTTTTTTTTTTTCGGTGA	AAAACCAGCCCGACAACTCAATCATTTTTTTTTTTTTTTTTGCTCTCC	CTCCGAGGCAACAACATTCTAATGTTTTTTTTTTTTTTTTCCCCGGCC	[27, 39]
CCTCCCCGCATTACAACGCGCTTACCAAGTAACGTATGTACGACGCGA	TTACGAAAAGCAATCGTCGTAATGTTCAATATAAATGGTTGTATATTG	GCTTTACGACGTGACCCAGACGCGTACTTGCCATTTTCGGGTAGAAGT	[27, 71]
TGCGAGTGAACGGGTGGATGAATTTCGTTCGGGGCCAGGCGATCTAAG	GAGTGTGTATCGGTGTGGGGTACGGTGAGCCCACAGTTGTGCAAATGA	TTTGCGTGTAATCACGAGGAGTCAAAGGGCTGCCAAATAGTAACTTTA	[27, 103]
TCTGGCGCGTGAGGACACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	TCCCCAGCCTCCAGGGCCTTCGTCTGTGAGGGTTATTGGAGATGTCGG	CTATATGGGAGCGAAATTCGACATAAACCTCGGCGTTGTGTGTATCCC	[27, 135]
TTTTTTTTATAGCATC	TTTTTTTTACTTCTTT	TTTTTTTTTAGCCATT	[28, 8]
GACACTACTTTTTTTTTTTTTTTTTGACCTGCT	GCCTGGAATTTTTTTTTTTTTTTTGGACCATG	AGTTACCGTTTTTTTTTTTTTTTTTGTGGATAA	[29, 23]
TTTCGACACGGACTGCATTCTGGACAGTAACTGCATTAACTACGTGCT	CTCGCAGTTTCATACTGGTCTCTAAAGCCGTGAGAGGACCGTATGTTT	CGCGCCTGACCCAATATTTCGGCACTCCCTAAATCACCACCCGATTCA	[29, 39]
CCCAACATAAGTGACGTCCTCAGCAGTTGAAA	TGGATACTTTTCGGCCTCAGCGGGTCACTCTT	GTGTCAAGTCCTCCGATGAATGACCGGCTTTT	[29, 55]
ATTATCTCGATAAGCAGAAGGACCTGTATAACTGGCAAGAGACAAAGGC	TGCCGCAATTCTTTCAACGGGGGCTCACACTTCCTACATGAAATAAAG	TCGAATTACCACGCATCAACTAGTGTCGAGTGGTATGCTCTCCAAACC	[29, 71]
CGCTTCAGAAAGGATAGCCGGACCGTATTAAT	GTACCCGTCCCAGGAAGACCACCCAGACTCGA	TGAGCCTGGTGCCGTATGAAAGGATTGATTAA	[29, 87]
GCCGCGCCAACGGTTTCCCGGACCTAGTGTCTATCAAGTCTATTCTAT	CTAGCACGGAGTTTCGAGCTTGCGCTAGCTAGGTTTTACGGTAGCAAA	GCTGCCTCTGACAATTTTAGTATCGCCGACTCGGGATCGTTATACTGC	[29, 103]
GAAACCATTCTCGGGTCGAGCGGGTCACTGTT	AGAGAGGTAGGATCACAGGGTTCACCCATGCC	CATGCCTCTTTCCAACACCGGCACATTAGTAC	[29, 119]
GTGACCTACGAGAAGCGTATAGATGTTCCGCG	GCCATATCAATGTCTAGCATCCGGTTCAGGAA	GTAGACGGTCAACGGTCATACTTTACAGTCAG	[29, 135]
CGAATAGCTTTTTTTT	CGGAGTAATTTTTTTT	AAGAGGCGTTTTTTTT	[31, 23]
TCACAGGCGAACTACGTATGAATTGGTTTAAACGCTCCTCGGGAATTA	GCTCCTTCGTCCTCAGGTCAGTCGATGAAGCCATGAATGTACCCGTCA	CTGCGGTATACAGATGACCGCGTGATTTTCCGCAAGTGATAGACGAGA	[31, 55]
ATACGACAGGTGGCAAACCACCTCCGATGTCAGCGCCGCATACCCATT	CAGTTTTCTCATCGACGGATAATTCCTATTGCTGTATGGCTACTAATA	GATATAATACGGAGCCCTCGCGCTGCTCCGATGGCCATTGGTTCTTAG	[31, 87]
CACTGTGAATTTCCACACCGAGGATTCGCAGGTCCATGGGATTCACCA	TTCCCCGGGGAATGCTAGTTACCTGCTTCGGGTAAACCAAAAGGGTCA	TCAGTGTCTCAGGGGCAGTGCGTTGATGGTCTAAGGTTATTAAACAAA	[31, 119]
AGCTCGTATACACCCTGATTCTCCATGGCAGC	CGGTACAGTAAACGGGTAATAATAGCATAACC	GGTTGCGTCAGCGTAGCTGGTCACTGACGCCC	[31, 135]
GCTTCGGTTTTTTTTTTTTTTTTTTACAGGTCTGAACTGGTAGATCACC	TTAGTCCGTTTTTTTTTTTTTTTTTATAGTGGCTAACTTACCTGAAA	AGGCGGAGTTTTTTTTTTTTTTTTCGTTGCGTGAAACACAAATGCCGC	[33, 23]
ATTAGTGTACCCAGCAGTTCGGCTCCCTTGTG	GAAGATTTAGTATCCAAAGTGTCAACTAGTTC	GAGACCTTCGTGACGGTATACTGCATTCCAAC	[33, 39]
GACTCGGGATACCCGGTCGTCGTGTAATGCTGTTCCGGGGTAAATCAA	GGCAAGAGTCAGGAATTAAGCGTCTCCTCCTCCCTGATTGATAAGAG	GGAGTAAATTGGATTCGTTAATTATGAACGATTATGGCCGCATGATAT	[33, 55]
GCTTTATAAATTCCCGACGCTCTGTTCCAAAC	GTAATTAGGATGTAAAGGGTTGTGGCGGGGGT	AACGGATGTATACGGATTGAGCTACAAACATT	[33, 71]
TTTAGAGCCCGGCCGTAATCTCGGATTCCTTAAAAACCAGGCGCAATC	TAACGCCGCGGTAGCTAGGGTAGGCGTAGAGGAACCAGCCTACGCTGG	TCGCCTCAACAATGCTAAACAGATCGAAGTGCATTATACAACAAGACT	[33, 87]
TCATGGCATAAACGAAACCCAATCATACGAGC	TGTAGGACTAGACGTTTATACCTTAATGAGAT	TTTTCAGACCGATCTCAAAAATGAGCCGTGAT	[33, 103]
GTGGAGGGAAGTTATTCTACTGGCGTTTTCATATATCAGAGAGCACAG	CCAGTGGTTTGAATCATGGTGTTAGTTTGTTAAGCCGTTAGGTATGCGG	GTGGATCTAGTTACTAAGCCCAGAATTGGCGGGTTGGGACGCTCGGTC	[33, 119]
TAATTCGGAGCCCGGCGTATTATCGCGTCAAT	ATGACTATGGACCGTTTAGCTCTCAAGCTATA	CATTCTACGAAAACTACGTGCACAGGACGGTT	[33, 135]
TCATATGGACACACCAGATTACGGTTTTTTTTTTTTTTTCGGCTTAG	CTGGTAATAACTTCGGAGTCGAACTTTTTTTTTTTTTTTCCGTCTAT	AATTTTCACATATCCCAGCGCCAATTTTTTTTTTTTTTTTAGGTGCGT	[35, 39]
GGGAATTGAGTACAAGTGACGAAGAATACCGTCCATCAGATGGAGCTG	GCATAGTCGCATAATTACTACGTGATTCGATGCTCGAGTCCTCAGGTT	TTGGTTCAGATATAGAAGAACTTGCACTATCCATACAGCTATTCAATT	[35, 71]
TCAGGCTTCTCCGTCAAAATGTTGGCTGAGATTGATTGGTTTAGTGTA	GCAAATACTTATCAGCCCCGTTGGTCCGGTGCCAGTCATCATGTACGA	ATCAACCACGTGCGCGCGAGCGCGAAAACCTGCGAAGTGATGGTGTGC	[35, 103]
TAGCGAGTAAGAGATATGTGGGAGGATCATTACAGGATCAAAGTTGAC	TGGGGATATCAACACAAGAGTCTGGAGATGATGTAGGGTACCGCTGGG	CCCAATGATCCCTGTTCAAACGAGTGATTAAGAAGTGCCGTTCCTGTG	[35, 135]
TTTTTTTTAGCAGAA	TTTTTTTGTTGCCCT	TTTTTTTAGCCGGGG	[36, 8]
TAATTTGCTTTTTTTTTTTTTTTTATCCGAAT	CGACCGATTTTTTTTTTTTTTTTTTAGGGTGA	CATATACCTTTTTTTTTTTTTTTTAAGAGTCT	[37, 23]
AAGGTACGCAATTACTATTTGTACCGAAAACAAGGGCATACAGTAACG	GCGTATTAGACCTCTTAGCACAATAAGCAGAATGGTATAAAGCAATAAA	CCCCATAATCGCTCATGGGCGTTCTTAGCGCGCCCCAGACGCAATTGG	[37, 39]
AAAAGCGAACGAGCCACCACCTAGCACCTCCT	GAAACTGCACTCCTACTGCCCGCCTCAGAGTT	TAAGATAGCTTACTTGTGGTACCTATCCACTA	[37, 55]
GTTAGGGTGACACCCGGGATGGGTTGTTCATCGGTCACCCCAGTTTTC	CCCACCACTGTTGAACGTTGCTAAGGCACTTGAACTTCGCGACATATT	ATTCTTCTCCCGAATCGGAAGGGATTGGGTCTGGTCGCGCCTGGACAA	[37, 71]
GCTTGAGGAATAGTCCAAGAAATGCATGATAA	CAAATGAGCAGCGAGCGTTTTACGGTGAACGG	AGGGCTTAGATCTCATGGGTATTTGGCAAATA	[37, 87]
AAGTTGTGCCGCACTGGAATCTGAAGATGCACCGGTTCTCGAGACACT	TGGGCATTGACTACCTACATCAGGTTTGCGTGCCTAACCATGATCAGC	ATAACTCCTGACTCGGTCGAGAACACCGGTAGCTGTACCTTGGAACCA	[37, 103]
CATTTACTGCTCGGTAGACCATGTCTCCAGTA	CCTGCTAAAAAATATGCAGGGTTATGACCCTA	ACTTGTAGCTATCATTTGATTACGTGCCTTAG	[37, 119]
TTGCCATTTTCTAATTAATACTTTTAATATAA	CTACATCTCCTTCGCGCCCGACAACTTTGAAA	GGCGGCATCCTCCATCGGAAGTAGACTTACGC	[37, 135]
TGTCCGCGTTTTTTTT	CCTGTGCTTTTTTTTT	AGAGTTAATTTTTTTT	[39, 23]
GATCAGCGAATTCGACACAATGGTATCTTTTGAAGCGCACGTAACCG	GCTGCCTGTTGTCCCCTCGTCATAGGGTCCCAAGAACGGCCGTCTCAC	CCGGTGTCATCTCGCCGAGATTGTTGGCAAGCCGGTGTCCGGGGCATC	[39, 55]
CTTGCCTGGGCCAATACTTTGTGGTCCACTATATATAGGTCTGACACC	TCCAATACGGGATCTCCCATTTAATGGCAAATTGTATCTCACGGGCCC	CCTGTAAGTTGAACGAGTAGAAGAAAGCAGTCCAAGGCGGACTAGCG	[39, 87]
CAGCTCCCAGGTAAGTGCGGAGAGAAATGGCTAATGGTCGACAATATG	AGTTGACCACTATCAATAAGGGTATTGTCCTACGGCGGCTCAACCCGT	GTTCACTAGAACGACCAATGAGGAAGGCGATTCACATGGATTACTCGT	[39, 119]
TATTAAGTTTTCGCCGTGAGCGATCAATGACC	GCAGGTTAAGCATGTCTTGCAACTTAAGATTC	ATGAAGTTACCATATTCACTCATGAACCTGCC	[39, 135]
CCAGTAATTTTTTTTTTTTTTTTTAGCCTGAACACCCTGCATCGACGG	AGTTAGCATTTTTTTTTTTTTTTTTACGCGGGTACCCTGGACCGCTA	ACGTAATATTTTTTTTTTTTTTTTATGAATTACGTCCGAAATTCGGAT	[41, 23]
CTTCTACCTCTTAATGTATAATTCATCCTGTG	ACCTGGTCCGTCATACTAAAAGGTAGAAGTAA	CGTGGAGCGCCGCCGGAGCGGTCTTGATTATT	[41, 39]
CATGGAAGCAGAGTTCCCATCGGCAAAATTGAGTTACCGCTATAATTA	CAGTCCGACCTAGGAGCGGTCTGGCTGTGAGGGGTGTAGGTACGCCCA	TCTTTTGTTCCCGGCATGCACCGCCTAAGGGTATCGGTAGGTATACGG	[41, 55]
AGAACATTCGGGTTCGACGTGGTCTATGTGAT	TAAACTACTTTTCCACCGTCCAGCGCATCTGT	CTTGGGATTGCGACAAAGAACCCAATCGTATT	[41, 71]
CGCCTAGGCTAACCTCATGACTCCAGGAGAGGGTGAGCTCCTACGTGG	GATCCACGTCAGATTTATACGTGCCTCGCGCAACGCTCAGCCGGTCTG	GACTCGTACCTCGTTGTCAGGAACCGTGGCATAAGGGCTATGAGGTGG	[41, 87]
AAGTGTTAATGCCGAGATCTAACTTGATTTTT	GCTAGCATCTCAAGACCTGGGAATTAGGTAAG	CACACGGACCTTTCGGGCCTTAGTAGTAGGAG	[41, 103]
ATTCAGAATCGAGACCTTGCTCTTGGACGTCTCATTCTATAGCCCGCG	TAAGTAGTCGTGTGGCTGCAAGCCCTCACCTGAACCGCGCCTAAGTCT	ACGTGTGACAATAGCGGTACAGATGAGCCGCTCTTACCATAATATATC	[41, 119]
GTTACTAGGCGCCTTGCTCCTACGCTCAATAG	TTAGAATCACCTTAGGTTTTCGCAGGCACATC	CGCACCCACCCCAAGTAAGCGATACGATGCAG	[41, 135]
TGAACCCTTACTATCGCGACAGGATTTTTTTTTTTTTTTTTAGGTCAA	GAGCCTACCCGTCTATCGGACACATTTTTTTTTTTTTTTTCGGCTTGC	AATGTCGAACTCAACAGGAGCGCTTTTTTTTTTTTTTTTTCTTTCGAC	[43, 39]

AATAAACGATACTTAAAGCTCTAGAGGGGAACCGTAGACTTCACATAA	TGCGACCAAGTTTTATCTGTCATATGCCATCTGATTGGGAGAGTCCCAG	CTTTTATACAGGGTGCGCCCGTTCTAATACGGCAACGCCTTCAGATGA	[43, 71]
AAAACACTCGGCGAGTGTTCTAGGGAGCGGGGATGGTACACCCAGCAT	CCCGACCTGTGCTCACGCACGAGAAGGCTTCCCCATGGGTACTGCTGT	TCGGGTTCACCGAGTAAGGCGAACGGCTCAATTGGAACATCCTCTACT	[43, 103]
TCCTTCAGTCCGCCTACTCATGATCTTTGATATTCTCCCAAATGGATA	GAGGGTAACACGTTGGGATGATCTGTGGTGCGCACAATTTGCTGGAAG	TGTCCGCATCATAGGAACGCATATTGCGAAGGTCAATCTCTCGCTATG	[43, 135]
TTTTTTTTGGGCGTAA	TTTTTTTTCGTAACGA	TTTTTTTTGTGATCAT	[44, 8]
ACAAAAAATTTTTTTTTTTTTTTTCTTGCCTA	CGTCAATGTTTTTTTTTTTTTTTTTTAAAACA	GAAGTATGTTTTTTTTTTTTTTTTTCACGGTT	[45, 23]
TCGTGCCCTCATACAGCATTGTCTACCACCTATGTTCTTATGCTGTTA	ACAACCGATGTTTGCTTCTAACCCGGCTACGAGTGGTCTGGACAGTAT	CCAAATGAAAGGACTCTGGTTAAGGATTGGTCCCCCACATCGGGCTCT	[45, 39]
ACATAGATCGTCGGGCGACCTTCGTAAGGTGG	GAAGGAACCGGGAGCCTCGGGGGAGCAGTCCC	CAAACTATCACGCGTATGGGATTCCACAGGGA	[45, 55]
GGCCGACCACCGACCAAGGCGCTATAGGGTATACTCGTAAGCGATATC	GGTCTTCCCTGCAAGAATGCATGATTTTCCTACATGGAATGTACAGTT	TGTCCTTCAAATGGCGGATTGGTTGGCAAAGACCCGTAGTGTAGAGTA	[45, 71]
TGAATGCGTAATACGAAACGACAAAAAATACC	CCTGACATCACAGTCAATCGGTAGGTGGGCCT	CTAGCAGAACGTGGTTACACGGATGGCCAGGT	[45, 87]
TTCGCCGGTCCGTCCGTTGGAGCCCACGAACCAACGCATCCTTAGTGC	TGAGGTTATGTCCTTGTCCGCGATTTCGTCCGGTGCTCTACATTTGGG	GACCCGAGACCAGGGATTCCGACTAGCACGAGCCCTAATTTGAGTGTA	[45, 103]
TGTAGTTTACCATTACCGGAGGCGCATTAGGT	GCAGTGGATGCTTGCTCCTTGCTCCATACCTA	TCTCTCCCATGAATTAACGATAGTGACCCATC	[45, 119]
CTATTATAATGGGACGCCACTACGTATCGTTC	CCCTGGCGCCTTCATCACGGACTTCATCAAGT	CTGACAGTCGGGGATTCTTGAAGTTGCTAGAT	[45, 135]
TATAAAATTTTTTTTT	AATATGCATTTTTTTT	CGAAGGCTTTTTTTTT	[47, 23]
GGCACTGTCACGGCGCCTTTCAGTGTGAGTGTGATGACCTCGCAGCCT	CGCCCCAACTGCTCCTAGTTAAGCATGCTTGGACCAATCGTACACAAA	ATAGGGGCTCATCAGTTGCGTTTCAAGTGGCTTGGACCTCGATGACGG	[47, 55]
GGCACAGCTTGGCGATATATCATCTACAATGTGTCTGACCCTTCACAT	TAAGAGGCATGGTATAGCATAATCTTCGTGGACCCAGTCGCAAGGCAG	ATGACTTTTGACCGATAACCACAACCATAGTCTTACAGGATCCGATTC	[47, 87]
TAATATGGGGATTACCCTTCAATAAGTTGTAGGCATCAGCTGGCAGGT	TTGTCACTCATCGGCTAACGATATCTTTTGGAGTCCGGTGTACGAGAT	GGTCTCATTCTGTCAGTTGCTCGCCGCCTCTTTATCAACTGGCGCCTC	[47, 119]
GCCATCCTACCCGCTTTCTCATGCGAAGCAGG	CCTGAAGAATCTCTGTATAAGGGCGATTCTTC	CGGGAGGCTGCAGTATCCTTATCCTGTTTCAG	[47, 135]
ACCCGAGCAACCGTGAGTATGATTGAGCCACTGGAAGGACCCAAGGAG	CTTACTGCGCAACACTCTAATGTGCCCTATAGCACCGCTCGTTAACTC	TTAGGTTAATAGAGGTCAGACTGGGACGTGGGTGGTGATGCAATACAC	[0, 47]
GACATGAATATGCTCTCTATCTTCTTGAGACTATTACCGTTCGTTCGA	CTGCGCGCGAACCTCTGAGATCCTTTGAAAGAGCTCTTAAAAAACGTA	AGGACAGAGAGACAGACACACTGCTTTCCTTTATAATAGAGACCGATG	[0, 79]
ACAGGCGGAAGTGTGTCACCGTTCGAAAAGGCCACGCGAGGTATAGCG	TTACCTATTTCCACGAGGATTCGTTTGTCGTTGCATACGCAACGTTAT	TCTTTTTCGTGGCCAGTCAGTACGGTGGTGCGAGCGCGCGATTGCTTC	[0, 111]
TTTTTTTTAAAAGCCCGGGCTGATTAAGCGTTCCAAGTCAGCTCGACA	TTTTTTTTGTGTCCTTGAAATATCAAACCCAGAATAGGCTGGACCGAG	TTTTTTTTTTCAGAGTCCGGCGCCAGGTATCCGCGTTCGAAGCCCACC	[0, 143]
TAACCTGGATAGGACA	TATCTTACTTCCCATC	CCATGCTTTCTATTCT	[1, 16]
GTGGCTGGCCATCCCTAAGTAAACGGCTTCATAGGTCAGGATCCTTCC	AGGCAGTCAGCTAGCTCTCCTAGCACAAATTATACACTCGTGCGAGGA	TCGTCGTCAACTTTGGGGCACAACGATCAAGGGACTAGTGATGAGGCA	[2, 47]
GGCATCACGAGATGCGGATACTTTACAGCTAAAACATCTCCACCAGAA	ACCCTGGCTCACGTTAGTTTATTTTATTAATGTAGATAAGTTACTGCT	AGACATAACCACGTGGGCCCGCGGTGAGGAACGAACACGTTCGAGGTT	[2, 79]
CCAGGTCAGCGGCCATATTTCCGCACCCTTTTATAGCCAGCCAGCCGC	ATGGATTGCTACCGACACGGACTTACCGGATATTTACATTTATGATTCC	TATCTGGGAATAGTTGTGTACGAATACGCCTGGTACTCTGAAGACAGT	[2, 111]
TTTTTTTTCCCGCAACAACAGCATCCATTATAGCGCAGGGATCGACTA	TTTTTTTTTCAAAATGCTCTGCTTTGTCCGTAGGACGAGCTATCATTG	TTTTTTTTTGAGGAGCATTTAAATTACATCTTGGACTTCACTCGAGCA	[2, 143]
TAGCCCGGGTTCCGGT	AATCGCCGCGGTGGAC	TTGATAAATAGAGTCT	[3, 16]
GGGGATGATAGCTCCGCCTATCTTCGCAGGGT	TTAATGGGGATGATACAGTAGTTTCACTTCCA	CTAACGTCCTTGTCTGCTATGCGCCCTCGAAA	[4, 31]
TGCGATCATTCTTAAATCAGAAACCTCCCGGTGCATCAGACAGTCTCT	AGTGACCGCTTGGCTTCCTAATGAAACTCTAAGACCCACGCTCACACC	CAATGCCAGGCGCCGATAGGGTACTTTCATCCTCAGCTATCGTCCATA	[4, 47]
AGTTTTGGAAAGACTGGTCCAACAAGGTAGAG	CCCTCACATACTGGGAATATAACAGTTAAAAA	GGACGAGTCGGCCTACCGTGAAGATCAGAACA	[4, 63]
GCTTGAACGAGTCGGCGGGGTCACCCTAGCTAGAGGGAACTCGCGATC	TTTTGGCACTGGTACTGGCAGGCATGTACCGATGACACTGTTAATCCT	CTATCCTGCCCGGTGGGACTTGGCACCTCTCAGGGTTCTACCAATAGA	[4, 79]
GGGGTCGTATAATAGTGGTACACGTGATAATC	TTTCGGGTGAAGTTCAGAGGCAGCAGAAGATT	CTTCTGTCTACTCCTTATAAGAAAGTAATGGT	[4, 95]
TCAGTCGTCGCACGGCACACTGACCTAGAAATCAGAGCCGTTCCAGCT	AACACTCCTGGCCCTTTATGCGGACGAGTGGAACATTACGTGAACGGT	CAATGGCTTGGCCCTTCTCGGGCCACTGGGAAGACGAAACGGGTTCCT	[4, 111]
GAAGCGTACTCGACGGCTACCGCTGCCTGTTT	ATCCGTCAGAGATGTAACTAGCGCTCGGTCAC	TTGAAATCTCGACCGACAAAGATTGACACCTT	[4, 127]
TTTTTTTTCTTTAGGCCCATATCCTTTTTTTT	TTTTTTTTAAGAGCACCGATGTCGTTTTTTTT	TTTTTTTTTTCTCCTTTTTCAATATTTTTTTT	[4, 143]
CTAATATATATGATTGTCTTTCTCGTATATCA	GAACATAACGTGTCGAAGAGGTCGAGGCGAGT	GTTTCGTACCGGAGCGCCACCCCCGACTTCAG	[6, 31]
CAACCAAATGGGTAAGCAACAGTTGTGCGTTGAGTTCGTATCCGGTTT	GAAACTACGCAGGTTAGATCATGTATAGCAACCACTGTGAGTATATAG	CCTCTGTATTCAGTTTGACGAGTATCCGGTTTCCAGCATCGTGGTTCG	[6, 47]
AACAGTCCCTTTACGCTCACATTAGATGTCCG	CGCATTACTTTCGGAGAGTCTGGCGAACGGCT	GTCATAATACCTCGTTGTTAGTTCTGGCAAGC	[6, 63]
CTGACAGACTATGTAGAGCGAATTTACTCGATCACTGAGTTACTCTGA	GATGGGAGCCTGGTTTGTCAGAATTCGGAGCGTATACTAGTATCTTTC	GAGGAGCAATATGACATCTTATGGATGGAGTACTAGAGTTGTAGTAGA	[6, 79]
AGTTTCCTAGCTTGGGGTTTGAACCTGCTCTA	CAAATCCCGTAACAGTTTCATTACCATTCCAC	GAGTGCCAAAAAGTAGACTCTCTGAGGCGTAA	[6, 95]
AGGATATGGCCCCTCGATGAACACCCCGCTGCGCACCGAACGCTCAGC	TGGTGGATAGGCGGAATGCATGGGTTCCCATCACCATCGCGTTCTACG	GGGCGTCAGATTAGGGTTGTATCTTGCAGGTGGTCGTCAGTCGCCAAG	[6, 111]
GTCGCTGGGCGGGCCGCATAGGTATATCCCAA	CTCGAATTATTACCTTGATAGGACGCATGCCG	CTAAGACCCAAACTCGTAAAAGCGCACTCCAA	[6, 127]
TTTTTTTTCAGAAGTGGTATTAGCTTTTTTTT	TTTTTTTTGGGACATGTCAGGGCGTTTTTTTT	TTTTTTTTGAATTGACTCACCGGATTTTTTTT	[6, 143]
AACTACTGCCACCGCAACGGCCACTTCCCCAG	CCTAACATTGGGATCTGGGTAAACAACCGCGT	GATAACTCGCATTTGTTTCTCATTCGTCGACC	[8, 31]
TGGAGTTACTAATCACGCCGGAGTCACCCCCG	CACCTACCTGTTAGCTGCCTCAGTGAAGCGAG	CCTAAGTCGACCGCAATAAGCAGAGTGAGTAA	[8, 47]
GATAGCTGGTTTCCTTATGTAGCAGCAACCTA	GCCGCTGAAGGTCTTACGGGGAGCCTAACAGG	TTCCGATTCCATCCGGATTGGCTTTTCGTCGC	[8, 63]
GGTCAGAAGAATATGGCGAGTCGTAGACGTGC	GGCTAGAAAACGGGTTGGAGGGTTCCATTTCA	CCTGGTTGTACAAATTCGACCCTTCTCTCCAG	[8, 79]
AATTCTCATGAGCTTTTCCAAACCAGCTTTAT	TTACCAGCGTGCCAGTAGCGGTCGTAGTGTTG	CTGTTCTTTTGCAGGCAGTAACCCCGTCAATG	[8, 95]
GTCGCATACTGTTTACCCCAGTGAAACCTCGT	TGTACCGCAGCCCAGAGATCTTTCCCTTGATG	ATTTTTGTGCACGGAACCATTGTAACTAGACA	[8, 111]
TCATCCGGATCATGGTCGAATCAAGTGACACG	ACATTGGTTCTTGGTGAGCGATGGCGGGCGAC	TATCACTGTACGTCCAAAATTCACCGAGACTA	[8, 127]
TTTTTTTTTTCATAACGACAGGGATTTTTTTT	TTTTTTTTATCTGCTTAATGAGCTTTTTTTTT	TTTTTTTTCGAAGACCTAGCGGGTTTTTTTTT	[8, 143]
TTAGTGAGGCTGTGACAGGAGAAAGACCATAG	ACGGAAACTCACCTAATTCCAGTAAACTGCCG	GGCTGCACATTCCGGTAGATAGCCCCAGTCCT	[10, 31]
GTTATTTCGAAGGAGTGTGGGACGAGATGTTC	TATAACCCAAGAACGCTCTATCACTAGCACTA	ATGGGGGAATCACGACCTATAAGCGGTCACGC	[10, 47]
GGCGCATATTCTGGTCTGTTTCACGAGGCGGC	CCATTCTTACACGGTGACCAGTTTCAGCCTTC	TACAGTCAAGTTTCCTGCACAGGCTATTCAAG	[10, 63]
CTAACGATGGATATCGTGCGAGATCATCTTTT	TGGACAAAGATGTAGAGATAAGGGGGGAGACA	CTTGACTTTTCCCTTTTTGTATTCGACCGCTT	[10, 79]
GAACTTGATCGAGAAAATCGGGTTTCCCACGT	TTCAACAATACAGGCAAGAAAACCCGCCGACC	AAAGCGAGGAGAACATTGGTTAACGAGCCGAA	[10, 95]
TAGGTTAAGCGTATCCTTATGCTACGTTTGTC	GTCGGCCCGGAGTATGCAGCGCGGTATGGTGA	CAAGTCCTAAGAGCAACTGACGTCGAGTCATG	[10, 111]
AGATTGTACCAAGGCAACAACATACGTGCACA	GTCAGGAGCGCCGATTACATATCATTCCATGT	AAAAGAAACATCGCTAAATTCTTCCGAAGCTG	[10, 127]
TTTTTTTTTTACTTCGTTAATTTGTTTTTTTT	TTTTTTTTTGTAAAGGAGTTTCACTTTTTTTT	TTTTTTTTTACCGAGACCATACAGTTTTTTTT	[10, 143]
ATATTAAGATCAGTTAGGCGGTACGCTGTATT	CCTTTCACTACAGGTGTCATTAAGATGGATTA	GATTACACCTTCTTGTAGAATGGGGGCCTCGG	[12, 31]
CTTGCCTCCGAGGGTTGCTATGCTACGCTTAC	CACCTAGGAAGCCACTTTTCGGAGCAAATATC	CGTAAAACTGAATGGAATCTAAAGGCACCTCC	[12, 47]
GTATAACCCCTCTCCCGGAATGCACGATCGCC	CACAAAGACCCACGTTATCACTGAGTGTAATG	TTGATGCAATTCAACGGAGCCTCAAGATCAGC	[12, 63]
AAAGCAGGCTTGACGAGTATTACTTATTTCGA	GGGATTTCAATACCCATGAGATTACCCCCCTA	GAGAAGCGGGATCTGAGTAAGGGAGCACTAAA	[12, 79]
TCGGGCACAGCTATGGATGTGGTTACACCGGC	AGAAGGGATCGGTGACCTCTCCTTTAGGTCGG	AGTGCTGACTCTGGGTTGTTTCTCCCCGAGCT	[12, 95]
ACCATACCTCAGACGCCTCGTGCTGTGGGAGG	CGACCTGAAATCCGGGGCGAAGCTTTCGCGTG	TGCTCAAGTACCACTGTCTCGCTCCACCATAA	[12, 111]
ATCCCTGAGTGGGTAAACTTTCTGCCATTACG	CTATAACGTATCGTGCTTTCACCGAGTTGAGT	TGCAATTTTTTTGAAAGGAGCACATTACTGTT	[12, 127]
TTTTTTTTCGGTGAGACGGAACAGTTTTTTTT	TTTTTTTTTTGGCAAAGACTATTGTTTTTTTT	TTTTTTTTTGGTATCGTGTGTTCCTTTTTTTT	[12, 143]
AGTATAGTGCGGAACCGACGAGGTGCCGATCT	TTCGTGTGGCTTAACATTGCGGTAACGGCTAG	GTCATTGTGTCAAAGGCAGCACGCAGAAGGTT	[14, 31]
CCCGAGCCAGTGCGTACCCCCAAGACGCTTAG	TATCAGGACCCCCGAAGTCGGGTCGCCGTAAA	CGAAGCAGGCGATTTCAGCCCCCGAATTTGGG	[14, 47]
CCTACAATGGGCACTCTAACTAAGGGTTGGTT	TCACCGCGTGCTCGCGACACAGTTCGTCGATC	CGGGCCGTACGGACAGATCGCAACAGCCTCGG	[14, 63]
TCACGTGGAAATTGTGCTTACATCGCCCCCTA	TCTGAGTCCCGTCATGAGGGATTGATCTATCC	TACACCCTTTACGGCAGAGAGGTGAGGGTATC	[14, 79]
CAGGCTACAGTACGACCTCGGCCCTCTAGCAG	CGAGTTGACATATCCGTACTCCTGTTGCAGTT	TGGCTCGGCGCTAAGTAGCTGTACCGTAAATC	[14, 95]
ACTGTTAGGCGCGCCTAGCTGTTCTCCCCGTC	TTGGCCTTAGTGTGTAAGCTTAATTAGTAAGG	GATTCTAAGGCGAGACCTTTAGTCCCTTACGT	[14, 111]
ATATCAAGTAATTAGTGTGTCAAGCAGTAGAA	ACTTGATTAAACGCGTGTCAAGACCTGCCCAT	AAAGGTTCAGTATGGCTCACGGGCTAAACCGC	[14, 127]
TTTTTTTTGTCCCTCATGACGATCTTTTTTTT	TTTTTTTTTTCGCCCTGTAGATCCTTTTTTTT	TTTTTTTTTGGTAAGTAACCCACTTTTTTTT	[14, 143]

TATGGTTTATCCGAATATGTACCGATGCCAGC	ACGTTGTTCGGGGCATAAATGTGAGGTGGCAA	TGCGATAAGGCGGCGTCACAGAGGAGTTATGG	[16, 31]
CTAATGAAGCCCTCAGGAGTGCAAAGAAACTG	AGGGCCAAAATGAGACGGGTACAAAACCCGTG	ACTACACTAGGAATAAATGCGCCGATGGCATG	[16, 47]
CAGCCCATTTCCGCCCGTAAACGAGCGAAAAT	ACGTCCGAAGGCGAGGCCCAATAAGCCAGAGA	GTCCCAGCGGTGTCACTGCTGGCTAGCCCAGT	[16, 63]
ACATGTAATGGGGCACGCAATTGCCTAATCCC	ACAGGGAGCGCGTGTATGCCACACAGATCTAG	ATCCGCCTATATGAGCTTCACTGATACAATAT	[16, 79]
CATATATTTCACTTGCCCCCAAGTAGGAGATC	CCGAAAATCCAACAGGATCCCTTGTTGCTATA	AACTCCCTTCAAAGAGAGAGTGTAAATTAATC	[16, 95]
TACTAAAAGACCAAGTTGCCCATGTATGTGAT	ACAGCCTTAACAAAATTTAAGAGCCCTTTATC	ACAGCCGGTCGCCGGGGGGGCCTATGGGCGCA	[16, 111]
AGCTCTGTTGGGTGTTCTCGTTCGAGCACGCA	ATCCGCTTTACTCTAAATTACTTTCCCTCCCA	CATGTGACCCGTCGTATAAGCGCGGGTTGCGG	[16, 127]
TTTTTTTTGGAAGTTCGTGCAGCTTTTTTTTT	TTTTTTTTACGCTCGATAGTGACGTTTTTTTT	TTTTTTTTGAATCGCGCTTGCGGGTTTTTTTT	[16, 143]
AATGATTACAAGAACTGCTGTTCAGGCGATAC	CCTATCACCAAGCGGGTCTCGATAGCCAAGGA	ACTGACCGTTATTTGACTAACACACGCTGCTT	[18, 31]
GCGGCCATGGAGCACTATCAGCTAAGGTGGCC	GTGTTAACGCTGAGAGTTATTTACTATACCAA	TAAACGCCGCCGAAGTAACCCCATGACATAGG	[18, 47]
GGTACACCTAAGCCACAGTGGAGCGATTGCCG	AATCTCGTACTCCGCTGTTAACATTCGCTTTA	AGCCCTCCATGCCTGTATGTTTCCGCCGGGTC	[18, 63]
GGAGGCGGTACCCACATGCCGAGGAATGCACA	CCTGTCTAACGAATACGACGCCCCAAAGTCTA	GCAAAATCCTTTAAGTGACTGACCGCCTTAGA	[18, 79]
TGGTGGTTTGACTACCTAAATGGTCGAGATGT	GTGCTCTGCGGCAATACAGAATTATTGCGCTG	TCACTTTGTCACTATGCAGATTGGGGGTTGTT	[18, 95]
TTTTTGTCGAGGATGTTTGCTTTACACTTGAG	TCTATAACGGCGTGTAGTCTACAGAAGGAACG	CGACCTTGACGGGCCGCAGATAGAATGGAGCT	[18, 111]
TCATACGACAAATCTGTCTCATAAAGCCTACG	CTTAACCGTGTATTCTTCCCGTCTCAGCCCTC	GTTACTATAGTCTTCGTTTTTACAGAATGAAG	[18, 127]
TTTTTTTTTCCTATGAGTTATGGATTTTTTTT	TTTTTTTTCAGTTGCCCGGCATTATTTTTTTT	TTTTTTTTCGGATATGCGAGCAACTTTTTTTT	[18, 143]
ATACACAACCCCGGTATACTTGAACATCTGAT	CTAACTATTTGGAATGTGATTGAGTTGTCGGG	TACAGGCGGCGCCTGACATTAGAATGTTGTTG	[20, 31]
CCCCCGCAAGAGTATATAGTTTGACAAACATT	AAACTAAACCTAGTCAAGTTACAAGCTCTGGA	GTCGGCAGTCTAGTCATTCAGCGAAGAAATGA	[20, 47]
GATATTCAGCTCGACCTAAGCGCGTTGTAATG	GTCGTTACCTAACGCGCATTACGACGATTGCT	TTCACTGGGTTTTCAGCGCGTCTGGGTCACGT	[20, 63]
GCGTATCGGAGGTAGCAATAAGGAACGACTTT	TTTCATAGAGTTGGTCTCCTTACTCAGTCGCC	ATGTTGAGTCGAGTGCTATTCAGGTCTCCTTT	[20, 79]
CACCTTTCTCTGGTTCAATTCATCCACCCGTT	GAGGCCTTAGTGCGCCCGTACCCCACACCGAT	CTGTGTGCCTCATCCTTGACTCCTCGTGATTA	[20, 95]
TTACTTGCACTTGGGACGTCTTAAGGGTATAG	AGCAGTACCCTGCCTAAACAAGGAAATCTTGG	TGTCCGCATTAGGGTTAGCCGCATTTGGCAGT	[20, 111]
ACCGCTCTTTCCTTTTACTTACGTGTCCTCAC	TCTTTGCAAGTATGGAGACGAAGGCCCTGGAG	TCTCCGTGTGGTGCCTATGTCGAATTTCGCTC	[20, 127]
TTTTTTTTTGGATATCTTCCGCGTTTTTTTTT	TTTTTTTTGGAAGGTCGCCTACGTTTTTTTTT	TTTTTTTTAAGACCGTCTTGACTCTTTTTTTT	[20, 143]
TCTTGCTTCCGCACGTTCAAGCTGTCTGCAAC	GGTCACACTGTGTGGATCAGGATCGTGTTTCC	GTAGCCACGCCACTTTAAATTGTTGGTTAGGG	[22, 31]
GATGGCCGTAGGTTTCCGCCCACTCTATGAAC	GTACCGCAAGCGCTATTTATGTCGGGCCTCAG	AAGCGACAGCGCCGTTAATAACTCGGGCTATT	[22, 47]
CGAATCGCTAGTCCACACTACGCTATGTCATG	AGTGTAAGTATCGGTTAGTAAACAGTCACTGC	TCTGGAGGCAGGACAGCGCGGTACCCCTGGGC	[22, 63]
GCACTGCCGCTACATGACTGTACGGCCCAGCG	GATGTCAACTCCCGAATTTAAGTTGGTCGGGT	TGCCTCCTGGCACGCGATCGGGCTCTCTCATT	[22, 79]
CGGCATGCTTGGCTGATGCTGGTGCATCGCCG	TTGTGATCTTAATTTAATGGTTATCACAGCGC	CACCAATGTGGTTACGTGGCTACCAGTTAGGG	[22, 95]
TTAGGATCGGTGCTACATCTGGTCATTGAAAG	TTGGTGCATGCCATATAAACTTCTTGTTTGAT	AGGTCTGCCAACAGGTCAAACAGCAAAAGCGC	[22, 111]
GCGTTAAACAGAAACTCGTACGCAGGGGCATA	TGTTGAGGGTCTTTAGCTACATTTTCCCCCCA	GCCAACAAGAGCCGCTGGACGTCTACGTAGAG	[22, 127]
TTTTTTTTGGTCTAAACGACCATGTTTTTTTT	TTTTTTTTATTCAAGACCCCTGCGTTTTTTTT	TTTTTTTTGGAACATAGCACGACATTTTTTTT	[22, 143]
TGATTAGCGTCTTGCGGCTATTCGTTTAAACC	CCATATCAGTAATCTCTTACTCCGGGCTTCAT	CGGCTCGAGCTAACACCGCCTCTTCGGAAAAT	[24, 31]
GGAACTTGCTGCCCAGACTCTCGTTCCGTGCA	GTGTAAGAATTTTGGACGTTCTAGTCTTCACC	CTACCATTCTGAAGGGGTGGCGTACAAGAGCG	[24, 47]
TCGTACAGCCGCCGCAGCCTGTGATGACATCG	AACTGCGCTCCTACCCGAAGGAGCGCAATAGG	TTGGATCCAGATCATATACCGCAGATCGGAGC	[24, 63]
TGTGGGCTGGACTCATTCGCAACGATCTTAGT	ATCCCGTTATCAAGGAATCCGAAGGAGCCGAT	GTTACCAGCGCTAACACCGTGACATACGACGA	[24, 79]
TGTACTACTGTCAAGTTGTCGTATCCTGCGAA	CCTACGCCCCCTTCCCGAAAACTGCCCGAAGC	TCATTCTAGGGCACGGATTATATCAGACCATC	[24, 95]
TACGCTATAAAGATACCGTCGTCTAGGACGAT	CGCTGTAAGTGCGGCCGTTTAGTGCAACCCAT	AGCGTGTTACCCACAATTGTCCACCCCTTTGT	[24, 111]
ACGGGGTTGTCCGGTCTCACAGTGAGGGTGTA	TGACAGAACGAGGCGTCCGGGGAACCCGTTTA	CTCCGCTGCTTGGTTTGACACTGACTACGCTG	[24, 127]
TTTTTTTTTACGATTTTATTTGACTTTTTTTT	TTTTTTTTGTAGACATGACTTTGTTTTTTTTT	TTTTTTTTTAACCGCATTGGTCTTTTTTTTTT	[24, 143]
GGTAGGTTTCACCGAAGTAGTGTCGCAGTCCG	CGGGCCCAGGAGAGCATTCCAGGCAGTATGAA	CCAGCTCAGGCCGGGGCGGTAACTTATTGGGT	[26, 31]
TACATACGGCTTAGGGAGGAGAAGGCCACTAC	AACCATTTACAAACCCTCTTTGCTATGCATAA	CCGAAAATTGTAGCGGACAAGCACCATAAGCC	[26, 47]
GTGGGAGATCGCGTCGATGTTGGGTGCTTATC	ATATTACACAATATACAGTATCCATGAAAGAA	CCGGGTAAACTTCTACCTTGACACATGCGTGG	[26, 63]
GCCTGGCCTTGGACGGGCGCTTTCCCTACTCT	ACAACTGTAGTACCCACACCAGGTACTTAACC	CTATTTGGTTGTATAAATCACTATGTTCAGAC	[26, 79]
AACGGCGACTTAGATCCTGAAGCGAAACCGTT	AAGCCTGTTCATTTGCACGGGTACCGAAACTC	CACACTTTTAAAGTTACAGGCTCAAATTGTCA	[26, 95]
AAAGCTTCCGCGAGCACCCACTGTCCACATGA	TCCAATAACGGCGACGGCAGGTGGAGTCCTTC	CACAACGCCGAACTCAGCGAGGGATCAGCAGG	[26, 111]
AGAACCGGGGCTAGAAATGGTTTCGCTTCTCG	TTTCATAACCGACATCACCTCTCTTAGACATT	CGCGCTCAGGGATACAGAGGCATGACCGTTGA	[26, 127]
TTTTTTTTACTCTAGCAGGTCTACTTTTTTTT	TTTTTTTTCACCCGCCTCAACCCCTTTTTTTT	TTTTTTTTCGCCGACATTGTCGGTTTTTTTT	[26, 143]
TCCAGAATGATGCTATCCGTAATCTGGTGTGT	TAGAGACCAAAGAAGTGTTCGACTCCGAAGTT	TGCCGAAAAATGGCTATTGGCGCTGGGATATG	[28, 31]
GTTAATGCAGTTACTGCCAGTCCCTTACTTGG	GGTCCTCTCACGGCTTCTGGTTTTATATTGAA	GTGGTGATTTAGGGAGCCTCGGAGGGCAAGTA	[28, 47]
GGTCCTTCAGCACGTACTTCGTCACTTGTACT	GCCCCCGTAAACATACCACGTAGTAATTATGC	ACTAGTTGTGAATCGGCAAGTTCTTCTATATC	[28, 63]
TCTTGCCAGTTATACACGGGGAGGCCGAACGA	CATGTAGGAAGTGTGATTTCGTAAGGGCTCAC	GAGCATACCACTCGACCGTAAAGCCAGCCCTT	[28, 79]
GGTCCGGGGCCTTGTCCAACATTTTGACGGAG	CGCAAGCTCTTTATTTCCAACGGGGCTGATAA	GATACTAAGGTTTGGACGCGCTCGCGCGCACG	[28, 95]
GACTTGATAGACACTACACTCGCACTACTTCA	CGTAAAACCTAGCTAGACACACTCCCCTCACA	ACGATCCCGAGTCGGCCACGCAAACGAGGTTT	[28, 111]
ATCTATACATAGAATACTCCCACATATCTCTT	CCGGATGCTTTGCTACCAGACTCTTGTGTTGA	AAAGTATGGCAGTATACTCGTTTGAACAGGGA	[28, 127]
TTTTTTTTCGCGGAACGCGCCAGATTTTTTTT	TTTTTTTTTTCCTGAAGCTGGGGATTTTTTTT	TTTTTTTTCTGACTGTCCATATAGTTTTTTTT	[28, 143]
GAGGAGCGAGCAGGTCACCGAAGCTGCTGGGT	ACATTCATCATGGTCCCGGACTAATGGATACT	ATCACTTGTTATCCACCTCCGCCTCCGTCACG	[30, 31]
GCTGAGGATAATTCCCCTAGGACCTAACCCTT	CCCGCTGATGACGGGTCGTTGCACATTGTACC	GTCATTCATCTCGTCTAGTCGACAAAACGTGC	[30, 47]
TGCGGCGCTTTCAACTCCCGAGTCCGGGAATT	GCCATACAAAGAGTGACTCTTGCCTTTACATC	CAATGGCCAAAAGCCGTTTACTCCTCCGTATA	[30, 63]
GGTCCGGCAATGGGTATCAAGGCCCGACATCC	GGGTGGTCTATTAGTACTTATCCTTCACCAGG	TCCTTTCACTAAGAACTGAGTTGCTTAGCCGT	[30, 79]
CCCATGGAATTAATACGCTCTAAATTCGTTTA	TTGGTTTATCGAGTCTCGGCGTTAAACGTCTA	ATAACCTTTTAATCAATGAGGCGAGAGATCGG	[30, 95]
CCCGCTCGTGGTGAATCCATGAAAATAAAAGC	TGAACCCTTGACCCTTGTGGTCCAATTCATGG	GTGCCGGTTTTGTTTAGGATGACTCTTACATC	[30, 111]
GGAGAATCAACAGTGACCCTCCACGCCGGGCT	TATTATTAGGCATGGGACCACTGGAACGGTCC	GTGACCAGGTACTAATAGATCCACTAGTTTTC	[30, 127]
TTTTTTTTGCTGCCATACGACTCTTTTTTTTT	TTTTTTTTGGTTATGCGGTCGGATTTTTTTTT	TTTTTTTTGGGCGTCAGGGTTCCGTTTTTTTT	[30, 143]
ACCAGTTCAGACCTGTCGCGGACACAAAAGAT	AAGTTAGCCACTAATAAGCACAGGTGGGACCC	TGTGTTTCACGCAACGTTAACTCTGCTTGCCA	[32, 31]
CACGACGAGGTGATCTAATTCATACGTAGTTC	GACGCTTATTTCAGGTCGACTGACCTGAGGAC	TAATTAACGCGGCATTCACGCGGTCATCTGTA	[32, 47]
CCCCGGAACAGCATTACGCTGATCATAGTGGA	CAATCAGGGAGGAGGACAGGCAGCATTTGCCA	CGGCCATAATCGTTCAGACACCGGGACTGCTT	[32, 63]
CCGAGATTTTGATTTAGAGGTGGTTTGCCACC	CCTACCCTCTCTATATAATTATCCGTCGATGA	ATCTGTTTATATCATGAGCGCGAGGGCTCCGT	[32, 79]
CTGGTTTTTAAGGAATCAGGCAAGAGCCATTT	GGCTGGTTCCTCTACGGTATTGGATAGGACAA	TGTATAATGCACTTCGCTTACAGGAATCGCCT	[32, 95]
GCCAGTAGGATTGCGCTCCTCGGTGTGGAAAT	TAACACCACCAGCGTAAGGTAACTAGCATTCC	TCTGGGCTAGTCTTGTAACGCACTGCCCCTGA	[32, 111]
TCTGATATATGAAAACGGGAGCTGCGGCGAAA	TAACGGCTTAACAAACGGTCAACTGACATGCT	GTCCCAACCCGCCAATTAGTGAACAATATGGT	[32, 127]
TTTTTTTTCTGTGCTCTACGAGCTTTTTTTTT	TTTTTTTTCGCATACCCTGTACCGTTTTTTTT	TTTTTTTTGACCGAGCACGCAACCTTTTTTTT	[32, 143]
AGCCGAACCTAAGCCGGCAAATTAAGTAATTG	TGACACTTATAGACGGATCGGTCGTAAGAGGT	GCAGTATAACGCACCTGGTATATGATGAGCGA	[34, 31]
TCTGATGGCACAAGGGTGTCGAAACGTCACTT	GACTCGAGGAACTAGTACTGCGAGGGCCGAAA	AGCTGTATGTTGGAATCAGGCGCGTCGGAGGA	[34, 47]
CAGAGCGTCAGCTCCATCGCTTTTCGGGTGTC	CACAACCCAACCTGAGGCAGTTTCGTTCAACA	TAGCTCAAAATTGAATCTATCTTAGATTCGGG	[34, 63]
ACCAATCAGTTTGGAAGAGATAATTATCCTTT	GATGACTGACCCCCGCTTGCGGCATTCCTGGG	TCACTTCGAATGTTTGTAATTCGATACGGCAC	[34, 79]
GATTGGGTTACACTAACCTCAAGCCAGTGCGG	AAGGTATATCGTACATCTCATTTGAGGTAGTC	TCATTTTTGCACACCATAAGCCCTCCGAGTCA	[34, 95]
TGATCCTGGCTCGTATGGCGCGGCACCCGAGA	TACCCTACATCTCATTCGTGCTAGGTGATCCT	CGGCACTTATCACGGCGAGGCAGCGTTGGAAA	[34, 111]
GATAATACGTCAACTTAGTAAATGAATTAGAA	GAGAGCTACCCAGCGGTTAGCAGGCGCGAAGG	TGTGCACGCACAGGAACTACAAGTGATGGAGG	[34, 127]
TTTTTTTTATTGACGCTAGGTCACTTTTTTTT	TTTTTTTTTATAGCTTGATATGGCTTTTTTTT	TTTTTTTTAACCGTCCCCGTCTACTTTTTTTT	[34, 143]
GTACAAATTTCTGCTATCCTGTCGCGATAGTA	TATTGTGCAGGGCAACTGTGTCCGATAGACGG	GAACGCCCCCCCGGCTAGCGCTCCTGTTGAGT	[36, 31]

TATGCCCTTGTTTTCGCCATATGAACGGTATT	TTTATACCATTCTGCTATTACCAGCATCGAAT	GTCTGGGGCGCGCTAATGAAAATTGGATAGTG	[36, 47]
ACCCATCCCGTTACTGCTAGAGCTTTAAGTAT	TTAGCAACTTTATTGCTATGACAGATAAAACT	TCCCTTCCCCAATTGCGAACGGGCGCACCCTG	[36, 63]
GGGTGACCGATGAACACAATTCCCATCTCAGC	GCGAAGTTCAAGTGCCGACTATGCGCACCGGA	GCGCGACCAGACCCAATGAACCAACAGGTTTT	[36, 79]
TCAGATTCGAAAACTGCCTAGAACACTCGCCG	CCTGATGTAATATGTCTCTCGTGCGTGAGCAC	GTTCTCGATTGTCCAGGTTCGCCTTACTCGGT	[36, 95]
GAGAACCGGTGCATCTAAGCCTGATAATGATC	TGGTTAGGCACGCAAAGTATTTGCATCATCTC	AGGTACAGCTACCGGTTGGTTGATCTTAATCA	[36, 111]
AAAGTATTAGTGTCTCATCATGAGTAGGCGGA	TTGTCGGGGCTGATCAAGATCATCCCAACGTG	CTACTTCCTGGTTCCAATATGCGTTCCTATGA	[36, 127]
TTTTTTTTTTATATTAACTCGCTATTTTTTTT	TTTTTTTTTTCAAAGTATCCCCATTTTTTTT	TTTTTTTTGCGTAAGTTCATTGGGTTTTTTTT	[36, 143]
GTGCGCTTATTCGGATATTACTGGCATTAAGA	GCCGTTCTTCACCCTATGCTAACTGTATGACG	GGACACCGAGACTCTTTATTACGTCCGGCGGC	[38, 31]
CTAGGTGGCGGTTTACACACTAATCCGGGTAT	GGCGGGCAGTGAGACGAAATCTTCATTCCTGA	AGGTACCAGATGCCCCAAGGTCTCGAATCCAA	[38, 47]
ACCTATATAGGAGGTGCTTCCATGCGAACCCG	GAGATACAAACTCTGATCGGACTGGTGGAAAA	CCGCCTTGTAGTGGATACAAAAGATTGTCGCA	[38, 63]
CATTTCTTGGTGTCAGTATAAAGCACGGCCGG	CGTAAAACGGGCCCGTCTAATTACAGCTACCG	AAATACCCCCGCTAGTCATCCGTTAGCATTGT	[38, 79]
CGACCATTTTATCATGCCTAGGCGCTCGGCAT	AGCCGCCGCCGTTCACCGTGGATCGTCTTGAG	TCCATGTGTATTTGCCTACGAGTCCCGAAAGG	[38, 95]
ACATGGTCCATATTGTTGCCATGAAATAACTT	TAACCCTGACGGGTTGGTCCTACATGATTCAA	CGTAATCAACGAGTAATCTGAAAATAGTAACT	[38, 111]
ATCGCTCATACTGGAGTTCTGAATCAAGGCGC	AGTTGCAATAGGGTCAACTACTTACCTAAGGT	CATGAGTGCTAAGGCATCACACGTACTTGGGG	[38, 127]
TTTTTTTTGGTCATTGCCGAATTATTTTTTTT	TTTTTTTTGAATCTTAATAGTCATTTTTTTTT	TTTTTTTTGGCAGGTTGTAGAATGTTTTTTTT	[38, 143]
GCAGGGTGTTCAGGCTATTTTATAACACTCACACTGAAAGGCG CCGTG	CAGGGTACCCGCGTAATGCATATTCCAAGCATGCTTAACTAGG AGCAG	TTCGGACGTAATTCATAGCCTTCGAGCCACTTGAAACGCAACT GATGA	[40, 31]
GCCGATGGCCGTCGATACCATTGTGTCGAATT	CCAGACCGTAGCGGTCTATGACGAGGGGACAA	GCGGTGCAATCCGAATACAATCTCGGCGAGAT	[40, 47]
GCGGTAACTCAATTTTACAGTGCCACATTGTAGATGATATATCG CCAA	CCTACACCCCTCACAGTTGGGGCGTCCACGAAGATTATGCTAT ACCAT	CTACCGATACCCTTAGGCCCCTATGACTATGGTTGTGGTTATCG GTCA	[40, 63]
GGAGTCATTAATTATACCACAAAGTATTGGCC	GCACGTATTGGGCGTATTAAATGGGAGATCCC	GTTCCTGACCGTATACTCTTCTACTCGTTCAA	[40, 79]
GAGCTCACCCTCTCCTGCTGTGCCCTACAACTTATTGAAGGGT AATCC	CTGAGCGTTGCGCGAGGCCTCTTATCCAAAAGATATCGTTAGC CGATG	TAGCCCTTATGCCACGAAAGTCATAAGAGGCGGCGAGCAACT GACAGA	[40, 95]
AAGAGCAACCACGTAGCTCTCCGCACTTACCT	GGCTTGCACAGACCGGTACCCTTATTGATAGT	ATCTGTACCCACCTCATCCTCATTGGTCGTTC	[40, 111]
ATAGAATGAGACGTCCCCATATTAAAGCGGGTAGGATGGCTTT TTTTT	GCGCGGTTCAGGTGAGAGTGACAAACAGAGATTCTTCAGGTT TTTTT	ATGGTAAGAGCGGCTCATGAGACCATACTGCAGCCTCCCGTTT TTTT	[40, 127]
TTTTTTTTCGCGGGCTACTTAATATTTTTTTT	TTTTTTTTAGACTTAGTAACCTGCTTTTTTTT	TTTTTTTTGATATATTAACTTCATTTTTTTTT	[40, 143]
GAATTATATTGACCTATTTTTTGTCTGTATGAGGGCACGAGCCC GACG	ACCTTTTAGCAAGCCGCATTGACGAGCAAACATCGGTTGTGGC TCCCG	AGACCGCTGTCGAAAGCATACTTCGAGTCCTTTCATTTGGTAC GCGTG	[42, 31]
AGTCTACGCACAGGATCGTACCTTTGGCTCGT	TCCCAATCTTACTTCTCTAATACGGTAGGAGT	AGGCGTTGAATAATCATTATGGGGCAAGTAAG	[42, 47]
GACCACGTTTATGTGAATCTATGTTGGTCGGTGGTCGGCCTCG TATTA	GCTGGACGCTGGACTCGTTCCTTCTCTTGCAGGGAAGACCTGA CTGTG	TGGGTTCTTCATCTGAATAGTTTGCGCCATTTGAAGGACAAAC CACGT	[42, 63]
TGTACCATATCACATAACCCTAACGGACTATT	ACCCATGGACAGATGCGTGGTGGGGCTCGCTG	ATGTTCCAAATACGATAGAAGAATATGAGATC	[42, 79]
AGTTAGATATGCTGGGCGCATTCACGGACGGACCGGCGAAGT AATGGT	ATTCCCAGACAGCAGTATGTCAGGCAAGGACATAACCTCAAGC AAGCA	ACTAAGGCAGTAGAGGTCTGCTAGTCCCTGGTCTCGGGTCTA ATTCAT	[42, 95]
TGGGAGAAAAAAATCACACAACTTTACCGAGC	AAATTGTGCTTACCTAAATGCCCACATATTTT	GAGATTGACTCCTACTGGAGTTATAATGATAG	[42, 111]
CGTAGGAGTATCCATTAAACTACACGTCCCATTATAATAGTTTT TTTT	TGCGAAAACTTCCAGCTCCACTGCGATGAAGGCGCCAGGGTT TTTTTT	TATCGCTTCATAGCGAGGGAGAGAAATCCCCGACTGTCAGTTT TTTT	[42, 127]
TTTTTTTTCTATTGAGAATGGCAATTTTTTTT	TTTTTTTTGATGTGCCAGATGTAGTTTTTTT	TTTTTTTTCTGCATCGATGCCGCCTTTTTTT	[42, 143]
AGACAATGTTACGCCC	GGGTTAGATCGTTACG	CTTAACCAATGATCAC	[44, 31]
TAGCGCCTTAACAGCATAAGAACATAGGTGGTAGGGTTCAGTT CCCCT	TCATGCATATACTGTCCAGACCACTCGTAGCCGTAGGCTCAGAT GGCA	AACCAATCAGAGCCCGATGTGGGGGACCAATCTCGACATTCC GTATTA	[44, 63]
GGCTCCAAGATATCGCTTACGAGTATACCCTACGTTTATTCCCC GCTC	ATCGCGGAAACTGTACATTCCATGTAGGAAAATGGTCGCAGGA AGCCT	AGTCGGAATACTCTACACTACGGGTCTTTGCCTATAAAAGATT GAGCC	[44, 95]
CGTAGTGGGCACTAAGGATGCGTTGGTTCGTGAGTGTTTTTAT CAAAG	AAGTCCGTCCCAAATGTAGAGCACCGGACGAAAGGTCGGGCG CACCAC	ACTTCAAGTACACTCAAATTAGGGCTCGTGCTGAACCCGACC TTCGCA	[44, 127]
TTTTTTTTGAACGATACTGAAGGATTTTTTTT	TTTTTTTTACTTGATGTTACCCTCTTTTTTTT	TTTTTTTTATCTAGCATGCGGACATTTTTTTT	[44, 143]
AGGTCATCTAGGCAAG	CGATTGGTTGTTTTAA	GAGGTCCAAACCGTGA	[46, 31]
GGTCAGACCCACCTTACGAAGGTCAGGCTGCGGGTAGAAGG AACTCTG	CGACTGGGGGGACTGCTCCCCCGATTTGTGTAGACCAGGTCTC CTAGG	TCCTGTAATCCCTGTGGAATCCCACCGTCATCGCTCCACGTGC CGGGA	[46, 63]
GCTGATGCGGTATTTTTTGTCGTTATGTGAAGAATGTTCTGAGG TTAG	CACCGGACAGGCCCACCTACCGATCTGCCTTGGTAGTTTAAAA TCTGA	AGTTGATAACCTGGCCATCCGTGTGAATCGGAATCCCAAGCAA CGAGG	[46, 95]
GCATGAGAACCTAATGCGCCTCCGACCTGCCATAACACTTGGT CTCGA	GCCCTTATTAGGTATGGAGCAAGGATCTCGTAATGCTAGCGCCA CACG	AGGATAAGGGATGGGTCACTATCGTGAGGCGCCTCCGTGTGCG CTATTG	[46, 127]
TTTTTTTTCCTGCTTCCTAGTAACTTTTTTTT	TTTTTTTTGAAGAATCGATTCTAATTTTTTTT	TTTTTTTTCTGAAACATGGGTGCGTTTTTTTT	[46, 143]

Table S5. Sequences of 6H × 10H × 128B.

Sequence	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	[1, 23]
GTTTACTTAGGGATGGTACGAACTCAACGCAC	[1, 39]
GCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 55]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 71]
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GCTCTAAACAGCATTAATCATGAGTAGGCGGA	[30, 63]
CCGAGATTACGGCCGGGAGGAGCGGTGGAAAT	[30, 79]
CCCTCCACTAAGGAATTAGGCAAGTTTTTTGT	[30, 95]
GCCAGTAGAATAACTTTGCGGCGCAGGGTGTA	[30, 111]
CCATATGAATGAAAACTAACAGCATAAGAACA	[30, 127]
TTTTTTTTTGGTGTGTCCCATGGATTTTTTTT	[30, 143]
ACACTAATTTTTTTTTTTTTTTTTTCCAGAAT	[32, 15]
TCTGATGGTGCTGGGTGACCACGTCCTCTCCT	[32, 31]
TATAAAGCCAGCTCCAAGCACGTAGAGATAAT	[32, 47]
ACTCGCTACGGGAATTTAACACTTGGTCTCGA	[32, 63]
TGCCATGATATCTCTTGTTATACAGGTCCGGC	[32, 79]
ATTCGGATTTCGTTTAATAGAATGCTATTGAG	[32, 95]
CCGAATTACGTACCTTAAACCGTTATGGTTTC	[32, 111]
TGGCTCGTGCCGGGCTTCCTGTCGGTTCCCCT	[32, 127]
TTTTTTTTCTAGGTGGAACAGTGATTTTTTTT	[32, 143]
CAATTCCCTTTTTTTTTTTTTTTTCATCGCCG	[34, 15]
GAAAACTGCTTGTACTTTATATTACGGTTTAC	[34, 31]
CAACATTTCCTCAAGCTACGCTATGGGGCATA	[34, 47]
CAGTGCGGATCTCAGCCCACAAAGAGCCATTT	[34, 63]
TGATCCTGTCAGATTCTACTTGAATTACTTGG	[34, 79]
TACCGAGCGTCAACTTACTTAATACCGTCGAT	[34, 95]
TGTTTTCGACATGGTCAATTCATCGTCCTCAC	[34, 111]
AATTAGAATATGCCCTGAATTATATAATTATA	[34, 127]
TTTTTTTTAAAGTATTGATGCTATTTTTTTTT	[34, 143]
CGCTGATCTTTTTTTTTTTTTTTTTACCCTAAC	[36, 15]
ACCATTGTGTCGAATTCATACCGTGCGTAGCT	[36, 31]
ACCTATATCAAAAGATGATGAACAACCCATCC	[36, 47]
GGGAGCTGGGTGTCAGCCCCTTCGATTCCACG	[36, 63]
ATCGCTCAACTTACCTTTATCATGCATTTCTT	[36, 79]
ATTACTGGGGTCATTGACGGGACAAGCGGGTC	[36, 95]
CTTCCATGTTCAGGCTAGTGTCTCGAGAACCG	[36, 111]
GCCGATGGGAACTCTGGCTAAGGGCCTCAGAA	[36, 127]
TTTTTTTTCAATTTTTACTGGAGTTTTTTTT	[36, 143]
CCTAGGCGTTTTTTTTTTTTTTTTCTAAGCCG	[38, 15]
CAGGCAAGGAGGTTAGTATTGAAGAAGCGGGT	[38, 31]
AGTTAGATTATTGGCCCTTCGTCATGACGGAG	[38, 47]
CGACCATTAAAAATCATTACACATTTGGGGAC	[38, 63]
CTAGTAACCATATTGTACCAATCATAATGATC	[38, 79]
GGTAGAAGCAAGGCGCCACTCCAAGTGAACCC	[38, 95]
CGTTTATTCATTAAGATTCTGCTAGTACAAAT	[38, 111]
AATGTTCTTTAAGTATACATTACTGTCAAGAC	[38, 127]
TTTTTTTTCGAACCCGCGTTACTGTTTTTTTT	[38, 143]
TGTACCATTTTTTTTTTTTTTTTTGGTGATCT	[40, 15]
GAGCTCACATGCTGGGTGGTCGGTCGCATTCA	[40, 31]
TGGGAGAACCACGTAGAGCCGAACTTGATTTA	[40, 47]
AAGAGCAATATCCATTCGGACGGAAAACTACA	[40, 63]
CTGTATGAAGACGTCCCAGAGCGTGATTGCGC	[40, 79]
AGGGTTCAAGACAATGCGTCCCATGCGCCGTG	[40, 95]
GCCCGACGCGATAGTAGATTGGGTCTGTGCTC	[40, 111]
AGTCTACGCGAAGGTCGCTGTGCCATGTGAAG	[40, 127]
TTTTTTTTTTATGTGAGATAATACTTTTTTTT	[40, 143]
CCACCTTATTTTTTTTTTTTTTTTCCCCGCTC	[42, 15]
TCGTATTAGGTCGGCCGTTGTTCCTGTCCGTG	[42, 31]
GGTATTTTTTGTCGTTAGTGTTTTTATCAAAG	[42, 47]
GTAATGGTCCGGCGAACATACACACGGGCATC	[42, 63]
ACCTAATGCGCCTCCGCTGAAGGAGGGCACGA	[42, 79]
ACTGAAAGTATAATAGGCGGCGAACCACAATG	[42, 95]
AGGTCATCACACTCACTTACGCCCATCTATGT	[42, 111]
CCATATTAAGGCTGCGGAAGAGGTGAGAACAT	[42, 127]
TTTTTTTTGGTAATCCTAGGTGGTTTTTTTTT	[42, 143]
ATACCCTATTTTTTTTTTTTTTTTATCACATA	[44, 15]
GCATGAGATTACGAGTTTTGCACCACCTATAC	[44, 31]
GGTTCGTGCCTGCTTCGGAGTCATCTCGGCAT	[44, 47]
CCCGACAAGATGCGTTAATATTGCAGTATTCC	[44, 63]
GAACGATATGACAGGTTTCTGAATCGCGGGCT	[44, 79]
GCGCGGGCATTTTATAGATAGAGAACTGTCCC	[44, 95]

GATGATATTAGGTTATCGTAGGAGTTGACCTA	[44, 111]
TGGAATACACATTGTAATCCCGGATCTTGTAT	[44, 127]
TTTTTTTTCAGCTGGACTAGAGCTTTTTTTTT	[44, 143]
GCTGATGCTTTTTTTTTTTTTTTTCGCGGACA	[46, 15]
CGTGGGACACCTGCCAGTGCCGTACCGGCGGA	[46, 31]
TATCGTCCTTTAAAGAGTGCGCTTATAGTGGA	[46, 47]
CTGAATGGGGCGCAGACTGCTTTTGCGCCCAC	[46, 63]
GACCCAGGCCTGTGAACTCTCCGCCGGCGAAA	[46, 79]
TTACCTGCGGCAGCAGACACAGTGTACGTCTT	[46, 95]
TCACATACTTTTGCATGCAGGGTGCACAGGAT	[46, 111]
CTGCTCCTTGACTCTTAATTATCACATGTTGT	[46, 127]
TTTTTTTTGACCCAAAGCGGTAACTTTTTTTT	[46, 143]
ATCGGATTTTTTTTTTTTTTTTTTCTTCTTTC	[48, 15]
GGGGACTCTTAGGGTCTTGTCTTAGTAGTTAAATGAATCCACTACACC	[48, 31]
ACTCGTCGTATTCTTCCTGCTGTAGACTCGAG	[48, 47]
GTCGGAAGATGCCGTTCAACACAAAATGTATTAGTCAATCCCTGCTCC	[48, 63]
TATTGCTCTATAAAAAAGATGCGAGCCCTAAC	[48, 79]
AACTCATATCAATTTCTCATGGTATCACCCTACAGACTACTCCCCGGA	[48, 95]
CTCCGCATTGCAGGGTAGTAACGCTTTGTACG	[48, 111]
GCGACGCTGCCTACCTGTGTACCTGGCTATACCACTTGACTTTTTTTT	[48, 127]
TTTTTTTTCACTTTAAAGACATAGTTTTTTTT	[48, 143]
CGGCGCCGTTTTTTTTTTTTTTTTCTACAACT	[50, 15]
CTTACTTGTGATCAATCTGTACTACGAAGTCTCATCACGGTTGCGGGG	[50, 31]
CCCGGTGGACGCCCTGAGGATGGCGCCCACCA	[50, 47]
CTGGTCTCGGAACAGACCACGGAAGGTATGCTATCCCCTCTAACGGCC	[50, 63]
AGCCAGAGCCGGACGCGTGGCGCTTTGTTCAT	[50, 79]
GCTCATTCCTTGGTAAGATCACCCAAGGAGATCGATAGAAACAATTTC	[50, 95]
GGTTGCGGGGTGCGTCCAAAGGGCGGCACTAG	[50, 111]
ACTGTAGTCACGTAAAAACATGGTATCGCTGACGCCGTGTTTTTTTTT	[50, 127]
TTTTTTTTCCCGGTCATTTACGCTTTTTTTTT	[50, 143]
ACTTGGACTTTTTTTTTTTTTTTTAGCGCCT	[52, 15]
TAACAAGGTTGCCCTTGCGGATGCATATAACTATATTGTATGGCTGGT	[52, 31]
GCGCCAGATGCCATCGGATATCGCGGCTCCAA	[52, 47]
GAAGGCTGCTAAGCCGAGAACTCTTGATGTCCTACGATGAAACGGTTT	[52, 63]
AAACTGAGCCCGCGGTGCACTAAGCGTAGTGG	[52, 79]
ATGTTCCGTGAATCTTGCGCCCACCTGTTTAAAAGTTGAACCTGGGAA	[52, 95]
GCCAAAATCATCGTGCACAGTGCCATCGCCAA	[52, 111]
CTGCTGAACCCGTTCCTCAAGGAAGAGTACATTCGCACGATTTTTTTT	[52, 127]
TTTTTTTTGAGTAAGGGGTCAGACTTTTTTTT	[52, 143]
ACATGAGGCAAGGACGCGATGCTTTTTTTTTTTTTTTTTTTGACACCC	[54, 31]
CAGAGATGGCGAGATAGGCGGATACGACCGTTATATTGCTAAAGTGAG	[54, 63]
ACCTTCAACTCCATTGCCCGCGTACGTCGAGGAAATACGAAAAACGAC	[54, 95]
TTGTGAACTCGTCTACGACTCTACTGGTTCAACGTGACGGTAAGACCT	[54, 127]
TTTTTTTTTAGCCAGCCGTCCTGTTTTTTTTT	[54, 143]
TTTTTTTTCCATGCGA	[55, 0]
CGAACGCATTGCCACACATCTTAATTTTTTTTTTTTTTTTTTGCGCTT	[56, 31]
TTGTGCTGAGGGCTGCGACTCTCTGCAGGCGTTTAACCATAAGGTCCG	[56, 63]
TTGTTGCGTCGGGACAAGTGTGGTGCGAGGGTTGCTCAATATGTGTAC	[56, 95]
TAGATGCGAGATAGGTCTCAATAATTTGCATTGTTAGTGGTGGCACCC	[56, 127]
TTTTTTTTTTGCTAGGTCCCTAAATTTTTTTT	[56, 143]
TTTTTTTTCACTCCCA	[57, 0]
TAACATCGTGCTGTAGAGCGTGATTTTTTTTTTTTTTTTTAGGCCTCG	[58, 31]
GATTCATACCCCTCAGCGATGCGGTTAGGTAAGAATATCCCCGGTTGA	[58, 63]
CGGGTATACACAGCACATTACGACCGTGTCTGCCAGCAGTAAACGTCC	[58, 95]
GTGCTGCGGCCTCGTGTCGGCAGCGAGCTTGCGAGCCGATGGAGTGTT	[58, 127]
TTTTTTTTGGAGCGTACTTGGACATTTTTTTT	[58, 143]
TTTTTTTTTGTTCTAC	[59, 0]

Table S6. Sequences of 6H × 10H × 128B-M.

Sequence	5’ end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	[1, 23]
GTTTACTTAGGGATGGTACGAACTCAACGCAC	[1, 39]
GCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 55]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 71]
TTCATGTCGCCTTTTCGAACGGTGACACACTTGTGTTCATTCAGAGTA	[1, 87]
GCGGAAATATGGCCGCTTCGGTGCGCAGCGGG	[1, 103]
CCGCCTGTAACGCTTAATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[1, 119]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[1, 135]
CCGGGCTAATGAAGCCGTGACCCCAGAGACTG	[3, 23]
TCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[3, 39]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGG	[3, 55]
GTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[3, 71]
CGGCTCTGATTTCTAGTGACCTGGTATAATGG	[3, 87]
CGGAGCTACCTGACCTCAATCATACGTCCCAC	[3, 103]
GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[3, 119]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[3, 135]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACTGCCGACTCGTTCAAGC	[5, 39]
ACTATTATCTGGCTATAAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[5, 71]
GCGGCTGGACGACCCCGCCGTGCGACGACTGACCGTCGAGCCCTGCGC	[5, 103]
GACAAACGCATATCCTCGGCCCGCCAAATTAATAGTCGATTACGCTTC	[5, 135]
GCCTAAAGGTCCTTCC	[6, 8]
ACGGTAATCGGGGGTGACTCCGGCCTCCTTGG	[7, 23]
TATATTAGCTTACCCACTCGCGTGGCACGTCTACGACTCGTCGAACGA	[7, 39]
GGACTGTTCTACATAGTGACTTGGACGAGGTT	[7, 55]
TCACTGGGCGCTATACAGGAAACTCGAGGGGCTCCCTGTCTGTCGAGC	[7, 71]
CCAGCGACCACTTCTGGAGAAAGATGCGGTGG	[7, 87]
CAGTAGTTGTGATTAGCTTGGGGGTGATATACCTCACTAAACTCCTTC	[7, 103]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[7, 119]
CAGCTATCCCATATTCGATGTAAGCGGACATC	[7, 135]
TATGCGCCCGATATCCGTTCAAACTAGGGGGC	[9, 23]
TTCTGACCAAAGCTCATGAGAATTGTAAACAG	[9, 39]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[9, 55]
TACCTATGGACGGGGATATGCGACACCATGAT	[9, 71]
CCGGATGAGTTATGAAGATCGTCATTGGGATA	[9, 87]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[9, 103]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[9, 119]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[9, 135]
AGCACGAGGATTATCA	[11, 23]
CGTGTACCTCGAAATAATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[11, 55]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGGTAACTGATTTTCTCCT	[11, 87]
GGTTCCGCTAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAG	[11, 119]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[11, 135]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[13, 23]
CCATAGCTAACCCGATTGTGCATTCCACGTGA	[13, 39]
GTCGTACTTAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[13, 55]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[13, 71]
ACTAATTATCCATAACTGTGCACGTCAGGGATTCTCACCGGTGGCCGT	[13, 87]
TGCTACATCAGTTTCTTTGCACTCCTGGGGAA	[13, 103]
ACTATACTTACGCACTGGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[13, 119]
ATTGTAGGCACAATTTTTGATTCGATCACATA	[13, 135]
CATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[15, 23]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[15, 39]
ACCTCGTCATTCGGATAAACCATACTGAGGGC	[15, 55]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[15, 71]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[15, 87]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[15, 103]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[15, 119]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[15, 135]
GACCAGATCTGCTAGAAACCACCAACATCCTCCTTGACACCTTTCAAT	[17, 39]
TTTTAGTAAACACCCAACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[17, 71]
TCGTATGATCATAGGATCAAACTAAATACAGCGTACCGCCAGTTCTTG	[17, 103]
TCCTTATTGGCGATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[17, 135]
TTAAGACGGCCGGTGT	[18, 8]
AACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[19, 23]
ACGCGGAACGTAATGGCAGAAAGTCTATACCCGACAAAAACAGATTTG	[19, 39]
TACCGGGGTGAACAGCACGTGCGGCTTCTCCT	[19, 55]
GTATCGCCTTGTGTATTATACTCTTGCGGGGGGGTCGAGCGCTCCACT	[19, 71]
GTAGTGGCCGGCCATCGTGGACTAGAAAGCGC	[19, 87]
CGGCAATCTGAATATCGCTACCTCCGATACGCGAACCAGAACCATTTA	[19, 103]
AGAGTAGGGGCAGTGCTCAGCCAAACAGTGGG	[19, 119]
ACATCTCGGAAAGGTGTCCCAAGTGCAAGTAA	[19, 135]
AAAAGGAATTATGAGATCATGTGGGATCCTAA	[21, 23]
AGTTTCTGGTAGACCTCGTAGGCTAGAGCGGT	[21, 39]
GATATCCACGGTACATTCGTTTACTGCACGGA	[21, 55]
ACGAGAGTGCTGGCATAAGCAAGAGAAACCTA	[21, 71]
ACTTGGGGACTAAGATCGTTGCGAATTTTCGC	[21, 87]
GCGATTCGCATGTAGCCGAACGAGATCGTCCT	[21, 103]
AGACGACGGATCTCCTGCATGCCGGTAGCACC	[21, 119]

GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[21, 135]
CAGCTTGACGCAAGAC	[23, 23]
GCTAATCACTGGGCAGGGTCCTAGGTTGCAGAAACCTACCCCCTAAGC	[23, 55]
AGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	[23, 87]
GGCCTTGACATGACATTCTCCCACCCGTCCAACACCAGCAGGATGTCG	[23, 119]
AGCCCACAACTTGACAGTAGTACAGTATCTTT	[23, 135]
TTTCATGGCGGCGATGTCGCCGTTTGCTCGCGTGCGTACGGCTTTTAT	[25, 23]
ATAGCGTAGACCGGACAACCCCGTAAATCGTA	[25, 39]
AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGTGGGACTGGATCAGATG	[25, 55]
TTCAAGTATTCGGTGACCTCCCCGCATTACAA	[25, 71]
CGCGCTTACCAAGTAACGTATGTACGACGCGATGCGAGTGAACGGGTG	[25, 87]
GATGAATTTCGTTCGGGGCCAGGCGATCTAAG	[25, 103]
TCTGGCGCGTGAGGACACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[25, 119]
ATAGCATCGACACTACGACCTGCTTTTCGACA	[25, 135]
CGGACTGCATTCTGGACAGTAACTGCATTAAC	[27, 23]
TACGTGCTCCCAACATAAGTGACGTCCTCAGC	[27, 39]
AGTTGAAAATTATCTCGATAAGCAGAAGGACC	[27, 55]
TGTATAACTGGCAAGAGACAAGGCCGCTTCAG	[27, 71]
AAAGGATAGCCGGACCGTATTAATGCCGCGCC	[27, 87]
AACGGTTTCCCGGACCTAGTGTCTATCAAGTC	[27, 103]
TATTCTATGAAACCATTCTCGGGTCGAGCGGG	[27, 119]
TCACTGTTGTGACCTACGAGAAGCGTATAGAT	[27, 135]
GTTCCGCGCGAATAGCTCACAGGCGAACTACGTATGAATTGGTTTAAA	[29, 39]
CGCTCCTCGGGAATTAATACGACAGGTGGCAAACCACCTCCGATGTCA	[29, 71]
GCGCCGCATACCCATTCACTGTGAATTTCCACACCGAGGATTCGCAGG	[29, 103]
TCCATGGGATTCACCAAGCTCGTATACACCCTGATTCTCCATGGCAGC	[29, 135]
GCTTCGGTACAGGTCT	[30, 8]
GAACTGGTAGATCACCATTAGTGTACCCAGCA	[31, 23]
GTTCGGCTCCCTTGTGGACTCGGGATACCCGGTCGTCGTGTAATGCTG	[31, 39]
TTCCGGGGTAAATCAAGCTTTATAAATTCCCG	[31, 55]
ACGCTCTGTTCCAAACTTTAGAGCCCGGCCGTAATCTCGGATTCCTTA	[31, 71]
AAAACCAGGCGCAATCTCATGGCATAAACGAA	[31, 87]
ACCCAATCATACGAGCGTGGAGGGAAGTTATTCTACTGGCGTTTTCAT	[31, 103]
ATATCAGAGAGCACAGTAATTCGGAGCCCGGC	[31, 119]
GTATTATCGCGTCAATTCATATGGACACACCA	[31, 135]
GATTACGGCGGCTTAGGGGAATTGAGTACAAG	[33, 23]
TGACGAAGAATACCGTCCATCAGATGGAGCTG	[33, 39]
TCAGGCTTCTCCGTCAAAATGTTGGCTGAGAT	[33, 55]
TGATTGGTTTAGTGTATAGCGAGTAAGAGATA	[33, 71]
TGTGGGAGGATCATTACAGGATCAAAGTTGAC	[33, 87]
TAGCAGAATAATTTGCATCCGAATAAGGTACG	[33, 103]
CAATTACTATTTGTACCGAAAACAAGGGCATA	[33, 119]
CAGTAACGAAAAGCGAACGAGCCACCACCTAG	[33, 135]
CACCTCCTGTTAGGGT	[35, 23]
GACACCCGGGATGGGTTGTTCATCGGTCACCCCAGTTTTCGCTTGAGG	[35, 55]
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CTTTGTGGTCCACTATATATAGGTCTGACACCCAGCTCCCAGGTAAGT	[37, 55]
GCGGAGAGAAATGGCTAATGGTCGACAATATG	[37, 71]
TATTAAGTTTTCGCCGTGAGCGATCAATGACCCCAGTAATAGCCTGAA	[37, 87]
CACCCTGCATCGACGGCTTCTACCTCTTAATG	[37, 103]
TATAATTCATCCTGTGCATGGAAGCAGAGTTCCCATCGGCAAAATTGA	[37, 119]
GTTACCGCTATAATTAAGAACATTCGGGTTCG	[37, 135]
ACGTGGTCTATGTGATCGCCTAGGCTAACCTC	[39, 23]
ATGACTCCAGGAGAGGGTGAGCTCCTACGTGG	[39, 39]
AAGTGTTAATGCCGAGATCTAACTTGATTTTT	[39, 55]
ATTCAGAATCGAGACCTTGCTCTTGGACGTCT	[39, 71]
CATTCTATAGCCCGCGGTTACTAGGCGCCTTG	[39, 87]
CTCCTACGCTCAATAGTGAACCCTTACTATCG	[39, 103]
CGACAGGATAGGTCAAAATAAACGATACTTAA	[39, 119]
AGCTCTAGAGGGGAACCGTAGACTTCACATAA	[39, 135]
AAAACACTCGGCGAGTGTTCTAGGGAGCGGGGATGGTACACCCAGCAT	[41, 39]
TCCTTCAGTCCGCCTACTCATGATCTTTGATATTCTCCCAAATGGATA	[41, 71]
GGGCGTAAACAAAAAACTTGCCTATCGTGCCCTCATACAGCATTGTCT	[41, 103]
ACCACCTATGTTCTTATGCTGTTAACATAGATCGTCGGGCGACCTTCG	[41, 135]
TAAGGTGGGGCCGACC	[42, 8]
ACCGACCAAGGCGCTATAGGGTATACTCGTAA	[43, 23]
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TCCGTCCGTTGGAGCCCACGAACCAACGCATC	[43, 55]
CTTAGTGCTGTAGTTTACCATTACCGGAGGCGCATTAGGTCTATTATA	[43, 71]
ATGGGACGCCACTACGTATCGTTCTATAAAAT	[43, 87]
GGCACTGTCACGGCGCCTTTCAGTGTGAGTGTGATGACCTCGCAGCCT	[43, 103]
GGCACAGCTTGGCGATATATCATCTACAATGT	[43, 119]
GTCTGACCCTTCACATTAATATGGGGATTACC	[43, 135]
CTTCAATAAGTTGTAGGCATCAGCTGGCAGGT	[45, 23]
GCCATCCTACCCGCTTTCTCATGCGAAGCAGG	[45, 39]
ATGTGTAATGGTGGGCGGACGATATCTGCGCC	[45, 55]
AGCGCCACGTCCCCAATTGTCGGGACCTGTCA	[45, 71]

TTGGAGTGATGAACAACCTGGGTCCTGCTGCC	[45, 87]
GCCCTTTGGGGTTCACGCCCGCGCATAACCTA	[45, 103]
AGTAATGTCTAGTGCCGTATGTGAAAGAGTCA	[45, 119]
AGCGTAAAGTCTTGACGTATTCCATCCAGCTG	[45, 135]
ACGGTATGGAAAGAAG	[47, 23]
CGAAGGGGCTCGAGTCTACAGCAGAGCTACGCGTCCCACGTCTTTAAA	[47, 55]
TGTCCCGTGTTAGGGCTCGCATCTCGTGGAATCCATTCAGTTCACAGG	[47, 87]
CCCTTAGCCGTACAAAGCGTTACTGACCCGCTGCAGGTAAATGCAAAA	[47, 119]
CTATGTCTTTCTGAGGAGGAGCAGTTTGGGTC	[47, 135]
TACGGCACCGAGGCCTAATCCGATGACCCTAAGAGTCCCCGAAGAATA	[49, 23]
GGATATTCTCCGCCGGCAAGTAAGCAGGGCGT	[49, 39]
AAAAGCAGTCAACCGGCGACGAGTAACGGCATCTTCCGACTTTTTATA	[49, 55]
ACTGCTGGGTGGGCGCGAGACCAGGCGTCCGG	[49, 71]
CACTGTGTGGACGTTTGAGCAATAGAAATTGATATGAGTTACCCTGCA	[49, 87]
ATCGGCTCAAGACGTAGAATGAGCGACGCACC	[49, 103]
TGATAATTAACACTCCATGCGGAGAGGTAGGCAGCGTCGCTTAAAGTG	[49, 119]
TGTCCAAGACAACATGACTACAGTTGACCGGG	[49, 135]
GGTGCAAAAAGCGCAACGGCGCCGATTGATCA	[51, 23]
ATGGTTAAGTATAGGTCCTTGTTACGATGGCA	[51, 39]
GCAATATTCGGACCTTCCACCGGGTCTGTTCC	[51, 55]
ATTGAGCAGGAATACTCAGCCTTCACCGCGGG	[51, 71]
TCTCTATCGTACACATCTCTGGCTTTACCAAG	[51, 87]
CCACTAACGGGACAGTCGGAACATGCACGATG	[51, 103]
TCCGGGATGGGTGCCACCGCAACCTTTACGTG	[51, 119]
TTTAGGGAATACAAGATTCAGCAGCCTTACTC	[51, 135]
AGCAATATCACGGACAGGAACAACGGGTGTCAGTCCAAGTAAGGGCAA	[53, 39]
TCGTATTTGATGCCCGTGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[53, 71]
CCGTCACGCATTGTGGTTCGCCGCGTCGTTTTCTCAGTTTAAGATTCA	[53, 103]
ACAGGACGATGTTCTCACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[53, 135]
AAGCATCGCGTCCTTG	[54, 8]
GCATCCGCTCGCATGGTTAAGATGTGTGGCAA	[55, 23]
TACAATATAGTTATATCCTCATGTAACGGTCGTATCCGCCTATCTCGC	[55, 39]
AGAGTTCTACCAGCCAAGAGAGTCGCAGCCCT	[55, 55]
TCATCGTAGGACATCACATCTCTGCCTCGACGTACGCGGGCAATGGAG	[55, 71]
GTGGGCGCAAACCGTTACCACACTTGTCCCGA	[55, 87]
TTCAACTTTTAAACAGTTGAAGGTTTGAACCAGTAGAGTCGTAGACGA	[55, 103]
TTCCTTGATTCCCAGGTTATTGAGACCTATCT	[55, 119]
TCGTGCGAATGTACTCGTTCACAAGCTGGCTA	[55, 135]
TAGTACAGTGGGAGTGATCACGCTCTACAGCA	[57, 23]
CCGTGATGAGACTTCGTGCGTTCGACGCCTGC	[57, 39]
TTCCGTGGCCCCGCAACCGCATCGCTGAGGGG	[57, 55]
GAGGGGATAGCATACCCAGCACAAACCCTCGC	[57, 71]
GGGTGATCGGCCGTTAGTCGTAATGTGCTGTG	[57, 87]
TTCTATCGATCTCCTTCGCAACAAAATGCAAA	[57, 103]
ACCATGTTGAAATTGTGCTGCCGACACGAGGC	[57, 119]
ACACGGCGTCAGCGATCGCATCTACCTAGCAA	[57, 135]
TAAGACAAGTAGAACA	[59, 23]
TTGTGTTGGGTGTAGTGGATTCATTTAACTACCGATGTTATTACCTAA	[59, 55]
TACCATGAGGAGCAGGGATTGACTAATACATTTATGAATCCAGACACG	[59, 87]
AGGTACACTCCGGGGAGTAGTCTGTAGGGTGATATACCCGGCAAGCTC	[59, 119]
GTCAAGTGGTATAGCCCGCAGCACTACGCTCC	[59, 135]
CTATCTTCATAGGACACAACAGTTAACCGTGAGTATGATTTTTTTTTT	[0, 47]
CACCGTTCTCCGGTTTAGCGAATTTATGCTCTGGTACACGCCAAGGCA	[0, 79]
GGGCTGATTACTCTGAATGAACACAAGTGTGTCTACCGCTATATTAAG	[0, 111]
TTTTTTTTCGCTCAGCGTATTAGCAAAAGCCCGCGGAACCTGTTTCAC	[0, 143]
TTTTTTTTGAGCCACTTAACCTGGCCATCCCT	[1, 0]
GAGGGAACGTGCGTTGAGTTCGTACAGTCTCTGGGGTCACTTTTTTTT	[2, 47]
CCAGGTCATACTCGATCACTGAGTCCTAGCTAAGCTGTTCTCCCCGTC	[2, 79]
TTCTTAAACCCGCTGCGCACCGAACCATTATATCATCCGGTTACTTCG	[2, 111]
TTTTTTTTGTTCCGGTTCAGAAACTGCGATCACCTATCTTACGCTTAC	[2, 143]
TTTTTTTTGGCTTCATTAGCCCGGCTCCCGGT	[3, 0]
AGCTTGGGACAGCTAAGTGGCTGGGCTTGAACGAGTCGGCTTTTTTTT	[4, 47]
CTCGACGGTTCCAGCTCCATATCCTTATGCTAAACAGTCCGTATAGCG	[4, 79]
ATCGACTAGTGGGACGTATGATTGGCGCAGGGGTCGCTGGCTAATCAC	[4, 111]
TTTTTTTTCAACCAAAAGATGTTCGAAGCGTATCACATTAGAATATGG	[4, 143]
TTTTTTTTAGTTTTGGCACCAGAATGCGAGAT	[5, 0]
CACGCGAGGGAAGGACCTTTAGGCTTTTTTTT	[6, 31]
CGAGTCGTAGACGTGCCTTTACGCCTGACAGACATCTTTTATAGCCAG	[6, 47]
AGTTTCCTTCGTTCGAAGCTCTGTTGGGTGTT	[6, 63]
GACAGGGAGCCCCTCGATAATAGTTCAGTCGTCGCACGGCGGGGTCGT	[6, 79]
CCCCCAAGGCTCGACATAGTTTGATCCTATGA	[6, 95]
TTAGTGAGGTATATCACCAGCCGCTTAATTTGGCGGGCCGAGGATATG	[6, 111]
CTTACATCGAAGGAGTGGAATGCACGATCGCC	[6, 127]
TTTTTTTTGATGTCCGCGTTTGTCTTTTTTTT	[6, 143]
TTTTTTTTCACCCCCGATTACCGTTGGGTAAG	[7, 0]
AATTCTCACCAAGGAGGCCGGAGTTTTTTTTT	[8, 31]
CCAAGTCACTGTTTACGCATCAGATCGCGATCACACTGACACCCTTTT	[8, 47]
GTCGCATAAACCTCGTGACGAGGTGCCGATCT	[8, 63]
TCTTTCTCATCATGGTGGCATCACCTAGAAATCAGAGCCGAGGTCAGG	[8, 79]
GCTATGCTCCACCGCATAACTAAGTGGGGCAC	[8, 95]
TGGAGTTACGCAGGGTTAGCTCCGGGGGATGAATCCTTCCAACATCTC	[8, 111]

GTTATTTCGTTTCCTTGGTACACCTCACTTGC	[8, 127]
TTTTTTTTTTCTGGTCAAAGACTGTTTTTTTT	[8, 143]
TTTTTTTTGGATATCGGGCGCATATGAGCTTT	[9, 0]
CGGAACAGGCCCCCTAGTTTGAACTTTTTTTT	[10, 31]
GAACTTGAGCCTGTTTAAGTAAACTTGAGACTACCCGAGCGAGATGCG	[10, 47]
ATCAGTTAGCGTATCCAGTACGACACAACATA	[10, 63]
TGACGATCAGGAGAAAGATACTTTGAAAAGGCGACATGAAGCGGCCAT	[10, 79]
CGAGGGTTTATCCCAATAATTAGTAGAAACTG	[10, 95]
GTATTACTCTTGCCTCATTTCCGCTAAGCGTTACAGGCGGCCCGCAAC	[10, 111]
AGGTGGCCAGGTAGAGAGTATAGTAAATTGTG	[10, 127]
TTTTTTTTCCCGAGCCAACAGCATTTTTTTTT	[10, 143]
TTTTTTTTTGATAATCCTCGTGCTTCGAGAAA	[11, 0]
CTTGACGAGTATAACCGAGGCGGCTTTTTTTT	[12, 31]
TCCCACGTAAAGCAGGCTAACGATTATTTCGA	[12, 47]
TCAGACGCTCGGGCACTGATTAGCCCGCCGCA	[12, 63]
CGTGCACAACCATACCTAGGTTAAGTGGGAGG	[12, 79]
CGGTGAGAATCCCTGAACTACGCTTTGGACGG	[12, 95]
TCCAAACCACGGCCACGACCATAGATCAGCTA	[12, 111]
GCAATTGCCTAATCCCTCAAGGCCTGTCAAGT	[12, 127]
TTTTTTTTGCAACCTACCTCTCCCTTTTTTTT	[12, 143]
TTTTTTTTTGCCGAGGGGGCACTCATCGGGTT	[13, 0]
AATGCACAGCGCGCCTCAGGCTACTTTTTTTT	[14, 31]
TATGGTTTTCACGTGGGGTCAGAACTGCTCTA	[14, 47]
CACTTGAGGCCCTCAGTGGATATCATGCCAGC	[14, 63]
CTAATGAAACTGTTAGCATAGGTATTCATAAC	[14, 79]
GAGTGCAATTCCGCCCCCCCAAGTGCTACATG	[14, 95]
CTCGGCCCTTCCCCAGAGATTGTAGCTGTGAC	[14, 111]
CGAATCAAGCCCAGCGCGTCGTCTAGCACGCA	[14, 127]
TTTTTTTTTATGTGATGTCCAACATTTTTTTT	[14, 143]
TTTTTTTTAGCTTTATTGCCCATGGTGACACG	[15, 0]
ATATCAAGATTGAAAGGTGTCAAGTTTTTTTT	[16, 31]
CGACCATGGTCCCTCACTAATATACTATGTAG	[16, 47]
AATGATTACAGTAGAACCCCGGTAATACACAA	[16, 63]
GGCGGTACGGAGCACTCCCAGTGACAGAAGTG	[16, 79]
ACTGTACGCAAGAACTGCCACTACGATATTCA	[16, 95]
GCGGCCATGGTTGGTTAACTACTGACGCTTAG	[16, 111]
CATATATTTAAGCCACCCTACTCTCACCTTTC	[16, 127]
TTTTTTTTGACCAAGTGATAGCTGTTTTTTTT	[16, 143]
TTTTTTTTGAGGATGTTGGTGGTTTCTAGCAG	[17, 0]
ACTTTCTGACACCGGCCGTCTTAATTTTTTTT	[18, 31]
TTTTTGTCGGGTATAGATCTGGTCGGAAGTTC	[18, 47]
AGAGTATACAAATCTGTGTCGTATTAATTCCC	[18, 63]
GCTCGACCCCCCCGCATACTAAAAGCTGTATT	[18, 79]
GAGGTAGCAGTGGAGCTCACAGTGAATGGGTA	[18, 95]
TCTGGTTCGCGTATCGTCATACGACAAACATT	[18, 111]
ACTTGGGATAAATGGTTACGAGCTTGGTGAAT	[18, 127]
TTTTTTTTTTACTTGCAATAAGGATTTTTTTT	[18, 143]
TTTTTTTTACGACTTTATGTGGTTCCATTACG	[19, 0]
AGCCTACGTGACTACCGGAGGCGGTTTTTTTT	[20, 31]
CCGCACGTACCGCTCTGTGCAGCTATCCGAAT	[20, 47]
TCTTGCTTAGGAGAAGTTTCAACTTCTTGCCA	[20, 63]
TAGTCCACTAGGTTTCCGCCCACTCTATGAAC	[20, 79]
CTCGTTCGGCGCTTTCTATCCTTTGGTCCGGG	[20, 95]
TTGGCTGAAGGACGATCAGCCCATTACCCACA	[20, 111]
GCGTTAAACCCACTGTATAGAATATAGGTCAC	[20, 127]
TTTTTTTTGGTCTAAAACATGTAATTTTTTTT	[20, 143]
TTTTTTTTTCTCATAATTCCTTTTAGGTCTAC	[21, 0]
GGTAGGTTTTAGGATCCCACATGATTTTTTTT	[22, 31]
GTAAACGAGCTTAGGGAGCTATGGTTGCTTTA	[22, 47]
TCGTACAGTCCGTGCAACGACTCTTCACCGAA	[22, 63]
TCGCAACGGGACTCATGTGGGTAAGTTATGGA	[22, 79]
TGCTGGTGGCGAAAATTAAGCGCGCCGAACGA	[22, 95]
CGGCATGCCGACATCCATGTAGCAAGTGCGTA	[22, 111]
TGTACTACGGTGCTACGCGCCAGAGTAGTGTC	[22, 127]
TTTTTTTTAAAGATACCCTACAATTTTTTTTT	[22, 143]
TTTTTTTTGTCTTGCGTCAAGCTGTCTGCAAC	[23, 0]
CGTACGCACGCGAGCAAACGGCGATTTTTTTT	[24, 31]
AGAACCGGATAAAAGCCTAGGACCCTGCCCAG	[24, 47]
CCAGTCCCACTCTAGCCGGGTGTCCACAACTT	[24, 63]
TACATACGCATCTGATGGAACTTGTAACCCTT	[24, 79]
CACTCGCATCGCGTCGGGACTATTAGTAAATG	[24, 95]
ACTTACGTCACCCGTTGTGGGAGAATGTCATG	[24, 111]
AAAGCTTCCTACTTCAGTGCATCTAATGGCAA	[24, 127]
TTTTTTTTGGCTAGAATGTGGGCTTTTTTTTT	[24, 143]
TTTTTTTTCATCGCCGCCATGAAAGTCCGGTC	[25, 0]
ACGGGGTTGTTAATGCAGTTACTGTTTTTTTT	[26, 31]
TGCTTATCTACGATTTCAGAAACTATGTACCG	[26, 47]
CGGGGAGGGGTCCTTCAAGCCTGATACACTAA	[26, 63]
ATTAATACTTGTAATGACTCTCGTATCTTAGT	[26, 79]
GCCTGGCCGGCGCGGCCTCCCACAGCAAATTA	[26, 95]
ACCCGAGACTTAGATCCGAATCGCAGGAGATC	[26, 111]

AGCAGGTCCCCGCTCGAGTAATTGTCGCTTTT	[26, 127]
TTTTTTTTTGTCGAAATATTTGACTTTTTTTT	[26, 143]
TTTTTTTTTCCAGAATGCAGTCCGATGTTGGG	[27, 0]
CGTCACTTTTTAAACCAATTCATATTTTTTTT	[28, 31]
GAGGTGGTGCTGAGGATTCCGCGTGCTGTTCA	[28, 47]
GCCTTGTCTGACATCGCCCCGGAAGTTTGGAA	[28, 63]
TCCTCGGTCTGAAGCGGGCGATACGATGGCCG	[28, 79]
AGACACTACCTGCGAACTGGTTTTGCTCGTAT	[28, 95]
GGAGAATCGACTTGATGATTGCCGGCACTGCC	[28, 111]
GCTTCTCGGCTGCCATTCTGATATATTGACGC	[28, 127]
TTTTTTTTATCTATACCGAGATGTTTTTTTTT	[28, 143]
TTTTTTTTCGTAGTTCGCCTGTGAGCTATTCG	[29, 0]
CCCGAGTCAGACCTGTACCGAAGCTTTTTTTT	[30, 31]
CACGACGACCGGGTATCGCGGAACTTGCCACC	[30, 47]
GCTCTAAACAGCATTAATCATGAGTAGGCGGA	[30, 63]
CCGAGATTACGGCCGGGAGGAGCGGTGGAAAT	[30, 79]
CCCTCCACTAAGGAATTAGGCAAGTTTTTTGT	[30, 95]
GCCAGTAGAATAACTTTGCGGCGCAGGGTGTA	[30, 111]
CCATATGAATGAAAACTAACAGCATAAGAACA	[30, 127]
TTTTTTTTTGGTGTGTCCCATGGATTTTTTTT	[30, 143]
TTTTTTTTGGTGATCTACCAGTTCCACAAGGG	[31, 0]
TCTGATGGTGCTGGGTACACTAATTTTTTTTT	[32, 31]
TATAAAGCCAGCTCCAAGCACGTAGAGATAAT	[32, 47]
ACTCGCTACGGGAATTTAACACTTGGTCTCGA	[32, 63]
TGCCATGATATCTCTTGTTATACAGGTCCGGC	[32, 79]
ATTCGGATTTCGTTTAATAGAATGCTATTGAG	[32, 95]
CCGAATTACGTACCTTAAACCGTTATGGTTTC	[32, 111]
TGGCTCGTGCCGGGCTTCCTGTCGGTTCCCCT	[32, 127]
TTTTTTTTCTAGGTGGAACAGTGATTTTTTTT	[32, 143]
TTTTTTTTCTAAGCCGCCGTAATCACGGTATT	[33, 0]
GAAAACTGCTTGTACTCAATTCCCTTTTTTTT	[34, 31]
CAACATTTCCTCAAGCTACGCTATGGGGCATA	[34, 47]
CAGTGCGGATCTCAGCCCACAAAGAGCCATTT	[34, 63]
TGATCCTGTCAGATTCTACTTGAATTACTTGG	[34, 79]
TACCGAGCGTCAACTTACTTAATACCGTCGAT	[34, 95]
TGTTTTCGACATGGTCAATTCATCGTCCTCAC	[34, 111]
AATTAGAATATGCCCTGAATTATATAATTATA	[34, 127]
TTTTTTTTAAAGTATTGATGCTATTTTTTTTT	[34, 143]
TTTTTTTTACCCTAACAGGAGGTGGGGTGACC	[35, 0]
ACCATTGTGTCGAATTCGCTGATCTTTTTTTT	[36, 31]
ACCTATATCAAAAGATGATGAACAACCCATCC	[36, 47]
GGGAGCTGGGTGTCAGCCCCTTCGATTCCACG	[36, 63]
ATCGCTCAACTTACCTTTATCATGCATTTCTT	[36, 79]
ATTACTGGGGTCATTGACGGGACAAGCGGGTC	[36, 95]
CTTCCATGTTCAGGCTAGTGTCTCGAGAACCG	[36, 111]
GCCGATGGGAACTCTGGCTAAGGGCCTCAGAA	[36, 127]
TTTTTTTTTCAATTTTACTGGAGTTTTTTTT	[36, 143]
TTTTTTTTCGCGGACATTATATTACGGTTTAC	[37, 0]
CAGGCAAGGAGGTTAGCCTAGGCGTTTTTTTT	[38, 31]
AGTTAGATTATTGGCCCTTCGTCATGACGGAG	[38, 47]
CGACCATTAAAAATCATTACACATTTGGGGAC	[38, 63]
CTAGTAACCATATTGTACCAATCATAATGATC	[38, 79]
GGTAGAAGCAAGGCGCCACTCCAAGTGAACCC	[38, 95]
CGTTTATTCATTAAGATTCTGCTAGTACAAAT	[38, 111]
AATGTTCTTTAAGTATACATTACTGTCAAGAC	[38, 127]
TTTTTTTTCGAACCCGCGTTACTGTTTTTTTT	[38, 143]
TTTTTTTTATCACATAGACCACGTCCTCTCCT	[39, 0]
GAGCTCACATGCTGGGTGTACCATTTTTTTTT	[40, 31]
TGGGAGAACCACGTAGAGCCGAACTTGATTTA	[40, 47]
AAGAGCAATATCCATTCGGACGGAAAACTACA	[40, 63]
CTGTATGAAGACGTCCCAGAGCGTGATTGCGC	[40, 79]
AGGGTTCAAGACAATGCGTCCCATGCGCCGTG	[40, 95]
GCCCGACGCGATAGTAGATTGGGTCTGTGCTC	[40, 111]
AGTCTACGCGAAGGTCGCTGTGCCATGTGAAG	[40, 127]
TTTTTTTTTTATGTGAGATAATACTTTTTTTT	[40, 143]
TTTTTTTTCCCCGCTCCCTAGAACACTCGCCG	[41, 0]
TCGTATTAGGTCGGCCCCACCTTATTTTTTTT	[42, 31]
GGTATTTTTTGTCGTTAGTGTTTTTATCAAAG	[42, 47]
GTAATGGTCCGGCGAACATACACACGGGCATC	[42, 63]
ACCTAATGCGCCTCCGCTGAAGGAGGGCACGA	[42, 79]
ACTGAAAGTATAATAGGCGGCGAACCACAATG	[42, 95]
AGGTCATCACACTCACTTACGCCCATCTATGT	[42, 111]
CCATATTAAGGCTGCGGAAGAGGTGAGAACAT	[42, 127]
TTTTTTTTGGTAATCCTAGGTGGTTTTTTTTT	[42, 143]
TTTTTTTTTAGCGCCTTGGTCGGTCGCATTCA	[43, 0]
GCATGAGATTACGAGTATACCCTATTTTTTTT	[44, 31]
GGTTCGTGCCTGCTTCGGAGTCATCTCGGCAT	[44, 47]
CCCGACAAGATGCGTTAATATTGCAGTATTCC	[44, 63]
GAACGATATGACAGGTTTCTGAATCGCGGGCT	[44, 79]
GCGCGGGCATTTTATAGATAGAGAACTGTCCC	[44, 95]
GATGATATTAGGTTATCGTAGGAGTTGACCTA	[44, 111]

TGGAATACACATTGTAATCCCGGATCTTGTAT	[44, 127]
TTTTTTTCAGCTGGACTAGAGCTTTTTTTTT	[44, 143]
TTTTTTTTCTACAACTTATTGAAGAAGCGGGT	[45, 0]
CGTGGGACACCTGCCAGCTGATGCTTTTTTTT	[46, 31]
TATCGTCCTTTAAAGAGTGCGCTTATAGTGGA	[46, 47]
CTGAATGGGGCGCAGACTGCTTTTGCGCCCAC	[46, 63]
GACCCAGGCCTGTGAACTCTCCGCCGGCGAAA	[46, 79]
TTACCTGCGGCAGCAGACACAGTGTACGTCTT	[46, 95]
TCACATACTTTTGCATGCAGGGTGCACAGGAT	[46, 111]
CTGCTCCTTGACTCTTAATTATCACATGTTGT	[46, 127]
TTTTTTTTGACCCAAAGCGGTAACTTTTTTTT	[46, 143]
TTTTTTTTCTTCTTTCCATACCGTGCGTAGCT	[47, 0]
GGGGACTCTTAGGGTCATCGGATTTTTTTTTT	[48, 31]
ACTCGTCGTATTCTTCCTGCTGTAGACTCGAG	[48, 47]
GTCGGAAGATGCCGTTCAACACAAAATGTATTAGTCAATCCCTGCTCC	[48, 63]
TATTGCTCTATAAAAAAAGATGCGAGCCCTAAC	[48, 79]
AACTCATATCAATTTCTCATGGTATCACCCTACAGACTACTCCCCGGA	[48, 95]
CTCCGCATTGCAGGGTAGTAACGCTTTGTACG	[48, 111]
GCGACGCTGCCTACCTGTGTACCTGGCTATACCACTTGACTTTTTTTT	[48, 127]
TTTTTTTTCACTTTAAAGACATAGTTTTTTTT	[48, 143]
TTTTTTTTAGGCCTCGGTGCCGTACCGGCGGA	[49, 0]
CTTACTTGTGATCAATCGGCGCCGTTTTTTTT	[50, 31]
CCCGGTGGACGCCCTGAGGATGGCGCCCACCA	[50, 47]
CTGGTCTCGGAACAGACCACGGAAGGTATGCTATCCCCTCTAACGGCC	[50, 63]
AGCCAGAGCCGGACGCGTGGCGCTTTGTTCAT	[50, 79]
GCTCATTCCTTGGTAAGATCACCCAAGGAGATCGATAGAAACAATTTC	[50, 95]
GGTTGCGGGGTGCGTCCAAAGGGCGGCACTAG	[50, 111]
ACTGTAGTCACGTAAAAACATGGTATCGCTGACGCCGTGTTTTTTTTT	[50, 127]
TTTTTTTTCCCGGTCATTTACGCTTTTTTTTT	[50, 143]
TTTTTTTTTTGCGCTTTTTGCACCACCTATAC	[51, 0]
TAACAAGGTTGCCCTTACTTGGACTTTTTTTT	[52, 31]
GCGCCAGATGCCATCGGATATCGCGGCTCCAA	[52, 47]
GAAGGCTGCTAAGCCGAGAACTCTTGATGTCCTACGATGAAACGGTTT	[52, 63]
AAACTGAGCCCGCGGTGCACTAAGCGTAGTGG	[52, 79]
ATGTTCCGTGAATCTTGCGCCCACCTGTTTAAAAGTTGAACCTGGGAA	[52, 95]
GCCAAAATCATCGTGCACAGTGCCATCGCCAA	[52, 111]
CTGCTGAACCCGTTCCTCAAGGAAGAGTACATTCGCACGATTTTTTTT	[52, 127]
TTTTTTTTGAGTAAGGGGTCAGACTTTTTTTT	[52, 143]
TTTTTTTTTGACACCCGTTGTTCCTGTCCGTG	[53, 0]
ACATGAGGCAAGGACGCGATGCTTTTTTTTTT	[54, 31]
CAGAGATGGCGAGATAGGCGGATACGACCGTTATATTGCTAAAGTGAG	[54, 63]
ACCTTCAACTCCATTGCCCGCGTACGTCGAGGAAATACGAAAAACGAC	[54, 95]
TTGTGAACTCGTCTACGACTCTACTGGTTCAACGTGACGGTAAGACCT	[54, 127]
TTTTTTTTTAGCCAGCCGTCCTGTTTTTTTTT	[54, 143]
TTTTTTTTCCATGCGAGCGGATGCATATAACTATATTGTATGGCTGGT	[55, 0]
CGAACGCATTGCCACACATCTTAATTTTTTTT	[56, 31]
TTGTGCTGAGGGCTGCGACTCTCTGCAGGCGTTTAACCATAAGGTCCG	[56, 63]
TTGTTGCGTCGGGACAAGTGTGGTGCGAGGGTTGCTCAATATGTGTAC	[56, 95]
TAGATGCGAGATAGGTCTCAATAATTTGCATTGTTAGTGGTGGCACCC	[56, 127]
TTTTTTTTTTGCTAGGTCCCTAAATTTTTTTT	[56, 143]
TTTTTTTTCACTCCCACTGTACTACGAAGTCTCATCACGGTTGCGGGG	[57, 0]
TAACATCGTGCTGTAGAGCGTGATTTTTTTTT	[58, 31]
GATTCATACCCCTCAGCGATGCGGTTAGGTAAGAATATCCCCGGTTGA	[58, 63]
CGGGTATACACAGCACATTACGACCGTGTCTGCCAGCAGTAAACGTCC	[58, 95]
GTGCTGCGGCCTCGTGTCGGCAGCGAGCTTGCGAGCCGATGGAGTGTT	[58, 127]
TTTTTTTTGGAGCGTACTTGGACATTTTTTTT	[58, 143]
TTTTTTTTTGTTCTACTTGTCTTAGTAGTTAAATGAATCCACTACACC	[59, 0]

Table S7. 3H × 3H × (32B, 64B, 128B, 256B, 512B, 1024B). Each design is color coded and contains “core” and “end” sequences.

Core sequence	Voxels
TGGAGTTATTTTTTTT	[0, 0, 0, 1, 0, 0, 0, 0]
TCCTGTCGTTTTTTTT	[0, 0, 2, 1, 0, 0, 0, 0]
TTTTTTTTGGGTTAGA	[0, 0, 7, 1, 0, 0, 0, 0]
ATCGGATTTTTTTTTTTTTTTTTTTACGCTTAGTCACATTAGAATATGG	[0, 0, 4, 1, 0, 0, 1, 1, 1, 2, 1, 3]
CGACAGGATAGGTCAA	[2, 1, 2, 2, 0, 0, 0, 0]
ACCAATGTAAGCAGAT	[5, 1, 5, 2, 0, 0, 0, 0]
AATCTTTGTTATGGTG	[8, 1, 8, 2, 0, 0, 0, 0]
TAATGTGACTAAGCGTTAACTCCAAAGGAAACCCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]
TGTTTGCTTCTAACCCGGCTACGAGTGGTCTGAGAGTCTGGAGATGAT	[7, 1, 7, 2, 6, 1, 6, 2, 6, 3, 6, 4]
CAGACTCTCAGACCACTCGTAGCCTTTTTTTTTTTTTTTTATCTGCTT	[6, 2, 6, 3, 0, 0, 6, 1, 0, 0, 5, 1]
GGCTCCCGCACCATAACAAAGATTTTTTTTTTTTTTTTTTAGGCCTCG	[8, 2, 8, 3, 0, 0, 8, 1, 0, 0, 3, 1]
GAGTCCCCGAAGAATATACGGCACCGAGGCCTAATCCGATGACCCTAA	[3, 3, 3, 4, 3, 1, 3, 2, 4, 1, 4, 2]
GTCAGGAGTTAGGGTCAGCAAACAGTTCCTTCATACTGTCGGAAGACC	[4, 2, 4, 3, 7, 2, 7, 3, 7, 4, 7, 5]
CAGCTATCCCATATTCGATGTAAGCGGACATCAATAAACGATACTTAA	[1, 3, 1, 4, 2, 3, 2, 4, 2, 5, 2, 6]
GACAGTATGAAGGAACCGGGAGCCTCGGGGGAAGGACTTGTAGCGATG	[7, 3, 7, 4, 8, 3, 8, 4, 8, 5, 8, 6]
GTTTGAACGAGCCACTTAACCTGGGTTTCCTTACATTGGTGCATGCCG	[0, 4, 0, 5, 0, 2, 0, 3, 5, 2, 5, 3]
CTTACTTGTGTAAAGGGATAGCTGGGATATCGGGCGCATATGAGCTTT	[4, 4, 4, 5, 1, 4, 1, 5, 1, 6, 1, 7]
CGTTTATTGATGTCCGCTTACATCTTGACCTAGTGCCGTATATTCTTC	[2, 4, 2, 5, 2, 2, 2, 3, 3, 2, 3, 3]
TATGCGCCCGATATCCGTTCAAACTAGGGGGCAATCATACTCACGGTT	[1, 5, 1, 6, 0, 5, 0, 6, 0, 7, 0, 8]
CTCCGAAATGGAAGTGGGATCTACCGGCATGCCTCCTGACCCTTTACA	[5, 5, 5, 6, 5, 3, 5, 4, 4, 3, 4, 4]
GCAGTCCCGGTCTTCCCTGCAAGAATGCATGAGTAGGGTACCGCTGGG	[7, 5, 7, 6, 6, 5, 6, 6, 6, 7, 6, 8]
TACCCTACTCATGCATTCTTGCAGATCATCTCGTAGATCCCACTTCCA	[6, 6, 6, 7, 6, 4, 6, 5, 5, 4, 5, 5]
AACTGTACCATCGCTACAAGTCCTTCCCCCGAGGGGACTCCCGGCGGA	[8, 6, 8, 7, 8, 4, 8, 5, 3, 4, 3, 5]
AAAAGCAGTCAACCGGGGATATTCTCCGCCGGCAAGTAAGCAGGGCGT	[3, 7, 3, 8, 3, 5, 3, 6, 4, 5, 4, 6]
TGAGATTAACGCCCTGGGGACTGCATTCCATGTAGGAAAACTACCGAT	[4, 6, 4, 7, 7, 6, 7, 7, 7, 8, 7, 9]
TTCTGACCAAAGCTCATGAGAATTGTAAACAGAGCTCTAGAGGGGAAC	[1, 7, 1, 8, 2, 7, 2, 8, 2, 9, 2, 10]
TTTTCCTACATGGAATGTACAGTTCCTGACATACAAGAAGGGCTATCT	[7, 7, 7, 8, 8, 7, 8, 8, 8, 9, 8, 10]
GAACTTGAAACCGTGAGTATGATTGCCCCCTATTTCGGAGTCACCTAA	[0, 8, 0, 9, 0, 6, 0, 7, 5, 6, 5, 7]
GTCGGAAGGTTAAAAAGGTCAGAACTGCTCTAAGCTGTTCTCCCCGTC	[4, 8, 4, 9, 1, 8, 1, 9, 1, 10, 1, 11]
CTAGAGCTCTGTTTACAATTCTCATTAAGTATGAATATCCCCGGTTGA	[2, 8, 2, 9, 2, 6, 2, 7, 3, 6, 3, 7]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGCAACTGTTGTGTCCTAT	[1, 9, 1, 10, 0, 9, 0, 10, 0, 11, 0, 12]
TGTTATATGATATTTGAAACTACTTTAGGTGATAATCTCATTTTTAAC	[5, 9, 5, 10, 5, 7, 5, 8, 4, 7, 4, 8]
CACAGTCAATCGGTAGGTGGGCCTTGAGGTTAGTTGCCCTCGACCGAT	[7, 9, 7, 10, 6, 9, 6, 10, 6, 11, 6, 12]
AGGGCAACTAACCTCAAGGCCCACCCCAGCGGAGTAGTTTCAAATATC	[6, 10, 6, 11, 6, 8, 6, 9, 5, 8, 5, 9]
GCGAAGCTTATAAAAATGACTGTGATCGCGGACAAGGACATCCACTGC	[4, 10, 4, 11, 7, 10, 7, 11, 7, 12, 7, 13]
CGGACGAAAGATAGCCCTTCTTGTATGTCAGGCTGCTTTTATGCCGTT	[8, 10, 8, 11, 8, 8, 8, 9, 3, 8, 3, 9]
TACCTATGGACGGGGATATGCGACACCATGATCGTAGACTTCACATAA	[1, 11, 1, 12, 2, 11, 2, 12, 2, 13, 2, 14]
ACTGCTGGGTGGGCGCCGACGAGTAACGGCATCTTCCGACTTTTTATA	[3, 11, 3, 12, 3, 9, 3, 10, 4, 9, 4, 10]
TGTCCTTGTCCGCGATTTCGTCCGGTGCTCTACCTTTGACATGGGGTT	[7, 11, 7, 12, 8, 11, 8, 12, 8, 13, 8, 14]
TGACGATCATAGGACACAACAGTTGCGTATCCATATAACAACACGGTG	[0, 12, 0, 13, 0, 10, 0, 11, 5, 10, 5, 11]
ACACAGTGAGAAGATTCATAGGTATTCATAACTCATCCGGTTACTTCG	[4, 12, 4, 13, 1, 12, 1, 13, 1, 14, 1, 15]
AGTCTACGATCATGGTGTCGCATAGTTCCCCTACTCGTCGGCGCCCAC	[2, 12, 2, 13, 2, 10, 2, 11, 3, 10, 3, 11]
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ATTCTGCTTCCACGAAGATTATGCTATTGTGCGTCGGCCCTTATTTAC	[6, 22, 6, 23, 6, 20, 6, 21, 5, 20, 5, 21]
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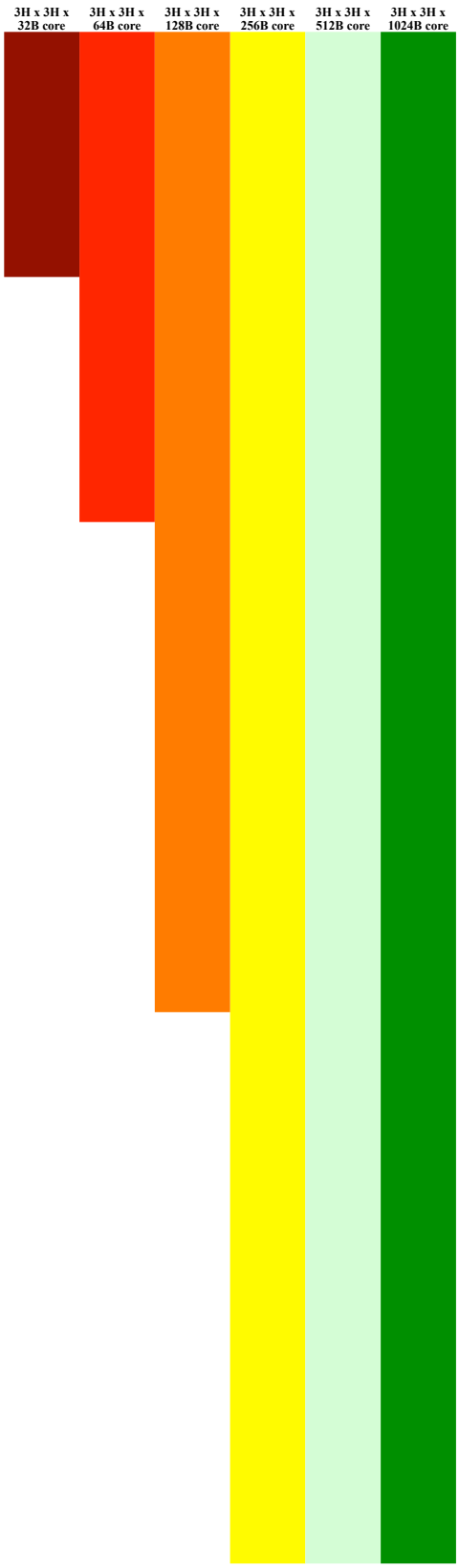

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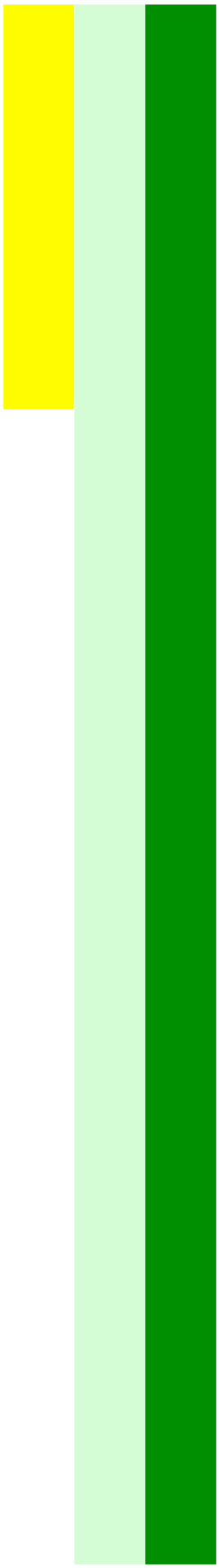

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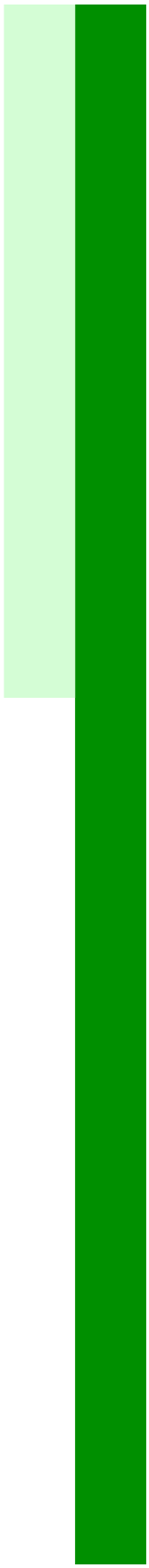

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GCTACGCATGCAATTTCGAAGCTGCAGTAAGTTACGATGACGTCGAGG [8, 78, 8, 79, 8, 76, 8, 77, 3, 76, 3, 77]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTATAATACGAAACGACAA [1, 79, 1, 80, 2, 79, 2, 80, 2, 81, 2, 82]
GTGGGCGCAAACCGTTCATCTCTGCCTCGACGTACGCGGGCAATGGAG [3, 79, 3, 80, 3, 77, 3, 78, 4, 77, 4, 78]
GTCGCACTTGTGTGAATGCGTAGCATGCACCGCGATACCAAATGAGAA [7, 79, 7, 80, 8, 79, 8, 80, 8, 81, 8, 82]
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AAGTTGAATACTCTAAGGAATGCAACACCGGCCGTCTTAATGACTACC [4, 80, 4, 81, 1, 80, 1, 81, 1, 82, 1, 83]
TCGTATTATAAGCCACGCGGCCATCGCATTCACAGAGATGAACGGTTT [2, 80, 2, 81, 2, 78, 2, 79, 3, 78, 3, 79]
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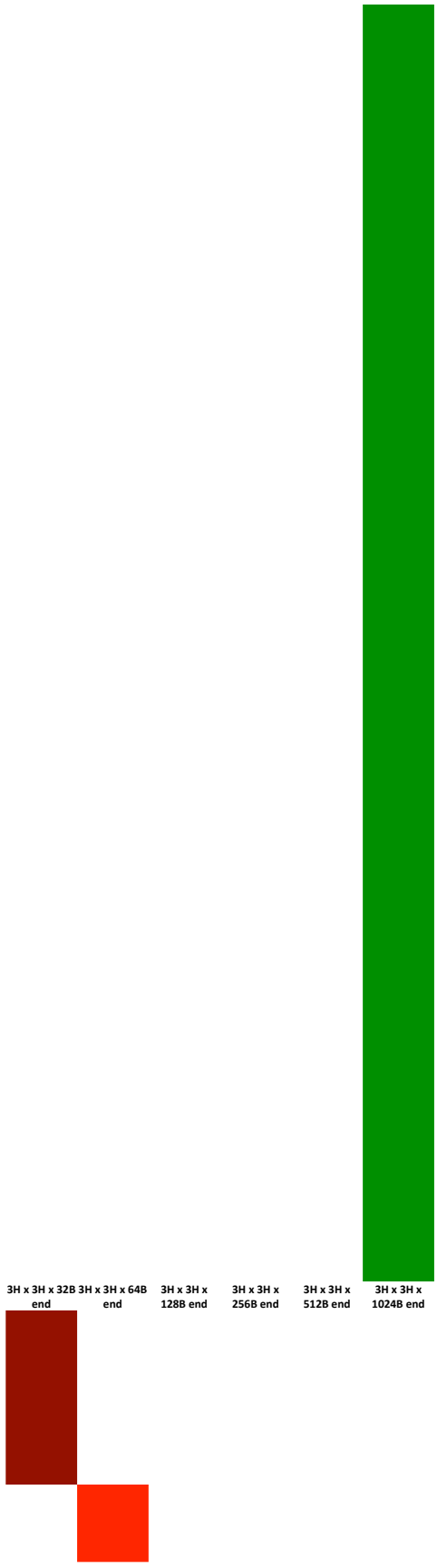
AGGAAATACCACTGCCTTCCTAACGCAGGTGCCGGCGGCTCAACCCGT	[7, 117, 7, 118, 6, 117, 6, 118, 6, 119, 6, 120]
AGCCGCCGGCACCTGCGTTAGGAATAGGACAATTAATTTAAGCAGTAC	[6, 118, 6, 119, 6, 116, 6, 117, 5, 116, 5, 117]
AGTCCTTCCCTGCTCCTATTTCCTTACCTGCTCCTGAATGTCCATGTA	[4, 118, 4, 119, 7, 118, 7, 119, 7, 120, 7, 121]
CTTTTCTGGGCGAGACTGGCTCGGAGGATTATATGAATCCTTAGGTAA	[8, 118, 8, 119, 8, 116, 8, 117, 3, 116, 3, 117]
GGTCCTAGGTTGCAGAAACCTACCCCCTAAGCCTTTCAGTGTGAGTGT	[1, 119, 1, 120, 2, 119, 2, 120, 2, 121, 2, 122]
GATTGACTAATACATTCGATGTTATTACCTAATACCATGAGGAGCAGG	[3, 119, 3, 120, 3, 117, 3, 118, 4, 117, 4, 118]
CATTCAGGAGCAGGTACAGAAAAGGAACCGACCCCGCAAGTAGTCTCG	[7, 119, 7, 120, 8, 119, 8, 120, 8, 121, 8, 122]
GGAACTTGCCATTATACCAGGTCACTGCCCAGCCTGCCTATCCCGTCT	[0, 120, 0, 121, 0, 118, 0, 119, 5, 118, 5, 119]
GTGTACCTTTGGTGCACTAGGACCTAACCCTTACTACGCTGGACTCAT	[4, 120, 4, 121, 1, 120, 1, 121, 1, 122, 1, 123]
ACTGAAAGGCTTAGGGGGTAGGTTGCGCCGTGTAACATCGAATGTATT	[2, 120, 2, 121, 2, 118, 2, 119, 3, 118, 3, 119]
AGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCGGAGCTACCTGACCT	[1, 121, 1, 122, 0, 121, 0, 122, 0, 123, 0, 124]
CTAAAGACGGGGTTGATCCATACTAGACGGGAGAAGGACTTGCACCAA	[5, 121, 5, 122, 5, 119, 5, 120, 4, 119, 4, 120]
GAGTGCGTTACATGGAATAAGTCTCTCGGCGTGCAGGTTAAGCATGTC	[7, 121, 7, 122, 6, 121, 6, 122, 6, 123, 6, 124]
TAACCTGCACGCCGAGAGACTTATACGGGTTGAGTATGGATCAACCCC	[6, 122, 6, 123, 6, 120, 6, 121, 5, 120, 5, 121]
GGAAGGTCTCCCCGGAACGCACTCTCTCCACACATGGAGTAGCGCCCA	[4, 122, 4, 123, 7, 122, 7, 123, 7, 124, 7, 125]
GTTGCTACCGAGACTACTTGCGGGGTCGGTTCAGTCAATCCGTGTCTG	[8, 122, 8, 123, 8, 120, 8, 121, 3, 120, 3, 121]
CTGTACGAATGAGTCCGGCCTTGACATGACATGATGACCTCGCAGCCT	[1, 123, 1, 124, 2, 123, 2, 124, 2, 125, 2, 126]
GTAGTCTGTAGGGTGATATGAATCCAGACACGAGGTACACTCCGGGGA	[3, 123, 3, 124, 3, 121, 3, 122, 4, 121, 4, 122]
ACTCCATGTGTGGAGAGTAGCAACGGCTGTCAGAACCTTTACTTACCA	[7, 123, 7, 124, 8, 123, 8, 124, 8, 125, 8, 126]
TGCTGGTGAGGTCAGGTAGCTCCGCCGCCGCAGTCTTTAGTCTTTGCA	[0, 124, 0, 125, 0, 122, 0, 123, 5, 122, 5, 123]
CACTTGACAAATGTGATCGTACAGTTGGACGGGTGGGAGATGTCAAGT	[4, 124, 4, 125, 1, 124, 1, 125, 1, 126, 1, 127]
AGGTCATCATGTCATGTCAAGGCCACACTCACGATTCATATCACCCTA	[2, 124, 2, 125, 2, 122, 2, 123, 3, 122, 3, 123]
TCTCCCACCCGTCCAACACCAGCAGGATGTCGCAATCATACGTCCCAC	[1, 125, 1, 126, 0, 125, 0, 126, 0, 127, 0, 128]
TTATTGGGGGTGAAGAGAGGGCTGTGCAAAGAGACCTTCCTCACATTT	[5, 125, 5, 126, 5, 123, 5, 124, 4, 123, 4, 124]
AGGTCAACTGGGCGCTAAATGTGGCCCTTTGCTTGCAACTTAAGATTC	[7, 125, 7, 126, 6, 125, 6, 126, 6, 127, 6, 128]
AGTTGCAAGCAAAGGGCCACATTTGACATGCTCAGCCCTCTCTTCACC	[6, 126, 6, 127, 6, 124, 6, 125, 5, 124, 5, 125]
TAACCAGGTGGTAAGTAAAGGTTCTGACAGCCCAGACTACGAGCTTGC	[8, 126, 8, 127, 8, 124, 8, 125, 3, 124, 3, 125]
CGCAGCACTACGCTCCTATACCCGGCAAGCTCGTCAAGTGGTATAGCC	[3, 127, 3, 128, 3, 125, 3, 126, 4, 125, 4, 126]

End sequence	Voxels
GTCAGGAGTTAGGGTCAGCAAACAGTTCCTTCATACTGTCTTTTTTTT	[4, 2, 4, 3, 7, 2, 7, 3, 7, 4, 0, 0]
CAGCTATCCCATATTCGATGTAAGCGGACATC	[1, 3, 1, 4, 2, 3, 2, 4]
GGATCTACCGGCATGCCTCCTGACCCTTTACA	[5, 3, 5, 4, 4, 3, 4, 4]
GACAGTATGAAGGAACCGGGAGCCTCGGGGGA	[7, 3, 7, 4, 8, 3, 8, 4]
TTTTTTTTTGTAAAGGGATAGCTGTTTTTTTT	[4, 4, 0, 0, 1, 4, 0, 0]
TTTTTTTTATCATCTCGTAGATCCTTTTTTTT	[6, 4, 0, 0, 5, 4, 0, 0]
TTTTTTTTCCCCCGAGGGGACTCTTTTTTTT	[8, 4, 0, 0, 3, 4, 0, 0]
TTTTTTTTGAGCCACTTAACCTGGGTTTCCTTACATTGGTGCATGCCG	[0, 4, 0, 0, 0, 2, 0, 3, 5, 2, 5, 3]
TTTTTTTTGATGTCCGCTTACATCTTGACCTAGTGCCGTATATTCTTC	[2, 4, 0, 0, 2, 2, 2, 3, 3, 2, 3, 3]
TGAGATTAACGCCCTGGGGACTGCATTCCATGTAGGAAAATTTTTTTT	[4, 6, 4, 7, 7, 6, 7, 7, 7, 8, 0, 0]
TTCTGACCAAAGCTCATGAGAATTGTAAACAG	[1, 7, 1, 8, 2, 7, 2, 8]
AAACTACTTTAGGTGATAATCTCATTTTTAAC	[5, 7, 5, 8, 4, 7, 4, 8]
TTTTCCTACATGGAATGTACAGTTCCTGACAT	[7, 7, 7, 8, 8, 7, 8, 8]



TTTTTTTTGTTAAAAAGGTCAGAATTTTTTTT	[4, 8, 0, 0, 1, 8, 0, 0]
TTTTTTTTCCCAGCGGAGTAGTTTTTTTTTT	[6, 8, 0, 0, 5, 8, 0, 0]
TTTTTTTTATGTCAGGCTGCTTTTTTTTTTT	[8, 8, 0, 0, 3, 8, 0, 0]
TTTTTTTTAACCGTGAGTATGATTGCCCCCTATTTCGGAGTCACCTAA	[0, 8, 0, 0, 0, 6, 0, 7, 5, 6, 5, 7]
TTTTTTTTCTGTTTACAATTCTCATTAAGTATGAATATCCCCGGTTGA	[2, 8, 0, 0, 2, 6, 2, 7, 3, 6, 3, 7]
GACTATTGAAACGTCCCCCAAATGCGCCAGGGTAGGTATGTTTTTTTT	[4, 14, 4, 15, 7, 14, 7, 15, 7, 16, 0, 0]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[1, 15, 1, 16, 2, 15, 2, 16]
TTTGTCCATGCCTGTACAATAGTCGTGACCGA	[5, 15, 5, 16, 4, 15, 4, 16]
CATACCTACCCTGGCGCCTTCATCACGGACTT	[7, 15, 7, 16, 8, 15, 8, 16]
TTTTTTTTTCGGTCACAGATTGTATTTTTTTT	[4, 16, 0, 0, 1, 16, 0, 0]
TTTTTTTTCTAATACGTGGACAAATTTTTTTT	[6, 16, 0, 0, 5, 16, 0, 0]
TTTTTTTTAAGTCCGTTATTGCTCTTTTTTTT	[8, 16, 0, 0, 3, 16, 0, 0]
TTTTTTTTCCATCCCTAAGTAAACTATCCCAAGAGGCAGCTACAGGCA	[0, 16, 0, 0, 0, 14, 0, 15, 5, 14, 5, 15]
TTTTTTTTCGCAGGGTGCTATGCTTTATGTGACTGGTCTCTCAATTTC	[2, 16, 0, 0, 2, 14, 2, 15, 3, 14, 3, 15]
TCGGTGACACCTATACGATTCGCGATTGATCCACCTCGCCTTTTTTTT	[4, 30, 4, 31, 7, 30, 7, 31, 7, 32, 0, 0]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[1, 31, 1, 32, 2, 31, 2, 32]
TGGGTATTGAAATCCCGTCACCGAGGTTTTCT	[5, 31, 5, 32, 4, 31, 4, 32]
GGCGAGGTGGATCAATCAAACGCCGAGCGTTG	[7, 31, 7, 32, 8, 31, 8, 32]
TTTTTTTTAGAAAACCCCTCTCCCTTTTTTTT	[4, 32, 0, 0, 1, 32, 0, 0]
TTTTTTTTGGCGGGCAAATACCCATTTTTTTT	[6, 32, 0, 0, 5, 32, 0, 0]
TTTTTTTTCAACGCTCTAACAAGGTTTTTTTT	[8, 32, 0, 0, 3, 32, 0, 0]
TTTTTTTTTCCGGTTTAGCGAATTCTTGCCTCCAGCCTTCGGGATTTC	[0, 32, 0, 0, 0, 30, 0, 31, 5, 30, 5, 31]
TTTTTTTTCCCGAGCCAGGTGGCCTAGGCGGACGGCGCCGTGCCATCG	[2, 32, 0, 0, 2, 30, 2, 31, 3, 30, 3, 31]
CCTATCACTAAGACCTTGTAAACAGCTAAATCAGGCGTCGTTTTTTTT	[4, 62, 4, 63, 7, 62, 7, 63, 7, 64, 0, 0]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[1, 63, 1, 64, 2, 63, 2, 64]
CGACATAACTAGCCGTGTGATAGGCTCTCAGC	[5, 63, 5, 64, 4, 63, 4, 64]
CGACGCCTGATTTAGCAGGAATGTATTATAAA	[7, 63, 7, 64, 8, 63, 8, 64]
TTTTTTTTGCTGAGAGCAGCCCATTTTTTTT	[4, 64, 0, 0, 1, 64, 0, 0]
TTTTTTTTTGGTTAGGTTATGTCGTTTTTTT	[6, 64, 0, 0, 5, 64, 0, 0]
TTTTTTTTTTTATAATGCCAAAATTTTTTTT	[8, 64, 0, 0, 3, 64, 0, 0]
TTTTTTTTTAAGCGTTACAGGCGGTTCCGCCCACGTTGTTACGGCTAG	[0, 64, 0, 0, 0, 62, 0, 63, 5, 62, 5, 63]
TTTTTTTTGGTTGGTTACTGTACGCGAAGGTCCGTCCTGTCCCGTTCC	[2, 64, 0, 0, 2, 62, 2, 63, 3, 62, 3, 63]
GGTCACACGGCTATACGTTGACCTTACAGAATTCAGGAGTTTTTTTTT	[4, 126, 4, 127, 7, 126, 7, 127, 7, 128, 0, 0]
AGCCCACAACTTGACAGTAGTACAGTATCTTT	[1, 127, 1, 128, 2, 127, 2, 128]
CTAGAACGTTGCCACCGTGTGACCATAGCGCT	[5, 127, 5, 128, 4, 127, 4, 128]
ACTCCTGAATTCTGTACCTGGTTAAAGAAACG	[7, 127, 7, 128, 8, 127, 8, 128]
TTTTTTTTAGCGCTATTGTGGGCTTTTTTTTT	[4, 128, 0, 0, 1, 128, 0, 0]
TTTTTTTTGAATCTTACGTTCTAGTTTTTTTT	[6, 128, 0, 0, 5, 128, 0, 0]
TTTTTTTTCGTTTCTTGTGCTGCGTTTTTTTT	[8, 128, 0, 0, 3, 128, 0, 0]
TTTTTTTTGTGGGACGTATGATTGCGACATCCCCCAATAAGGTGGCAA	[0, 128, 0, 0, 0, 126, 0, 127, 5, 126, 5, 127]
TTTTTTTTAAAGATACTGTACTACAGGCTGCGCGGGTATAGGAGCGTA	[2, 128, 0, 0, 2, 126, 2, 127, 3, 126, 3, 127]

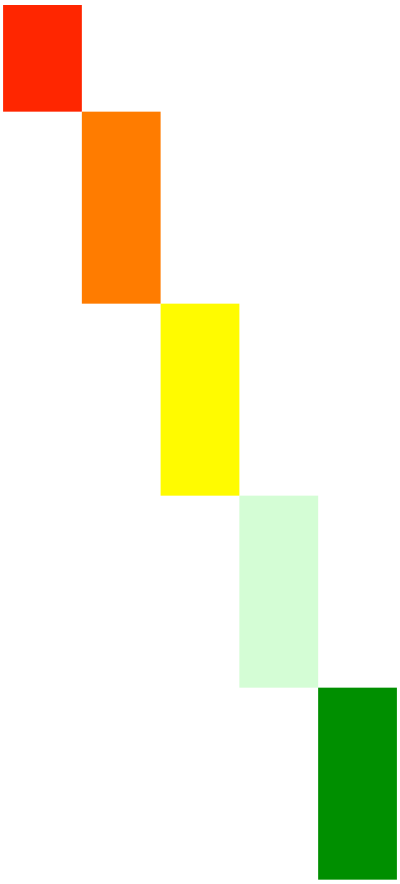


Table S8. Sequences of 4H × 4H × (32B, 64B, 128B, 256B, 512B). Each design is color coded and contains “core” and “end” sequences.

Core sequence	Voxels	4H x 4H x 32B core	4H x 4H x 64B core	4H x 4H x 128B core	4H x 4H x 256B core	4H x 4H x 512B core
TTCTTAAATTTTTTTT	[0, 0, 0, 1, 0, 0, 0, 0]					
TTGGCTGATTTTTTTT	[0, 0, 2, 1, 0, 0, 0, 0]					
TTTTTTTTCCGCGTAA	[0, 0, 13, 1, 0, 0, 0, 0]					
TTTTTTTTCCAACAGG	[0, 0, 15, 1, 0, 0, 0, 0]					
TATGGTGATTTTTTTTTTTTTTTTTGGCACCC	[0, 0, 8, 1, 0, 0, 7, 1]					
ATCCGAAGTTTTTTTTTTTTTTTTTCGCGGACA	[0, 0, 10, 1, 0, 0, 5, 1]					
CGCTGATCTTTTTTTTTTTTTTTTTGGGGATGAATCCTTCCAACATCTC	[0, 0, 6, 1, 0, 0, 1, 1, 1, 2, 1, 3]					
TCTGATATTTTTTTTTTTTTTTTTGCACTGCCCCTACTCTCACCTTTC	[0, 0, 4, 1, 0, 0, 3, 1, 3, 2, 3, 3]					
ATATCAGAGAGCACAG	[4, 1, 4, 2, 0, 0, 0, 0]					
TCCGGGATGGGTGCCA	[7, 1, 7, 2, 0, 0, 0, 0]					
AGAGTCTGGAGATGAT	[12, 1, 12, 2, 0, 0, 0, 0]					
GCTTCGCGCCTGTTGG	[15, 1, 15, 2, 0, 0, 0, 0]					
TAATATAATGTCCGCGGATCAGCGAATTCGAC	[5, 1, 5, 2, 6, 1, 6, 2]					
AGTTAGCATTACGCGGGTACCCTGGACCGCTA	[13, 1, 13, 2, 14, 1, 14, 2]					
GGAAGGATTCATCCCCTTTAAGAATGATCGCACCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]					
TACATCTCGCTCGTCCTCACCATAATCCACCACCCATGCAGAAAGATA	[9, 1, 9, 2, 8, 1, 8, 2, 8, 3, 8, 4]					
GTGCGCTTCTGTGCTCATCCCTTGCTCCCGAA	[4, 2, 4, 3, 11, 2, 11, 3]					
TCCCTAAAGTCGAATTGAGATGTAAGTTTCAC	[6, 2, 6, 3, 9, 2, 9, 3]					
ACCTTTTAATCATCTCCAGACTCTTTTTTTTTTTTTTTTTGAGCCGAT	[12, 2, 12, 3, 0, 0, 12, 1, 0, 0, 11, 1]					
GGGAGATTTAGCGGTCCAGGGTACTTTTTTTTTTTTTTTTGGACGAGC	[14, 2, 14, 3, 0, 0, 14, 1, 0, 0, 9, 1]					
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[1, 3, 1, 4, 2, 3, 2, 4]					
AAGGTAATGTGAAACTCAATGATATGACGGAT	[9, 3, 9, 4, 10, 3, 10, 4]					
ACATCTCGGAAAGGTGAGAGTAGGGGCAGTGCTCAGCCAAACAGTGGG	[3, 3, 3, 4, 3, 1, 3, 2, 2, 1, 2, 2]					
CTTACACTTTCGGGAGCAAGGGATATCGGCTCCTTCGGATTCTCTGGC	[11, 3, 11, 4, 11, 1, 11, 2, 10, 1, 10, 2]					
TATCATTGGCCAGAGATGCTAACTGTATGACGGACCAGGTCTCCTAGG	[10, 2, 10, 3, 13, 2, 13, 3, 13, 4, 13, 5]					
TGCATGGGTGGTGGATCGCGAAGCTGTCGTGAATGATCGGTCATATGT	[8, 2, 8, 3, 15, 2, 15, 3, 15, 4, 15, 5]					
ACAATGGTATCTTTTGAAGCGCACGTAAACCGTAATTCGGAGCCCGGC	[5, 3, 5, 4, 4, 3, 4, 4, 4, 5, 4, 6]					
ACCTGGTCCGTCATACTAAAAGGTAGAAGTAAGTAGGGTACCGCTGGG	[13, 3, 13, 4, 12, 3, 12, 4, 12, 5, 12, 6]					
GCTCTTAATATCTTTCGGTTGCGGGAGTAAGG	[8, 4, 8, 5, 7, 4, 7, 5]					
GTTTAGTGATCCGTCAACCATTGTTATTGGCC	[10, 4, 10, 5, 5, 4, 5, 5]					
CACCAGAAGAGCCACTTAACCTGGTGCGATCAATCCCGGACACGTAAA	[0, 4, 0, 5, 0, 2, 0, 3, 7, 2, 7, 3]					
CCACAAAGTCTTGTATAAAGACTGTGCGAGATCTTTACGCGCTTGAAC	[6, 4, 6, 5, 1, 4, 1, 5, 1, 6, 1, 7]					
TTCCTTTTCAACCAAAAGATGTTCCCCACTGTTTATATTACAAAAGAT	[2, 4, 2, 5, 2, 2, 2, 3, 5, 2, 5, 3]					
CCGAATTACGGTTTACCGAGATGTTTACTTGCACTTGGGATTAGGATC	[4, 4, 4, 5, 3, 4, 3, 5, 3, 6, 3, 7]					
CTTGCCTGGGCCAATACTTTGTGGTCCACTAT	[5, 5, 5, 6, 6, 5, 6, 6]					
CAGTCCGACCTAGGAGCGGTCTGGCTGTGAGG	[13, 5, 13, 6, 14, 5, 14, 6]					
GCGTAAAGATCTCGCATTCTGGTGCCAAAACTAATCATACTCACGGTT	[1, 5, 1, 6, 0, 5, 0, 6, 0, 7, 0, 8]					
TTCAGCAGCCTTACTCCCGCAACCTTTACGTGTTTAGGGAATACAAGA	[7, 5, 7, 6, 7, 3, 7, 4, 6, 3, 6, 4]					
GTGCTCTTGAGCGGTGTTAAGAGCCTCGCTTCAAGTCCGTGTCGGTAG	[9, 5, 9, 6, 8, 5, 8, 6, 8, 7, 8, 8]					
AAAACTTCACATATGACCGATCATTCACGACAAATCTCCCGCTAGATG	[15, 5, 15, 6, 15, 3, 15, 4, 14, 3, 14, 4]					
GGGAGCTGGCCGGGCTATTACTTTTGCCATAT	[4, 6, 4, 7, 11, 6, 11, 7]					
GTTGTTCCATAGTGGAAAGAGCACGTTAACTC	[6, 6, 6, 7, 9, 6, 9, 7]					
GTAGTTTACCCAGCGGTACCCTACTTACTTCTAGTGTAAGCAACCCAT	[12, 6, 12, 7, 12, 4, 12, 5, 11, 4, 11, 5]					
CGACTCAACCTCACAGCCAGACCGCATCTAGCATTACCTTCACCGCTC	[14, 6, 14, 7, 14, 4, 14, 5, 9, 4, 9, 5]					
GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[1, 7, 1, 8, 2, 7, 2, 8]					
ACTGAGGCGAGTTAACTTATGTTCTAACCTGC	[9, 7, 9, 8, 10, 7, 10, 8]					
TCATGTGGGATCCTAATCCCAAGTGCAAGTAAAAAAGGAATTATGAGA	[3, 7, 3, 8, 3, 5, 3, 6, 2, 5, 2, 6]					
GATCACAAATATGGCAAAAGTAATATGGGTTGCACTAAACTATAGCAA	[11, 7, 11, 8, 11, 5, 11, 6, 10, 5, 10, 6]					
GAACATAATTGCTATATCGGACTGTGGGCGTACCTACACCACAGATGC	[10, 6, 10, 7, 13, 6, 13, 7, 13, 8, 13, 9]					
ACGGACTTGAAGCGAGGAAGTTTTGCGACTCATTGCTGAGTTCGACGC	[8, 6, 8, 7, 15, 6, 15, 7, 15, 8, 15, 9]					
ATATAGGTCTGACACCCAGCTCCCAGGTAAGTGTATTATCGCGTCAAT	[5, 7, 5, 8, 4, 7, 4, 8, 4, 9, 4, 10]					
GGTGTAGGTACGCCCATAAACTACTTTTCCACGTTGCCCTCGACCGAT	[13, 7, 13, 8, 12, 7, 12, 8, 12, 9, 12, 10]					
GGAGGGTTCTACCGACATATTGCTTTGCCCTT	[8, 8, 8, 9, 7, 8, 7, 9]					
TGTTGAGGGCAGGTTAACCTATATAGCCATTT	[10, 8, 10, 9, 5, 8, 5, 9]					
AGCTTGGGAACCGTGAGTATGATTAGTTTTGGCTGCTGAATGTCCGTG	[0, 8, 0, 9, 0, 6, 0, 7, 7, 6, 7, 7]					
CGACCATTTGACACCCGAGTCGGCCTGACAGACATCTTTTGGGGTCGT	[6, 8, 6, 9, 1, 8, 1, 9, 1, 10, 1, 11]					
AGCCTACGATAGCCAGATAATAGTTCTCATAACAGGCAAGGGTGTCAG	[2, 8, 2, 9, 2, 6, 2, 7, 5, 6, 5, 7]					
GATAATACACTTACCTCCACATGAAGGTCTACCAGAAACTATGTACCG	[4, 8, 4, 9, 3, 8, 3, 9, 3, 10, 3, 11]					
GCGGAGAGAAATGGCTAATGGTCGACAATATG	[5, 9, 5, 10, 6, 9, 6, 10]					
CGTCCAGCGCATCTGTGATCCACGTCAGATTT	[13, 9, 13, 10, 14, 9, 14, 10]					
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAAAACTGTTGTGTCCTAT	[1, 9, 1, 10, 0, 9, 0, 10, 0, 11, 0, 12]					
GTCCAAGTAAGGGCAAAGCAATATCACGGACAGGAACAACGGGTGTCA	[7, 9, 7, 10, 7, 7, 7, 8, 6, 7, 6, 8]					
GCGTATGCTGAAATGGAACCCTCCTACGTTTTGCGATGGTGATGGGAA	[9, 9, 9, 10, 8, 9, 8, 10, 8, 11, 8, 12]					
TTTAGTTTGCGTCGAACTCAGCAATGAGTCGCTTGAGTCGGTGGATAA	[15, 9, 15, 10, 15, 7, 15, 8, 14, 7, 14, 8]					
ATCGCTCAATTGACGCGACTTTGTGTAATCTC	[4, 10, 4, 11, 11, 10, 11, 11]					
CATACACACATATTGTGCATACGCCCTGGTTT	[6, 10, 6, 11, 9, 10, 9, 11]					
CTGAGCGTATCGGTCGAGGGCAACGTGGAAAATTGTGATCCCCTCCCA	[12, 10, 12, 11, 12, 8, 12, 9, 11, 8, 11, 9]					
AATAGGCTATTCAAGAGCTGGACGTGCGCGAGGCACGTATGTCTTGAG	[10, 10, 10, 11, 13, 10, 13, 11, 13, 12, 13, 13]					
TAGGGCTAAAATCTGACGTGGATCTTATCCACGCCTCAGTCCATTTCA	[14, 10, 14, 11, 14, 8, 14, 9, 9, 8, 9, 9]					
ACCATCGCAAAACGTAAAACTAAATGACGTTTGAGGTGATACGTAAAG	[8, 10, 8, 11, 15, 10, 15, 11, 15, 12, 15, 13]					
GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[1, 11, 1, 12, 2, 11, 2, 12]					
GTAATGCGAAACCAGGAGCCTATTCATCAAGG	[9, 11, 9, 12, 10, 11, 10, 12]					
GATATCCACGGTACATAGTTTCTGGTAGACCTCGTAGGCTAGAGCGGT	[3, 11, 3, 12, 3, 9, 3, 10, 2, 9, 2, 10]					
TATTAAGTTTTCGCCGTGAGCGATCAATGACCTCATATGGACACACCA	[5, 11, 5, 12, 4, 11, 4, 12, 4, 13, 4, 14]					
GATCCTGAGAGATTACACAAAGTCTGGGAGGGCCTCAACATCTTGAAT	[11, 11, 11, 12, 11, 9, 11, 10, 10, 9, 10, 10]					

ATACGTGCCTCGCGCAACGCTCAGCCGGTCTGTAGGGTGACGTATTAG	[13, 11, 13, 12, 12, 11, 12, 12, 12, 13, 12, 14]
CAAATCCCTTCCCATCAAATACGACTAAGCCG	[8, 12, 8, 13, 7, 12, 7, 13]
CGTTGCACCCTTGATGACTTAATATTCAGGCT	[10, 12, 10, 13, 5, 12, 5, 13]
CGTTTGTCATAGGACACAACAGTTTTATGCTAACTTGGACCGGGCATC	[0, 12, 0, 13, 0, 10, 0, 11, 7, 10, 7, 11]
GCAGGGTGAAAGTGAGCCAGCCGCGCGCAGGGCTCGACGGTTAATTTG	[6, 12, 6, 13, 1, 12, 1, 13, 1, 14, 1, 15]
ACTCTCGTTCAGTCGTCGCACGGCACCGCTCTCTCTCCGCCGGCGAAA	[2, 12, 2, 13, 2, 10, 2, 11, 5, 10, 5, 11]
CCATATGAGGTCATTGTGGATATCTCCGTGCAGTAAACGATAGGTTTC	[4, 12, 4, 13, 3, 12, 3, 13, 3, 14, 3, 15]
CCAGTAATAGCCTGAACACCCTGCATCGACGG	[5, 13, 5, 14, 6, 13, 6, 14]
GCTAGCATCTCAAGACCTGGGAATTAGGTAAG	[13, 13, 13, 14, 14, 13, 14, 14]
CCGTCGAGCCCTGCGCGACAAACGCATATCCTGTTTACTTAGGGATGG	[1, 13, 1, 14, 0, 13, 0, 14, 0, 15, 0, 16]
TCTGGCGCCGGCTTAGTCGTATTTGATGCCCGTGTGTATGCTCACTTT	[7, 13, 7, 14, 7, 11, 7, 12, 6, 11, 6, 12]
GAAAGATCATAACGTTGGGATTTGTTCCGCCTATAGGTAACTGGGTTT	[9, 13, 9, 14, 8, 13, 8, 14, 8, 15, 8, 16]
GTCAATTTCTTTACGTATCACCTCAAACGTCATAGCCCTACGGATCAA	[15, 13, 15, 14, 15, 11, 15, 12, 14, 11, 14, 12]
GAATTATATGGTGTGTCCATATCAACAAACCC	[4, 14, 4, 15, 11, 14, 11, 15]
GCGGCGAACCGTCGATGATCTTTCGGACCGAG	[6, 14, 6, 15, 9, 14, 9, 15]
GGCTTGCACTAATACGTCACCCTACAGACCGGTCAGGATCATTTTGGA	[12, 14, 12, 15, 12, 12, 12, 13, 11, 12, 11, 13]
TTTGTAAACTTACCTAATTCCCAGTTGATCCGCGCATTACAACGTTAT	[14, 14, 14, 15, 14, 12, 14, 13, 9, 12, 9, 13]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[1, 15, 1, 16, 2, 15, 2, 16]
AGCTCATTCTCGGTCCAATTCGAGCATGTCCC	[9, 15, 9, 16, 10, 15, 10, 16]
AAGCAAGAGAAACCTATCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[3, 15, 3, 16, 3, 13, 3, 14, 2, 13, 2, 14]
TGGGCCCGGGGTTTGTTGATATGGTCCAAAATGTGCAACGGGAAACAC	[11, 15, 11, 16, 11, 13, 11, 14, 10, 13, 10, 14]
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CGGACACACGGCTTGCTGCGACCAAGTTTTAT	[13, 21, 13, 22, 14, 21, 14, 22]
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AGGGATTGAGTACCCATGTGTCCGAGATGGCATATGACAGGTGAGCAC	[10, 22, 10, 23, 13, 22, 13, 23, 13, 24, 13, 25]
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GGACTGTTCTACATAGTGACTTGGACGAGGTT	[1, 23, 1, 24, 2, 23, 2, 24]
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GCATGCCGGTAGCACCCGAACGAGATCGTCCTAGACGACGGATCTCCT	[3, 23, 3, 24, 3, 21, 3, 22, 2, 21, 2, 22]
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CTGTCATATGCCATCTGATTGGGAGAGTCCAGGCAATAAAGAAACTGC	[13, 23, 13, 24, 12, 23, 12, 24, 12, 25, 12, 26]
TTCATTACGTTCTACGCGATGCTTTTGCCACA	[8, 24, 8, 25, 7, 24, 7, 25]
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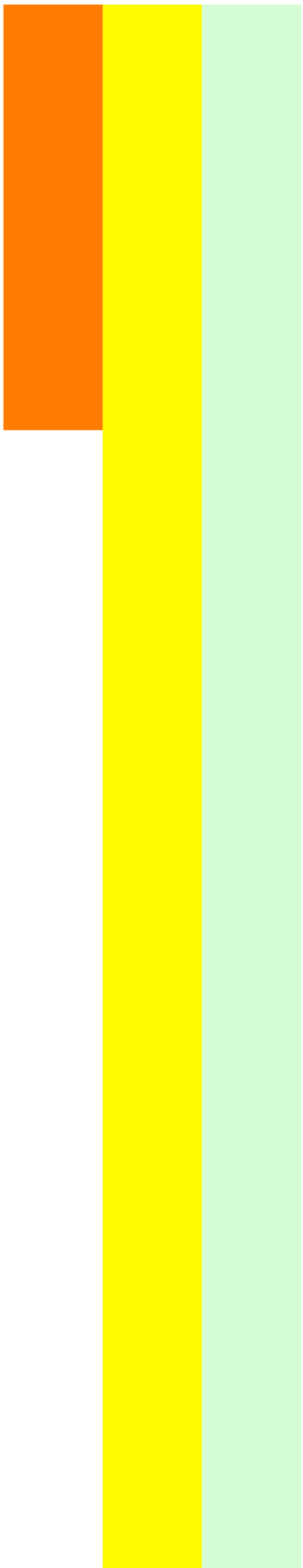
AGTTAGATCCATGCGAAACAGTCCGTATAGCGCCCAGTGAGCTCGACA	[6, 24, 6, 25, 1, 24, 1, 25, 1, 26, 1, 27]



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AAGTGTTAATGCCGAGATCTAACTTGATTTTT	[5, 25, 5, 26, 6, 25, 6, 26]
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AAGAGCAAACGGTATTATCCCGTTCACAGCGC	[4, 26, 4, 27, 11, 26, 11, 27]
ACATGAGGAAAAATCACCATTCTTGTGCCAGT	[6, 26, 6, 27, 9, 26, 9, 27]
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CTAGGACCCAGAAGTGGTCGCTGGGGTCTAAATAACACTTGGTCTCGA	[2, 28, 2, 29, 2, 26, 2, 27, 5, 26, 5, 27]
TCTGATGGAGACGTCCTCAAGCTGCTGCCCAGTGATTAGCGCTTAGGG	[4, 28, 4, 29, 3, 28, 3, 29, 3, 30, 3, 31]
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TGTTTTAAGGCGGGCAGTAGGAGTCCAACGTGGTGGTCCACGGCGACG	[12, 30, 12, 31, 12, 28, 12, 29, 11, 28, 11, 29]
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GTCCTATCCCTTACTAGCGGTACACACCAAGA	[9, 31, 9, 32, 10, 31, 10, 32]
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AAGCCTGACGATAGTAGGTAGGTTTAACCCTTACTACGCTGGACTCAT	[4, 32, 4, 33, 3, 32, 3, 33, 3, 34, 3, 35]
CGACAGGATAGGTCAAAATAAACGATACTTAA	[5, 33, 5, 34, 6, 33, 6, 34]
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TAGGTGGTCCTGGGAACATAGGTATTCATAACTCATCCGGTTACTTCG	[6, 44, 6, 45, 1, 44, 1, 45, 1, 46, 1, 47]
CGTACGCAATCATGGTGTCGCATAAAAGATACATCATGAGTTTTTTGT	[2, 44, 2, 45, 2, 42, 2, 43, 5, 42, 5, 43]
ACTCGCTAGGGCACGACCATGAAACGCGAGCAAACGGCGAGTCCGGTC	[4, 44, 4, 45, 3, 44, 3, 45, 3, 46, 3, 47]
TCATACAGCATTGTCTACCACCTATGTTCTTA	[5, 45, 5, 46, 6, 45, 6, 46]
CATTTGGGGCAGTGGATGCTTGCTCCTTGCTC	[13, 45, 13, 46, 14, 45, 14, 46]
CCGGATGAGTTATGAAGATCGTCATTGGGATAGAACGGTGACACACTT	[1, 45, 1, 46, 0, 45, 0, 46, 0, 47, 0, 48]
TTATTGAGACCTATCTGTAGAGTCGTAGACGATTCCTTGATTCCCAGG	[7, 45, 7, 46, 7, 43, 7, 44, 6, 43, 6, 44]
GCGCTAGTCACGCGAAGGGCCGACAATCGGCGGACTGCCTCATTAATA	[9, 45, 9, 46, 8, 45, 8, 46, 8, 47, 8, 48]
GGACCATCGGCCGTTTCCTGGTTAAAGAAACGGCTGGCCGCCCTCATG	[15, 45, 15, 46, 15, 43, 15, 44, 14, 43, 14, 44]
GCCCGACGTATCTCTTCGTACCCCCCCTGGAG	[4, 46, 4, 47, 11, 46, 11, 47]
TTGTGAACTAAGAACAACTAGCGCTTCCAGTA	[6, 46, 6, 47, 9, 46, 9, 47]
GATGAAGGCTCATTTGAATATGTCTAGAGCACACACACTCGGGCTCAC	[12, 46, 12, 47, 12, 44, 12, 45, 11, 44, 11, 45]
GCTTAACATCATTTGCCCCAAATGCGCCAGGGTAGGTATGTGCATATT	[10, 46, 10, 47, 13, 46, 13, 47, 13, 48, 13, 49]
CTGGACTAGAGCAAGGAGCAAGCACATGAGGGTGGACAAATTCGCGTG	[14, 46, 14, 47, 14, 44, 14, 45, 9, 44, 9, 45]
AGGCAGTCCGCCGATTGATGGTCCGAGCCAGAACCTGTTGGATGCTGA	[8, 46, 8, 47, 15, 46, 15, 47, 15, 48, 15, 49]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[1, 47, 1, 48, 2, 47, 2, 48]
CACCTGTATACTGGAATGTTAAGCGTAAATAA	[9, 47, 9, 48, 10, 47, 10, 48]
ATAGCGTAGACCGGACTCGCCGTTTGCTCGCGTGCGTACGGCTTTTAT	[3, 47, 3, 48, 3, 45, 3, 46, 2, 45, 2, 46]
TGCTGTTAACATAGATCGTCGGGCGACCTTCGTGTGGGAGGATCATTA	[5, 47, 5, 48, 4, 47, 4, 48, 4, 49, 4, 50]
TCCCCAGCCTCCAGGGGGGGTACGGTGAGCCCACAGTTGTGCAAATGA	[11, 47, 11, 48, 11, 45, 11, 46, 10, 45, 10, 46]
CATACCTACCCTGGCGCCTTCATCACGGACTTCAGCGAGCGTTTTACG	[13, 47, 13, 48, 12, 47, 12, 48, 12, 49, 12, 50]
AAGCCACTTATTAATGTCGCACGACACTCCCA	[8, 48, 8, 49, 7, 48, 7, 49]
TCCAATAATTATTTACTAACAGCAGGTCGGCC	[10, 48, 10, 49, 5, 48, 5, 49]
GTATTACTAAGTGTGTCACCGTTCTATCCCAACTCAATAAGAGTACAT	[0, 48, 0, 49, 0, 46, 0, 47, 7, 46, 7, 47]
TGGTCGGTTAGCCAGCAGATTGTAGCTGTGACCCTATCTTACGCTTAC	[6, 48, 6, 49, 1, 48, 1, 49, 1, 50, 1, 51]
ACGACTCTCGCAGGGTGCTATGCTATAAAAGCCTGTATGAATCTATGT	[2, 48, 2, 49, 2, 46, 2, 47, 5, 46, 5, 47]
CTCCCACACGAAGGTCTACGCTATTACGATTTACGGGGTTACTCTAGC	[4, 48, 4, 49, 3, 48, 3, 49, 3, 50, 3, 51]
TAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[5, 49, 5, 50, 6, 49, 6, 50]
CATCAAGTAATATGCACGCCCCAACTGCTCCT	[13, 49, 13, 50, 14, 49, 14, 50]
AAGATAGGGTCACAGCAGTAATACCTCTACCTGTGTTCATTCAGAGTA	[1, 49, 1, 50, 0, 49, 0, 50, 0, 51, 0, 52]
TAGTACAGTGGGAGTGTCGTGCGAATGTACTCGTTCACAAGCTGGCTA	[7, 49, 7, 50, 7, 47, 7, 48, 6, 47, 6, 48]
CGGCAGTTGTGAAAGGAGTGGCTTCCTAGGTGTCCGCATAAGGATTAA	[9, 49, 9, 50, 8, 49, 8, 50, 8, 51, 8, 52]
TTTATTGGTCAGCATCCAACAGGTTCTGGCTCTAGTCCAGGATCGAAC	[15, 49, 15, 50, 15, 47, 15, 48, 14, 47, 14, 48]
GATATCGCTAATGATCGACGAAGGTTCCAGGC	[4, 50, 4, 51, 11, 50, 11, 51]
CATCACGGTAGCGCCTAACTGCCGACCAGTTT	[6, 50, 6, 51, 9, 50, 9, 51]

CGATTGGTCGTAAAACGCTCGCTGAAGTCCGTGCTGGGGACCCTCACA	[12, 50, 12, 51, 12, 48, 12, 49, 11, 48, 11, 49]
TATACCAACCGACATCACTTGATGCCAAGCATGCTTAACTTATACCAT	[10, 50, 10, 51, 13, 50, 13, 51, 13, 52, 13, 53]
CAGAGGTCAGGAGCAGTTGGGGCGGTTCGATCTACAGGTGCCTTTCAC	[14, 50, 14, 51, 14, 48, 14, 49, 9, 48, 9, 49]
TATGCGGACACCTAGGCCAATAAATCGCCTCTAAACAGAACGGACCTC	[8, 50, 8, 51, 15, 50, 15, 51, 15, 52, 15, 53]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[1, 51, 1, 52, 2, 51, 2, 52]
AACGTGGGAAACTGGTTTGGTATATCCTGATA	[9, 51, 9, 52, 10, 51, 10, 52]
CCGGTTCTGCTAGAGTAACCCCGTAAATCGTAAGAGTCGTTATGCCCC	[3, 51, 3, 52, 3, 49, 3, 50, 2, 49, 2, 50]
TAGGGTATACTCGTAAGCGATATCTGAATGCGCAGGATCAAAGTTGAC	[5, 51, 5, 52, 4, 51, 4, 52, 4, 53, 4, 54]
ACTTCTTTGCCTGGAACCTTCGTCTGTGAGGGTTATTGGAGATGTCGG	[11, 51, 11, 52, 11, 49, 11, 50, 10, 49, 10, 50]
AGTTAAGCATGCTTGGACCAATCGTACACAAAGTGAACGGTGGGCATT	[13, 51, 13, 52, 12, 51, 12, 52, 12, 53, 12, 54]
CAGCCTTCTTAATCCTAGCGTGATGCAGGCGT	[8, 52, 8, 53, 7, 52, 7, 53]
AGTATGAATATCAGGAATACCCTATTGTCGTT	[10, 52, 10, 53, 5, 52, 5, 53]
GGTACACGTACTCTGAATGAACACAGGTAGAGCTGTACTATGCTGTAG	[0, 52, 0, 53, 0, 50, 0, 51, 7, 50, 7, 51]
GGTATTTTCGAAGTCTGTCCAACATGATAATCCTCGTGCTTCGAGAAA	[6, 52, 6, 53, 1, 52, 1, 53, 1, 54, 1, 55]
TACTTGAATTCTGGTCGTTATTTCGGGGCATACCACCTTATTACGAGT	[2, 52, 2, 53, 2, 50, 2, 51, 5, 50, 5, 51]
TGATCCTGCGCATTCAAGAACCGGCATCTGATCCAGTCCCTTGTAATG	[4, 52, 4, 53, 3, 52, 3, 53, 3, 54, 3, 55]
TAATACGAAACGACAAAAAATACCTTCGCCGG	[5, 53, 5, 54, 6, 53, 6, 54]
TAAGAGGCATGGTATAGCATAATCTTCGTGGA	[13, 53, 13, 54, 14, 53, 14, 54]
AGCACGAGGATTATCACGTGTACCTCGAAATAGCGGAAATATGGCCGC	[1, 53, 1, 54, 0, 53, 0, 54, 0, 55, 0, 56]
TGCGTTCGACGCCTGCATCACGCTCTACAGCACCGTGATGAGACTTCG	[7, 53, 7, 54, 7, 51, 7, 52, 6, 51, 6, 52]
CGCGAGCAGGGGCGTCGAAGGCTGTCTTTGTGCAGTGTCATCGGTACA	[9, 53, 9, 54, 8, 53, 8, 54, 8, 55, 8, 56]
TACGTATAGAGGTCCGTTCTGTTTAGAGGCGAGACCTCTGTCTGGGTT	[15, 53, 15, 54, 15, 51, 15, 52, 14, 51, 14, 52]
GGTTCGTGGTCAACTTCATGGTCCGGTCCTCT	[4, 54, 4, 55, 11, 54, 11, 55]
CGATGCGGCCGGCGAATGCTCGCGGGGATTTC	[6, 54, 6, 55, 9, 54, 9, 55]
AGTGACAAAATGCCCACCGTTCACTTTGTGTAAAAGAAGTACTGCGAG	[12, 54, 12, 55, 12, 52, 12, 53, 11, 52, 11, 53]
TCGGTGACTAGAGACCGCCTCTTACTGCCTTGCGACTGGGTCCAAAAG	[10, 54, 10, 55, 13, 54, 13, 55, 13, 56, 13, 57]
CTGATTGGTCCACGAAGATTATGCAACCCAGACCCACGTTGACGCCCC	[14, 54, 14, 55, 14, 52, 14, 53, 9, 52, 9, 53]
TGACACTGCACAAAGATATACGTAGCTGGGAACTTTGGTTGCGCTCGA	[8, 54, 8, 55, 15, 54, 15, 55, 15, 56, 15, 57]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[1, 55, 1, 56, 2, 55, 2, 56]
TGGGTATTGAAATCCCGTCACCGAGGTTTTCT	[9, 55, 9, 56, 10, 55, 10, 56]
CCTCCCCGCATTACAAGGGACTGGATCAGATGTTCAAGTATTCGGTGA	[3, 55, 3, 56, 3, 53, 3, 54, 2, 53, 2, 54]
TCCGTCCGTTGGAGCCCACGAACCAACGCATCTAGCAGAATAATTTGC	[5, 55, 5, 56, 4, 55, 4, 56, 4, 57, 4, 58]
AAGCCGTGAGAGGACCGGACCATGCTCGCAGTTTCATACTGGTCTCTA	[11, 55, 11, 56, 11, 53, 11, 54, 10, 53, 10, 54]
CCCAGTCGCAAGGCAGTTGTCACTCATCGGCTGACTACCTACATCAGG	[13, 55, 13, 56, 12, 55, 12, 56, 12, 57, 12, 58]
CATATCCGTGTACCGACCACGGAAGGTATGCT	[8, 56, 8, 57, 7, 56, 7, 57]
GGCCGAAAAGAAAACCCGGACGGAAAACTACA	[10, 56, 10, 57, 5, 56, 5, 57]
TAGGTTAAGCGGCCATATTTCCGCTATTTCGACGAACGCATTGCGGGG	[0, 56, 0, 57, 0, 54, 0, 55, 7, 54, 7, 55]
GTAATGGTCCCCTCAGCTAACGATGTGGGAGGCTACCGCTAGGAGAAA	[6, 56, 6, 57, 1, 56, 1, 57, 1, 58, 1, 59]
TACATACGGCCTGTTTCGGAACAGTCACCGAATCGTATTAGGCTCCAA	[2, 56, 2, 57, 2, 54, 2, 55, 5, 54, 5, 55]
TTCTGCTAGATGCGTTCGGGGAGGTTACTTGGTAAGCGCGCACCCGTT	[4, 56, 4, 57, 3, 56, 3, 57, 3, 58, 3, 59]
CTTAGTGCTGTAGTTTACCATTACCGGAGGCG	[5, 57, 5, 58, 6, 57, 6, 58]
AACGATATCTTTTGGAGTCCGGTGTACGAGAT	[13, 57, 13, 58, 14, 57, 14, 58]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGGTTCGGTGCGCAGCGGG	[1, 57, 1, 58, 0, 57, 0, 58, 0, 59, 0, 60]
GAGGGGATAGCATACCTTCCGTGGCCCCGCAACCGCATCGCTGAGGGG	[7, 57, 7, 58, 7, 55, 7, 56, 6, 55, 6, 56]
TAGACTTTGACTCAGACGGATATGCTGTAGACGCCAGGGTTATCCGGT	[9, 57, 9, 58, 8, 57, 8, 58, 8, 59, 8, 60]
ACGGAAATTCGAGCGCAACCAAAGTTCCCAGCCCAATCAGGTCATCAT	[15, 57, 15, 58, 15, 55, 15, 56, 14, 55, 14, 56]
CGTCCCATGCAAATTAAAACATACTTGCGGCA	[4, 58, 4, 59, 11, 58, 11, 59]
GATCACCCCGCCTCCGAAAGTCTAAGAAGGGA	[6, 58, 6, 59, 9, 58, 9, 59]
GCCCTTATCCTGATGTAGGTAGTCAGCCGATGCACGGCTTAGTATCCA	[12, 58, 12, 59, 12, 56, 12, 57, 11, 56, 11, 57]
AATCCGGGCCCGCTGAATATCGTTACAGAGATTCTTCAGGGCAGTTTT	[10, 58, 10, 59, 13, 58, 13, 59, 13, 60, 13, 61]
GGCTATAGATCTCGTACACCGGACATGATGACAATACCCATCTGAGTC	[14, 58, 14, 59, 14, 56, 14, 57, 9, 56, 9, 57]
ACCCTGGCGTCTACAGATTTCCGTCGTCCACCATTTGGGCATTGACTT	[8, 58, 8, 59, 15, 58, 15, 59, 15, 60, 15, 61]
TAACTGATTTTCTCCTGGTTCCGCTAGCTGAT	[1, 59, 1, 60, 2, 59, 2, 60]
GGTCGGCGTCCCTTCTCCCGGATTTCAGGTCG	[9, 59, 9, 60, 10, 59, 10, 60]
TGCGAGTGAACGGGTGCGCGCTTACCAAGTAACGTATGTACGACGCGA	[3, 59, 3, 60, 3, 57, 3, 58, 2, 57, 2, 58]
CATTAGGTCTATTATAATGGGACGCCACTACGATCCGAATAAGGTACG	[5, 59, 5, 60, 4, 59, 4, 60, 4, 61, 4, 62]
TCACTCTTTGCCGCAAGTATGTTTTGGATACTTTTCGGCCTCAGCGGG	[11, 59, 11, 60, 11, 57, 11, 58, 10, 57, 10, 58]
CCTGAAGAATCTCTGTATAAGGGCGATTCTTCTTTGCGTGCCTAACCA	[13, 59, 13, 60, 12, 59, 12, 60, 12, 61, 12, 62]
AAGGAACGACCGGATATTGTGCTGCACAGCAC	[8, 60, 8, 61, 7, 60, 7, 61]
AAGTGTGACGACCTGAACCTAATGATTTTATA	[10, 60, 10, 61, 5, 60, 5, 61]
CGAGGGTTCCCGCTGCGCACCGAACCAAGGCAATCCCCTCGCGAGGGT	[0, 60, 0, 61, 0, 58, 0, 59, 7, 58, 7, 59]
ACAGTGCCTAACGGCCATCAGTTAATATTAAGGACCATAGTGTTTCAC	[6, 60, 6, 61, 1, 60, 1, 61, 1, 62, 1, 63]
GCCTGGCCATCAGCTAGCGGAACCTCGCGTCGGCACTAAGTATAATAG	[2, 60, 2, 61, 2, 58, 2, 59, 5, 58, 5, 59]
ATTCGGATCGTAGTGGCACTCGCACCGAACGAAATTCATCGTCCTCAC	[4, 60, 4, 61, 3, 60, 3, 61, 3, 62, 3, 63]
TATCGTTCTATAAAATGGCACTGTCACGGCGC	[5, 61, 5, 62, 6, 61, 6, 62]
CGCGAATCAAAACTGCGCCTGATACAGGTCTC	[13, 61, 13, 62, 14, 61, 14, 62]
CTATGGTCCTTAATATAACCCTCGGAGGCAAGCCGCCTGTAACGCTTA	[1, 61, 1, 62, 0, 61, 0, 62, 0, 63, 0, 64]
GTCGTAATGTGCTGTGCAGCACAAACCCTCGCGGGTGATCGGCCGTTA	[7, 61, 7, 62, 7, 59, 7, 60, 6, 59, 6, 60]
GCACGATATGATATGTCGTTCCTTAAGGCCAACGACATCGACCGTTCA	[9, 61, 9, 62, 8, 61, 8, 62, 8, 63, 8, 64]
AGCCTCGTAAGTCAATGCCCAAATGGTGGACGCTATAGCCGTGGCGTT	[15, 61, 15, 62, 15, 59, 15, 60, 14, 59, 14, 60]
AGGTCATCCGTACCTTTGAAAGAAACGGGTAC	[4, 62, 4, 63, 11, 62, 11, 63]
TTGTTGCGGCGCCGTGTATCGTGCCGGCATTA	[6, 62, 6, 63, 9, 62, 9, 63]
GGCGTTTGTGGTTAGGCACGCAAAGAAGAATCAAGAGTGAGCCCCCGT	[12, 62, 12, 63, 12, 60, 12, 61, 11, 60, 11, 61]
AGGTTGTTGAGACCTGTATCAGGCAACGCCACCGCCGACCACATATCA	[14, 62, 14, 63, 14, 60, 14, 61, 9, 60, 9, 61]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[1, 63, 1, 64, 2, 63, 2, 64]
ACGCGTTTTAATGCCGACATGGAACGTTATAG	[9, 63, 9, 64, 10, 63, 10, 64]
TCTGGCGCGTGAGGACGATGAATTTCGTTCGGGGCCAGGCGATCTAAG	[3, 63, 3, 64, 3, 61, 3, 62, 2, 61, 2, 62]

End sequence	Voxels	4H x 4H x 32B end	4H x 4H x 64B end	4H x 4H x 128B end	4H x 4H x 256B end	4H x 4H x 512B end
AAATAAAGGTACCCGTTTCTTTCAACGGGGGCTCACACTTCCTACATG	[11, 63, 11, 64, 11, 61, 11, 62, 10, 61, 10, 62]					
TATCATTGGCCAGAGATGCTAACTGTATGACGGACCAGGTTTTTTTTT	[10, 2, 10, 3, 13, 2, 13, 3, 13, 4, 0, 0]					
TGCATGGGTGGTGGATCGCGAAGCTGTCGTGAATGATCGGTTTTTTTT	[8, 2, 8, 3, 15, 2, 15, 3, 15, 4, 0, 0]					
ACAATGGTATCTTTTGAAGCGCACGTAAACCG	[5, 3, 5, 4, 4, 3, 4, 4]					
CCGCAACCTTTACGTGTTTAGGGAATACAAGA	[7, 3, 7, 4, 6, 3, 6, 4]					
ACCTGGTCCGTCATACTAAAAGGTAGAAGTAA	[13, 3, 13, 4, 12, 3, 12, 4]					
CCGATCATTCACGACAAATCTCCCGCTAGATG	[15, 3, 15, 4, 14, 3, 14, 4]					
TTTTTTTTCGGTTTACCGAGATGTTTTTTTTT	[4, 4, 0, 0, 3, 4, 0, 0]					
TTTTTTTTTCTTGTATAAAGACTGTTTTTTTT	[6, 4, 0, 0, 1, 4, 0, 0]					
TTTTTTTTTATCTTTCGGTTGCGGTTTTTTTT	[8, 4, 0, 0, 7, 4, 0, 0]					
TTTTTTTTATCCGTCAACCATTGTTTTTTTTT	[10, 4, 0, 0, 5, 4, 0, 0]					
TTTTTTTTTTACTTCTAGTGTAAGTTTTTTTT	[12, 4, 0, 0, 11, 4, 0, 0]					
TTTTTTTTCATCTAGCATTACCTTTTTTTTTT	[14, 4, 0, 0, 9, 4, 0, 0]					
TTTTTTTTGAGCCACTTAACCTGGTGCGATCAATCCCGGACACGTAAA	[0, 4, 0, 0, 0, 2, 0, 3, 7, 2, 7, 3]					
TTTTTTTTCAACCAAAAGATGTTCCCCACTGTTTATATTACAAAAGAT	[2, 4, 0, 0, 2, 2, 2, 3, 5, 2, 5, 3]					
GAACATAATTGCTATATCGGACTGTGGGCGTACCTACACCTTTTTTTT	[10, 6, 10, 7, 13, 6, 13, 7, 13, 8, 0, 0]					
ACGGACTTGAAGCGAGGAAGTTTTGCGACTCATTGCTGAGTTTTTTTT	[8, 6, 8, 7, 15, 6, 15, 7, 15, 8, 0, 0]					
ATATAGGTCTGACACCCAGCTCCCAGGTAAGT	[5, 7, 5, 8, 4, 7, 4, 8]					
AGCAATATCACGGACAGGAACAACGGGTGTCA	[7, 7, 7, 8, 6, 7, 6, 8]					
GGTGTAGGTACGCCCATAAACTACTTTTCCAC	[13, 7, 13, 8, 12, 7, 12, 8]					
CTCAGCAATGAGTCGCTTGAGTCGGTGGATAA	[15, 7, 15, 8, 14, 7, 14, 8]					
TTTTTTTTACTTACCTCCACATGATTTTTTTT	[4, 8, 0, 0, 3, 8, 0, 0]					
TTTTTTTTTGACACCCGAGTCGGCTTTTTTTT	[6, 8, 0, 0, 1, 8, 0, 0]					
TTTTTTTTCTACCGACATATTGCTTTTTTTTT	[8, 8, 0, 0, 7, 8, 0, 0]					
TTTTTTTTGCAGGTTAACCTATATTTTTTTTT	[10, 8, 0, 0, 5, 8, 0, 0]					
TTTTTTTTGTGGAAAATTGTGATCTTTTTTTT	[12, 8, 0, 0, 11, 8, 0, 0]					
TTTTTTTTTTATCCACGCCTCAGTTTTTTTTT	[14, 8, 0, 0, 9, 8, 0, 0]					
TTTTTTTTAACCGTGAGTATGATTAGTTTTGGCTGCTGAATGTCCGTG	[0, 8, 0, 0, 0, 6, 0, 7, 7, 6, 7, 7]					
TTTTTTTTATAGCCAGATAATAGTTCTCATAACAGGCAAGGGTGTCAG	[2, 8, 0, 0, 2, 6, 2, 7, 5, 6, 5, 7]					
CTCGAATTGTGTTTCCATGCTAGCGCCACACGACTACTTATTTTTTTT	[10, 14, 10, 15, 13, 14, 13, 15, 13, 16, 0, 0]					
TTACCTATAGGCGGAAAAATTGACATTTCTACAATCGTGATTTTTTTT	[8, 14, 8, 15, 15, 14, 15, 15, 15, 16, 0, 0]					
CTTCTACCTCTTAATGTATAATTCATCCTGTG	[5, 15, 5, 16, 4, 15, 4, 16]					
CCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[7, 15, 7, 16, 6, 15, 6, 16]					
TAAGTAGTCGTGTGGCTGCAAGCCCTCACCTG	[13, 15, 13, 16, 12, 15, 12, 16]					
TCACGATTGTAGAAATTTTACAAAGACGGACA	[15, 15, 15, 16, 14, 15, 14, 16]					
TTTTTTTTCACAGGATTCTTGCTTTTTTTTTT	[4, 16, 0, 0, 3, 16, 0, 0]					
TTTTTTTTAAAACGACGCGGGCCGTTTTTTTT	[6, 16, 0, 0, 1, 16, 0, 0]					
TTTTTTTTAAACCCAGCGTGACGGTTTTTTTT	[8, 16, 0, 0, 7, 16, 0, 0]					
TTTTTTTTGGGACATGGGTAGAAGTTTTTTTT	[10, 16, 0, 0, 5, 16, 0, 0]					
TTTTTTTTCAGGTGAGCGGGCCCATTTTTTTT	[12, 16, 0, 0, 11, 16, 0, 0]					
TTTTTTTTTGTCCGTCAATGAGCTTTTTTTTT	[14, 16, 0, 0, 9, 16, 0, 0]					
TTTTTTTTCCATCCCTAAGTAAACAGGATATGGCGCCAGACCACAATG	[0, 16, 0, 0, 0, 14, 0, 15, 7, 14, 7, 15]					
TTTTTTTTGAAGCGTAATCGACTAATGCCAGCATTACTGGCATTAAGA	[2, 16, 0, 0, 2, 14, 2, 15, 5, 14, 5, 15]					
TGTACCGCATTCATGGAGATCATCCATTGACGTCGTTACGTTTTTTTT	[10, 30, 10, 31, 13, 30, 13, 31, 13, 32, 0, 0]					
CCTAATGAGGAGTATGGTTAGGAATACCTGCTCCTGAATGTTTTTTTT	[8, 30, 8, 31, 15, 30, 15, 31, 15, 32, 0, 0]					
CTCCTACGCTCAATAGTGAACCCTTACTATCG	[5, 31, 5, 32, 4, 31, 4, 32]					
AGAGTTCTACCAGCCAAGAGAGTCGCAGCCCT	[7, 31, 7, 32, 6, 31, 6, 32]					
CGTAACGACGTCAATGTTAAAACAACAACCGA	[13, 31, 13, 32, 12, 31, 12, 32]					
CATTCAGGAGCAGGTACAGAAAAGGAACCGAC	[15, 31, 15, 32, 14, 31, 14, 32]					
TTTTTTTTCGATAGTAGGTAGGTTTTTTTTT	[4, 32, 0, 0, 3, 32, 0, 0]					
TTTTTTTTAGGGCTGCCCCCCAAGTTTTTTTT	[6, 32, 0, 0, 1, 32, 0, 0]					
TTTTTTTTCGGTGGACAGAACTCTTTTTTTTT	[8, 32, 0, 0, 7, 32, 0, 0]					
TTTTTTTTTCTTGGTGCGTAGGAGTTTTTTTT	[10, 32, 0, 0, 5, 32, 0, 0]					
TTTTTTTTTCGGTTGTCGCTGTAATTTTTTTT	[12, 32, 0, 0, 11, 32, 0, 0]					
TTTTTTTTGTCGGTTCGATAGGACTTTTTTTT	[14, 32, 0, 0, 9, 32, 0, 0]					
TTTTTTTTTCCGGTTTAGCGAATTCTAATCACGGCGGATATGGCTGGT	[0, 32, 0, 0, 0, 30, 0, 31, 7, 30, 7, 31]					
TTTTTTTTGAAGGAGTTTAGTGAGTCTGCAACATAGAATGCTATTGAG	[2, 32, 0, 0, 2, 30, 2, 31, 5, 30, 5, 31]					
TTCCATGTCATGTAGGGATTCGCGATTGATCCACCTCGCCTTTTTTTT	[10, 62, 10, 63, 13, 62, 13, 63, 13, 64, 0, 0]					
CGATGTCGTTGGCCTTACGAGGCTGCTAGGGCTGTATGGTTTTTTTTT	[8, 62, 8, 63, 15, 62, 15, 63, 15, 64, 0, 0]					
CTTTCAGTGTGAGTGTGATGACCTCGCAGCCT	[5, 63, 5, 64, 4, 63, 4, 64]					
TTCTATCGATCTCCTTCGCAACAAAATGCAAA	[7, 63, 7, 64, 6, 63, 6, 64]					
GGCGAGGTGGATCAATCAAACGCCGAGCGTTG	[13, 63, 13, 64, 12, 63, 12, 64]					
ACCATACAGCCCTAGCAACAACCTCAGCAATA	[15, 63, 15, 64, 14, 63, 14, 64]					
TTTTTTTTAGGCTGCGGCGCCAGATTTTTTTT	[4, 64, 0, 0, 3, 64, 0, 0]					
TTTTTTTTTTTGCATTCCTCTCCCTTTTTTTT	[6, 64, 0, 0, 1, 64, 0, 0]					
TTTTTTTTTGAACGGTCGATAGAATTTTTTTT	[8, 64, 0, 0, 7, 64, 0, 0]					
TTTTTTTTCTATAACGACTGAAAGTTTTTTTT	[10, 64, 0, 0, 5, 64, 0, 0]					
TTTTTTTTCAACGCTCCTTTATTTTTTTTTT	[12, 64, 0, 0, 11, 64, 0, 0]					
TTTTTTTTTATTGCTGAAACGCGTTTTTTTT	[14, 64, 0, 0, 9, 64, 0, 0]					
TTTTTTTTTAAGCGTTACAGGCGGCTTGCCTCATTACGACAAGGAGAT	[0, 64, 0, 0, 0, 62, 0, 63, 7, 62, 7, 63]					
TTTTTTTTCCCGAGCCAGGTGGCCCTTAGATCGAACGATAACACTCAC	[2, 64, 0, 0, 2, 62, 2, 63, 5, 62, 5, 63]					

Table S9. Sequences of 6H × 6H × (32B, 64B, 128B, 256B). Each design is color coded and contains “core” and “end” sequences.

End sequence	Voxels	6H x 6H x 32B core	6H x 6H x 64B core	6H x 6H x 128B core	6H x 6H x 256B core
GTATTAGCTTTTTTTT	[0, 0, 0, 1, 0, 0, 0, 0]				
GTATTACTTTTTTTTT	[0, 0, 2, 1, 0, 0, 0, 0]				
ATGTGGTTTTTTTTTT	[0, 0, 4, 1, 0, 0, 0, 0]				
TTTTTTTTGCCTTATG	[0, 0, 31, 1, 0, 0, 0, 0]				
TTTTTTTTGAGGAGCA	[0, 0, 33, 1, 0, 0, 0, 0]				
TTTTTTTTAATTCTTC	[0, 0, 35, 1, 0, 0, 0, 0]				
GCGACGCTTTTTTTTTTTTTTTTTTGGTCGGCC	[0, 0, 12, 1, 0, 0, 11, 1]				
TCGGCAGCTTTTTTTTTTTTTTTTTGTACAAAT	[0, 0, 14, 1, 0, 0, 9, 1]				
ATGGATTGTTTTTTTTTTTTTTTTTCTACTTCA	[0, 0, 16, 1, 0, 0, 7, 1]				
ACATTGGTTTTTTTTTTTTTTTTTCGAGTGGA	[0, 0, 18, 1, 0, 0, 17, 1]				
AAGCCACTTTTTTTTTTTTTTTTTTACAATTTC	[0, 0, 20, 1, 0, 0, 15, 1]				
TCGCTTTATTTTTTTTTTTTTTTTGCCTACCT	[0, 0, 22, 1, 0, 0, 13, 1]				
CATATTTTTTTTTTTTTTTTTTTTGGGTGGTC	[0, 0, 24, 1, 0, 0, 23, 1]				
TTGGGGCGTTTTTTTTTTTTTTTTCACCAGGT	[0, 0, 26, 1, 0, 0, 21, 1]				
CCGTCCTATTTTTTTTTTTTTTTTCCTTTCAC	[0, 0, 28, 1, 0, 0, 19, 1]				
TGTTTTCGTTTTTTTTTTTTTTTTAAAAGCCCGGGCTGATCCCGCAAC	[0, 0, 10, 1, 0, 0, 1, 1, 1, 2, 1, 3]				
AAAGCTTCTTTTTTTTTTTTTTTTTGCTGTGACCCTATCTTACGCTTAC	[0, 0, 8, 1, 0, 0, 3, 1, 3, 2, 3, 3]				
CCATGAAATTTTTTTTTTTTTTTTACACCGGCCGTCTTAATGACTACC	[0, 0, 6, 1, 0, 0, 5, 1, 5, 2, 5, 3]				
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TAAGGTGGGGCCGACC	[11, 1, 11, 2, 0, 0, 0, 0]				
ACCAATGTAAGCAGAT	[18, 1, 18, 2, 0, 0, 0, 0]				
CCCAGGAAGACCACCC	[23, 1, 23, 2, 0, 0, 0, 0]				
GCTGGCCGCCCTCATG	[30, 1, 30, 2, 0, 0, 0, 0]				
TTTCAAAAGAAGAATT	[35, 1, 35, 2, 0, 0, 0, 0]				
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[3, 1, 3, 2, 2, 1, 2, 2]				
ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[7, 1, 7, 2, 8, 1, 8, 2]				
CAATTACTATTTGTACCGAAAACAAGGGCATA	[9, 1, 9, 2, 10, 1, 10, 2]				
ACCATGTTGAAATTGTGCTGCCGACACGAGGC	[15, 1, 15, 2, 14, 1, 14, 2]				
CGGCAGTTGTGAAAGGAGTGGCTTCCTAGGTG	[19, 1, 19, 2, 20, 1, 20, 2]				
AACCGATAACCTGGTGTAAAGCGAGTAACGAC	[21, 1, 21, 2, 22, 1, 22, 2]				
CATCAAGTAATATGCACGCCCCAACTGCTCCT	[27, 1, 27, 2, 26, 1, 26, 2]				
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AAGCGGTCTGCTCCTCCTACTTTTGACGTCAG	[33, 1, 33, 2, 34, 1, 34, 2]				
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCGCCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]				
ATGCGGAGAGGTAGGCAGCGTCGCTTAAAGTGTACGGCACCGAGGCCT	[13, 1, 13, 2, 12, 1, 12, 2, 12, 3, 12, 4]				
TGATCAGCCCTGCTAAAAAATATGCAGGGTTAAGAGTCTGGAGATGAT	[25, 1, 25, 2, 24, 1, 24, 2, 24, 3, 24, 4]				
AGCAGGTCCATCGCCGACATTACGTACACTCG	[6, 2, 6, 3, 17, 2, 17, 3]				
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GTGCCGTACACTTTAATTCCTGGGCGTGCTAG	[12, 2, 12, 3, 23, 2, 23, 3]				
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TATACCAAATCTGCTTTTGTCAAGACTAGCTC	[18, 2, 18, 3, 29, 2, 29, 3]				
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CGAAACTCGTCGTTACGCTGATCAAGATGTAG	[22, 2, 22, 3, 25, 2, 25, 3]				
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AGTATGGCCTGACGTCAAAAGTAGTTTTTTTTTTTTTTTTTTAGCAGG	[34, 2, 34, 3, 0, 0, 34, 1, 0, 0, 25, 1]				
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[1, 3, 1, 4, 2, 3, 2, 4]				
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[3, 3, 3, 4, 4, 3, 4, 4]				
CAGTAACGAAAAGCGAACGAGCCACCACCTAG	[9, 3, 9, 4, 8, 3, 8, 4]				
TGTCCAAGACAACATGACTACAGTTGACCGGG	[13, 3, 13, 4, 14, 3, 14, 4]				
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GACCAACTCTATGAAAGGCGCACTTAATTCTG	[21, 3, 21, 4, 20, 3, 20, 4]				
TGACCCTACTACATCTCCTTCGCGCCCGACAA	[25, 3, 25, 4, 26, 3, 26, 4]				
AGTTAAGCATGCTTGGACCAATCGTACACAAA	[27, 3, 27, 4, 28, 3, 28, 4]				
ACTGTCTTGACAGAAGAAGGGCCAAGCCATTG	[33, 3, 33, 4, 32, 3, 32, 4]				
CCGCCTCCGGTAGTCATTAAGACGGCCGGTGTAACCACATAAAGTCGT	[5, 3, 5, 4, 5, 1, 5, 2, 4, 1, 4, 2]				
GTATCATCCGAGTGTACGTAATGTTCCACTCGCAATCCATTACGGACA	[17, 3, 17, 4, 17, 1, 17, 2, 16, 1, 16, 2]				
ACTCAACCGAGCTAGTCTTGACAACAGTGAAATAGGACGGCTATAAAA	[29, 3, 29, 4, 29, 1, 29, 2, 28, 1, 28, 2]				
CGATTGGTTTTTATAGGGCCACTGCCGCCACAAACTTCTTAGTAGTTA	[28, 2, 28, 3, 31, 2, 31, 3, 31, 4, 31, 5]				
CGCGAAGGAGGAGCAGGACCGCTTCTTCTGTCAAGACAGTGGACTTCA	[26, 2, 26, 3, 33, 2, 33, 3, 33, 4, 33, 5]				
CAGACTCTTAACCCTGTTTTGAAAGATTCTAAATGGAGCTTGCAATTT	[24, 2, 24, 3, 35, 2, 35, 3, 35, 4, 35, 5]				
ATAGCATCGACACTACGACCTGCTTTTCGACATCGCCGTTTGCTCGCG	[7, 3, 7, 4, 6, 3, 6, 4, 6, 5, 6, 6]				
AACGTGGGAAACTGGTTTGGTATATCCTGATAGGATCTACCGGCATGC	[19, 3, 19, 4, 18, 3, 18, 4, 18, 5, 18, 6]				
AAGAAGTTTGTGGCGGCGACCTCACTATCACTGGACCATCGGCCGTTT	[31, 3, 31, 4, 30, 3, 30, 4, 30, 5, 30, 6]				
CGGCGCCGAGGCCTCGTGGTCGGTCGCATTCA	[12, 4, 12, 5, 11, 4, 11, 5]				
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CAGCCTTCCAGAATTACGCCGTGTTGTTCTAC	[20, 4, 20, 5, 15, 4, 15, 5]				
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CAGGCAGCATCATCTCTCGAGTCTCGTAAAAC	[24, 4, 24, 5, 23, 4, 23, 5]				
GATTATGCTTGTCGGGAGTTGGTCGATGTCAA	[26, 4, 26, 5, 21, 4, 21, 5]				
GACAGAACTTTGTGTACCCACGTTGACGCCCC	[28, 4, 28, 5, 19, 4, 19, 5]				

GGGGTCACGAGCCACTTAACCTGGCGCTCAGCCCACCTTATAGCGCCT	[0, 4, 0, 5, 0, 2, 0, 3, 11, 2, 11, 3]
CGGGTGTCTTACGAGTAACAGCATGGCTTCATTAGCCCGGCTCCCGGT	[10, 4, 10, 5, 1, 4, 1, 5, 1, 6, 1, 7]
GGTACACGGTTCCGGTTCAGAAACAGGTAGAGAGTAATTGTCGCTTTT	[2, 4, 2, 5, 2, 2, 2, 3, 9, 2, 9, 3]
AGTTACTGCTAGGTGGGTCCAACATGATAATCCTCGTGCTTCGAGAAA	[8, 4, 8, 5, 3, 4, 3, 5, 3, 6, 3, 7]
ACTTTCTGTTCTGGTCGTTATTTCACGACTTTACTTACGTGTAGTGTC	[4, 4, 4, 5, 4, 2, 4, 3, 7, 2, 7, 3]
AACGGCGATGTCGAAAGGAGGCGGCCATTACGTTCCGCGTCAAATCTG	[6, 4, 6, 5, 5, 4, 5, 5, 5, 6, 5, 7]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[3, 5, 3, 6, 2, 5, 2, 6]
CGGACTGCATTCTGGACAGTAACTGCATTAAC	[7, 5, 7, 6, 8, 5, 8, 6]
CACCTCCTGTTAGGGTGACACCCGGGATGGGT	[9, 5, 9, 6, 10, 5, 10, 6]
TAAGACAAGTAGAACATTGTGTTGGGTGTAGT	[15, 5, 15, 6, 14, 5, 14, 6]
CGCGAGCAGGGGCGTCGAAGGCTGTCTTTGTG	[19, 5, 19, 6, 20, 5, 20, 6]
GGTTAAGTTTGACATCTAAATTAACCACCTGC	[21, 5, 21, 6, 22, 5, 22, 6]
TAAGAGGCATGGTATAGCATAATCTTCGTGGA	[27, 5, 27, 6, 26, 5, 26, 6]
CTTCTGCGTAACTACTGAACACGAGCGGAGGG	[31, 5, 31, 6, 32, 5, 32, 6]
TCGGTCGATGAAGTCCCATGACTCTGACGCCC	[33, 5, 33, 6, 34, 5, 34, 6]
CCGGGCTAATGAAGCCGTGACCCCAGAGACTGAATCATACTCACGGTT	[1, 5, 1, 6, 0, 5, 0, 6, 0, 7, 0, 8]
GCGATATCTGAATGCGACCGACCAAGGCGCTATAGGGTATACTCGTAA	[11, 5, 11, 6, 11, 3, 11, 4, 10, 3, 10, 4]
GGTGCAAAAAGCGCAACGGCGCCGATTGATCAAATCCGATGACCCTAA	[13, 5, 13, 6, 12, 5, 12, 6, 12, 7, 12, 8]
CTAGCTAGGTTTTACGAGACTCGACTAGCACGGAGTTTCGAGCTTGCG	[23, 5, 23, 6, 23, 3, 23, 4, 22, 3, 22, 4]
CTTTGAAACCTGTGCTGCTGCCTGTTGTCCCCGTAGGGTACCGCTGGG	[25, 5, 25, 6, 24, 5, 24, 6, 24, 7, 24, 8]
CAGCTTCGAAATTGCAAGCTCCATTTAGAATCGCCATACTGTTGCTCG	[35, 5, 35, 6, 35, 3, 35, 4, 34, 3, 34, 4]
CGTCACTTCGCGAGCACGTGTCGAAGTGACCG	[6, 6, 6, 7, 17, 6, 17, 7]
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GGTATTTTACCCATCCTTTGCACCACCTATAC	[10, 6, 10, 7, 13, 6, 13, 7]
ATCGGATTTGATCAATCTAGCTAGACCTCTCT	[12, 6, 12, 7, 23, 6, 23, 7]
TAACAAGGACTACACCACTTAACCGAGGCCTT	[14, 6, 14, 7, 21, 6, 21, 7]
TAACATCGTTAATGGGTGCTCGCGGGGATTTC	[16, 6, 16, 7, 19, 6, 19, 7]
TCGGTGACGCATGCCGATATTAGCTAGCGGGC	[18, 6, 18, 7, 29, 6, 29, 7]
CCTGCCTACACAAAGAGCCTCTTACTGCCTTG	[20, 6, 20, 7, 27, 6, 27, 7]
GTGATCCTGCAGGTGGTTTCAAAGTGGGACCC	[22, 6, 22, 7, 25, 6, 25, 7]
TACGGGTGAAACGGCCGATGGTCCAGTGATAGGGTTGAGTCTTAGAGG	[30, 6, 30, 7, 30, 4, 30, 5, 29, 4, 29, 5]
CTCGAGCACCCTCCGCTCGTGTTCCAATGGCTGCTTAACTTATACCAT	[32, 6, 32, 7, 32, 4, 32, 5, 27, 4, 27, 5]
ATTGGCTTGGGCGTCAGAGTCATGCGAGCAACTAGGGTCAAGCACAGG	[34, 6, 34, 7, 34, 4, 34, 5, 25, 4, 25, 5]
TCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[1, 7, 1, 8, 2, 7, 2, 8]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[3, 7, 3, 8, 4, 7, 4, 8]
TGTTCATCGGTCACCCCAGTTTTCGCTTGAGG	[9, 7, 9, 8, 8, 7, 8, 8]
ATGGTTAAGTATAGGTCCTTGTTACGATGGCA	[13, 7, 13, 8, 14, 7, 14, 8]
GGATTCATTTAACTACCGATGTTATTACCTAA	[15, 7, 15, 8, 16, 7, 16, 8]
CAGCGCAAAAGGCCTCTAGGCAGGGTACTGCT	[21, 7, 21, 8, 20, 7, 20, 8]
TCGTCATAGGGTCCCAAGAACGGCCGTCTCAC	[25, 7, 25, 8, 26, 7, 26, 8]
CCCAGTCGCAAGGCAGTTGTCACTCATCGGCT	[27, 7, 27, 8, 28, 7, 28, 8]
CGAGTTTGCTGTATGGTGCTCGAGGATTTCAA	[33, 7, 33, 8, 32, 7, 32, 8]
GACAAAAACAGATTTGACGCGGAACGTAATGGCAGAAAGTCTATACCC	[5, 7, 5, 8, 5, 5, 5, 6, 4, 5, 4, 6]
AAGCCAAGCGGTCACTTCGACACGGTGATAGATCCTCGCACCCATTAA	[17, 7, 17, 8, 17, 5, 17, 6, 16, 5, 16, 6]
TTAAACGTGCCCGCTAGCTAATATCCTCTAAGGTTCTGTCCCGGAGTT	[29, 7, 29, 8, 29, 5, 29, 6, 28, 5, 28, 6]
AGTGACAAAACTCCGGCGCAGAAGCCTAAAGATGCATCACAATCGCCC	[28, 6, 28, 7, 31, 6, 31, 7, 31, 8, 31, 9]
GCCGTTCTTCCACGAATCGACCGACCATACAGCAAACTCGTGGTGATG	[26, 6, 26, 7, 33, 6, 33, 7, 33, 8, 33, 9]
TACCCTACGGGGACAACGAAGCTGTTCTCATTTGGTATCGCGTCGACC	[24, 6, 24, 7, 35, 6, 35, 7, 35, 8, 35, 9]
TACGTGCTCCCAACATAAGTGACGTCCTCAGCTGCGTACGGCTTTTAT	[7, 7, 7, 8, 6, 7, 6, 8, 6, 9, 6, 10]
TGGGTATTGAAATCCCGTCACCGAGGTTTTCTCTCCTGACCCTTTACA	[19, 7, 19, 8, 18, 7, 18, 8, 18, 9, 18, 10]
GTGATGCATCTTTAGGCACCCGTATGTAAAATCAACAGGTTCTGGCTC	[31, 7, 31, 8, 30, 7, 30, 8, 30, 9, 30, 10]
CCCGGTGGTTAGGGTCTCGTATTAGGCTCCAA	[12, 8, 12, 9, 11, 8, 11, 9]
AGTCAATCTGCCATCGGATGAACACATTTCTT	[14, 8, 14, 9, 9, 8, 9, 9]
TAGCACTATTAGGTAAAGCACGTAGAGATAAT	[16, 8, 16, 9, 7, 8, 7, 9]
GTCAGGAGAGAAAACCCTTGGCTTTAGATAAG	[18, 8, 18, 9, 17, 8, 17, 9]
CATATCCGAGCAGTACATGAATCCCCTGCTCC	[20, 8, 20, 9, 15, 8, 15, 9]
AGTCCTTCTGAACCCTTTAACCATAAGGTCCG	[22, 8, 22, 9, 13, 8, 13, 9]
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CACCGGACGTGAGACGTTGCGCTGTCCCGTCT	[26, 8, 26, 9, 21, 8, 21, 9]
AGCGCGCCAGCCGATGAATACCCATCTGAGTC	[28, 8, 28, 9, 19, 8, 19, 9]
GAGGGAACAACCGTGAGTATGATTCAGTCTCTGATATCGCTTGTCGTT	[0, 8, 0, 9, 0, 6, 0, 7, 11, 6, 11, 7]
TTATCATGCCGGCGAAGCATCAGATCGCGATCACACTGACACCCTTTT	[10, 8, 10, 9, 1, 8, 1, 9, 1, 10, 1, 11]
TAGGTTAAACAGCTAAGTGGCTGGTATTTCGAAGGAGGTGGGGTGACC	[2, 8, 2, 9, 2, 6, 2, 7, 9, 6, 9, 7]
TGCTTATCCCTCAAGCCTAACGATGTGGGAGGCTACCGCTAGGAGAAA	[8, 8, 8, 9, 3, 8, 3, 9, 3, 10, 3, 11]
CCGCACGTGCCTGTTTCGGAACAGGGGTATAGGCAGTCCGATGTTGGG	[4, 8, 4, 9, 4, 6, 4, 7, 7, 6, 7, 7]
CGTACGCAGCTGAGGATTTTTGTCGCTGTTCACCCCGGTAATACACAA	[6, 8, 6, 9, 5, 8, 5, 9, 5, 10, 5, 11]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[3, 9, 3, 10, 2, 9, 2, 10]
AGTTGAAAATTATCTCGATAAGCAGAAGGACC	[7, 9, 7, 10, 8, 9, 8, 10]
AATAGTCCAAGAAATGCATGATAAAAGTTGTG	[9, 9, 9, 10, 10, 9, 10, 10]
TACCATGAGGAGCAGGGATTGACTAATACATT	[15, 9, 15, 10, 14, 9, 14, 10]
TAGACTTTGACTCAGACGGATATGCTGTAGAC	[19, 9, 19, 10, 20, 9, 20, 10]
TCCATACTAGACGGGAGAAGGACTTGCACCAA	[21, 9, 21, 10, 22, 9, 22, 10]
AACGATATCTTTTGGAGTCCGGTGTACGAGAT	[27, 9, 27, 10, 26, 9, 26, 10]
TATAGGGGGGGCGATTAACTGTCCCCAAACAA	[31, 9, 31, 10, 32, 9, 32, 10]
AAGGAGAACATCACCATCTATTATTTACTCAC	[33, 9, 33, 10, 34, 9, 34, 10]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGAACTGTTGTGTCCTAT	[1, 9, 1, 10, 0, 9, 0, 10, 0, 11, 0, 12]
TCCGTCCGTTGGAGCCTAATACGAAACGACAAAAAATACCTTCGCCGG	[11, 9, 11, 10, 11, 7, 11, 8, 10, 7, 10, 8]
GCAATATTCGGACCTTCCACCGGGTCTGTTCCGAGTCCCCGAAGAATA	[13, 9, 13, 10, 12, 9, 12, 10, 12, 11, 12, 12]
CCCATGCCGCCATATCGTAGCAAAAGAGAGGTAGGATCACAGGGTTCA	[23, 9, 23, 10, 23, 7, 23, 8, 22, 7, 22, 8]
TCCAATACGGGATCTCCCATTTAATGGCAAATGTTGCCCTCGACCGAT	[25, 9, 25, 10, 24, 9, 24, 10, 24, 11, 24, 12]
CGGCGCATGGTCGACGCGATACCAAATGAGAAAAGCCAATCATGCCAT	[35, 9, 35, 10, 35, 7, 35, 8, 34, 7, 34, 8]

GCCTTGTCATAAAAGCTACTGGGAGATAAGGG	[6, 10, 6, 11, 17, 10, 17, 11]
GTGCATCTGGTCCTTCTCATGGTACGTGTCTG	[8, 10, 8, 11, 15, 10, 15, 11]
GCACTAAGCACAACTTAATATTGCAGTATTCC	[10, 10, 10, 11, 13, 10, 13, 11]
GGGGACTCGGAACAGAGGCATGGGCCGGATGC	[12, 10, 12, 11, 23, 10, 23, 11]
GAAGGCTGAATGTATTAGTATGGATCAACCCC	[14, 10, 14, 11, 21, 10, 21, 11]
GTGTACCTGAAACTACAAAGTCTAAGAAGGGA	[16, 10, 16, 11, 19, 10, 19, 11]
AATCCGGGTGTAAAGGAACGAACGGCCCCCCA	[18, 10, 18, 11, 29, 10, 29, 11]
CAGCCCTCGTCTACAGATATCGTTACAGAGAT	[20, 10, 20, 11, 27, 10, 27, 11]
TTCCTGAATTGGTGCAGTATTGGAGGGCCCGT	[22, 10, 22, 11, 25, 10, 25, 11]
AGACAACAGAGCCAGAACCTGTTGATTTTACAACGTTTAAAACCCCCT	[30, 10, 30, 11, 30, 8, 30, 9, 29, 8, 29, 9]
GCCCTTATGTAGTGATCCCCTATACTACTGATTACGCGAATCGATACG	[28, 10, 28, 11, 31, 10, 31, 11, 31, 12, 31, 13]
GTTTCGTATTGTTTGGGGACAGTTTTGAAATCCGACTGGGTCCAAAAG	[32, 10, 32, 11, 32, 8, 32, 9, 27, 8, 27, 9]
GGTCAACTATCTCGTATTCTCCTTCAATACACTAAGCAGACTCTCCAG	[26, 10, 26, 11, 33, 10, 33, 11, 33, 12, 33, 13]
AGTAACCCGTGAGTAAATAATAGAATGGCATGTATGACGAGAGATCCC	[34, 10, 34, 11, 34, 8, 34, 9, 25, 8, 25, 9]
AGGGCAACATTTGCCAATGCGCCGGCGATTTCGTCATTGTTTCGTCGC	[24, 10, 24, 11, 35, 10, 35, 11, 35, 12, 35, 13]
GTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[1, 11, 1, 12, 2, 11, 2, 12]
TAACTGATTTTCTCCTGGTTCCGCTAGCTGAT	[3, 11, 3, 12, 4, 11, 4, 12]
CCGCACTGGAATCTGAAGATGCACCGGTTCTC	[9, 11, 9, 12, 8, 11, 8, 12]
ATTGAGCAGGAATACTCAGCCTTCACCGCGGG	[13, 11, 13, 12, 14, 11, 14, 12]
TATGAATCCAGACACGAGGTACACTCCGGGGA	[15, 11, 15, 12, 16, 11, 16, 12]
CTAAAGACGGGGTTGAGAGGGCTGTGCAAAGA	[21, 11, 21, 12, 20, 11, 20, 12]
TGTATCTCACGGGCCCAGTTGACCACTATCAA	[25, 11, 25, 12, 26, 11, 26, 12]
CCTGAAGAATCTCTGTATAAGGGCGATTCTTC	[27, 11, 27, 12, 28, 11, 28, 12]
TCTGCTTAGTGTATTGTACGAAACAAACTGAA	[33, 11, 33, 12, 32, 11, 32, 12]
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CTCCGAAACCCTTATCTCCCAGTACTTATCTATAGTGCTAGTAGTTTC	[17, 11, 17, 12, 17, 9, 17, 10, 16, 9, 16, 10]
GGTCGGCGTCCCTTCTCCCGGATTTCAGGTCGCTCCGAAATGGAAGTG	[19, 11, 19, 12, 18, 11, 18, 12, 18, 13, 18, 14]
CTGGGTTGTGGGGGGCCGTTCGTTAGGGGGTTGGCGCGCTATCACTAC	[29, 11, 29, 12, 29, 9, 29, 10, 28, 9, 28, 10]
TTCGCGTAATCAGTAGTGTTGTCTTTGCGAAATAGTCCAGGATCGAAC	[31, 11, 31, 12, 30, 11, 30, 12, 30, 13, 30, 14]
AGCCAGAGTATTCTTCGGTTCGTGCGCCTCCG	[12, 12, 12, 13, 11, 12, 11, 13]
CGGGTATACCCGCGGTCAGTGCGGAGTAAATG	[14, 12, 14, 13, 9, 12, 9, 13]
CTGGTACTTCCCCGGAGTTATACAGGTCCGGC	[16, 12, 16, 13, 7, 12, 7, 13]
TTTCGGAGCGACCTGATTTCGGAGCCCTCACA	[18, 12, 18, 13, 17, 12, 17, 13]
AAGGAACGTCTTTGCAGATTCATATCACCCTA	[20, 12, 20, 13, 15, 12, 15, 13]
CCCAATAATTACTCCGTGCTCAATATGTGTAC	[22, 12, 22, 13, 13, 12, 13, 13]
AGCCGCCGATCGGTCGTAGACATTCTGAGGAC	[24, 12, 24, 13, 23, 12, 23, 13]
TATCAGGCTTGATAGTGTCTTTAGAAATGTGA	[26, 12, 26, 13, 21, 12, 21, 13]
AGATGATCGAAGAATCCGCCGACCACATATCA	[28, 12, 28, 13, 19, 12, 19, 13]
CCAGGTCAATAGGACACAACAGTTCCTAGCTACGGACGGAGATGCGTT	[0, 12, 0, 13, 0, 10, 0, 11, 11, 10, 11, 11]
TACCGAGCAAACTACAGGCATCACCTAGAAATCAGAGCCGAGGTCAGG	[10, 12, 10, 13, 1, 12, 1, 13, 1, 14, 1, 15]
CGAGGGTTTTCCAGCTCCATATCCCCAAGGCAGGACTATTTCAGATTC	[2, 12, 2, 13, 2, 10, 2, 11, 9, 10, 9, 11]
ATTAATACGAGAACCGATCAGTTAATATTAAGGACCATAGTGTTTCAC	[8, 12, 8, 13, 3, 12, 3, 13, 3, 14, 3, 15]
GCTCGACCATCAGCTAGCGGAACCAGGAGAAGTTTCAACTTCTTGCCA	[4, 12, 4, 13, 4, 10, 4, 11, 7, 10, 7, 11]
TACGCTATCTGAAGCGGGCGATACCCCCCGCAAGAGTATAGATGGCCG	[6, 12, 6, 13, 5, 12, 5, 13, 5, 14, 5, 15]
CTATGGTCCTTAATATAACCCTCGGAGGCAAG	[3, 13, 3, 14, 2, 13, 2, 14]
AAAGGATAGCCGGACCGTATTAATGCCGCGCC	[7, 13, 7, 14, 8, 13, 8, 14]
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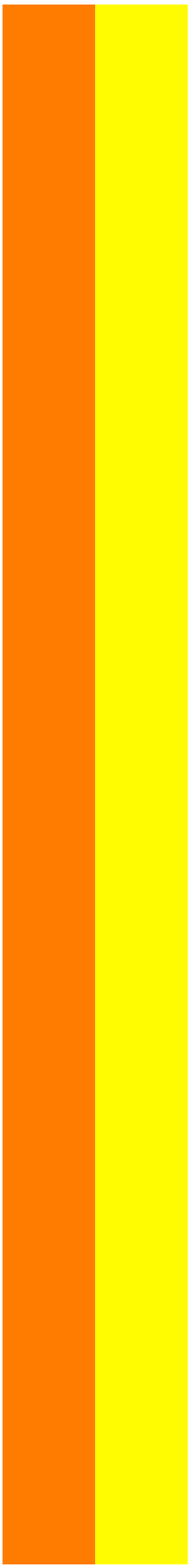

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ACTCGTCGCTAAGCCGCTGTACCGGGTTATGC	[12, 26, 12, 27, 23, 26, 23, 27]
GCGGCGAACTCTGATATCAGGATCGTGTTTCC	[14, 26, 14, 27, 21, 26, 21, 27]
TGCATACCATCCGTCATTAAGAGCCGGGCGAC	[16, 26, 16, 27, 19, 26, 19, 27]
ACTTGATTCAAATATCGGGAGATTGCGACTCA	[18, 26, 18, 27, 29, 26, 29, 27]
CGGGCCCAAGTGTGTATTTGAGTAATTCCTCA	[20, 26, 20, 27, 27, 26, 27, 27]
CGGACTAAATTTTGGAGCTGGACGTGCGCGAG	[22, 26, 22, 27, 25, 26, 25, 27]
GGCACAACAACCCAGACAGAGGTCCGTATACCATGATCGGCATCTAGC	[30, 26, 30, 27, 30, 24, 30, 25, 29, 24, 29, 25]
CCGTCCTCTCATATGTCCATGCTTTCTATTCTGACGAGTATCCGGTTT	[28, 26, 28, 27, 31, 26, 31, 27, 31, 28, 31, 29]
GAGAGGTGATAGAGGTCAGACTGGATCACGACACCGAACTAGGTACCT	[32, 26, 32, 27, 32, 24, 32, 25, 27, 24, 27, 25]
CTGAGCGTAATAAATGGTTAGTTCTACAAATTTTCCGATTTTCCCTTT	[26, 26, 26, 27, 33, 26, 33, 27, 33, 28, 33, 29]
ATCGCAACCCATCCGGCCTAAGTCAGGAATAACCTACACCACAGATGC	[34, 26, 34, 27, 34, 24, 34, 25, 25, 24, 25, 25]
TTTATTGCAAATCTGAAATAACTCGCCGAAGTACTGACCGGGTGTCAC	[24, 26, 24, 27, 35, 26, 35, 27, 35, 28, 35, 29]
GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[1, 27, 1, 28, 2, 27, 2, 28]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[3, 27, 3, 28, 4, 27, 4, 28]
TATTAAGTTTTCGCCGTGAGCGATCAATGACC	[9, 27, 9, 28, 8, 27, 8, 28]
CCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[13, 27, 13, 28, 14, 27, 14, 28]
GTCGTAACTCGGTCGCGGTATGCATTGGCTCA	[15, 27, 15, 28, 16, 27, 16, 28]
GTGCAACGGGAAACACTGGGCCCGGGGTTTGT	[21, 27, 21, 28, 20, 27, 20, 28]
ATACGTGCCTCGCGCAACGCTCAGCCGGTCTG	[25, 27, 25, 28, 26, 27, 26, 28]
GGGTTCATTGAGGAATGAGGACGGTAACCAAA	[27, 27, 27, 28, 28, 27, 28, 28]
AATCGGAAAATTTGTACACCTCTCGCTTGCCA	[33, 27, 33, 28, 32, 27, 32, 28]
AAAAGGAATTATGAGAACATCTCGGAAAGGTGTCCCAAGTGCAAGTAA	[5, 27, 5, 28, 5, 25, 5, 26, 4, 25, 4, 26]
GCGCCGCATACCCATTCACTGTGAATTTCCACGGGACTGGATCAGATG	[7, 27, 7, 28, 6, 27, 6, 28, 6, 29, 6, 30]
GTGCTCTTGAGCGGTGAAGGTAATGTGAAACTCAATGATATGACGGAT	[17, 27, 17, 28, 17, 25, 17, 26, 16, 25, 16, 26]
CGTCACTAGTCGCCCGAATCAAGTAGGGCGAAGGGTTATACACCGTGT	[19, 27, 19, 28, 18, 27, 18, 28, 18, 29, 18, 30]
CTCAGCAATGAGTCGCAATCTCCCGCTAGATGAAAACTTCACATATGA	[29, 27, 29, 28, 29, 25, 29, 26, 28, 25, 28, 26]
TACTCGTCAGAATAGAGTTGTGCCCCAAAGTTTACGTATAGAGGTCCG	[31, 27, 31, 28, 30, 27, 30, 28, 30, 29, 30, 30]
CGTCCTGTATGCCGTTCCATATTAACCTGCCA	[12, 28, 12, 29, 11, 28, 11, 29]
CGCGAGACAAAACGACACTTAATATTCAGGCT	[14, 28, 14, 29, 9, 28, 9, 29]
GCCTCAGTTGAGCCAATGCGGCGCCCTGCGAA	[16, 28, 16, 29, 7, 28, 7, 29]
TATAACCCTTCGCCCTAAGAGCACGAAGCGAG	[18, 28, 18, 29, 17, 28, 17, 29]
ACGTTGTTACAAACCCGTTACGACGAAATACT	[20, 28, 20, 29, 15, 28, 15, 29]
GTGTAAGACACTAATACGTGACGGTGAATCTT	[22, 28, 22, 29, 13, 28, 13, 29]
ATTCCCAGGCAGTTTCTATTATTATTTCAGGT	[24, 28, 24, 29, 23, 28, 23, 29]
GCATGCTGCAGACCGGCGTTGCACATTGTACC	[26, 28, 26, 29, 21, 28, 21, 29]
AAACTAAATTTGGTTATAGTGACGCGGGGCAT	[28, 28, 28, 29, 19, 28, 19, 29]
CGTTTGTCTATGCTCTCTATCTTCTTATGCTAGGTCAGACGGTAATCC	[0, 28, 0, 29, 0, 26, 0, 27, 11, 26, 11, 27]
GCAGGGTGCTACAACTCCAGCCGCGCGCAGGGCTCGACGGTTAATTTG	[10, 28, 10, 29, 1, 28, 1, 29, 1, 30, 1, 31]
ATGTAGCATCAGTCGTCGCACGGCACTGTTAGCTCTCCGCCGGCGAAA	[2, 28, 2, 29, 2, 26, 2, 27, 9, 26, 9, 27]
CCCATGGAGGTCATTGTAATTAGTACGGCCACCGGTGAGATTCCCCAG	[8, 28, 8, 29, 3, 28, 3, 29, 3, 30, 3, 31]
CAGAAACTATCCCTGACGTGCACATTACTTGCTGTCGTATAATGGGTA	[4, 28, 4, 29, 4, 26, 4, 27, 7, 26, 7, 27]
CCAGTCCCGTGGAAATTTCCTTTTTTAGGATCCCACATGAACCGCTCT	[6, 28, 6, 29, 5, 28, 5, 29, 5, 30, 5, 31]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[3, 29, 3, 30, 2, 29, 2, 30]
ACCGAGGATTCGCAGGTCCATGGGATTCACCA	[7, 29, 7, 30, 8, 29, 8, 30]
CCAGTAATAGCCTGAACACCCTGCATCGACGG	[9, 29, 9, 30, 10, 29, 10, 30]
AAACGTCTAGTATTTCGTCTCGCGAGACGCTA	[15, 29, 15, 30, 14, 29, 14, 30]
TACCGCAAATGCCCCGAACAACGTGTCTCATT	[19, 29, 19, 30, 20, 29, 20, 30]
TGTTTACTGGTACAATTCTTACACGGGTAGGA	[21, 29, 21, 30, 22, 29, 22, 30]
AGGGCACTGACGACGCCAGCATGCCCGGTTTA	[27, 29, 27, 30, 26, 29, 26, 30]
GATGCTGGAAACCGGATAACCTAAAAAGGAAA	[31, 29, 31, 30, 32, 29, 32, 30]
TGACTGTAAAAGGGAACAGAGAGTGATACCCT	[33, 29, 33, 30, 34, 29, 34, 30]
CCGTCGAGCCCTGCGCGACAAACGCATATCCTAATTCGCTAAACCGGA	[1, 29, 1, 30, 0, 29, 0, 30, 0, 31, 0, 32]
GCATCAGCTGGCAGGTTAATATGGGGATTACCCTTCAATAAGTTGTAG	[11, 29, 11, 30, 11, 27, 11, 28, 10, 27, 10, 28]
CTCAGTTTAAGATTCAACAGGACGATGTTCTCCTTCCGACTTTTTATA	[13, 29, 13, 30, 12, 29, 12, 30, 12, 31, 12, 32]
GCTAACTTACCTGAAATAATAATAGCATAACCTTAGTCCGTATTAGTG	[23, 29, 23, 30, 23, 27, 23, 28, 22, 27, 22, 28]
GCTAGCATCTCAAGACCTGGGAATTAGGTAAGACTCCTACTGCCCGCC	[25, 29, 25, 30, 24, 29, 24, 30, 24, 31, 24, 32]
AGTGTAGTGTGACACCCGGTCAGTACTTCGGCGTTGCGATAATAGCCC	[35, 29, 35, 30, 35, 27, 35, 28, 34, 27, 34, 28]
GGAGAATCCATCTGATGCTCTTAAGCAGGTTA	[6, 30, 6, 31, 17, 30, 17, 31]
GAATTATATGGTGAATAGACGTTTCCTCACGC	[8, 30, 8, 31, 15, 30, 15, 31]
GCATGAGACCGTCGATAAACTGAGTAAGACCT	[10, 30, 10, 31, 13, 30, 13, 31]
GTCGGAAGGAGAACATAAGTTAGCTGGATACT	[12, 30, 12, 31, 23, 30, 23, 31]
GCCAAAATTAGCGTCTAGTAAACAATCAAGGA	[14, 30, 14, 31, 21, 30, 21, 31]
GGCCCATAGTTAACTCTTGCGGTAACGGCTAG	[16, 30, 16, 31, 19, 30, 19, 31]
CCTATCACACACGGTGCGACTCAATGACGTTT	[18, 30, 18, 31, 29, 30, 29, 31]
CTTATCCTAATGAGACAGTGCCCTTATGCCTA	[20, 30, 20, 31, 27, 30, 27, 31]
TGACACTTTCCTACCCATGCTAGCGCCACACG	[22, 30, 22, 31, 25, 30, 25, 31]
TCTTATGGCGGACCTCTATACGTAAACTTTGGTTGCTGAGTTATCCAC	[30, 30, 30, 31, 30, 28, 30, 29, 29, 28, 29, 29]
CTGTTCTTTTTCCTTTTTAGGTTATGGCAAGCATGAACCCGCGTCGTC	[32, 30, 32, 31, 32, 28, 32, 29, 27, 28, 27, 29]
ATCGGGCTAGGGTATCACTCTCTGGGGCTATTGCACGTATGTCTTGAG	[34, 30, 34, 31, 34, 28, 34, 29, 25, 28, 25, 29]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[1, 31, 1, 32, 2, 31, 2, 32]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[3, 31, 3, 32, 4, 31, 4, 32]
CTTCTACCTCTTAATGTATAATTCATCCTGTG	[9, 31, 9, 32, 8, 31, 8, 32]
ACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[13, 31, 13, 32, 14, 31, 14, 32]
TAGACTCAGCGTGAGGTATGGGCCTCATCCCC	[15, 31, 15, 32, 16, 31, 16, 32]
GCGCAGTTTCCTTGATAGGATAAGGCAGTGAC	[21, 31, 21, 32, 20, 31, 20, 32]
TAAGTAGTCGTGTGGCTGCAAGCCCTCACCTG	[25, 31, 25, 32, 26, 31, 26, 32]
CATTCCTATAGGCATAGTGCGCTAAAGGTATT	[27, 31, 27, 32, 28, 31, 28, 32]
CAACCAGGGCCTGCAAAAGAACAGTTCCGTGC	[33, 31, 33, 32, 32, 31, 32, 32]
CGTAGGCTAGAGCGGTTCATGTGGGATCCTAAAGTTTCTGGTAGACCT	[5, 31, 5, 32, 5, 29, 5, 30, 4, 29, 4, 30]
TTATGTTCTAACCTGCTTAAGAGCCTCGCTTCACTGAGGCGAGTTAAC	[17, 31, 17, 32, 17, 29, 17, 30, 16, 29, 16, 30]
ATCACCTCAAACGTCATTGAGTCGGTGGATAATTTAGTTTGCGTCGAA	[29, 31, 29, 32, 29, 29, 29, 30, 28, 29, 28, 30]

End sequence	Voxels
CGATTGGTTTTTATAGGGCCACTGCCGCCACAAACTTCTTTTTTTTTT	[28, 2, 28, 3, 31, 2, 31, 3, 31, 4, 0, 0]
CGCGAAGGAGGAGCAGGACCGCTTCTTCTGTCAAGACAGTTTTTTTTT	[26, 2, 26, 3, 33, 2, 33, 3, 33, 4, 0, 0]
CAGACTCTTAACCCTGTTTTGAAAGATTCTAAATGGAGCTTTTTTTTT	[24, 2, 24, 3, 35, 2, 35, 3, 35, 4, 0, 0]
ATAGCATCGACACTACGACCTGCTTTTCGACA	[7, 3, 7, 4, 6, 3, 6, 4]
ACCGACCAAGGCGCTATAGGGTATACTCGTAA	[11, 3, 11, 4, 10, 3, 10, 4]
AACGTGGGAAACTGGTTTGGTATATCCTGATA	[19, 3, 19, 4, 18, 3, 18, 4]
AGACTCGACTAGCACGGAGTTTCGAGCTTGCG	[23, 3, 23, 4, 22, 3, 22, 4]
AAGAAGTTTGTGGCGGCGACCTCACTATCACT	[31, 3, 31, 4, 30, 3, 30, 4]
AGCTCCATTTAGAATCGCCATACTGTTGCTCG	[35, 3, 35, 4, 34, 3, 34, 4]
TTTTTTTTTGTCGAAAGGAGGCGGTTTTTTTT	[6, 4, 0, 0, 5, 4, 0, 0]
TTTTTTTTCTAGGTGGGTCCAACATTTTTTTT	[8, 4, 0, 0, 3, 4, 0, 0]
TTTTTTTTTTACGAGTAACAGCATTTTTTTTT	[10, 4, 0, 0, 1, 4, 0, 0]
TTTTTTTTAGGCCTCGTGGTCGGTTTTTTTTT	[12, 4, 0, 0, 11, 4, 0, 0]
TTTTTTTTCCCGGTCACGTTACTGTTTTTTTT	[14, 4, 0, 0, 9, 4, 0, 0]
TTTTTTTTTTGCTAGGGATGCTATTTTTTTTT	[16, 4, 0, 0, 7, 4, 0, 0]
TTTTTTTTTATCAGGAGATGATACTTTTTTTT	[18, 4, 0, 0, 17, 4, 0, 0]
TTTTTTTTCAGAATTACGCCGTGTTTTTTTTT	[20, 4, 0, 0, 15, 4, 0, 0]
TTTTTTTTCGCAAGCTCTTGGACATTTTTTTT	[22, 4, 0, 0, 13, 4, 0, 0]
TTTTTTTTATCATCTCTCGAGTCTTTTTTTTT	[24, 4, 0, 0, 23, 4, 0, 0]
TTTTTTTTTTGTCGGGAGTTGGTCTTTTTTTT	[26, 4, 0, 0, 21, 4, 0, 0]
TTTTTTTTTTTGTGTACCCACGTTTTTTTTTT	[28, 4, 0, 0, 19, 4, 0, 0]
TTTTTTTTAGTGATAGGGTTGAGTTTTTTTTT	[30, 4, 0, 0, 29, 4, 0, 0]
TTTTTTTTCAATGGCTGCTTAACTTTTTTTTT	[32, 4, 0, 0, 27, 4, 0, 0]
TTTTTTTTCGAGCAACTAGGGTCATTTTTTTT	[34, 4, 0, 0, 25, 4, 0, 0]
TTTTTTTTGAGCCACTTAACCTGGCGCTCAGCCCACCTTATAGCGCCT	[0, 4, 0, 0, 0, 2, 0, 3, 11, 2, 11, 3]
TTTTTTTTGTTCCGGTTCAGAAACAGGTAGAGAGTAATTGTCGCTTTT	[2, 4, 0, 0, 2, 2, 2, 3, 9, 2, 9, 3]
TTTTTTTTTTCTGGTCGTTATTTCACGACTTTACTTACGTGTAGTGTC	[4, 4, 0, 0, 4, 2, 4, 3, 7, 2, 7, 3]
AGTGACAAAACTCCGGCGCAGAAGCCTAAAGATGCATCACTTTTTTTT	[28, 6, 28, 7, 31, 6, 31, 7, 31, 8, 0, 0]
GCCGTTCTTCCACGAATCGACCGACCATACAGCAAACTCGTTTTTTTT	[26, 6, 26, 7, 33, 6, 33, 7, 33, 8, 0, 0]
TACCCTACGGGGACAACGAAGCTGTTCTCATTTGGTATCGTTTTTTTT	[24, 6, 24, 7, 35, 6, 35, 7, 35, 8, 0, 0]
TACGTGCTCCCAACATAAGTGACGTCCTCAGC	[7, 7, 7, 8, 6, 7, 6, 8]
TAATACGAAACGACAAAAAATACCTTCGCCGG	[11, 7, 11, 8, 10, 7, 10, 8]
TGGGTATTGAAATCCCGTCACCGAGGTTTTCT	[19, 7, 19, 8, 18, 7, 18, 8]
GTAGCAAAAGAGAGGTAGGATCACAGGGTTCA	[23, 7, 23, 8, 22, 7, 22, 8]
GTGATGCATCTTTAGGCACCCGTATGTAAAAT	[31, 7, 31, 8, 30, 7, 30, 8]
CGATACCAAATGAGAAAAGCCAATCATGCCAT	[35, 7, 35, 8, 34, 7, 34, 8]
TTTTTTTTGCTGAGGATTTTTGTCTTTTTTTT	[6, 8, 0, 0, 5, 8, 0, 0]
TTTTTTTTCCTCAAGCCTAACGATTTTTTTTT	[8, 8, 0, 0, 3, 8, 0, 0]
TTTTTTTTCCGGCGAAGCATCAGATTTTTTTT	[10, 8, 0, 0, 1, 8, 0, 0]
TTTTTTTTTTAGGGTCTCGTATTATTTTTTTT	[12, 8, 0, 0, 11, 8, 0, 0]
TTTTTTTTTGCCATCGGATGAACATTTTTTTT	[14, 8, 0, 0, 9, 8, 0, 0]
TTTTTTTTTTAGGTAAAGCACGTATTTTTTTT	[16, 8, 0, 0, 7, 8, 0, 0]
TTTTTTTTAGAAAACCCTTGGCTTTTTTTTT	[18, 8, 0, 0, 17, 8, 0, 0]
TTTTTTTTAGCAGTACATGAATCCTTTTTTTT	[20, 8, 0, 0, 15, 8, 0, 0]
TTTTTTTTTGAACCCTTTAACCATTTTTTTTT	[22, 8, 0, 0, 13, 8, 0, 0]
TTTTTTTTCCCAGCGGTTTGCTACTTTTTTTT	[24, 8, 0, 0, 23, 8, 0, 0]
TTTTTTTTGTGAGACGTTGCGCTGTTTTTTTT	[26, 8, 0, 0, 21, 8, 0, 0]
TTTTTTTTAGCCGATGAATACCCATTTTTTTT	[28, 8, 0, 0, 19, 8, 0, 0]
TTTTTTTTATTTTACAACGTTTAATTTTTTTT	[30, 8, 0, 0, 29, 8, 0, 0]
TTTTTTTTTTGAAATCCGACTGGGTTTTTTTT	[32, 8, 0, 0, 27, 8, 0, 0]
TTTTTTTTATGGCATGTATGACGATTTTTTTT	[34, 8, 0, 0, 25, 8, 0, 0]
TTTTTTTTAACCGTGAGTATGATTCAGTCTCTGATATCGCTTGTCGTT	[0, 8, 0, 0, 0, 6, 0, 7, 11, 6, 11, 7]
TTTTTTTTACAGCTAAGTGGCTGGTATTTCGAAGGAGGTGGGGTGACC	[2, 8, 0, 0, 2, 6, 2, 7, 9, 6, 9, 7]
TTTTTTTTGCCTGTTTCGGAACAGGGGTATAGGCAGTCCGATGTTGGG	[4, 8, 0, 0, 4, 6, 4, 7, 7, 6, 7, 7]
GGCGTTTGATTAGATTATGGTAGGGGAGACAGCTTAACGATTTTTTTT	[28, 14, 28, 15, 31, 14, 31, 15, 31, 16, 0, 0]
AGTTGCAAGAGACCTGAGCGCGCGATATGACAGTCATAATTTTTTTTT	[26, 14, 26, 15, 33, 14, 33, 15, 33, 16, 0, 0]
TCACCCTAACGGGTTGTTCACTGATTACGGCACGGGCCGTTTTTTTTT	[24, 14, 24, 15, 35, 14, 35, 15, 35, 16, 0, 0]
AACGGTTTCCCGGACCTAGTGTCTATCAAGTC	[7, 15, 7, 16, 6, 15, 6, 16]
CATTAGGTCTATTATAATGGGACGCCACTACG	[11, 15, 11, 16, 10, 15, 10, 16]
ACGCGTTTTAATGCCGACATGGAACGTTATAG	[19, 15, 19, 16, 18, 15, 18, 16]
GTCAGTCGATGAAGCCATGAATGTACCCGTCA	[23, 15, 23, 16, 22, 15, 22, 16]
TCGTTAAGCTGTCTCCCGGCTGGACACTCCAA	[31, 15, 31, 16, 30, 15, 30, 16]
ACGGCCCGTGCCGTAAGTGAATTTTGCGCCCA	[35, 15, 35, 16, 34, 15, 34, 16]
TTTTTTTTGACTTGATGCCACTACTTTTTTTT	[6, 16, 0, 0, 5, 16, 0, 0]
TTTTTTTTAAAGTATTCCTCTCCCTTTTTTTT	[8, 16, 0, 0, 3, 16, 0, 0]
TTTTTTTTCGTAGTGGTAGCTCCGTTTTTTTT	[10, 16, 0, 0, 1, 16, 0, 0]
TTTTTTTTCCGGCGGAACCTAATGTTTTTTTT	[12, 16, 0, 0, 11, 16, 0, 0]
TTTTTTTTCATCGTGCTACTGGAGTTTTTTTT	[14, 16, 0, 0, 9, 16, 0, 0]
TTTTTTTTGGAGCGTAAAACCGTTTTTTTTT	[16, 16, 0, 0, 7, 16, 0, 0]
TTTTTTTTCTATAACGGAAGTTCATTTTTTTT	[18, 16, 0, 0, 17, 16, 0, 0]
TTTTTTTTAGCGCTATCACTTGACTTTTTTTT	[20, 16, 0, 0, 15, 16, 0, 0]
TTTTTTTTTGACGGGTGTTAGTGGTTTTTTTT	[22, 16, 0, 0, 13, 16, 0, 0]
TTTTTTTTCTAATACGCGACTGACTTTTTTTT	[24, 16, 0, 0, 23, 16, 0, 0]
TTTTTTTTGAATCTTACGTTCTAGTTTTTTTT	[26, 16, 0, 0, 21, 16, 0, 0]
TTTTTTTTCAACGCTCAAACGCGTTTTTTTTT	[28, 16, 0, 0, 19, 16, 0, 0]
TTTTTTTTTTGGAGTGTACAGGATTTTTTTTT	[30, 16, 0, 0, 29, 16, 0, 0]
TTTTTTTTACTAGACAACCTCGCCTTTTTTTT	[32, 16, 0, 0, 27, 16, 0, 0]
TTTTTTTTTGGGCGCATAACCTGCTTTTTTTT	[34, 16, 0, 0, 25, 16, 0, 0]
TTTTTTTTCCATCCCTAAGTAAACCCATTATAGTAATGGTTATAATAG	[0, 16, 0, 0, 0, 14, 0, 15, 11, 14, 11, 15]

TTTTTTTTGTGGGACGTATGATTGCTTGCCTCAGTGTCTCAATGGCAA	[2, 16, 0, 0, 2, 14, 2, 15, 9, 14, 9, 15]
TTTTTTTTCCCGAGCCAGGTGGCCAGTGGAGCTATCCTTTGGTCCGGG	[4, 16, 0, 0, 4, 14, 4, 15, 7, 14, 7, 15]
TAGCGCACTTCGACGCCCAGCATCGAGACAGACACACTGCTTTTTTTT	[28, 30, 28, 31, 31, 30, 31, 31, 31, 32, 0, 0]
GGCTTGCATAAACCGGTACAGTCATTGCAGGCCCTGGTTGTTTTTTTT	[26, 30, 26, 31, 33, 30, 33, 31, 33, 32, 0, 0]
GTAGGAGTCTTACCTAACTACACTATATGAGCGTCCCAGCTTTTTTTT	[24, 30, 24, 31, 35, 30, 35, 31, 35, 32, 0, 0]
AGCTCGTATACACCCTGATTCTCCATGGCAGC	[7, 31, 7, 32, 6, 31, 6, 32]
GCCATCCTACCCGCTTTCTCATGCGAAGCAGG	[11, 31, 11, 32, 10, 31, 10, 32]
CGACATAACTAGCCGTGTGATAGGCTCTCAGC	[19, 31, 19, 32, 18, 31, 18, 32]
GAAGATTTAGTATCCAAAGTGTCAACTAGTTC	[23, 31, 23, 32, 22, 31, 22, 32]
GCAGTGTGTCTGTCTCCCATAAGACGAACCAC	[31, 31, 31, 32, 30, 31, 30, 32]
GCTGGGACGCTCATATAGCCCGATCCGAGGCT	[35, 31, 35, 32, 34, 31, 34, 32]
TTTTTTTTGCTGCCATAGCCTACGTTTTTTTT	[6, 32, 0, 0, 5, 32, 0, 0]
TTTTTTTTCACAGGATGAGTGCAATTTTTTTT	[8, 32, 0, 0, 3, 32, 0, 0]
TTTTTTTTCCTGCTTCGCGGGCCGTTTTTTTT	[10, 32, 0, 0, 1, 32, 0, 0]
TTTTTTTTTATAAAAAAGGATGGCTTTTTTTT	[12, 32, 0, 0, 11, 32, 0, 0]
TTTTTTTTCCCGTTCCGGTAGAAGTTTTTTTT	[14, 32, 0, 0, 9, 32, 0, 0]
TTTTTTTTGGGGATGATACGAGCTTTTTTTT	[16, 32, 0, 0, 7, 32, 0, 0]
TTTTTTTTGCTGAGAGGAACATAATTTTTTTT	[18, 32, 0, 0, 17, 32, 0, 0]
TTTTTTTTGTCACTGCTGAGTCTATTTTTTTT	[20, 32, 0, 0, 15, 32, 0, 0]
TTTTTTTTGAACTAGTGAAGAGGTTTTTTTTT	[22, 32, 0, 0, 13, 32, 0, 0]
TTTTTTTTGGCGGGCAAAATCTTCTTTTTTTT	[24, 32, 0, 0, 23, 32, 0, 0]
TTTTTTTTCAGGTGAGAACTGCGCTTTTTTTT	[26, 32, 0, 0, 21, 32, 0, 0]
TTTTTTTTAATACCTTTATGTCGTTTTTTTT	[28, 32, 0, 0, 19, 32, 0, 0]
TTTTTTTTGTGGTTCGGAGGTGATTTTTTTTT	[30, 32, 0, 0, 29, 32, 0, 0]
TTTTTTTTGCACGGAATAGGAATGTTTTTTTT	[32, 32, 0, 0, 27, 32, 0, 0]
TTTTTTTTAGCCTCGGACTACTTATTTTTTTT	[34, 32, 0, 0, 25, 32, 0, 0]
TTTTTTTTTCCGGTTTAGCGAATTAGGATATGGCTGATGCAAGCGGGT	[0, 32, 0, 0, 0, 30, 0, 31, 11, 30, 11, 31]
TTTTTTTTGAAGCGTAATCGACTAAGAAACTGATTACTGGCATTAAGA	[2, 32, 0, 0, 2, 30, 2, 31, 9, 30, 9, 31]
TTTTTTTTAGTGCGTAAGTATAGTAGGTCTACTCCTCGGTAGGGTGTA	[4, 32, 0, 0, 4, 30, 4, 31, 7, 30, 7, 31]

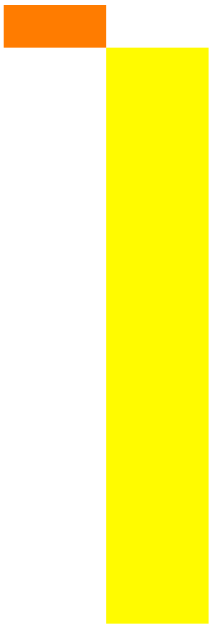

Table S10. Sequences of 6H × 10H × (32B, 64B, 128B). Each design is color coded and contains "core" and "end" sequences.

End sequence	Voxels	6H x 10H x 32B core	6H x 10H x 64B core	6H x 10H x 128B core
CACTGAGTTTTTTTTT	[0, 0, 0, 1, 0, 0, 0, 0]			
AGCTTGGGTTTTTTTT	[0, 0, 2, 1, 0, 0, 0, 0]			
GAACTTGATTTTTTTT	[0, 0, 4, 1, 0, 0, 0, 0]			
TTTTTTTTAGGTACCT	[0, 0, 55, 1, 0, 0, 0, 0]			
TTTTTTTTCCGGTGAG	[0, 0, 57, 1, 0, 0, 0, 0]			
TTTTTTTTTGATCCG	[0, 0, 59, 1, 0, 0, 0, 0]			
CGGGGAGGTTTTTTTTTTTTTTTTATGTACCG	[0, 0, 12, 1, 0, 0, 11, 1]			
GAGGTGGTTTTTTTTTTTTTTTTTTGGAAGTTC	[0, 0, 14, 1, 0, 0, 9, 1]			
CAACATTTTTTTTTTTTTTTTTTACAACATA	[0, 0, 16, 1, 0, 0, 7, 1]			
TTATATTATTTTTTTTTTTTTTTTTGACGGAG	[0, 0, 18, 1, 0, 0, 17, 1]			
CGACCATTTTTTTTTTTTTTTTTTTGCCACC	[0, 0, 20, 1, 0, 0, 15, 1]			
TGGGAGAATTTTTTTTTTTTTTTTTCACCGAA	[0, 0, 22, 1, 0, 0, 13, 1]			
CTGGTCTCTTTTTTTTTTTTTTTTGCCCACCA	[0, 0, 24, 1, 0, 0, 23, 1]			
GCGCCAGATTTTTTTTTTTTTTTTTATCAAAG	[0, 0, 26, 1, 0, 0, 21, 1]			
CGATGCGGTTTTTTTTTTTTTTTTAGCCATTT	[0, 0, 28, 1, 0, 0, 19, 1]			
CAGTATTTTTTTTTTTTTTTTTTTTGCGGGG	[0, 0, 30, 1, 0, 0, 29, 1]			
TCACGAGGTTTTTTTTTTTTTTTAAAGTGAG	[0, 0, 32, 1, 0, 0, 27, 1]			
GGCAGGCATTTTTTTTTTTTTTTTGCGCCCAC	[0, 0, 34, 1, 0, 0, 25, 1]			
GAGGCAGCTTTTTTTTTTTTTTTTCCATTTCA	[0, 0, 36, 1, 0, 0, 35, 1]			
CGAGTTGATTTTTTTTTTTTTTTTACAAATTA	[0, 0, 38, 1, 0, 0, 33, 1]			
TCTATAACTTTTTTTTTTTTTTTTTTTCTTA	[0, 0, 40, 1, 0, 0, 31, 1]			
ATCCCTTGTTTTTTTTTTTTTTTTAATCTTGG	[0, 0, 42, 1, 0, 0, 41, 1]			
CCATATCATTTTTTTTTTTTTTTTTAGTGTTG	[0, 0, 44, 1, 0, 0, 39, 1]			
CACGGCTTTTTTTTTTTTTTTTTAGAAGATT	[0, 0, 46, 1, 0, 0, 37, 1]			
GTTCAACATTTTTTTTTTTTTTTTTATTCCTGA	[0, 0, 48, 1, 0, 0, 47, 1]			
CGTGGATCTTTTTTTTTTTTTTTTTAGAGACC	[0, 0, 50, 1, 0, 0, 45, 1]			
AGGCCCACTTTTTTTTTTTTTTTTGTAATCTC	[0, 0, 52, 1, 0, 0, 43, 1]			
CGACCATGTTTTTTTTTTTTTTTTGAGATGCGGATACTTTGAAAAGGC	[0, 0, 10, 1, 0, 0, 1, 1, 1, 2, 1, 3]			
CACTTGAGTTTTTTTTTTTTTTTTTCTGACAGACATCTTTTGGGGTCGT	[0, 0, 8, 1, 0, 0, 3, 1, 3, 2, 3, 3]			
GGGCACTCTTTTTTTTTTTTTTTTCTGCTCTAAGCTGTTCTCCCCGTC	[0, 0, 6, 1, 0, 0, 5, 1, 5, 2, 5, 3]			
GAGTGCCCCCTCGGCA	[6, 1, 6, 2, 0, 0, 0, 0]			
GATATCCACGGTACAT	[11, 1, 11, 2, 0, 0, 0, 0]			
TAATATAATGTCCGCG	[18, 1, 18, 2, 0, 0, 0, 0]			
ATGTGTAATGGTGGGC	[23, 1, 23, 2, 0, 0, 0, 0]			
AAATACTGCCCACGGT	[30, 1, 30, 2, 0, 0, 0, 0]			
GCGTATGCTGAAATGG	[35, 1, 35, 2, 0, 0, 0, 0]			
CAAGGGATATCGGCTC	[42, 1, 42, 2, 0, 0, 0, 0]			
GGCAAGAGTCAGGAAT	[47, 1, 47, 2, 0, 0, 0, 0]			
TAGCCGACCTCTGATG	[54, 1, 54, 2, 0, 0, 0, 0]			
TAGCCCTACGGATCAA	[59, 1, 59, 2, 0, 0, 0, 0]			
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[3, 1, 3, 2, 2, 1, 2, 2]			
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[7, 1, 7, 2, 8, 1, 8, 2]			
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[9, 1, 9, 2, 10, 1, 10, 2]			
ATACGACAGGTGGCAAACCACCTCCGATGTCA	[15, 1, 15, 2, 14, 1, 14, 2]			
GCGGAGAGAAATGGCTAATGGTCGACAATATG	[19, 1, 19, 2, 20, 1, 20, 2]			
CTCATGATCTTTGATATTCTCCCAAATGGATA	[21, 1, 21, 2, 22, 1, 22, 2]			
TGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[27, 1, 27, 2, 26, 1, 26, 2]			
TCCAGAGCTAAGAAAACCTCGTGATATCAGAG	[31, 1, 31, 2, 32, 1, 32, 2]			
CGGCGATTTAATTTGTTGCCTGCCGGTGTGAG	[33, 1, 33, 2, 34, 1, 34, 2]			
GCTCTTAACAACACTATCAACTCGTACACACT	[39, 1, 39, 2, 38, 1, 38, 2]			
GATCCTGAGAGATTACTGATATGGTCCAAAAT	[43, 1, 43, 2, 44, 1, 44, 2]			
TTCATACTGGTCTCTAAAGCCGTGAGAGGACC	[45, 1, 45, 2, 46, 1, 46, 2]			
CGTCCAGCGCATCTGTGATCCACGTCAGATTT	[51, 1, 51, 2, 50, 1, 50, 2]			
TACTCAAAAGGTACCTGCCTGGACCATTTATT	[55, 1, 55, 2, 56, 1, 56, 2]			
AACGAATTCTCACCGGTGGATAAAAACTTCTA	[57, 1, 57, 2, 58, 1, 58, 2]			
AAAGTATCCGCATCTCACTCAGTGATCGAGTACCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]			
TTCAAGTATTCGGTGACCTCCCCGCATTACAATTTCATGGCGGCGATG	[13, 1, 13, 2, 12, 1, 12, 2, 12, 3, 12, 4]			
ACTGCTGGGTGGGCGCGAGACCAGGCGTCCGGTACGGCACCGAGGCCT	[25, 1, 25, 2, 24, 1, 24, 2, 24, 3, 24, 4]			
AGCTTCGCAATCTTCTGCTGCCTCTAGGGGGGACCAATGTAAGCAGAT	[37, 1, 37, 2, 36, 1, 36, 2, 36, 3, 36, 4]			
TCAGAGTTCCCACCACTGTTGAACGTTGCTAAAGAGTCTGGAGATGAT	[49, 1, 49, 2, 48, 1, 48, 2, 48, 3, 48, 4]			
CGTGCACATGCCGAGGAAGCCTGATACACTAA	[6, 2, 6, 3, 17, 2, 17, 3]			
TAGTTTGAACTGTTAGTGTCGTATAATGGGTA	[8, 2, 8, 3, 15, 2, 15, 3]			
ACTCTCGTCAGTAGAATACTTGAATTACTTGG	[10, 2, 10, 3, 13, 2, 13, 3]			
CCATGAAATTGTAATGTTACACATGGCGCAGA	[12, 2, 12, 3, 23, 2, 23, 3]			
TACATACGTGACATCGATCATGAGTTTTTTGT	[14, 2, 14, 3, 21, 2, 21, 3]			
TCACAGTGATCTCAGCCTCTCCGCCGGCGAAA	[16, 2, 16, 3, 19, 2, 19, 3]			
ATCGCTCACGCGGACACCACGGAAGGTATGCT	[18, 2, 18, 3, 29, 2, 29, 3]			
TAGGCAAGCATATTGTCATACACACCACAATG	[20, 2, 20, 3, 27, 2, 27, 3]			
GTGGCGCTTATCCATTCCAGCAGTAAACGTCC	[22, 2, 22, 3, 25, 2, 25, 3]			
GTGCCGTACCGGACGCGCATACGCAAAACGTA	[24, 2, 24, 3, 35, 2, 35, 3]			
TATTGCTCCTAAGCCGAATCGCCGAACTCTAA	[26, 2, 26, 3, 33, 2, 33, 3]			
GCGGCGAACCCCTCAGGCTCTGGAGCGACCGA	[28, 2, 28, 3, 31, 2, 31, 3]			
TGCATACCACCGTGGGTTTCACCGTCTCGATA	[30, 2, 30, 3, 41, 2, 41, 3]			
AGGCAGTCCTCTGATATTAAGAGCCGGGCGAC	[32, 2, 32, 3, 39, 2, 39, 3]			
CGCATTACCTCACACCGCGAAGCTTACAGGCA	[34, 2, 34, 3, 37, 2, 37, 3]			
ACATTGGTCCCCCCTACTCTTGCCGAGGAGGA	[36, 2, 36, 3, 47, 2, 47, 3]			

GACTATTGAGTGTGTAAGTATGAAAGTATCCA	[38, 2, 38, 3, 45, 2, 45, 3]
ACTTGATTTGTATTCTTCAGGATCGTGTTTCC	[40, 2, 40, 3, 43, 2, 43, 3]
CGGGCCCAGAGCCGATTGACTGTGATCGCGGA	[42, 2, 42, 3, 53, 2, 53, 3]
GGCCGAAAATTTTGGAGCTGGACGTGCGCGAG	[44, 2, 44, 3, 51, 2, 51, 3]
CAATCAGGGGTCCTCTAACTCTGAGCGAAGTT	[46, 2, 46, 3, 49, 2, 49, 3]
CCGTCCTCCATCAGAGGTCGGCTATTTTTTTTTTTTTTTTCTACCGAT	[54, 2, 54, 3, 0, 0, 54, 1, 0, 0, 53, 1]
AGGGGGACAATAAATGGTCCAGGCTTTTTTTTTTTTTTTTACAGATGC	[56, 2, 56, 3, 0, 0, 56, 1, 0, 0, 51, 1]
AATCGTGATAGAAGTTTTTATCCATTTTTTTTTTTTTTTTGTGGTGGG	[58, 2, 58, 3, 0, 0, 58, 1, 0, 0, 49, 1]
TTCATGTCGCCTTTTCGAACGGTGACACACTT	[1, 3, 1, 4, 2, 3, 2, 4]
GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[3, 3, 3, 4, 4, 3, 4, 4]
TCGTATGATCATAGGATCAAACTAAATACAGC	[9, 3, 9, 4, 8, 3, 8, 4]
CGCGCTTACCAAGTAACGTATGTACGACGCGA	[13, 3, 13, 4, 14, 3, 14, 4]
GCGCCGCATACCCATTCACTGTGAATTTCCAC	[15, 3, 15, 4, 16, 3, 16, 4]
GGGCGTAAACAAAAAACTTGCCTATCGTGCCC	[21, 3, 21, 4, 20, 3, 20, 4]
CACTGTGTGGACGTTTGAGCAATAGAAATTGA	[25, 3, 25, 4, 26, 3, 26, 4]
CCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[27, 3, 27, 4, 28, 3, 28, 4]
CGTGGGTCTTAGAGTTGACTGCCTCATTAATA	[33, 3, 33, 4, 32, 3, 32, 4]
TTTGTCCATGCCTGTACAATAGTCGTGACCGA	[37, 3, 37, 4, 38, 3, 38, 4]
CGTCACTAGTCGCCCGAATCAAGTAGGGCGAA	[39, 3, 39, 4, 40, 3, 40, 4]
GTATGTTTTGGATACTTTTCGGCCTCAGCGGG	[45, 3, 45, 4, 44, 3, 44, 4]
GGCACTTGAACTTCGCGACATATTCAAATGAG	[49, 3, 49, 4, 50, 3, 50, 4]
ATACGTGCCTCGCGCAACGCTCAGCCGGTCTG	[51, 3, 51, 4, 52, 3, 52, 4]
TAATTGCAATCTGCAAGTCCCCCTACTTACTG	[57, 3, 57, 4, 56, 3, 56, 4]
TACCTATGGACGGGGAGAAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[5, 3, 5, 4, 5, 1, 5, 2, 4, 1, 4, 2]
TGATTGGTTTAGTGTATCAGGCTTCTCCGTCAAAATGTTGGCTGAGAT	[17, 3, 17, 4, 17, 1, 17, 2, 16, 1, 16, 2]
GAGGGGATAGCATACCTTCCGTGGCCCCGCAACCGCATCGCTGAGGGG	[29, 3, 29, 4, 29, 1, 29, 2, 28, 1, 28, 2]
CATTCCAATATCGAGACGGTGAAACCAAGATTGTTATAGAAGAATACA	[41, 3, 41, 4, 41, 1, 41, 2, 40, 1, 40, 2]
TGTCCTTGTCCGCGATCACAGTCAATCGGTAGGTGGGCCTTGAGGTTA	[53, 3, 53, 4, 53, 1, 53, 2, 52, 1, 52, 2]
CTGAGCGTTAACCTCATTTGAGTAATTCCTCAATGAACCCGCGTCGTC	[52, 2, 52, 3, 55, 2, 55, 3, 55, 4, 55, 5]
AATATGTCAAATCTGAAATTCGTTTTGCAGATTGCAATTAAGAGTCTA	[50, 2, 50, 3, 57, 2, 57, 3, 57, 4, 57, 5]
CAGACTCTTTAGCAACTAGGGCTAACGTAAAGAAATTGACTGTCCGTC	[48, 2, 48, 3, 59, 2, 59, 3, 59, 4, 59, 5]
ACTAATTATCCATAACTGTGCACGTCAGGGATGCCGCCTCGGTTATAC	[7, 3, 7, 4, 6, 3, 6, 4, 6, 5, 6, 6]
TATTAAGTTTTCGCCGTGAGCGATCAATGACCGATCAGCGAATTCGAC	[19, 3, 19, 4, 18, 3, 18, 4, 18, 5, 18, 6]
GTCGTAACTCGGTCGCGGTATGCATTGGCTCAATTAGGCACTCCATAA	[31, 3, 31, 4, 30, 3, 30, 4, 30, 5, 30, 6]
GTGCAACGGGAAACACTGGGCCCGGGGTTTGTCTTCGGATTCTCTGGC	[43, 3, 43, 4, 42, 3, 42, 4, 42, 5, 42, 6]
GGGTTCATTGAGGAATGAGGACGGTAACCAAATGATGTGAGTTGTTGG	[55, 3, 55, 4, 54, 3, 54, 4, 54, 5, 54, 6]
AATTCATCCATCGCCGGTAAACGATAGGTTTC	[12, 4, 12, 5, 11, 4, 11, 5]
CCCATGGATCGCGTCGTCATACGACAAGAACT	[14, 4, 14, 5, 9, 4, 9, 5]
CTCCCACAGTGGAAATTAATTAGTACGGCCAC	[16, 4, 16, 5, 7, 4, 7, 5]
CGCTGATCGGTCATTGACCAATCATATCTCTT	[18, 4, 18, 5, 17, 4, 17, 5]
GCAGGGTGGGGCACGATGCGGCGCCCTGCGAA	[20, 4, 20, 5, 15, 4, 15, 5]
TAGGTGGTTTGGGGACTAAGCGCGCACCCGTT	[22, 4, 22, 5, 13, 4, 13, 5]
GAGCCGATAGGCCTCGTATCGTCCTGACAGGT	[24, 4, 24, 5, 23, 4, 23, 5]
CGTCCTGTTCAATTTCTTACGCCCAGACAATG	[26, 4, 26, 5, 21, 4, 21, 5]
GATCACCCAAAACGACACTTAATATTCAGGCT	[28, 4, 28, 5, 19, 4, 19, 5]
TGCCTAATTGAGCCAAATCCCCTCGCGAGGGT	[30, 4, 30, 5, 29, 4, 29, 5]
CGCGAGACTATTAATGCGTGACGGTGAATCTT	[32, 4, 32, 5, 27, 4, 27, 5]
TGACACTGCCTGGTTTACACAGTGTGCAGGGT	[34, 4, 34, 5, 25, 4, 25, 5]
GTCGGCCCATCTGCTTGGAGGGTTCCTTGATG	[36, 4, 36, 5, 35, 4, 35, 5]
ACGTTGTTTCGGTCACGACCCACGTTAATCCT	[38, 4, 38, 5, 33, 4, 33, 5]
GCCAAGGATTCGCCCTGTTACGACGAAATACT	[40, 4, 40, 5, 31, 4, 31, 5]
ATCCGAAGACAAACCCTTGGAATGTCTTTGCT	[42, 4, 42, 5, 41, 4, 41, 5]
GTGTAAGACCCGCTGATAGTGACGCGGGGCAT	[44, 4, 44, 5, 39, 4, 39, 5]
TGAAAGAACTCTATATTGGACAAATTCGCGTG	[46, 4, 46, 5, 37, 4, 37, 5]
CCGTTCACATCATCTCGACGCTTATTTACATC	[48, 4, 48, 5, 47, 4, 47, 5]
ATTCCCAGCTCATTTGAAACATACTTGCGGCA	[50, 4, 50, 5, 45, 4, 45, 5]
CCCAAATGCAGACCGGCGTTGCACATTGTACC	[52, 4, 52, 5, 43, 4, 43, 5]
ATTTCCGCGAGCCACTTAACCTGGTACTCGATTGGATATCTCCGTGCA	[0, 4, 0, 5, 0, 2, 0, 3, 11, 2, 11, 3]
AATAAGGAATGCCAGCGACATGAATACTCTGAATGAACACCCCGCTGC	[10, 4, 10, 5, 1, 4, 1, 5, 1, 6, 1, 7]
CGTTTGTCAAGTGTGTCACCGTTCTTATGCTAAGCTCTGTTCCTATGA	[2, 4, 2, 5, 2, 2, 2, 3, 9, 2, 9, 3]
ATGTAGCAGCTGTATTCCAGCCGCGCGCAGGGCTCGACGGTTAATTTG	[8, 4, 8, 5, 3, 4, 3, 5, 3, 6, 3, 7]
TCATCCGGTCAGTCGTCGCACGGCGCGTATCCGTGGGTAAGTTATGGA	[4, 4, 4, 5, 4, 2, 4, 3, 7, 2, 7, 3]
GAGGCGGCATCCCTGACATAGGTAATCATGGTGTCGCATATATCCCAA	[6, 4, 6, 5, 5, 4, 5, 5, 5, 6, 5, 7]
CCGTCGAGCCCTGCGCGACAAACGCATATCCT	[3, 5, 3, 6, 2, 5, 2, 6]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[7, 5, 7, 6, 8, 5, 8, 6]
GTACCGCCAGTTCTTGTCCTTATTGGCGATCG	[9, 5, 9, 6, 10, 5, 10, 6]
ACCGAGGATTCGCAGGTCCATGGGATTCACCA	[15, 5, 15, 6, 14, 5, 14, 6]
CCAGTAATAGCCTGAACACCCTGCATCGACGG	[19, 5, 19, 6, 20, 5, 20, 6]
TCATACAGCATTGTCTACCACCTATGTTCTTA	[21, 5, 21, 6, 22, 5, 22, 6]
CTCAGTTTAAGATTCAACAGGACGATGTTCTC	[27, 5, 27, 6, 26, 5, 26, 6]
AAACGTCTAGTATTTCGTCTCGCGAGACGCTA	[31, 5, 31, 6, 32, 5, 32, 6]
TCCGCATAAGGATTAACAGTGTCATCGGTACA	[33, 5, 33, 6, 34, 5, 34, 6]
TACCGCAAATGCCCCGAACAACGTGTCTCATT	[39, 5, 39, 6, 38, 5, 38, 6]
TGTTTACTGGTACAATTCTTACACGGGTAGGA	[43, 5, 43, 6, 44, 5, 44, 6]
TCACTCTTTGCCGCAATTCTTTCAACGGGGGC	[45, 5, 45, 6, 46, 5, 46, 6]
GCTAGCATCTCAAGACCTGGGAATTAGGTAAG	[51, 5, 51, 6, 50, 5, 50, 6]
AGGGCACTGACGACGCCAGCATGCCCGGTTTA	[55, 5, 55, 6, 56, 5, 56, 6]
AAGGAGCTTAGACTCTTCCTAACAAGACGCTG	[57, 5, 57, 6, 58, 5, 58, 6]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGCAATCATACTCACGGTT	[1, 5, 1, 6, 0, 5, 0, 6, 0, 7, 0, 8]
AAGCAAGAGAAACCTATCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[11, 5, 11, 6, 11, 3, 11, 4, 10, 3, 10, 4]
TGCGAGTGAACGGGTGGATGAATTTCGTTCGGTCGCCGTTTGCTCGCG	[13, 5, 13, 6, 12, 5, 12, 6, 12, 7, 12, 8]

TTGTCGGGACCTGTCAGGACGATATCTGCGCCAGCGCCACGTCCCCAA	[23, 5, 23, 6, 23, 3, 23, 4, 22, 3, 22, 4]
TATGAGTTACCCTGCAATCGGCTCAAGACGTAAATCCGATGACCCTAA	[25, 5, 25, 6, 24, 5, 24, 6, 24, 7, 24, 8]
AGCCTATTCATCAAGGAACCCTCCTACGTTTTGTAATGCGAAACCAGG	[35, 5, 35, 6, 35, 3, 35, 4, 34, 3, 34, 4]
GCGCTAGTCACGCGAAGGGCCGACAATCGGCGGGATCTACCGGCATGC	[37, 5, 37, 6, 36, 5, 36, 6, 36, 7, 36, 8]
GTAATTAGGATGTAAATAAGCGTCTCCTCCTCCCTGATTGATATAGAG	[47, 5, 47, 6, 47, 3, 47, 4, 46, 3, 46, 4]
CAGCGAGCGTTTTACGGTGAACGGTGGGCATTGTAGGGTACCGCTGGG	[49, 5, 49, 6, 48, 5, 48, 6, 48, 7, 48, 8]
TTTACAAAGACGGACAGTCAATTTCTTTACGTTCACGATTGTAGAAAT	[59, 5, 59, 6, 59, 3, 59, 4, 58, 3, 58, 4]
AGTATAGTGTATAACCACTCGCTAGTCAACTT	[6, 6, 6, 7, 17, 6, 17, 7]
GCGGCCATAGAAACTGTCCTCGGTAGGGTGTA	[8, 6, 8, 7, 15, 6, 15, 7]
TCGCAACGCGATCGCCCACTCGCACTTAGATC	[10, 6, 10, 7, 13, 6, 13, 7]
AACGGCGACCGAACGACCCGACAATTGTTCAT	[12, 6, 12, 7, 23, 6, 23, 7]
GCGCCAGATGGTGAATCTGTATGAATCTATGT	[14, 6, 14, 7, 21, 6, 21, 7]
GGAGAATCTAATGATCATTACTGGCATTAAGA	[16, 6, 16, 7, 19, 6, 19, 7]
GAATTATAGTCGAATTTTGTGCTGCACAGCAC	[18, 6, 18, 7, 29, 6, 29, 7]
GCCCGACGCCGTCGATAAACTGAGTAAGACCT	[20, 6, 20, 7, 27, 6, 27, 7]
GACCCAGGTAAGAACAAACTCATAGGTGCGTC	[22, 6, 22, 7, 25, 6, 25, 7]
ATCGGATTTACGTCTTAATAGGCTAACGTTAT	[24, 6, 24, 7, 35, 6, 35, 7]
AATTATCAGAGAACATTATGCGGAACCGGATA	[26, 6, 26, 7, 33, 6, 33, 7]
GCCAAAATTAACGGCCAGACGTTTCCTCACGC	[28, 6, 28, 7, 31, 6, 31, 7]
GGCCCATATTATGGAGTGTGTGGAAAACTAAA	[30, 6, 30, 7, 41, 6, 41, 7]
CGATGTCGTAGCGTCTTTGCGGTAACGGCTAG	[32, 6, 32, 7, 39, 6, 39, 7]
CAAATCCCTGTACCGAACTAGCGCTTCCAGTA	[34, 6, 34, 7, 37, 6, 37, 7]
GTAGATCCCGCCGATTCTAATTACACCCCCGC	[36, 6, 36, 7, 47, 6, 47, 7]
GCTTAACAAATGAGACAAGAGTGACATGTAGG	[38, 6, 38, 7, 45, 6, 45, 7]
CCTATCACCTAACTATAGTAAACAATCAAGGA	[40, 6, 40, 7, 43, 6, 43, 7]
CTTATCCTGCCAGAGACGGACGAAGAGCAAGG	[42, 6, 42, 7, 53, 6, 53, 7]
CTTTATTTTCCTACCCATGCTAGCGCCACACG	[44, 6, 44, 7, 51, 6, 51, 7]
CGGCGTTAGCCCCCGTGCTCGCTGCCTGATGT	[46, 6, 46, 7, 49, 6, 49, 7]
TAGCGCACCCAACAACTCACATCATTTGGTTACAAGGACATAGAGCAC	[54, 6, 54, 7, 54, 4, 54, 5, 53, 4, 53, 5]
GCTACGCATAAACCGGGCATGCTGCAGTAAGTGCACGTATGTCTTGAG	[56, 6, 56, 7, 56, 4, 56, 5, 51, 4, 51, 5]
TCATTCCGCAGCGTCTTGTTAGGAATTTCTACCAAGTGCCCGTAAAAC	[58, 6, 58, 7, 58, 4, 58, 5, 49, 4, 49, 5]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[1, 7, 1, 8, 2, 7, 2, 8]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[3, 7, 3, 8, 4, 7, 4, 8]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[9, 7, 9, 8, 8, 7, 8, 8]
GGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[13, 7, 13, 8, 14, 7, 14, 8]
AGCTCGTATACACCCTGATTCTCCATGGCAGC	[15, 7, 15, 8, 16, 7, 16, 8]
TGCTGTTAACATAGATCGTCGGGCGACCTTCG	[21, 7, 21, 8, 20, 7, 20, 8]
GAATGAGCGACGCACCTGATAATTAACACTCC	[25, 7, 25, 8, 26, 7, 26, 8]
ACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[27, 7, 27, 8, 28, 7, 28, 8]
GCCAGGGTTATCCGGTCGACATCGACCGTTCA	[33, 7, 33, 8, 32, 7, 32, 8]
CACCTGTATACTGGAATGTTAAGCGTAAATAA	[37, 7, 37, 8, 38, 7, 38, 8]
CGACATAACTAGCCGTGTGATAGGCTCTCAGC	[39, 7, 39, 8, 40, 7, 40, 8]
TCACACTTCCTACATGAAATAAAGGTACCCGT	[45, 7, 45, 8, 44, 7, 44, 8]
GACTACCTACATCAGGTTTGCGTGCCTAACCA	[49, 7, 49, 8, 50, 7, 50, 8]
TAAGTAGTCGTGTGGCTGCAAGCCCTCACCTG	[51, 7, 51, 8, 52, 7, 52, 8]
GTCGCACTTGTGTGAATGCGTAGCATGCACCG	[57, 7, 57, 8, 56, 7, 56, 8]
GATCGTCATTGGGATATATGCGACACCATGATCCGGATGAGTTATGAA	[5, 7, 5, 8, 5, 5, 5, 6, 4, 5, 4, 6]
CAGGATCAAAGTTGACTAGCGAGTAAGAGATATGTGGGAGGATCATTA	[17, 7, 17, 8, 17, 5, 17, 6, 16, 5, 16, 6]
GTCGTAATGTGCTGTGCAGCACAAACCCTCGCGGGTGATCGGCCGTTA	[29, 7, 29, 8, 29, 5, 29, 6, 28, 5, 28, 6]
TGACTAGGTTTAGTTTTCCACACAAGCAAAGATCCTTGGCATAGTTAG	[41, 7, 41, 8, 41, 5, 41, 6, 40, 5, 40, 6]
TGCTTGCTCCTTGCTCTTCGTCCGGTGCTCTACATTTGGGGCAGTGGA	[53, 7, 53, 8, 53, 5, 53, 6, 52, 5, 52, 6]
GGCTTGCATCCACTGCAGTGCCCTTATGCCTATAGGAATGAACTGCAC	[52, 6, 52, 7, 55, 6, 55, 7, 55, 8, 55, 9]
CACGCAAACTTACCTAAGCTCCTTTTCACACAAGTGCGACTTTCACTG	[50, 6, 50, 7, 57, 6, 57, 7, 57, 8, 57, 9]
TACCCTACAATGCCCATTTGTAAACGGTTTCTTTTGAAGATGTCAGGG	[48, 6, 48, 7, 59, 6, 59, 7, 59, 8, 59, 9]
TTGCACTCCTGGGGAAACTATACTTACGCACTTCGTCAAGCCTGCTTT	[7, 7, 7, 8, 6, 7, 6, 8, 6, 9, 6, 10]
CTTCTACCTCTTAATGTATAATTCATCCTGTGACAATGGTATCTTTTG	[19, 7, 19, 8, 18, 7, 18, 8, 18, 9, 18, 10]
TAGACTCAGCGTGAGGTATGGGCCTCATCCCCAGGCGTCTCAGGAAGT	[31, 7, 31, 8, 30, 7, 30, 8, 30, 9, 30, 10]
GCGCAGTTTCCTTGATAGGATAAGGCAGTGACCTTACACTTTCGGGAG	[43, 7, 43, 8, 42, 7, 42, 8, 42, 9, 42, 10]
CATTCCTATAGGCATAGTGCGCTAAAGGTATTGTTGTGTCTATGAGGC	[55, 7, 55, 8, 54, 7, 54, 8, 54, 9, 54, 10]
AAAGCTTCCGCGAGCACCCCAAGTGCTACATG	[12, 8, 12, 9, 11, 8, 11, 9]
ACCAGTTCGTCCTCACGGAATGCAACACCGGC	[14, 8, 14, 9, 9, 8, 9, 9]
ATTCGGATGCTGCCATGAGTGCAACTAATCCC	[16, 8, 16, 9, 7, 8, 7, 9]
ACCATTGTCACAGGATTGATCCTGGCAAATTA	[18, 8, 18, 9, 17, 8, 17, 9]
GCCGATGGCGAAGGTCTACGAGCTAGACCTGT	[20, 8, 20, 9, 15, 8, 15, 9]
TGGTCGGTGGCAGCAGGCCTGGCCCTACTTCA	[22, 8, 22, 9, 13, 8, 13, 9]
GCGACGCTTTAGGGTCCACTCCAAGTGAACCC	[24, 8, 24, 9, 23, 8, 23, 9]
GCGGATGCGGAGTGTTTAACAGCAGGTCGGCC	[26, 8, 26, 9, 21, 8, 21, 9]
TTGTTGCGCCCGTTCCGGTAGAAGGAACTCTG	[28, 8, 28, 9, 19, 8, 19, 9]
AGACGCCTGGGGATGAATTACGACAAGGAGAT	[30, 8, 30, 9, 29, 8, 29, 9]
CTGCGTCATGAACGGTGAAGAGGTCAAGGACG	[32, 8, 32, 9, 27, 8, 27, 9]
ATGGATTGAGGCGGAAGCTCATTCGCCTACCT	[34, 8, 34, 9, 25, 8, 25, 9]
AAGCCACTGCATGCCGGATCTTTCGGACCGAG	[36, 8, 36, 9, 35, 8, 35, 9]
AGGGCCAATTATTTACACCCTGGCCGAGTGGA	[38, 8, 38, 9, 33, 8, 33, 9]
ATGCATAAGCTGAGAGTGAGTCTACCTGTGGG	[40, 8, 40, 9, 31, 8, 31, 9]
AGTGTAAGGTCACTGCCCTAGTCAGTTAACAT	[42, 8, 42, 9, 41, 8, 41, 9]
ATGGTTATACGGGTACTTATGTCGGGCCTCAG	[44, 8, 44, 9, 39, 8, 39, 9]
TCGAGTCTAGCTACCGTACAGGTGCCTTTCAC	[46, 8, 46, 9, 37, 8, 37, 9]
CATATTTTCCCAGCGGCACAACCCCCTCTACG	[48, 8, 48, 9, 47, 8, 47, 9]
GATTCTAATGGTTAGGAAGTGTGAGGGTGGTC	[50, 8, 50, 9, 45, 8, 45, 9]
GATGAAGGCAGGTGAGAACTGCGCAGTACCCA	[52, 8, 52, 9, 43, 8, 43, 9]
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CTTGACGAAGTGCGTATGACGATCTTACTTCGAGATTGTAGCTGTGAC	[6, 8, 6, 9, 5, 8, 5, 9, 5, 10, 5, 11]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTG	[3, 9, 3, 10, 2, 9, 2, 10]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[7, 9, 7, 10, 8, 9, 8, 10]
TTAAGACGGCCGGTGTAACCACATAAAGTCGT	[9, 9, 9, 10, 10, 9, 10, 10]
GCTTCGGTACAGGTCTGAACTGGTAGATCACC	[15, 9, 15, 10, 14, 9, 14, 10]
CATGGAAGCAGAGTTCCCATCGGCAAAATTGA	[19, 9, 19, 10, 20, 9, 20, 10]
TAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[21, 9, 21, 10, 22, 9, 22, 10]
AAGCATCGCGTCCTTGGCATCCGCTCGCATGG	[27, 9, 27, 10, 26, 9, 26, 10]
TGTTAAAACCCACAGGTGACGCAGCATGTATG	[31, 9, 31, 10, 32, 9, 32, 10]
CGTAATGTTCCACTCGCAATCCATTACGGACA	[33, 9, 33, 10, 34, 9, 34, 10]
AACTGTGTCTGAGGCCTTGGCCCTCCTCGCCT	[39, 9, 39, 10, 38, 9, 38, 10]
TGTAATATTGGGTACTATAACCATCCTGGTGA	[43, 9, 43, 10, 44, 9, 44, 10]
CCCAGGAAGACCACCCAGACTCGACTAGCACG	[45, 9, 45, 10, 46, 9, 46, 10]
AACCGCGCCTAAGTCTTTAGAATCACCTTAGG	[51, 9, 51, 10, 50, 9, 50, 10]
TAATCGCCGTGCAGTTCCTGTAGTTGGGTGTT	[55, 9, 55, 10, 56, 9, 56, 10]
CTTGACAACAGTGAAATAGGACGGCTATAAAA	[57, 9, 57, 10, 58, 9, 58, 10]
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GCCCTTTGGGGTTCACTTGGAGTGATGAACAACCTGGGTCCTGCTGCC	[23, 9, 23, 10, 23, 7, 23, 8, 22, 7, 22, 8]
ATGCGGAGAGGTAGGCAGCGTCGCTTAAAGTGGAGTCCCCGAAGAATA	[25, 9, 25, 10, 24, 9, 24, 10, 24, 11, 24, 12]
AGCTCATTCTCGGTCCGAAAGATCATAACGTTGGGATTTGTTCCGCCT	[35, 9, 35, 10, 35, 7, 35, 8, 34, 7, 34, 8]
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AGGGTAGGCGTAGAGGGGGTTGTGGCGGGGGTTAACGCCGCGGTAGCT	[47, 9, 47, 10, 47, 7, 47, 8, 46, 7, 46, 8]
TGATCAGCCCTGCTAAAAAATATGCAGGGTTAGTTGCCCTCGACCGAT	[49, 9, 49, 10, 48, 9, 48, 10, 48, 11, 48, 12]
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CGTCGTCTACGACTTTACTTACGTGTAGTGTC	[10, 10, 10, 11, 13, 10, 13, 11]
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AGCAGGTCGGTGATCTCCACCTTATTACGAGT	[14, 10, 14, 11, 21, 10, 21, 11]
AGCCGAACCGTACCTTCTTCCATGTAATTATA	[16, 10, 16, 11, 19, 10, 19, 11]
AATGTTCTCAAAAGATCGATAGAAACAATTTC	[18, 10, 18, 11, 29, 10, 29, 11]
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ACATTACTTAGCGCCTCTCCGCATCATGTTGT	[22, 10, 22, 11, 25, 10, 25, 11]
GGGGACTCCACTTTAAAATGAGCTGGGACATG	[24, 10, 24, 11, 35, 10, 35, 11]
ACTGTAGTCCATGCGAACATTACGTACACTCG	[26, 10, 26, 11, 33, 10, 33, 11]
ATATTGTATTTGCATTTTTTAACATAGGTGCT	[28, 10, 28, 11, 31, 10, 31, 11]
CCGAAGTTACTTCCTGCTAACGCGCACCAGGT	[30, 10, 30, 11, 41, 10, 41, 11]
CGTGTCGACATACATGACACAGTTCGCGTGTA	[32, 10, 32, 11, 39, 10, 39, 11]
AGAGGTCGTGTCCGTAAACTGCCGACCAGTTT	[34, 10, 34, 11, 37, 10, 37, 11]
GTCAGGAGCACCTAGGCCTACCCTCCAGCGTA	[36, 10, 36, 11, 47, 10, 47, 11]
TATACCAAAGGCGAGGTTCCTGGGCGCAAGCT	[38, 10, 38, 11, 45, 10, 45, 11]
TTTAAGTTGTACCGCAATATTACACCCTTCCC	[40, 10, 40, 11, 43, 10, 43, 11]
CCTACGCCCTCCCGAATAGGTATGTGCATATT	[42, 10, 42, 11, 53, 10, 53, 11]
CTAGCTAGTCACCAGGGCGCGGTTGATGTGCC	[44, 10, 44, 11, 51, 10, 51, 11]
GTCCTACACGTGCTAGGCTGATCAAGATGTAG	[46, 10, 46, 11, 49, 10, 49, 11]
ATATTTAAGCCTCATAGACACAACAATACCTTAGCAAGCACGCCAGGG	[54, 10, 54, 11, 54, 8, 54, 9, 53, 8, 53, 9]
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ACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[3, 11, 3, 12, 4, 11, 4, 12]
CCGCCTCCGGTAGTCAACGCGGAACGTAATGG	[9, 11, 9, 12, 8, 11, 8, 12]
ATAGCATCGACACTACGACCTGCTTTTCGACA	[13, 11, 13, 12, 14, 11, 14, 12]
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TTAAGATGTGTGGCAATACAATATAGTTATAT	[27, 11, 27, 12, 28, 11, 28, 12]
GTATCATCCGAGTGTATCGACACGGTGATAGA	[33, 11, 33, 12, 32, 11, 32, 12]
AACGTGGGAAACTGGTTTGGTATATCCTGATA	[37, 11, 37, 12, 38, 11, 38, 12]
TCGGACGTTACACGCGAACTTAAAGATCGACG	[39, 11, 39, 12, 40, 11, 40, 12]
GAGTTTCGAGCTTGCGCTAGCTAGGTTTTACG	[45, 11, 45, 12, 44, 11, 44, 12]
TGACCCTACTACATCTCCTTCGCGCCCGACAA	[49, 11, 49, 12, 50, 11, 50, 12]
TTTTCGCAGGCACATCGAGCCTACCCGTCTAT	[51, 11, 51, 12, 52, 11, 52, 12]
ACTCAACCGAGCTAGTGCTAATATCCTCTAAG	[57, 11, 57, 12, 56, 11, 56, 12]
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CAATTACTATTTGTACTAGCAGAATAATTTGCATCCGAATAAGGTACG	[17, 11, 17, 12, 17, 9, 17, 10, 16, 9, 16, 10]
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CACGACGATGTCGAAAGGAGGCGGGGGTATAG	[14, 12, 14, 13, 9, 12, 9, 13]
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GTGCGCTTCGAACCCGAGTAATTGTATGCCCT	[18, 12, 18, 13, 17, 12, 17, 13]
CCTAGGCGCGCATTCAACACTAATCCGGGTAT	[20, 12, 20, 13, 15, 12, 15, 13]
GGTATTTTGGCACTAGGATGCTATTCCAGAAT	[22, 12, 22, 13, 13, 12, 13, 13]
CGGCGCCGTATTCTTCGCGCGGGCTGACTCTT	[24, 12, 24, 13, 23, 12, 23, 13]
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CGCCGTGTATATAACTGCGGTAACATCACATA	[28, 12, 28, 13, 19, 12, 19, 13]
CACAAAACAATGCGCCAACATGGTGCCTCGTG	[30, 12, 30, 13, 29, 12, 29, 13]
CTAATGTGTCTATCACCATCTTAACGACCGTT	[32, 12, 32, 13, 27, 12, 27, 13]
CTTGGCTTTGGGATCTCTTGGACATTGCGCTT	[34, 12, 34, 13, 25, 12, 25, 13]
CAGCCTTCTGTAAAGGCTCGAATTTGTTAGCT	[36, 12, 36, 13, 35, 12, 35, 13]
TACTCCTGTATCAGGAGATGATACTTAATGGG	[38, 12, 38, 13, 33, 12, 33, 13]
AGTTGGTCCGTCGATCGATGAGTACCCTATAG	[40, 12, 40, 13, 31, 12, 31, 13]
ATTACTTTGTGCGGCCTATCGGTTGTCGTTAC	[42, 12, 42, 13, 41, 12, 41, 13]
AAGCCTGTCGTAAAACACGTCCGAACGAATAC	[44, 12, 44, 13, 39, 12, 39, 13]
GTGATCCTAACGTCTACCCACGTTGACGCCCC	[46, 12, 46, 13, 37, 12, 37, 13]
CAGGCAGCATCGGTCGGGCTGGTTATCTCATT	[48, 12, 48, 13, 47, 12, 47, 13]
TGGTCGCATTGTCGGGCGAAACTCACCTCTCT	[50, 12, 50, 13, 45, 12, 45, 13]
GCTTAACTATAGACGGATCCCGTTCACAGCGC	[52, 12, 52, 13, 43, 12, 43, 13]
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CATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[7, 13, 7, 14, 8, 13, 8, 14]
CAGAAAGTCTATACCCGACAAAAACAGATTTG	[9, 13, 9, 14, 10, 13, 10, 14]
GACTCGGGATACCCGGTCGTCGTGTAATGCTG	[15, 13, 15, 14, 14, 13, 14, 14]
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CCTCATGTAACGGTCGTATCCGCCTATCTCGC	[27, 13, 27, 14, 26, 13, 26, 14]
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GTAGCAAAAGAGAGGTAGGATCACAGGGTTCA	[45, 13, 45, 14, 46, 13, 46, 14]
CGGACACACGGCTTGCTGCGACCAAGTTTTAT	[51, 13, 51, 14, 50, 13, 50, 14]
ATTAACGACGCACGGGTCGAACCTGCTGTACG	[55, 13, 55, 14, 56, 13, 56, 14]
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GTATGTGAAAGAGTCAGCCCGCGCATAACCTAAGTAATGTCTAGTGCC	[23, 13, 23, 14, 23, 11, 23, 12, 22, 11, 22, 12]
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GAATATCCTGATCAATCCTAACATAGGCGAGT	[24, 14, 24, 15, 35, 14, 35, 15]
TAACAAGGGCGAGATATGCGAGGATAGATAAG	[26, 14, 26, 15, 33, 14, 33, 15]
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CTCCTAGCTTGTCGAGTCGCTTTACAGAATTA	[30, 14, 30, 15, 41, 14, 41, 15]
TAGCACTAGCAACACTAATCTCGTCCAACAGG	[32, 14, 32, 15, 39, 14, 39, 15]
ACGGAAACAGTGACCGTGCTCGCGGGGATTTC	[34, 14, 34, 15, 37, 14, 37, 15]
TTTCGGAGCACAAAGAAAGGTATATGATTCAA	[36, 14, 36, 15, 47, 14, 47, 15]
TCGGTGACGGTCGGGTTTTGCTACGATATGGC	[38, 14, 38, 15, 45, 14, 45, 15]
CCGAAAATTTTCATAGGTGGTCCAATTCATGG	[40, 14, 40, 15, 43, 14, 43, 15]
CGCTGTAACAACCCATTTGGGGCGTTTGTGTA	[42, 14, 42, 15, 53, 14, 53, 15]
TAGACATTCGGCGACGTGTGTCCGAGATGGCA	[44, 14, 44, 15, 51, 14, 51, 15]
TAACACCATGAACCCTTTTCAAAGTGGGACCC	[46, 14, 46, 15, 49, 14, 49, 15]
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TACCGGGGTGAACAGCACGTGCGGCTTCTCCT	[9, 15, 9, 16, 8, 15, 8, 16]
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End sequence	Voxels
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TGGGTATTGAAATCCCGTCACCGAGGTTTTCT	[37, 15, 37, 16, 38, 15, 38, 16]
CTCCCTGTCCTGTTGGATTTTCGGATTTTGTT	[39, 15, 39, 16, 40, 15, 40, 16]
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TCGTCATAGGGTCCCAAGAACGGCCGTCTCAC	[49, 15, 49, 16, 50, 15, 50, 16]
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TATTAAGTTTTCGCCGTGAGCGATCAATGACC	[19, 3, 19, 4, 18, 3, 18, 4]
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AACCCTCCTACGTTTTGTAATGCGAAACCAGG	[35, 3, 35, 4, 34, 3, 34, 4]
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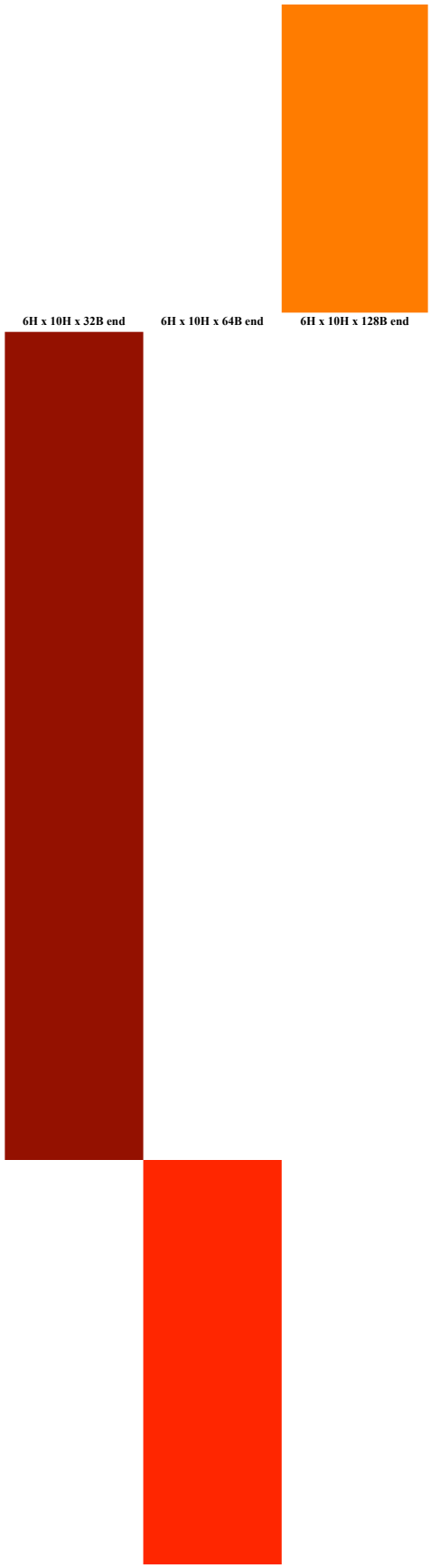
TTTTTTTTATCCCTGACATAGGTATTTTTTTT	[6, 4, 0, 0, 5, 4, 0, 0]
TTTTTTTTGCTGTATTCCAGCCGCTTTTTTTT	[8, 4, 0, 0, 3, 4, 0, 0]
TTTTTTTTATGCCAGCGACATGAATTTTTTTT	[10, 4, 0, 0, 1, 4, 0, 0]
TTTTTTTTCATCGCCGGTAAACGATTTTTTTT	[12, 4, 0, 0, 11, 4, 0, 0]
TTTTTTTTTCGCGTCGTCATACGATTTTTTTT	[14, 4, 0, 0, 9, 4, 0, 0]
TTTTTTTTGTGGAAATTAATTAGTTTTTTTTT	[16, 4, 0, 0, 7, 4, 0, 0]
TTTTTTTTGGTCATTGACCAATCATTTTTTTT	[18, 4, 0, 0, 17, 4, 0, 0]
TTTTTTTTGGGCACGATGCGGCGCTTTTTTTT	[20, 4, 0, 0, 15, 4, 0, 0]
TTTTTTTTTGGGGACTAAGCGCGTTTTTTTT	[22, 4, 0, 0, 13, 4, 0, 0]
TTTTTTTTAGGCCTCGTATCGTCCTTTTTTTT	[24, 4, 0, 0, 23, 4, 0, 0]
TTTTTTTTTCAATTTCTTACGCCCTTTTTTTT	[26, 4, 0, 0, 21, 4, 0, 0]
TTTTTTTTAAAACGACACTTAATATTTTTTTT	[28, 4, 0, 0, 19, 4, 0, 0]
TTTTTTTTTGAGCCAAATCCCCTCTTTTTTTT	[30, 4, 0, 0, 29, 4, 0, 0]
TTTTTTTTTATTAATGCGTGACGGTTTTTTTT	[32, 4, 0, 0, 27, 4, 0, 0]
TTTTTTTTCCTGGTTTACACAGTGTTTTTTTT	[34, 4, 0, 0, 25, 4, 0, 0]
TTTTTTTTATCTGCTTGGAGGGTTTTTTTTT	[36, 4, 0, 0, 35, 4, 0, 0]
TTTTTTTTTCGGTCACGACCCACGTTTTTTTT	[38, 4, 0, 0, 33, 4, 0, 0]
TTTTTTTTTTCGCCCTGTTACGACTTTTTTTT	[40, 4, 0, 0, 31, 4, 0, 0]
TTTTTTTTACAAACCCTTGGAATGTTTTTTTT	[42, 4, 0, 0, 41, 4, 0, 0]
TTTTTTTTCCCGCTGATAGTGACGTTTTTTTT	[44, 4, 0, 0, 39, 4, 0, 0]
TTTTTTTTCTCTATATTGGACAAATTTTTTTT	[46, 4, 0, 0, 37, 4, 0, 0]
TTTTTTTTATCATCTCGACGCTTATTTTTTTT	[48, 4, 0, 0, 47, 4, 0, 0]
TTTTTTTTCTCATTTGAAACATACTTTTTTTT	[50, 4, 0, 0, 45, 4, 0, 0]
TTTTTTTTCAGACCGGCGTTGCACTTTTTTTT	[52, 4, 0, 0, 43, 4, 0, 0]
TTTTTTTTTTGGTTACAAGGACATTTTTTTT	[54, 4, 0, 0, 53, 4, 0, 0]
TTTTTTTTCAGTAAGTGCACGTATTTTTTTTT	[56, 4, 0, 0, 51, 4, 0, 0]
TTTTTTTTATTTCTACCAAGTGCCTTTTTTTT	[58, 4, 0, 0, 49, 4, 0, 0]
TTTTTTTTGAGCCACTTAACCTGGTACTCGATTGGATATCTCCGTGCA	[0, 4, 0, 0, 0, 2, 0, 3, 11, 2, 11, 3]
TTTTTTTTAAGTGTGTCACCGTTCTTATGCTAAGCTCTGTTCCTATGA	[2, 4, 0, 0, 2, 2, 2, 3, 9, 2, 9, 3]
TTTTTTTTTCAGTCGTCGCACGGCGCGTATCCGTGGGTAAGTTATGGA	[4, 4, 0, 0, 4, 2, 4, 3, 7, 2, 7, 3]
GGCTTGCATCCACTGCAGTGCCCTTATGCCTATAGGAATGTTTTTTTT	[52, 6, 52, 7, 55, 6, 55, 7, 55, 8, 0, 0]
CACGCAAACTTACCTAAGCTCCTTTTCACACAAGTGCGACTTTTTTTT	[50, 6, 50, 7, 57, 6, 57, 7, 57, 8, 0, 0]
TACCCTACAATGCCCATTTGTAAACGGTTTCTTTTGAAGATTTTTTTT	[48, 6, 48, 7, 59, 6, 59, 7, 59, 8, 0, 0]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[7, 7, 7, 8, 6, 7, 6, 8]
ACTTGGGGACTAAGATCGTTGCGAATTTTCGC	[11, 7, 11, 8, 10, 7, 10, 8]
CTTCTACCTCTTAATGTATAATTCATCCTGTG	[19, 7, 19, 8, 18, 7, 18, 8]
TTGGAGTGATGAACAACCTGGGTCCTGCTGCC	[23, 7, 23, 8, 22, 7, 22, 8]
TAGACTCAGCGTGAGGTATGGGCCTCATCCCC	[31, 7, 31, 8, 30, 7, 30, 8]
GAAAGATCATAACGTTGGGATTTGTTCCGCCT	[35, 7, 35, 8, 34, 7, 34, 8]
GCGCAGTTTCCTTGATAGGATAAGGCAGTGAC	[43, 7, 43, 8, 42, 7, 42, 8]
GGGTTGTGGCGGGGGTTAACGCCGCGGTAGCT	[47, 7, 47, 8, 46, 7, 46, 8]
CATTCCTATAGGCATAGTGCGCTAAAGGTATT	[55, 7, 55, 8, 54, 7, 54, 8]
TCTTCAAAAGAAACCGCGGAATGACGGAGCCT	[59, 7, 59, 8, 58, 7, 58, 8]
TTTTTTTTAGTGCGTATGACGATCTTTTTTTT	[6, 8, 0, 0, 5, 8, 0, 0]
TTTTTTTTTAAGCCACGCGGGCCGTTTTTTTT	[8, 8, 0, 0, 3, 8, 0, 0]
TTTTTTTTGCGAAAATGCACCGAATTTTTTTT	[10, 8, 0, 0, 1, 8, 0, 0]
TTTTTTTTCGCGAGCACCCCAAGTTTTTTTTT	[12, 8, 0, 0, 11, 8, 0, 0]
TTTTTTTTGTCCTCACGGAATGCATTTTTTTT	[14, 8, 0, 0, 9, 8, 0, 0]
TTTTTTTTGCTGCCATGAGTGCAATTTTTTTT	[16, 8, 0, 0, 7, 8, 0, 0]
TTTTTTTTCACAGGATTGATCCTGTTTTTTTT	[18, 8, 0, 0, 17, 8, 0, 0]
TTTTTTTTCGAAGGTCTACGAGCTTTTTTTTT	[20, 8, 0, 0, 15, 8, 0, 0]



TTTTTTTTGGCAGCAGGCCTGGCCTTTTTTTT	[22, 8, 0, 0, 13, 8, 0, 0]
TTTTTTTTTTAGGGTCCACTCCAATTTTTTTT	[24, 8, 0, 0, 23, 8, 0, 0]
TTTTTTTTGGAGTGTTTAACAGCATTTTTTTT	[26, 8, 0, 0, 21, 8, 0, 0]
TTTTTTTTCCCGTTCCGGTAGAAGTTTTTTTT	[28, 8, 0, 0, 19, 8, 0, 0]
TTTTTTTTGGGGATGAATTACGACTTTTTTTT	[30, 8, 0, 0, 29, 8, 0, 0]
TTTTTTTTTGAACGGTGAAGAGGTTTTTTTTT	[32, 8, 0, 0, 27, 8, 0, 0]
TTTTTTTTAGGCGGAAGCTCATTCTTTTTTTT	[34, 8, 0, 0, 25, 8, 0, 0]
TTTTTTTTGCATGCCGGATCTTTCTTTTTTTT	[36, 8, 0, 0, 35, 8, 0, 0]
TTTTTTTTTTATTTACACCCTGGCTTTTTTTT	[38, 8, 0, 0, 33, 8, 0, 0]
TTTTTTTTGCTGAGAGTGAGTCTATTTTTTTT	[40, 8, 0, 0, 31, 8, 0, 0]
TTTTTTTTGTCACTGCCCTAGTCATTTTTTTT	[42, 8, 0, 0, 41, 8, 0, 0]
TTTTTTTTACGGGTACTTATGTCGTTTTTTTT	[44, 8, 0, 0, 39, 8, 0, 0]
TTTTTTTTAGCTACCGTACAGGTGTTTTTTTT	[46, 8, 0, 0, 37, 8, 0, 0]
TTTTTTTTCCCAGCGGCACAACCCTTTTTTTT	[48, 8, 0, 0, 47, 8, 0, 0]
TTTTTTTTTGGTTAGGAAGTGTGATTTTTTTT	[50, 8, 0, 0, 45, 8, 0, 0]
TTTTTTTTCAGGTGAGAACTGCGCTTTTTTTT	[52, 8, 0, 0, 43, 8, 0, 0]
TTTTTTTTAATACCTTAGCAAGCATTTTTTTT	[54, 8, 0, 0, 53, 8, 0, 0]
TTTTTTTTCGGTGCATACTACTTATTTTTTTT	[56, 8, 0, 0, 51, 8, 0, 0]
TTTTTTTTAGGCTCCGAGGTAGTCTTTTTTTT	[58, 8, 0, 0, 49, 8, 0, 0]
TTTTTTTTAACCGTGAGTATGATTGCGGCCATTCTTGCTTATCTTAGT	[0, 8, 0, 0, 0, 6, 0, 7, 11, 6, 11, 7]
TTTTTTTTTAAGCGTTACAGGCGGAGGATATGGGCGGTACCAAACATT	[2, 8, 0, 0, 2, 6, 2, 7, 9, 6, 9, 7]
TTTTTTTTGAAGCGTAATCGACTATTCATAACCGGTGAGATTCCCCAG	[4, 8, 0, 0, 4, 6, 4, 7, 7, 6, 7, 7]
TCCCAATCCCAAGCATTCGTTAATCTTCTCTGAATAGTTGTTTTTTTT	[52, 14, 52, 15, 55, 14, 55, 15, 55, 16, 0, 0]
GCCGTTCTATAAAACTGACAGAACAACCCCCTAACGAACGTTTTTTTT	[50, 14, 50, 15, 57, 14, 57, 15, 57, 16, 0, 0]
TCACCCTAGGGGACAATTCCGCGCCTGATCACCCGCTGAATTTTTTTT	[48, 14, 48, 15, 59, 14, 59, 15, 59, 16, 0, 0]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[7, 15, 7, 16, 6, 15, 6, 16]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[11, 15, 11, 16, 10, 15, 10, 16]
ATGACTCCAGGAGAGGGTGAGCTCCTACGTGG	[19, 15, 19, 16, 18, 15, 18, 16]
AGCGTAAAGTCTTGACGTATTCCATCCAGCTG	[23, 15, 23, 16, 22, 15, 22, 16]
ACATGATCGATGGGAAGCTAGGAGAGCTAGCT	[31, 15, 31, 16, 30, 15, 30, 16]
GACCCGACACTCGCCTGTTTCCGTGCGTTCTT	[35, 15, 35, 16, 34, 15, 34, 16]
AAATGTAGCCATGAATTTACAGCGACGCCTCG	[43, 15, 43, 16, 42, 15, 42, 16]
CCAGTGGTTTGAATCATGGTGTTAGTTTGTTA	[47, 15, 47, 16, 46, 15, 46, 16]
CAACTATTCAGAGAAGCAGTGAGTCTAGCCAA	[55, 15, 55, 16, 54, 15, 54, 16]
TTCAGCGGGTGATCAGATTATTGAATAATCCT	[59, 15, 59, 16, 58, 15, 58, 16]
TTTTTTTTGTCCCTCAGTTATTTCTTTTTTTT	[6, 16, 0, 0, 5, 16, 0, 0]
TTTTTTTTAGGAGAAGAACAGTCCTTTTTTTT	[8, 16, 0, 0, 3, 16, 0, 0]
TTTTTTTTGGTCTAAAGCATCAGATTTTTTTT	[10, 16, 0, 0, 1, 16, 0, 0]
TTTTTTTTGTCCGGTCTATTTGACTTTTTTTT	[12, 16, 0, 0, 11, 16, 0, 0]
TTTTTTTTGCTGAGGACCCCGGTATTTTTTTT	[14, 16, 0, 0, 9, 16, 0, 0]
TTTTTTTTCGGGAATTGTGCAGCTTTTTTTTT	[16, 16, 0, 0, 7, 16, 0, 0]
TTTTTTTTCCACGTAGTGGCTCGTTTTTTTT	[18, 16, 0, 0, 17, 16, 0, 0]
TTTTTTTTGATGCGTTCCCCGGAATTTTTTTT	[20, 16, 0, 0, 15, 16, 0, 0]
TTTTTTTTCAGCTGGAAGCACGTATTTTTTTT	[22, 16, 0, 0, 13, 16, 0, 0]
TTTTTTTTCCGGCGGATTTACGCTTTTTTTT	[24, 16, 0, 0, 23, 16, 0, 0]
TTTTTTTTTGCCATCGCGGACGGATTTTTTTT	[26, 16, 0, 0, 21, 16, 0, 0]
TTTTTTTTAGGGCTGCGGAGTCATTTTTTTT	[28, 16, 0, 0, 19, 16, 0, 0]
TTTTTTTTAGCTAGCTTAGATGCGTTTTTTTT	[30, 16, 0, 0, 29, 16, 0, 0]
TTTTTTTTGAAACTACAGAACTCTTTTTTTT	[32, 16, 0, 0, 27, 16, 0, 0]
TTTTTTTTAAGAACGCTTAACCATTTTTTTT	[34, 16, 0, 0, 25, 16, 0, 0]
TTTTTTTTCACTTCCAGTCGGGTCTTTTTTT	[36, 16, 0, 0, 35, 16, 0, 0]
TTTTTTTTAGAAAACCTACTGGGATTTTTTT	[38, 16, 0, 0, 33, 16, 0, 0]
TTTTTTTTAACAAAATGATCATGTTTTTTTT	[40, 16, 0, 0, 31, 16, 0, 0]
TTTTTTTTCGAGGCGTAGTGCGCCTTTTTTT	[42, 16, 0, 0, 41, 16, 0, 0]
TTTTTTTTCCGGATGCACAGGGAGTTTTTTT	[44, 16, 0, 0, 39, 16, 0, 0]
TTTTTTTTTAACAAACAATACCCATTTTTTT	[46, 16, 0, 0, 37, 16, 0, 0]
TTTTTTTTCTAATACGACCACTGGTTTTTTT	[48, 16, 0, 0, 47, 16, 0, 0]
TTTTTTTTGTGAGACGGGCATGGGTTTTTTT	[50, 16, 0, 0, 45, 16, 0, 0]
TTTTTTTTCTGGACTCCTACATTTTTTTTTT	[52, 16, 0, 0, 43, 16, 0, 0]
TTTTTTTTTTGGCTAGCGATTGGTTTTTTTT	[54, 16, 0, 0, 53, 16, 0, 0]
TTTTTTTTGTAGTGATTATGACAGTTTTTTT	[56, 16, 0, 0, 51, 16, 0, 0]
TTTTTTTTAGGATTATTATGACGATTTTTTT	[58, 16, 0, 0, 49, 16, 0, 0]
TTTTTTTTCCATCCCTAAGTAAACCAGTCTCTCGGCATGCAGCACGCA	[0, 16, 0, 0, 0, 14, 0, 15, 11, 14, 11, 15]
TTTTTTTTACAGCTAAGTGGCTGGTCGTTCGAACTTTCTGGCTGTTCA	[2, 16, 0, 0, 2, 14, 2, 15, 9, 14, 9, 15]
TTTTTTTTAACCTCGTCCAAGTCAACGCTTACTGCCCATGGTGACACG	[4, 16, 0, 0, 4, 14, 4, 15, 7, 14, 7, 15]

Table S11. Sequences of 8H × 12H × (32B, 64B, 120B). Each design is color coded and contains "core" and "end" sequences.

End sequence	Voxels	8H x 12H x 32B core	8H x 12H x 64B core	8H x 12H x 128B core
CACTGAGTTTTTTTTT	[0, 0, 0, 1, 0, 0, 0, 0]			
AGCTTGGGTTTTTTTT	[0, 0, 2, 1, 0, 0, 0, 0]			
GAACTTGATTTTTTTT	[0, 0, 4, 1, 0, 0, 0, 0]			
CACTTGAGTTTTTTTT	[0, 0, 6, 1, 0, 0, 0, 0]			
TTTTTTTTCCGTCTCA	[0, 0, 89, 1, 0, 0, 0, 0]			
TTTTTTTTGAAGGGCG	[0, 0, 91, 1, 0, 0, 0, 0]			
TTTTTTTTGGCCGCGC	[0, 0, 93, 1, 0, 0, 0, 0]			
TTTTTTTTCGGTTTTC	[0, 0, 95, 1, 0, 0, 0, 0]			
CAACATTTTTTTTTTTTTTTTTTTTGCCACC	[0, 0, 16, 1, 0, 0, 15, 1]			
CGACCATTTTTTTTTTTTTTTTTTTCACCGAA	[0, 0, 18, 1, 0, 0, 13, 1]			
TGGGAGAATTTTTTTTTTTTTTTTATGTACCG	[0, 0, 20, 1, 0, 0, 11, 1]			
TATCGTCCTTTTTTTTTTTTTTTTGGAAGTTC	[0, 0, 22, 1, 0, 0, 9, 1]			
GTGCCGTATTTTTTTTTTTTTTTTGCCCACCA	[0, 0, 24, 1, 0, 0, 23, 1]			
CTGGTCTCTTTTTTTTTTTTTTTTTATCAAAG	[0, 0, 26, 1, 0, 0, 21, 1]			
GCGCCAGATTTTTTTTTTTTTTTTAGCCATTT	[0, 0, 28, 1, 0, 0, 19, 1]			
CGATGCGGTTTTTTTTTTTTTTTTTGACGGAG	[0, 0, 30, 1, 0, 0, 17, 1]			
GGCAGGCATTTTTTTTTTTTTTTTTTCTTA	[0, 0, 32, 1, 0, 0, 31, 1]			
GGAGGGTTTTTTTTTTTTTTTTTTTGCGGGG	[0, 0, 34, 1, 0, 0, 29, 1]			
GAGGCAGCTTTTTTTTTTTTTTTAAAGTGAG	[0, 0, 36, 1, 0, 0, 27, 1]			
CGAGTTGATTTTTTTTTTTTTTTTGCGCCCAC	[0, 0, 38, 1, 0, 0, 25, 1]			
TCATTAAGTTTTTTTTTTTTTTTTTAGTGTTG	[0, 0, 40, 1, 0, 0, 39, 1]			
TCTATAACTTTTTTTTTTTTTTTTAGAAGATT	[0, 0, 42, 1, 0, 0, 37, 1]			
CCATATCATTTTTTTTTTTTTTTTCCATTTCA	[0, 0, 44, 1, 0, 0, 35, 1]			
CACGGCTTTTTTTTTTTTTTTTTACAAATTA	[0, 0, 46, 1, 0, 0, 33, 1]			
GTTCAACATTTTTTTTTTTTTTTTTATTCCTGA	[0, 0, 48, 1, 0, 0, 47, 1]			
CGTGGATCTTTTTTTTTTTTTTTTTAGAGACC	[0, 0, 50, 1, 0, 0, 45, 1]			
AGGCCCACTTTTTTTTTTTTTTTTGTAATCTC	[0, 0, 52, 1, 0, 0, 43, 1]			
GTCCAGGCTTTTTTTTTTTTTTTTAATCTTGG	[0, 0, 54, 1, 0, 0, 41, 1]			
TTGCAAATTTTTTTTTTTTTTTTTAGGTACCT	[0, 0, 56, 1, 0, 0, 55, 1]			
TTTATCCATTTTTTTTTTTTTTTCTACCGAT	[0, 0, 58, 1, 0, 0, 53, 1]			
AAATTGACTTTTTTTTTTTTTTTTACAGATGC	[0, 0, 60, 1, 0, 0, 51, 1]			
CTGATTGGTTTTTTTTTTTTTTTGTGGTGGG	[0, 0, 62, 1, 0, 0, 49, 1]			
GGCGCCGATTTTTTTTTTTTTTTTGACGTGGG	[0, 0, 64, 1, 0, 0, 63, 1]			
CCTAAGTCTTTTTTTTTTTTTTTTGCTGGGAA	[0, 0, 66, 1, 0, 0, 61, 1]			
TATTCAAGTTTTTTTTTTTTTTTTTGATCCG	[0, 0, 68, 1, 0, 0, 59, 1]			
AGCTGTACTTTTTTTTTTTTTTTTCCGGTGAG	[0, 0, 70, 1, 0, 0, 57, 1]			
CGCTGCTTTTTTTTTTTTTTTTTTCTTTAAGT	[0, 0, 72, 1, 0, 0, 71, 1]			
TGGTTACGTTTTTTTTTTTTTTTTGACTGACC	[0, 0, 74, 1, 0, 0, 69, 1]			
CACACTTTTTTTTTTTTTTTTTTTAATTTGGG	[0, 0, 76, 1, 0, 0, 67, 1]			
GTTGGAAATTTTTTTTTTTTTTTTCTAACGTC	[0, 0, 78, 1, 0, 0, 65, 1]			
GACACCGGTTTTTTTTTTTTTTTTTGACCGAGC	[0, 0, 80, 1, 0, 0, 79, 1]			
TATAAAAGTTTTTTTTTTTTTTTTTGAGGCATG	[0, 0, 82, 1, 0, 0, 77, 1]			
TTGTGGTTTTTTTTTTTTTTTTTTAGTTAGGG	[0, 0, 84, 1, 0, 0, 75, 1]			
CGCGTGGGTTTTTTTTTTTTTTTTTGCCTCCT	[0, 0, 86, 1, 0, 0, 73, 1]			
CGGGGAGGTTTTTTTTTTTTTTTTTGAGATGCGGATACTTTGAAAAGGC	[0, 0, 14, 1, 0, 0, 1, 1, 1, 2, 1, 3]			
GTAAACGATTTTTTTTTTTTTTTTTCTGACAGACATCTTTTGGGGTCGT	[0, 0, 12, 1, 0, 0, 3, 1, 3, 2, 3, 3]			
CGACCATGTTTTTTTTTTTTTTTTCTGCTCTAAGCTGTTCTCCCCGTC	[0, 0, 10, 1, 0, 0, 5, 1, 5, 2, 5, 3]			
GGTACACCTTTTTTTTTTTTTTTTTACAACATAGTGGGTAAGTTATGGA	[0, 0, 8, 1, 0, 0, 7, 1, 7, 2, 7, 3]			
GGTGTACCTGTGGGTA	[8, 1, 8, 2, 0, 0, 0, 0]			
ATACGACAGGTGGCAA	[15, 1, 15, 2, 0, 0, 0, 0]			
TACGGCACCGAGGCCT	[24, 1, 24, 2, 0, 0, 0, 0]			
TCCAGAGCTAAGAAAA	[31, 1, 31, 2, 0, 0, 0, 0]			
CTTAATGACCCGCTTG	[40, 1, 40, 2, 0, 0, 0, 0]			
GGCAAGAGTCAGGAAT	[47, 1, 47, 2, 0, 0, 0, 0]			
ATTTGCAAACCAACGA	[56, 1, 56, 2, 0, 0, 0, 0]			
AAGCATGGCCCACGTC	[63, 1, 63, 2, 0, 0, 0, 0]			
AAGCAGCGCGCCTGTA	[72, 1, 72, 2, 0, 0, 0, 0]			
GTTGGGACGCTCGGTC	[79, 1, 79, 2, 0, 0, 0, 0]			
CGGCAGGAGATAAGAA	[88, 1, 88, 2, 0, 0, 0, 0]			
TCTATGCCGAAAACCG	[95, 1, 95, 2, 0, 0, 0, 0]			
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[3, 1, 3, 2, 2, 1, 2, 2]			
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[5, 1, 5, 2, 4, 1, 4, 2]			
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[9, 1, 9, 2, 10, 1, 10, 2]			
GATATCCACGGTACATTCGTTTACTGCACGGA	[11, 1, 11, 2, 12, 1, 12, 2]			
TTCAAGTATTCGGTGACCTCCCCGCATTACAA	[13, 1, 13, 2, 14, 1, 14, 2]			
GCGGAGAGAAATGGCTAATGGTCGACAATATG	[19, 1, 19, 2, 18, 1, 18, 2]			
CTCATGATCTTTGATATTCTCCCAAATGGATA	[21, 1, 21, 2, 20, 1, 20, 2]			
ACTGCTGGGTGGGCGCGAGACCAGGCGTCCGG	[25, 1, 25, 2, 26, 1, 26, 2]			
TGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[27, 1, 27, 2, 28, 1, 28, 2]			
TTCCGTGGCCCCGCAACCGCATCGCTGAGGGG	[29, 1, 29, 2, 30, 1, 30, 2]			
GCGTATGCTGAAATGGAACCCTCCTACGTTTT	[35, 1, 35, 2, 34, 1, 34, 2]			
AGCTTCGCAATCTTCTGCTGCCTCTAGGGGGG	[37, 1, 37, 2, 36, 1, 36, 2]			
CGGTGAAACCAAGATTGTTATAGAAGAATACA	[41, 1, 41, 2, 42, 1, 42, 2]			
GATCCTGAGAGATTACTGATATGGTCCAAAAT	[43, 1, 43, 2, 44, 1, 44, 2]			
TTCATACTGGTCTCTAAAGCCGTGAGAGGACC	[45, 1, 45, 2, 46, 1, 46, 2]			
CGTCCAGCGCATCTGTGATCCACGTCAGATTT	[51, 1, 51, 2, 50, 1, 50, 2]			

CACAGTCAATCGGTAGGTGGGCCTTGAGGTTA	[53, 1, 53, 2, 52, 1, 52, 2]
AACGAATTCTCACCGGTGGATAAAAACTTCTA	[57, 1, 57, 2, 58, 1, 58, 2]
TAGCCCTACGGATCAAGTCAATTTCTTTACGT	[59, 1, 59, 2, 60, 1, 60, 2]
AACCAAAGTTCCCAGCCCAATCAGGTCATCAT	[61, 1, 61, 2, 62, 1, 62, 2]
GAACTAACCCCAAATTGACTTAGGCCGGATGG	[67, 1, 67, 2, 66, 1, 66, 2]
CTGTCCGTGGTCAGTCCTTGAATATGCATCAA	[69, 1, 69, 2, 68, 1, 68, 2]
GTCTGAACAGGAGGCACGTAACCATCCCTCGC	[73, 1, 73, 2, 74, 1, 74, 2]
AGTCATCCCCCTAACTAAAGTGTGTGAGTTCG	[75, 1, 75, 2, 76, 1, 76, 2]
TATACTGCCATGCCTCTTTCCAACACCGGCAC	[77, 1, 77, 2, 78, 1, 78, 2]
GGAGCGCTCTTTCGACCTTTTATACAGGGTGC	[83, 1, 83, 2, 82, 1, 82, 2]
ATGACTTTTGACCGATAACCACAACCATAGTC	[85, 1, 85, 2, 84, 1, 84, 2]
ACACCTAGTGAGACGGCACGTATCAATAAAAG	[89, 1, 89, 2, 90, 1, 90, 2]
ACTGGTTGCGCCCTTCAGTTTGCACCGGGGCG	[91, 1, 91, 2, 92, 1, 92, 2]
ATCGATGAGCGCGGCCGATCAGCTCTGTCTGT	[93, 1, 93, 2, 94, 1, 94, 2]
AAAGTATCCGCATCTCACTCAGTGATCGAGTACCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]
TCAGGCTTCTCCGTCAAAATGTTGGCTGAGATATATCAGAGAGCACAG	[17, 1, 17, 2, 16, 1, 16, 2, 16, 3, 16, 4]
CGGCGATTTAATTTGTTGCCTGCCGGTGTGAGCCCATGCAGAAAGATA	[33, 1, 33, 2, 32, 1, 32, 2, 32, 3, 32, 4]
TCAGAGTTCCCACCACTGTTGAACGTTGCTAAAGAGTCTGGAGATGAT	[49, 1, 49, 2, 48, 1, 48, 2, 48, 3, 48, 4]
TGCCTCATGACGTTAGTCGGCGCCTGGCATTGGGCCCGAGTCTATTGG	[65, 1, 65, 2, 64, 1, 64, 2, 64, 3, 64, 4]
ACTTACGCAGAGTTAACCGGTGTCATCTCGCCGATCTCATGGGTATTT	[81, 1, 81, 2, 80, 1, 80, 2, 80, 3, 80, 4]
TAGTTTGATACCCACATTACACATTTGGGGAC	[8, 2, 8, 3, 23, 2, 23, 3]
TCTTGCTTCAGTAGAAATCATGAGTTTTTTGT	[10, 2, 10, 3, 21, 2, 21, 3]
TACATACGTCCGTGCACTCTCCGCCGGCGAAA	[12, 2, 12, 3, 19, 2, 19, 3]
TGCGGCGCTTGTAATGAAGCCTGATACACTAA	[14, 2, 14, 3, 17, 2, 17, 3]
TCTGATATATCTCAGCGCTCTGGACTCTGATA	[16, 2, 16, 3, 31, 2, 31, 3]
ACTCGCTACATATTGTCCACGGAAGGTATGCT	[18, 2, 18, 3, 29, 2, 29, 3]
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CAATCAGGGGTCCTCTAACTCTGAGCGAAGTT	[46, 2, 46, 3, 49, 2, 49, 3]
CAGACTCTTTAGCAACCCATGCTTATAGAGGT	[48, 2, 48, 3, 63, 2, 63, 3]
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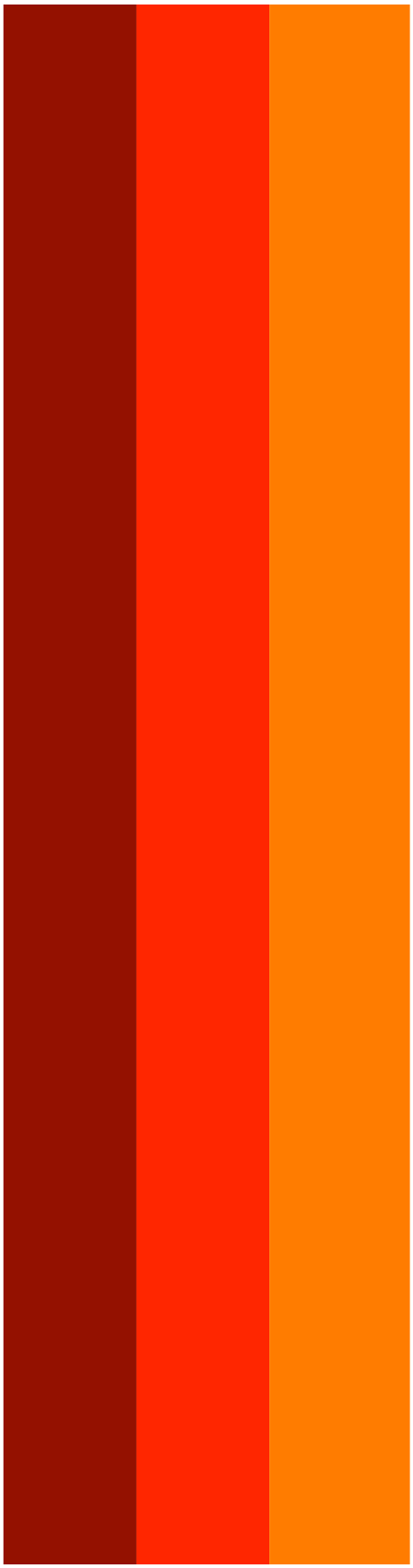

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GCAGGGTGTATCTCTTTAAGCGCGCACCCGTT	[18, 4, 18, 5, 13, 4, 13, 5]
TAGGTGGTGGTCATTGACTCTCGTATCTTAGT	[20, 4, 20, 5, 11, 4, 11, 5]
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CGTCCTGTGCGAGGGTACTTAATATTCAGGCT	[28, 4, 28, 5, 19, 4, 19, 5]
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TGAAAGAACTCTATATGACCCACGTTAATCCT	[46, 4, 46, 5, 33, 4, 33, 5]
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GGGTTCCGAAAGTATGTTCCGATTTTCCCTTT	[76, 4, 76, 5, 67, 4, 67, 5]
TACCGCAGAACCGTCCCGGCCTACTTGTATTC	[78, 4, 78, 5, 65, 4, 65, 5]
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GCGATTCGCATGTAGCCGAACGAGATCGTCCT	[11, 7, 11, 8, 10, 7, 10, 8]
GGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[13, 7, 13, 8, 12, 7, 12, 8]
TAGCAGAATAATTTGCATCCGAATAAGGTACG	[17, 7, 17, 8, 18, 7, 18, 8]
CTTCTACCTCTTAATGTATAATTCATCCTGTG	[19, 7, 19, 8, 20, 7, 20, 8]
TGCTGTTAACATAGATCGTCGGGCGACCTTCG	[21, 7, 21, 8, 22, 7, 22, 8]
ACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[27, 7, 27, 8, 26, 7, 26, 8]
TTCTATCGATCTCCTTCGCAACAAAATGCAAA	[29, 7, 29, 8, 28, 7, 28, 8]
GCCAGGGTTATCCGGTCGACATCGACCGTTCA	[33, 7, 33, 8, 34, 7, 34, 8]

AGCTCATTCTCGGTCCAATTCGAGCATGTCCC	[35, 7, 35, 8, 36, 7, 36, 8]
CACCTGTATACTGGAATGTTAAGCGTAAATAA	[37, 7, 37, 8, 38, 7, 38, 8]
GCGCAGTTTCCTTGATAGGATAAGGCAGTGAC	[43, 7, 43, 8, 42, 7, 42, 8]
TCACACTTCCTACATGAAATAAAGGTACCCGT	[45, 7, 45, 8, 44, 7, 44, 8]
GACTACCTACATCAGGTTTGCGTGCCTAACCA	[49, 7, 49, 8, 50, 7, 50, 8]
TAAGTAGTCGTGTGGCTGCAAGCCCTCACCTG	[51, 7, 51, 8, 52, 7, 52, 8]
CATACCTACCCTGGCGCCTTCATCACGGACTT	[53, 7, 53, 8, 54, 7, 54, 8]
TCCGCCACCCCTGACATAGCCGCCTTGGGGGA	[59, 7, 59, 8, 58, 7, 58, 8]
ACCATACAGCCCTAGCAACAACCTCAGCAATA	[61, 7, 61, 8, 60, 7, 60, 8]
CCACCGGGCAGGATAGAAGGAGTACAGAGTAC	[65, 7, 65, 8, 66, 7, 66, 8]
CAACCAGGGCCTGCAAAAGAACAGTTCCGTGC	[67, 7, 67, 8, 68, 7, 68, 8]
TTCGGCTCTCAGCACTCAGTGGTACTTGAGCA	[69, 7, 69, 8, 70, 7, 70, 8]
TGAGCGCGTGTCGGCGCTCCGAGGCAACAACA	[75, 7, 75, 8, 74, 7, 74, 8]
ACCGCGTGATTTTCCGCAAGTGATAGACGAGA	[77, 7, 77, 8, 76, 7, 76, 8]
CAAGGCGGACTAGCGGGTTCACTAGAACGACC	[81, 7, 81, 8, 82, 7, 82, 8]
TGGAACATCCTCTACTTGTCCGCATCATAGGA	[83, 7, 83, 8, 84, 7, 84, 8]
CGGGAGGCTGCAGTATCCTTATCCTGTTTCAG	[85, 7, 85, 8, 86, 7, 86, 8]
GTTTATACGTCTAGCTTTCCATTTTATGCAGG	[91, 7, 91, 8, 90, 7, 90, 8]
CAGCGCAAAAGCGCCCCCTGTGCTATTCTGCA	[93, 7, 93, 8, 92, 7, 92, 8]
TGCTACATCAGTTTCTTGTGCACGTCAGGGATTCTCACCGGTGGCCGT	[7, 7, 7, 8, 7, 5, 7, 6, 6, 5, 6, 6]
CCTGGGTCCTGCTGCCTTGTCGGGACCTGTCATTGGAGTGATGAACAA	[23, 7, 23, 8, 23, 5, 23, 6, 22, 5, 22, 6]
AACAACGTGTCTCATTAATCAAGTAGGGCGAATACCGCAAATGCCCCG	[39, 7, 39, 8, 39, 5, 39, 6, 38, 5, 38, 6]
CAGCATGCCCGGTTTAGAGGACGGTAACCAAAAGGGCACTGACGACGC	[55, 7, 55, 8, 55, 5, 55, 6, 54, 5, 54, 6]
CAAAGTGACGGCCCGTAGGGAGTTCCCGGCGAGCTGTTTGGATTTACG	[71, 7, 71, 8, 71, 5, 71, 6, 70, 5, 70, 6]
TCACATAGAGGATCTGCCCTATAGAAGGCATTTCCTATGCACCGAATC	[87, 7, 87, 8, 87, 5, 87, 6, 86, 5, 86, 6]
GGATAAGGGATTCGGTCTAGGCTAGATGATCTAGCTGCGTAACGTCTT	[86, 6, 86, 7, 89, 6, 89, 7, 89, 8, 89, 9]
TGCGGACAGAGGCGCCAAAGGGCCAGCTAGACGTATAAACTGAAGACT	[84, 6, 84, 7, 91, 6, 91, 7, 91, 8, 91, 9]
TAGTGAACATTGAGCCCACAACCCGGGCGCTTTTGCGCTGGCAAAGGG	[82, 6, 82, 7, 93, 6, 93, 7, 93, 8, 93, 9]
TATTTGCCGACTGCTTGGCACAATCTGACGACCATGATCCTTCGCGGC	[80, 6, 80, 7, 95, 6, 95, 7, 95, 8, 95, 9]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTATTACATGTGCAAGTGA	[9, 7, 9, 8, 8, 7, 8, 8, 8, 9, 8, 10]
GAATGAGCGACGCACCTGATAATTAACACTCCGAGTCCCCGAAGAATA	[25, 7, 25, 8, 24, 7, 24, 8, 24, 9, 24, 10]
CGCGTTAGATGTTAACTTATGCATTGCGGTACTCAGTGATTCCAGAGC	[41, 7, 41, 8, 40, 7, 40, 8, 40, 9, 40, 10]
GTCGCACTTGTGTGAATGCGTAGCATGCACCGTACCTTTACACCCAGA	[57, 7, 57, 8, 56, 7, 56, 8, 56, 9, 56, 10]
AGCGGCTCACCGACAACTTCATTCCACGGAGACTGAAAACGGAAACAT	[73, 7, 73, 8, 72, 7, 72, 8, 72, 9, 72, 10]
ACGCAGCTAGATCATCAATGTGCTCGAGCCAGAGTTTAAGTTATGGGC	[89, 7, 89, 8, 88, 7, 88, 8, 88, 9, 88, 10]
TGTTTTCGGCCGGGCTTCCTCGGTAGGGTGTA	[16, 8, 16, 9, 15, 8, 15, 9]
GCCGATGGCGTACCTTGCCTGGCCCTACTTCA	[18, 8, 18, 9, 13, 8, 13, 9]
TGGTCGGTCACAGGATCGAATCGCAGGAGATC	[20, 8, 20, 9, 11, 8, 11, 9]
GCGCGGGCCGAAGGTCGGAATGCAACACCGGC	[22, 8, 22, 9, 9, 8, 9, 9]
GGGGACTCGGAGTGTTGACCCAGGGTGAACCC	[24, 8, 24, 9, 23, 8, 23, 9]
GCGACGCTCCCGTTCCTAACAGCAGGTCGGCC	[26, 8, 26, 9, 21, 8, 21, 9]
GCGGATGCTTTGCATTGGTAGAAGGAACTCTG	[28, 8, 28, 9, 19, 8, 19, 9]
TCGGCAGCTAGCGTCTTTCTGCTAGTACAAAT	[30, 8, 30, 9, 17, 8, 17, 9]
ATGGATTGCTACCGACAGACGTTTCCTCACGC	[32, 8, 32, 9, 31, 8, 31, 9]
CCTAACATTGAACGGTCGATAGAAACAATTTC	[34, 8, 34, 9, 29, 8, 29, 9]
AAGCCACTGGGACATGGAAGAGGTCAAGGACG	[36, 8, 36, 9, 27, 8, 27, 9]
CCTATCACTTATTTACGCTCATTCGCCTACCT	[38, 8, 38, 9, 25, 8, 25, 9]
ATCACTGAGTACCGCAACGTTGTTACGGCTAG	[40, 8, 40, 9, 39, 8, 39, 9]
TCGCTTTAGTCACTGCTACAGGTGCCTTTCAC	[42, 8, 42, 9, 37, 8, 37, 9]
ATGGTTATACGGGTACAATGAGCTTGGGATCT	[44, 8, 44, 9, 35, 8, 35, 9]
TCGAGTCTAGCTACCGACCCTGGCCGAGTGGA	[46, 8, 46, 9, 33, 8, 33, 9]
CATATTTTCCCAGCGGCACAACCCCCTCTACG	[48, 8, 48, 9, 47, 8, 47, 9]
GATTCTAATGGTTAGGAAGTGTGAGGGTGGTC	[50, 8, 50, 9, 45, 8, 45, 9]
TTGGGGCGCAGGTGAGAACTGCGCAGTACCCA	[52, 8, 52, 9, 43, 8, 43, 9]
TAGCGCACAAGTCCGTCTAACGCGCACCAGGT	[54, 8, 54, 9, 41, 8, 41, 9]
TAAAGGTACGGTGCATGCATGCTGTATGCCTA	[56, 8, 56, 9, 55, 8, 55, 9]
CCGTCCTATCCCCCAATAGGTATGTGCATATT	[58, 8, 58, 9, 53, 8, 53, 9]
TTCCGCGCTATTGCTGACTACTTAAGACTTAG	[60, 8, 60, 9, 51, 8, 51, 9]
ACAACAATTTTCCTTTAGGTAGTCTTAGCAGG	[62, 8, 62, 9, 49, 8, 49, 9]
AAAAGTAGACCTCTCACCAGCATCGAGACAGA	[64, 8, 64, 9, 63, 8, 63, 9]
AAAGCGAGGTACTCTGTGTATGGTGCCTTATG	[66, 8, 66, 9, 61, 8, 61, 9]
ATGGAGCTGCACGGAAGTGGCGGACGTCTATT	[68, 8, 68, 9, 59, 8, 59, 9]
ACAGCCGGTGCTCAAGAGTGCGACTTTCACTG	[70, 8, 70, 9, 57, 8, 57, 9]
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TGCTGGCTTGTTGTTGGAGCCGAAAATTCTTC	[74, 8, 74, 9, 69, 8, 69, 9]
CGTAAAGCTCTCGTCTCCTGGTTGAGGCGTAA	[76, 8, 76, 9, 67, 8, 67, 9]
AGCGCGAGTCTATATCCCCGGTGGGAGGAGCA	[78, 8, 78, 9, 65, 8, 65, 9]
TCCATGTGGGAGTTATTTGGCGCTGGATAGTG	[80, 8, 80, 9, 79, 8, 79, 9]
GAGATTGAGGTCGTTCCACGCGGTGGCTCCGT	[82, 8, 82, 9, 77, 8, 77, 9]
CCACTAAGTCCTATGACGCGCTCAGGCCGGGG	[84, 8, 84, 9, 75, 8, 75, 9]
GTCGGTTTCTGAAACAGAGCCGCTCACAGAGG	[86, 8, 86, 9, 73, 8, 73, 9]
GTATTAGCAACCGTGAGTATGATTGCGGCCATTCACAGTGCCTGCGAA	[0, 8, 0, 9, 0, 6, 0, 7, 15, 6, 15, 7]
AAAGCTTCTGGTGAATGCACCGAAAAAAGCCCGGGCTGATCCCGCAAC	[14, 8, 14, 9, 1, 8, 1, 9, 1, 10, 1, 11]
ATTACCGTTAAGCGTTACAGGCGGAGGATATGCACTCGCACTTAGATC	[2, 8, 2, 9, 2, 6, 2, 7, 13, 6, 13, 7]
CGGCATGCGTCCTCACGCGGGCCGGGAAGGACCTTTAGGCCCAAGGAG	[12, 8, 12, 9, 3, 8, 3, 9, 3, 10, 3, 11]
GTATTACTGAAGCGTAATCGACTATATCCCAACCCCAAGTGCTACATG	[4, 8, 4, 9, 4, 6, 4, 7, 11, 6, 11, 7]
ATGTGGTTAGGACGATAGATTGTAGCTGTGACCCTATCTTACGCTTAC	[10, 8, 10, 9, 5, 8, 5, 9, 5, 10, 5, 11]
AGTATAGTCGCAGGGTGCTATGCTACGGCCACGGCGGTACCAAACATT	[6, 8, 6, 9, 6, 6, 6, 7, 9, 6, 9, 7]
ACATGTAATAAGCCACATGTAGCATTCCCCAGGAGTGCAACTAATCCC	[8, 8, 8, 9, 7, 8, 7, 9, 7, 10, 7, 11]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTG	[3, 9, 3, 10, 2, 9, 2, 10]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[5, 9, 5, 10, 4, 9, 4, 10]

TTAAGACGGCCGGTGTAACCACATAAAGTCGT	[9, 9, 9, 10, 10, 9, 10, 10]
AGACGACGGATCTCCTGCATGCCGGTAGCACC	[11, 9, 11, 10, 12, 9, 12, 10]
ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[13, 9, 13, 10, 14, 9, 14, 10]
CATGGAAGCAGAGTTCCCATCGGCAAAATTGA	[19, 9, 19, 10, 18, 9, 18, 10]
TAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[21, 9, 21, 10, 20, 9, 20, 10]
ATGCGGAGAGGTAGGCAGCGTCGCTTAAAGTG	[25, 9, 25, 10, 26, 9, 26, 10]
AAGCATCGCGTCCTTGGCATCCGCTCGCATGG	[27, 9, 27, 10, 28, 9, 28, 10]
ACCATGTTGAAATTGTGCTGCCGACACGAGGC	[29, 9, 29, 10, 30, 9, 30, 10]
CGACCTCTAGATCCCAATGTTAGGAGCTAACA	[35, 9, 35, 10, 34, 9, 34, 10]
CGGCAGTTGTGAAAGGAGTGGCTTCCTAGGTG	[37, 9, 37, 10, 36, 9, 36, 10]
AACCGATAACCTGGTGTAAAGCGAGTAACGAC	[41, 9, 41, 10, 42, 9, 42, 10]
TGTAATATTGGGTACTATAACCATCCTGGTGA	[43, 9, 43, 10, 44, 9, 44, 10]
CCCAGGAAGACCACCCAGACTCGACTAGCACG	[45, 9, 45, 10, 46, 9, 46, 10]
AACCGCGCCTAAGTCTTTAGAATCACCTTAGG	[51, 9, 51, 10, 50, 9, 50, 10]
CATCAAGTAATATGCACGCCCCAACTGCTCCT	[53, 9, 53, 10, 52, 9, 52, 10]
CTTGACAACAGTGAAATAGGACGGCTATAAAA	[57, 9, 57, 10, 58, 9, 58, 10]
GCACGTTAAATAGACGGCGCGGAAGACCTCCG	[59, 9, 59, 10, 60, 9, 60, 10]
CAGTGGCCCATAAGGCATTGTTGTAGCGATTA	[61, 9, 61, 10, 62, 9, 62, 10]
GACTAAAGTTACGCCTCTCGCTTTTTGCTCTT	[67, 9, 67, 10, 66, 9, 66, 10]
TTTCAAAAGAAGAATTAGCTCCATTTAGAATC	[69, 9, 69, 10, 68, 9, 68, 10]
ACGGTCTTCCTCTGTGAGCCAGCACGCTCTTG	[73, 9, 73, 10, 74, 9, 74, 10]
TTCTAATGCCCCGGCCGCTTTACGACGTGACC	[75, 9, 75, 10, 76, 9, 76, 10]
GATATAATACGGAGCCCTCGCGCTGCTCCGAT	[77, 9, 77, 10, 78, 9, 78, 10]
ACGCATATTGCGAAGGTCAATCTCTCGCTATG	[83, 9, 83, 10, 82, 9, 82, 10]
CGCATAGTTTTCATCCCTTAGTGGTCATCGTG	[85, 9, 85, 10, 84, 9, 84, 10]
GGGGGAGTAAGACGTTGTAACCTAATATTTAT	[89, 9, 89, 10, 90, 9, 90, 10]
CGCAAACAAGTCTTCAGATCGGTCGTGACCCG	[91, 9, 91, 10, 92, 9, 92, 10]
ACCCAGCACCCTTTGCCGAGGCATATATAGGT	[93, 9, 93, 10, 94, 9, 94, 10]
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCGAACTGTTGTGTCCTAT	[1, 9, 1, 10, 0, 9, 0, 10, 0, 11, 0, 12]
AGCTCGTATACACCCTACCGAGGATTCGCAGGTCCATGGGATTCACCA	[15, 9, 15, 10, 15, 7, 15, 8, 14, 7, 14, 8]
CAATTACTATTTGTACCGAAAACAAGGGCATAGTATTATCGCGTCAAT	[17, 9, 17, 10, 16, 9, 16, 10, 16, 11, 16, 12]
TAGACTCAGCGTGAGGAAACGTCTAGTATTTCGTCTCGCGAGACGCTA	[31, 9, 31, 10, 31, 7, 31, 8, 30, 7, 30, 8]
CGTAATGTTCCACTCGCAATCCATTACGGACAGCGATGGTGATGGGAA	[33, 9, 33, 10, 32, 9, 32, 10, 32, 11, 32, 12]
AGGGTAGGCGTAGAGGGGGTTGTGGCGGGGGTTAACGCCGCGGTAGCT	[47, 9, 47, 10, 47, 7, 47, 8, 46, 7, 46, 8]
TGATCAGCCCTGCTAAAAAATATGCAGGGTTAGTTGCCCTCGACCGAT	[49, 9, 49, 10, 48, 9, 48, 10, 48, 11, 48, 12]
GCAGTGTGTCTGTCTCGATGCTGGAAACCGGATAACCTAAAAAGGAAA	[63, 9, 63, 10, 63, 7, 63, 8, 62, 7, 62, 8]
AAGCGGTCTGCTCCTCCTACTTTTGACGTCAGTTATGTCTCAGGCGTA	[65, 9, 65, 10, 64, 9, 64, 10, 64, 11, 64, 12]
AGAACTTGCACTATCCAGCGCCAAAGGTGCGTTTGGTTCAGATATAGA	[79, 9, 79, 10, 79, 7, 79, 8, 78, 7, 78, 8]
AATGAGGAAGGCGATTCACATGGATTACTCGTTGACTCGGTCGAGAAC	[81, 9, 81, 10, 80, 9, 80, 10, 80, 11, 80, 12]
CTAGCTTGGCCGCGAAGGATCATGGTCGTCAGTTGAAGTATACCGAAC	[95, 9, 95, 10, 95, 7, 95, 8, 94, 7, 94, 8]
TTCCGCGTTCACTTGCCAAAGGGCGGCACTAG	[8, 10, 8, 11, 23, 10, 23, 11]
GCGTTAAAACGACTTTCCACCTTATTACGAGT	[10, 10, 10, 11, 21, 10, 21, 11]
AGCAGGTCGGTGCTACCTTCCATGTAATTATA	[12, 10, 12, 11, 19, 10, 19, 11]
ACCGAAGCGGCTAGAAAGTAATTGTCGCTTTT	[14, 10, 14, 11, 17, 10, 17, 11]
GATAATACTATGCCCTTGAGTCTAGGGGATGA	[16, 10, 16, 11, 31, 10, 31, 11]
TGGCTCGTTCAATTTTAACATGGTATCGCTGA	[18, 10, 18, 11, 29, 10, 29, 11]
AATGTTCTTAGCGCCTCGATGCTTTTGCCACA	[20, 10, 20, 11, 27, 10, 27, 11]
GATATCGCTAGGTTATCTCCGCATCATGTTGT	[22, 10, 22, 11, 25, 10, 25, 11]
ACTGTAGTTATTCTTCTTATGTCGGGCCTCAG	[24, 10, 24, 11, 39, 10, 39, 11]
ATATTGTACACTTTAAAACTGCCGACCAGTTT	[26, 10, 26, 11, 37, 10, 37, 11]
TAGATGCGCCATGCGAAGAGGTCGAGGCGAGT	[28, 10, 28, 11, 35, 10, 35, 11]
TTTTAACAGCCTCGTGACATTACGTACACTCG	[30, 10, 30, 11, 33, 10, 33, 11]
ACCATCGCTGTCCGTACCTACCCTCCAGCGTA	[32, 10, 32, 11, 47, 10, 47, 11]
CGTGTCGATGTTAGCTTTCCTGGGCGCAAGCT	[34, 10, 34, 11, 45, 10, 45, 11]
ACGGAAACCACCTAGGATATTACACCCTTCCC	[36, 10, 36, 11, 43, 10, 43, 11]
TATACCAAGCTGAGAGTATCGGTTTTTCATAG	[38, 10, 38, 11, 41, 10, 41, 11]
AGTGCGCCGCTCTGGATAGGAATGAACTGCAC	[40, 10, 40, 11, 55, 10, 55, 11]
CCTACGCCGTCGTTACACTTGATGCCAAGCAT	[42, 10, 42, 11, 53, 10, 53, 11]
CTAGCTAGTCACCAGGGCGCGGTTGATGTGCC	[44, 10, 44, 11, 51, 10, 51, 11]
GTCCTACACGTGCTAGGCTGATCAAGATGTAG	[46, 10, 46, 11, 49, 10, 49, 11]
AGGGCAACTAACCCTGCACACTGCGTGGTTCG	[48, 10, 48, 11, 63, 10, 63, 11]
CGCGAAGGCCTAAGGTGGCCACTGCCGCCACA	[50, 10, 50, 11, 61, 10, 61, 11]
GTAGGCTCAGGAGCAGTAACGTGCCTGATCAC	[52, 10, 52, 11, 59, 10, 59, 11]
CGATTGGTAATACCTTTTGTCAAGACTAGCTC	[54, 10, 54, 11, 57, 10, 57, 11]
ATATTAGCTCTGGGTGTCACGGGCGAATCGCG	[56, 10, 56, 11, 71, 10, 71, 11]
TCAATAATTTTTATAGTTTTGAAACGAGCAAC	[58, 10, 58, 11, 69, 10, 69, 11]
TGAGGTCGCGGAGGTCCTTTAGTCCCTTACGT	[60, 10, 60, 11, 67, 10, 67, 11]
GCCCGCGGTAATCGCTGACCGCTTCTTCTGTC	[62, 10, 62, 11, 65, 10, 65, 11]
AGACATAACTGACGTCCAAGTTCTAATTGAAT	[64, 10, 64, 11, 79, 10, 79, 11]
TGGCCCTTAAGAGCAAATTATATCCTAAGAAC	[66, 10, 66, 11, 77, 10, 77, 11]
ATTTTTGTGATTCTAACATTAGAAGGCAAGTA	[68, 10, 68, 11, 75, 10, 75, 11]
CGAAGCTGCCGTCGTAAAGACCGTAGTTATGG	[70, 10, 70, 11, 73, 10, 73, 11]
GTAGCCACATGTTTCCCGGGCTAGGGATGTAG	[72, 10, 72, 11, 87, 10, 87, 11]
CCGAAAATCAAGAGCGACTATGCGGGTATATG	[74, 10, 74, 11, 85, 10, 85, 11]
GACACTGAGGTCACGTATATGCGTCATACTTC	[76, 10, 76, 11, 83, 10, 83, 11]
TGGTTGATATCGGAGCTCCTCATTAATATGGT	[78, 10, 78, 11, 81, 10, 81, 11]
CACTCGCTGCCCATAACTTAAACTCTGGCTCGCTATGTGAGAAGCTCC	[88, 10, 88, 11, 88, 8, 88, 9, 87, 8, 87, 9]
GGGTAGGCTTATGCGAACTCCCCCGTTTGCCGCCCGTGTGATGATAGT	[86, 10, 86, 11, 89, 10, 89, 11, 89, 12, 89, 13]
CCGGTAACATAAATATTAGGTTACCCTGCATAGCCTCCCGGGATGAAA	[90, 10, 90, 11, 90, 8, 90, 9, 85, 8, 85, 9]
AACCGTGACACGATGATGTTTGCGCCTTAAAATCGTCCGCGGGAAACA	[84, 10, 84, 11, 91, 10, 91, 11, 91, 12, 91, 13]
AACGCCACCGGGTCACGACCGATCTGCAGAATATGTTCCACCTTCGCA	[92, 10, 92, 11, 92, 8, 92, 9, 83, 8, 83, 9]

CATGAGTGCATAGCGATGCTGGGTTTGTTTGCGGGTTTATGAACTACC	[82, 10, 82, 11, 93, 10, 93, 11, 93, 12, 93, 13]
TCGTATTCACCTATATATGCCTCGGTTCGGTACCGCCTTGAATCGCCT	[94, 10, 94, 11, 94, 8, 94, 9, 81, 8, 81, 9]
CCGAGTCAACGAGTAACAAGCTAGAATTGTGTGCCTGTCGCACTCTTA	[80, 10, 80, 11, 95, 10, 95, 11, 95, 12, 95, 13]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[1, 11, 1, 12, 2, 11, 2, 12]
ACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[3, 11, 3, 12, 4, 11, 4, 12]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[5, 11, 5, 12, 6, 11, 6, 12]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[11, 11, 11, 12, 10, 11, 10, 12]
ATAGCATCGACACTACGACCTGCTTTTCGACA	[13, 11, 13, 12, 12, 11, 12, 12]
CAGTAACGAAAAGCGAACGAGCCACCACCTAG	[17, 11, 17, 12, 18, 11, 18, 12]
GTTACCGCTATAATTAAGAACATTCGGGTTCG	[19, 11, 19, 12, 20, 11, 20, 12]
TAGGGTATACTCGTAAGCGATATCTGAATGCG	[21, 11, 21, 12, 22, 11, 22, 12]
TTAAGATGTGTGGCAATACAATATAGTTATAT	[27, 11, 27, 12, 26, 11, 26, 12]
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GACCCGACACTCGCCTGTTTCCGTGCGTTCTT	[35, 11, 35, 12, 36, 11, 36, 12]
AACGTGGGAAACTGGTTTGGTATATCCTGATA	[37, 11, 37, 12, 38, 11, 38, 12]
AACGGGATGGGAAGGGGGCGTAGGGGCCGCAC	[43, 11, 43, 12, 42, 11, 42, 12]
GAGTTTCGAGCTTGCGCTAGCTAGGTTTTACG	[45, 11, 45, 12, 44, 11, 44, 12]
TGACCCTACTACATCTCCTTCGCGCCCGACAA	[49, 11, 49, 12, 50, 11, 50, 12]
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ACTGTCTTGACAGAAGAAGGGCCAAGCCATTG	[65, 11, 65, 12, 66, 11, 66, 12]
CGCTTTTAACGTAAGGACAAAAATTGGACGTA	[67, 11, 67, 12, 68, 11, 68, 12]
GCCATACTGTTGCTCGCAGCTTCGAAATTGCA	[69, 11, 69, 12, 70, 11, 70, 12]
CAGACGCGTACTTGCCATTTTCGGGTAGAAGT	[75, 11, 75, 12, 74, 11, 74, 12]
GGCCATTGGTTCTTAGTCAGTGTCTCAGGGGC	[77, 11, 77, 12, 76, 11, 76, 12]
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GTGATCATGAAGTATGTCACGGTTCCAAATGA	[83, 11, 83, 12, 84, 11, 84, 12]
AACGGAGACATATACCGCCTACCCGGCTCAAG	[85, 11, 85, 12, 86, 11, 86, 12]
GCGGACGATTTTAAGGGTTACCGGCGGCGGAT	[91, 11, 91, 12, 90, 11, 90, 12]
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AGTAATGTCTAGTGCCGCCCTTTGGGGTTCACGCCCGCGCATAACCTA	[23, 11, 23, 12, 23, 9, 23, 10, 22, 9, 22, 10]
TGTCCAAGACAACATGACTACAGTTGACCGGGGGATATTCTCCGCCGG	[25, 11, 25, 12, 24, 11, 24, 12, 24, 13, 24, 14]
AACTGTGTCTGAGGCCCGACATAACTAGCCGTGTGATAGGCTCTCAGC	[39, 11, 39, 12, 39, 9, 39, 10, 38, 9, 38, 10]
GACCAACTCTATGAAAGGCGCACTTAATTCTGGTTAACACAGCGGAGT	[41, 11, 41, 12, 40, 11, 40, 12, 40, 13, 40, 14]
TAATCGCCGTGCAGTTCATTCCTATAGGCATAGTGCGCTAAAGGTATT	[55, 11, 55, 12, 55, 9, 55, 10, 54, 9, 54, 10]
ACTCAACCGAGCTAGTGCTAATATCCTCTAAGTCTAGCCTATGCCGAA	[57, 11, 57, 12, 56, 11, 56, 12, 56, 13, 56, 14]
GTCACATGCGCGATTCGCCCGTGAGCGCTTTTCCGGCTGTTACGACGG	[71, 11, 71, 12, 71, 9, 71, 10, 70, 9, 70, 10]
TACGCCACCCATAACTGTGGCTACAACGGCGCGGCTTATGTGTCGCTT	[73, 11, 73, 12, 72, 11, 72, 12, 72, 13, 72, 14]
TGTTCATCCTACATCCCTAGCCCGGGAGCTTCAAACCGACTCGCATAA	[87, 11, 87, 12, 87, 9, 87, 10, 86, 9, 86, 10]
CACACGGGCGGCAAACAGCGAGTGCTGAAATGATTTTTATAGAACGAT	[89, 11, 89, 12, 88, 11, 88, 12, 88, 13, 88, 14]
CGGGTGTCATTGACGCGGAGAATCGGTGATCT	[16, 12, 16, 13, 15, 12, 15, 13]
CCTAGGCGCTAGGTGGGATGCTATTCCAGAAT	[18, 12, 18, 13, 13, 12, 13, 13]
GGTATTTTCGAACCCGTATTTGACGTCTTGCG	[20, 12, 20, 13, 11, 12, 11, 13]
TTTACGCTCGCATTCAGGAGGCGGGGGTATAG	[22, 12, 22, 13, 9, 12, 9, 13]
GAATATCCCCCGGTCAACATTACTTGACTCTT	[24, 12, 24, 13, 23, 12, 23, 13]
CGGCGCCGATATAACTATACCCTATTGTCGTT	[26, 12, 26, 13, 21, 12, 21, 13]
GGCGGATATTGCTAGGGCGGTAACATCACATA	[28, 12, 28, 13, 19, 12, 19, 13]
CAACACAACCTGTGGGCGTTACTGACCCTAAC	[30, 12, 30, 13, 17, 12, 17, 13]
CTTGGCTTTTCCCATCGGCCCATACATACATG	[32, 12, 32, 13, 31, 12, 31, 13]
CACCTACCTCTATCACCGCCGTGTTGTTCTAC	[34, 12, 34, 13, 29, 12, 29, 13]
CAGCCTTCAAGAACGCCATCTTAACGACCGTT	[36, 12, 36, 13, 27, 12, 27, 13]
ACGTCCGATATCAGGACTTGGACATTGCGCTT	[38, 12, 38, 13, 25, 12, 25, 13]
GTGTTAACCAGAATTAACACAGTTAGGCGAGG	[40, 12, 40, 13, 39, 12, 39, 13]
TTAATTTAGTGCGGCCCCCACGTTGACGCCCC	[42, 12, 42, 13, 37, 12, 37, 13]
AAGCCTGTCGTAAAACGTCGGGTCGCCGTAAA	[44, 12, 44, 13, 35, 12, 35, 13]
GTGATCCTAACGTCTAGATGATACTTAATGGG	[46, 12, 46, 13, 33, 12, 33, 13]
CAGGCAGCATCGGTCGGGCTGGTTATCTCATT	[48, 12, 48, 13, 47, 12, 47, 13]
TGGTCGCATTGTCGGGCGAAACTCACCTCTCT	[50, 12, 50, 13, 45, 12, 45, 13]
GATTATGCATAGACGGATCCCGTTCACAGCGC	[52, 12, 52, 13, 43, 12, 43, 13]
ATAACGGATTTGTGTAAGTTGGTCGATGTCAA	[54, 12, 54, 13, 41, 12, 41, 13]
AGGCTAGACTTAGAGGGGCGATTAAACACCCA	[56, 12, 56, 13, 55, 12, 55, 13]
ACGTTTAAAGGATTATGCTTAACTTATACCAT	[58, 12, 58, 13, 53, 12, 53, 13]
GTTAGGAAAGTGATAGTGCGAAAAGCAAGCCG	[60, 12, 60, 13, 51, 12, 51, 13]
TCGTGTTCCCACGTGGTAGGGTCAAGCACAGG	[62, 12, 62, 13, 49, 12, 49, 13]
GAGTCATGTACGCCTGTCTTATGGATGGAGTA	[64, 12, 64, 13, 63, 12, 63, 13]
AACCCACTCAATGGCTAACTTCTTAGTAGTTA	[66, 12, 66, 13, 61, 12, 61, 13]
ATTGGCTTTACGTCCACCGCTGAAGGCAGTGG	[68, 12, 68, 13, 59, 12, 59, 13]
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CATAAGCCGCGCCGTTCATGTGACTAAACCGC	[72, 12, 72, 13, 71, 12, 71, 13]
CCGTGACAACTTCTACAGTATGGCTTCTCATT	[74, 12, 74, 13, 69, 12, 69, 13]
TGACTCCTGCCCCTGATAAAAGCGCGAAGACC	[76, 12, 76, 13, 67, 12, 67, 13]
ATAACCTTCGCGCACGAAGACAGTGGACTTCA	[78, 12, 78, 13, 65, 12, 65, 13]
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TTTCTAATTCATTTGGCGCGTCTGCGTGATTA	[84, 12, 84, 13, 75, 12, 75, 13]
GAAGAGTGCTTGAGCCGTGGCGTATACGACGA	[86, 12, 86, 13, 73, 12, 73, 13]

GGGGTCACATAGGACACAACAGTTCGCTCAGCTACGAGCTGCTGCCAT	[0, 12, 0, 13, 0, 10, 0, 11, 15, 10, 15, 11]
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CGAGTCGTGTTCCGGTTCAGAAACCACCCCCGACTTACGTGTAGTGTC	[2, 12, 2, 13, 2, 10, 2, 11, 13, 10, 13, 11]
TGATTAGCTGTCGAAAGCCGGAGTAGACGTGCCACGCGAGCTATGTAG	[12, 12, 12, 13, 3, 12, 3, 13, 3, 14, 3, 15]
GGTACACGTGGGTAAGCTAATATAAGGTAGAGCGTCGTCTAGCACGCA	[4, 12, 4, 13, 4, 10, 4, 11, 11, 10, 11, 11]
TTTTTGTCGGTCTAAAGTCCAACATGATAATCCTCGTGCTTCGAGAAA	[10, 12, 10, 13, 5, 12, 5, 13, 5, 14, 5, 15]
CCTACAATTTCTGGTCGTTATTTCAGTGCGTACGTCTTAATGACTACC	[6, 12, 6, 13, 6, 10, 6, 11, 9, 10, 9, 11]
CATATATTCCATTACGTCCAAACCGCAACCTAGCAATTGCTATGTGAT	[8, 12, 8, 13, 7, 12, 7, 13, 7, 14, 7, 15]
CTCGCGTGGCACGTCTACGACTCGTCGAACGA	[3, 13, 3, 14, 2, 13, 2, 14]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[5, 13, 5, 14, 4, 13, 4, 14]
CAGAAAGTCTATACCCGACAAAAACAGATTTG	[9, 13, 9, 14, 10, 13, 10, 14]
CAGCTTGACGCAAGACGCTAATCACTGGGCAG	[11, 13, 11, 14, 12, 13, 12, 14]
CGGACTGCATTCTGGACAGTAACTGCATTAAC	[13, 13, 13, 14, 14, 13, 14, 14]
ACGTGGTCTATGTGATCGCCTAGGCTAACCTC	[19, 13, 19, 14, 18, 13, 18, 14]
TAATACGAAACGACAAAAAATACCTTCGCCGG	[21, 13, 21, 14, 20, 13, 20, 14]
GGTGCAAAAAGCGCAACGGCGCCGATTGATCA	[25, 13, 25, 14, 26, 13, 26, 14]
CCTCATGTAACGGTCGTATCCGCCTATCTCGC	[27, 13, 27, 14, 28, 13, 28, 14]
TAAGACAAGTAGAACATTGTGTTGGGTGTAGT	[29, 13, 29, 14, 30, 13, 30, 14]
GCCAGACTTTTACGGCGGTAGGTGTAAGACCT	[35, 13, 35, 14, 34, 13, 34, 14]
CGCGAGCAGGGGCGTCGAAGGCTGTCTTTGTG	[37, 13, 37, 14, 36, 13, 36, 14]
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TGGACCACGCGCTGTGACAGGCTTCGTCGCCG	[43, 13, 43, 14, 44, 13, 44, 14]
GTAGCAAAAGAGAGGTAGGATCACAGGGTTCA	[45, 13, 45, 14, 46, 13, 46, 14]
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TAAGAGGCATGGTATAGCATAATCTTCGTGGA	[53, 13, 53, 14, 52, 13, 52, 14]
GTTCTGTCCCGGAGTTTTAAACGTGCCCGCTA	[57, 13, 57, 14, 58, 13, 58, 14]
AGGAAATACCACTGCCTTCCTAACGCAGGTGC	[59, 13, 59, 14, 60, 13, 60, 14]
CTTCTGCGTAACTACTGAACACGAGCGGAGGG	[61, 13, 61, 14, 62, 13, 62, 14]
CAGTGATAGGTCTTCGAGTGGGTTTTGGAGTG	[67, 13, 67, 14, 66, 13, 66, 14]
CGATACCAAATGAGAAAAGCCAATCATGCCAT	[69, 13, 69, 14, 68, 13, 68, 14]
TACACTCTTCGTCGTATGTCACGGACTGGGCT	[73, 13, 73, 14, 74, 13, 74, 14]
TTTGCGTGTAATCACGAGGAGTCAAAGGGCTG	[75, 13, 75, 14, 76, 13, 76, 14]
AGTGCGTTGATGGTCTAAGGTTATTAAACAAA	[77, 13, 77, 14, 78, 13, 78, 14]
AAGGACTCTGGTTAAGGATTGGTCCCCCACAT	[83, 13, 83, 14, 82, 13, 82, 14]
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ATCTTGGGACTATCATTCTTTGCGCTTGGAAC	[89, 13, 89, 14, 90, 13, 90, 14]
TCTTTTTTTGTTTCCCCCTCACCTCCTGAGGT	[91, 13, 91, 14, 92, 13, 92, 14]
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GAACTGGTAGATCACCGATTCTCCATGGCAGCGCTTCGGTACAGGTCT	[15, 13, 15, 14, 15, 11, 15, 12, 14, 11, 14, 12]
TGACGCAGCATGTATGTATGGGCCTCATCCCCTGTTAAAACCCACAGG	[31, 13, 31, 14, 31, 11, 31, 12, 30, 11, 30, 12]
TATACCTTAATGAGATAACCAGCCTACGCTGGTGTAGGACTAGACGTT	[47, 13, 47, 14, 47, 11, 47, 12, 46, 11, 46, 12]
AACTCTAGTACTCCATCCATAAGACGAACCACCCGCGGGCCCACGTGG	[63, 13, 63, 14, 63, 11, 63, 12, 62, 11, 62, 12]
CGAGCGCGAAAACCTGATACAGCTATTCAATTATCAACCACGTGCGCG	[79, 13, 79, 14, 79, 11, 79, 12, 78, 11, 78, 12]
ATAAAAGCTAAGAGTGCGACAGGCACACAATTGAATACGACTTAACCA	[95, 13, 95, 14, 95, 11, 95, 12, 94, 11, 94, 12]
CCGCACGTGACCAAGTTCACATACCAGCTGGA	[8, 14, 8, 15, 23, 14, 23, 15]
GGTAGGTTCAAATCTGTCGTATTAGGCTCCAA	[10, 14, 10, 15, 21, 14, 21, 15]
CGTCACTTCTGCCCAGGACCACGTCCTCTCCT	[12, 14, 12, 15, 19, 14, 19, 15]
AGCCGAACGTTAATGCAGGAGGTGGGGTGACC	[14, 14, 14, 15, 17, 14, 17, 15]
CCATATGAACCCATCCCTGCGTCATAGGTGCT	[16, 14, 16, 15, 31, 14, 31, 15]
GAAAACTGGAGGTTAGTTGTCTTAGTAGTTAA	[18, 14, 18, 15, 29, 14, 29, 15]
GAGCTCACCCGGCGAAACATGAGGTGGCTGGT	[20, 14, 20, 15, 27, 14, 27, 15]
GGTTCGTGGTCAAGACTTTGCACCACCTATAC	[22, 14, 22, 15, 25, 14, 25, 15]
TAACAAGGCCGGCGGAAGGGCCAACGTCGATC	[24, 14, 24, 15, 39, 14, 39, 15]
GACTCTCTTGATCAATTGCTCGCGGGGATTTC	[26, 14, 26, 15, 37, 14, 37, 15]
TAACATCGGCGAGATAAGTCTGGCAACGGGTT	[28, 14, 28, 15, 35, 14, 35, 15]
CCGAAGTTACTACACCTGCGAGGATAGATAAG	[30, 14, 30, 15, 33, 14, 33, 15]
TTACCTATAGTGACCGAAGGTATATGATTCAA	[32, 14, 32, 15, 47, 14, 47, 15]
TAGCACTAAGGTCTTATTTGCTACGATATGGC	[34, 14, 34, 15, 45, 14, 45, 15]
AGGGATTGCACAAAGAGTGGTCCAATTCATGG	[36, 14, 36, 15, 43, 14, 43, 15]
TCGGTGACCGCGTGTAACTTAACCGAGGCCTT	[38, 14, 38, 15, 41, 14, 41, 15]
CCTGCCTAACTCCGCTACTACAGGCTCCGACT	[40, 14, 40, 15, 55, 14, 55, 15]
CGCTGTAAGCAGGTGGGCCTCTTACTGCCTTG	[42, 14, 42, 15, 53, 14, 53, 15]
TAGACATTCGGCGACGTGTGTCCGAGATGGCA	[44, 14, 44, 15, 51, 14, 51, 15]
TAACACCATGAACCCTTTTCAAAGTGGGACCC	[46, 14, 46, 15, 49, 14, 49, 15]
TCACCCTAGGGGACAACTAGAGTTGTGGTGCG	[48, 14, 48, 15, 63, 14, 63, 15]
GCCGTTCTATAAAACTCGCAGAAGCCTAAAGA	[50, 14, 50, 15, 61, 14, 61, 15]
TCCCAATCTCCACGAATATTTCCTTACCTGCT	[52, 14, 52, 15, 59, 14, 59, 15]
AGTGACAACTGCGCAGGACAGAACAACCCCCT	[54, 14, 54, 15, 57, 14, 57, 15]
AGCGCGCCTTCGGCATGCACGACAGGCCTCGG	[56, 14, 56, 15, 71, 14, 71, 15]
CTTTTCTGTAGCGGGCTGGTATCGCGTCGACC	[58, 14, 58, 15, 69, 14, 69, 15]
TACGGGTGGCACCTGCTATCACTGTACCGAGA	[60, 14, 60, 15, 67, 14, 67, 15]
TCAGTACGCCCTCCGCTCGACCGACCATACAG	[62, 14, 62, 15, 65, 14, 65, 15]
TTTCAATAGGGCGTCACGCGCTCGGCACACCA	[64, 14, 64, 15, 79, 14, 79, 15]
CTCGAGCACACTCCAAAACGCACTCTACGCTG	[66, 14, 66, 15, 77, 14, 77, 15]
ATCTAAAGATGGCATGCACGCAAATAAAGTTA	[68, 14, 68, 15, 75, 14, 75, 15]
GTCATTGTCGGATATGAGAGTGTAGGCACGCG	[70, 14, 70, 15, 73, 14, 73, 15]
TAAGCGCGAAGCGACATAGGGAGGTCTGCCCC	[72, 14, 72, 15, 87, 14, 87, 15]
CCATATAGAGCCCAGTTCTTTGTATTCGTAGG	[74, 14, 74, 15, 85, 14, 85, 15]
GTGACCAGCAGCCCTTGAGTCCTTATAGTTTG	[76, 14, 76, 15, 83, 14, 83, 15]
TCATTGGGTTTGTTTATATTACGTCCGGCGGC	[78, 14, 78, 15, 81, 14, 81, 15]
AGGGCTGAATCGTTCTATAAAAATCATTTCAGGATGAACAGAACAACG	[88, 14, 88, 15, 88, 12, 88, 13, 87, 12, 87, 13]

End sequence	Voxels
TGAGATCGGTTCCAAGCGCAAAGAATCCGCCGTCTCCGTTACATGGAC	[90, 14, 90, 15, 90, 12, 90, 13, 85, 12, 85, 13]
ATGGGTTAACCTCAGGAGGTGAGGGGGCTGCAATGATCACCTTAACCA	[92, 14, 92, 15, 92, 12, 92, 13, 83, 12, 83, 13]
CTGCCTATGAGGAATCCTGGCGCCTGGTTAAGAACTTCATTAATTCAT	[94, 14, 94, 15, 94, 12, 94, 13, 81, 12, 81, 13]
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ACCACCTCCGATGTCAGCGCCGCATACCCATT	[15, 3, 15, 4, 14, 3, 14, 4]
CACTGTGTGGACGTTTGAGCAATAGAAATTGA	[25, 3, 25, 4, 24, 3, 24, 4]
CCTCGTGATATCAGAGGTCGTAACTCGGTCGC	[31, 3, 31, 4, 30, 3, 30, 4]
CATTCCAATATCGAGATCCACACAAGCAAAGA	[41, 3, 41, 4, 40, 3, 40, 4]
TAAGCGTCTCCTCCTCCCTGATTGATATAGAG	[47, 3, 47, 4, 46, 3, 46, 4]
TAATTGCAATCTGCAAGTCCCCCTACTTACTG	[57, 3, 57, 4, 56, 3, 56, 4]
CCAGTCTGACCTCTATTACTCGTCAGAATAGA	[63, 3, 63, 4, 62, 3, 62, 4]
AACAACCCGCACACAGAACCCTAATGCGGACA	[73, 3, 73, 4, 72, 3, 72, 4]
CATTCTACGAAAACTACGTGCACAGGACGGTT	[79, 3, 79, 4, 78, 3, 78, 4]
TTTAGAACTGAAAGTGAGGTCAACGTACCGAT	[89, 3, 89, 4, 88, 3, 88, 4]
GGCGGGCTGTAATGCACTTTGCCACGCAGACA	[95, 3, 95, 4, 94, 3, 94, 4]
TTTTTTTTGCTGTATTTAATTAGTTTTTTTT	[8, 4, 0, 0, 7, 4, 0, 0]
TTTTTTTTTAGGTTTCCATAGGTATTTTTTTT	[10, 4, 0, 0, 5, 4, 0, 0]
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TTTTTTTTAATGGGTAGACATGAATTTTTTTT	[14, 4, 0, 0, 1, 4, 0, 0]
TTTTTTTTCTGTGCTCGAGGTGGTTTTTTTT	[16, 4, 0, 0, 15, 4, 0, 0]
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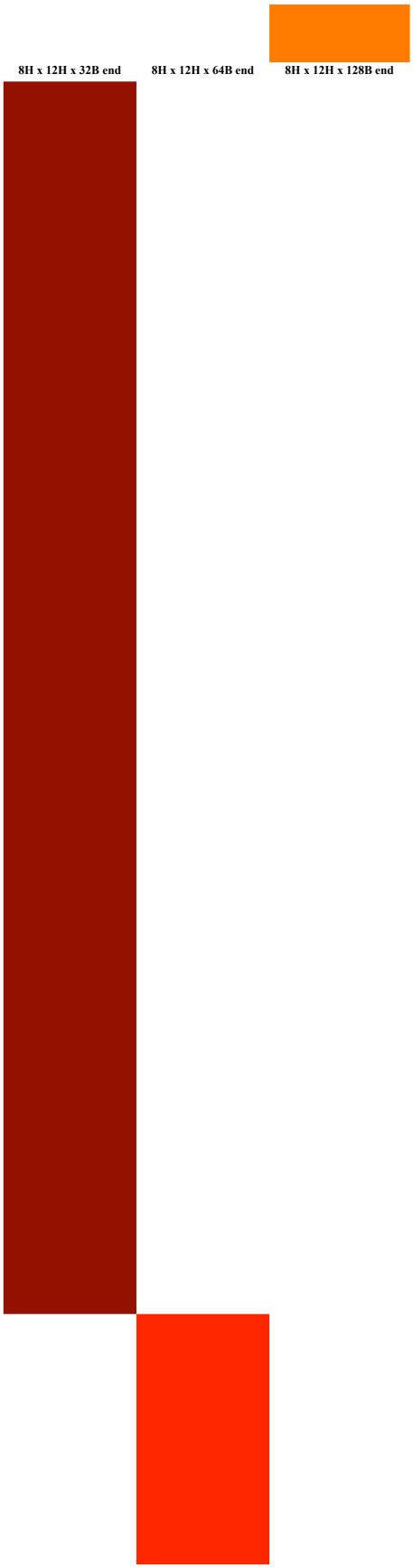
GAATGAGCGACGCACCTGATAATTAACACTCC	[25, 7, 25, 8, 24, 7, 24, 8]
AAACGTCTAGTATTTCGTCTCGCGAGACGCTA	[31, 7, 31, 8, 30, 7, 30, 8]
CGCGTTAGATGTTAACTTATGCATTGCGGTAC	[41, 7, 41, 8, 40, 7, 40, 8]
GGGTTGTGGCGGGGGTTAACGCCGCGGTAGCT	[47, 7, 47, 8, 46, 7, 46, 8]
GTCGCACTTGTGTGAATGCGTAGCATGCACCG	[57, 7, 57, 8, 56, 7, 56, 8]
GATGCTGGAAACCGGATAACCTAAAAAGGAAA	[63, 7, 63, 8, 62, 7, 62, 8]
AGCGGCTCACCGACAACTTCATTCCACGGAGA	[73, 7, 73, 8, 72, 7, 72, 8]



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TTTTTTTTCGTACCTTGCCTGGCCTTTTTTTT	[18, 8, 0, 0, 13, 8, 0, 0]
TTTTTTTTCACAGGATCGAATCGCTTTTTTTT	[20, 8, 0, 0, 11, 8, 0, 0]
TTTTTTTTCGAAGGTCGGAATGCATTTTTTTT	[22, 8, 0, 0, 9, 8, 0, 0]
TTTTTTTTGGAGTGTTGACCCAGGTTTTTTTT	[24, 8, 0, 0, 23, 8, 0, 0]
TTTTTTTTCCCGTTCCTAACAGCATTTTTTTT	[26, 8, 0, 0, 21, 8, 0, 0]
TTTTTTTTTTTGCATTGGTAGAAGTTTTTTTT	[28, 8, 0, 0, 19, 8, 0, 0]
TTTTTTTTTAGCGTCTTTCTGCTATTTTTTTT	[30, 8, 0, 0, 17, 8, 0, 0]
TTTTTTTTCTACCGACAGACGTTTTTTTTTTT	[32, 8, 0, 0, 31, 8, 0, 0]
TTTTTTTTTGAACGGTCGATAGAATTTTTTTT	[34, 8, 0, 0, 29, 8, 0, 0]
TTTTTTTTGGGACATGGAAGAGGTTTTTTTTT	[36, 8, 0, 0, 27, 8, 0, 0]
TTTTTTTTTTATTTACGCTCATTCTTTTTTTT	[38, 8, 0, 0, 25, 8, 0, 0]
TTTTTTTTGTACCGCAACGTTGTTTTTTTTTT	[40, 8, 0, 0, 39, 8, 0, 0]
TTTTTTTTGTCACTGCTACAGGTGTTTTTTTT	[42, 8, 0, 0, 37, 8, 0, 0]
TTTTTTTTACGGGTACAATGAGCTTTTTTTTT	[44, 8, 0, 0, 35, 8, 0, 0]
TTTTTTTTAGCTACCGACCCTGGCTTTTTTTT	[46, 8, 0, 0, 33, 8, 0, 0]
TTTTTTTTCCCAGCGGCACAACCCTTTTTTTT	[48, 8, 0, 0, 47, 8, 0, 0]
TTTTTTTTTGGTTAGGAAGTGTGATTTTTTTT	[50, 8, 0, 0, 45, 8, 0, 0]
TTTTTTTTCAGGTGAGAACTGCGCTTTTTTTT	[52, 8, 0, 0, 43, 8, 0, 0]
TTTTTTTTAAGTCCGTCTAACGCGTTTTTTTT	[54, 8, 0, 0, 41, 8, 0, 0]
TTTTTTTTCGGTGCATGCATGCTGTTTTTTTT	[56, 8, 0, 0, 55, 8, 0, 0]
TTTTTTTTTCCCCCAATAGGTATGTTTTTTTT	[58, 8, 0, 0, 53, 8, 0, 0]
TTTTTTTTTATTGCTGACTACTTATTTTTTTT	[60, 8, 0, 0, 51, 8, 0, 0]
TTTTTTTTTTTCCTTTAGGTAGTCTTTTTTTT	[62, 8, 0, 0, 49, 8, 0, 0]
TTTTTTTTACCTCTCACCAGCATCTTTTTTTT	[64, 8, 0, 0, 63, 8, 0, 0]
TTTTTTTTGTACTCTGTGTATGGTTTTTTTTT	[66, 8, 0, 0, 61, 8, 0, 0]
TTTTTTTTGCACGGAAGTGGCGGATTTTTTTT	[68, 8, 0, 0, 59, 8, 0, 0]
TTTTTTTTTGCTCAAGAGTGCGACTTTTTTTT	[70, 8, 0, 0, 57, 8, 0, 0]
TTTTTTTTTCTCCGTGTCACTTTGTTTTTTTT	[72, 8, 0, 0, 71, 8, 0, 0]
TTTTTTTTTGTTGTTGGAGCCGAATTTTTTTT	[74, 8, 0, 0, 69, 8, 0, 0]
TTTTTTTTTCTCGTCTCCTGGTTGTTTTTTTT	[76, 8, 0, 0, 67, 8, 0, 0]
TTTTTTTTTCTATATCCCCGGTGGTTTTTTTT	[78, 8, 0, 0, 65, 8, 0, 0]
TTTTTTTTGGAGTTATTTGGCGCTTTTTTTTT	[80, 8, 0, 0, 79, 8, 0, 0]
TTTTTTTTGGTCGTTCCACGCGGTTTTTTTTT	[82, 8, 0, 0, 77, 8, 0, 0]
TTTTTTTTTCCTATGACGCGCTCATTTTTTTT	[84, 8, 0, 0, 75, 8, 0, 0]
TTTTTTTTCTGAAACAGAGCCGCTTTTTTTTT	[86, 8, 0, 0, 73, 8, 0, 0]
TTTTTTTTCTGGCTCGCTATGTGATTTTTTTT	[88, 8, 0, 0, 87, 8, 0, 0]
TTTTTTTTCCTGCATAGCCTCCCGTTTTTTTT	[90, 8, 0, 0, 85, 8, 0, 0]
TTTTTTTTTGCAGAATATGTTCCATTTTTTTT	[92, 8, 0, 0, 83, 8, 0, 0]
TTTTTTTTGTTCGGTACCGCCTTGTTTTTTTT	[94, 8, 0, 0, 81, 8, 0, 0]
TTTTTTTTAACCGTGAGTATGATTGCGGCCATTCACAGTGCCTGCGAA	[0, 8, 0, 0, 0, 6, 0, 7, 15, 6, 15, 7]
TTTTTTTTTAAGCGTTACAGGCGGAGGATATGCACTCGCACTTAGATC	[2, 8, 0, 0, 2, 6, 2, 7, 13, 6, 13, 7]
TTTTTTTTGAAGCGTAATCGACTATATCCCAACCCCAAGTGCTACATG	[4, 8, 0, 0, 4, 6, 4, 7, 11, 6, 11, 7]
TTTTTTTTCGCAGGGTGCTATGCTACGGCCACGGCGGTACCAAACATT	[6, 8, 0, 0, 6, 6, 6, 7, 9, 6, 9, 7]
CCGGGCTAATGAAGCCGTGACCCCAGAGACTGGTTTACTTTTTTTTTT	[1, 13, 1, 14, 0, 13, 0, 14, 0, 15, 0, 0]
CACCTCCTGTTAGGGTGACACCCGGGATGGGTTCATATGGTTTTTTTT	[17, 13, 17, 14, 16, 13, 16, 14, 16, 15, 0, 0]
TCCTCGCACCCATTAAAAGCCAAGCGGTCACTATAGGTAATTTTTTTT	[33, 13, 33, 14, 32, 13, 32, 14, 32, 15, 0, 0]
CTTTGAAACCTGTGCTGCTGCCTGTTGTCCCCTAGGGTGATTTTTTTT	[49, 13, 49, 14, 48, 13, 48, 14, 48, 15, 0, 0]
TCGGTCGATGAAGTCCCATGACTCTGACGCCCTATTGAAATTTTTTTT	[65, 13, 65, 14, 64, 13, 64, 14, 64, 15, 0, 0]
ACGTAATAATGAATTACGTCCGAAATTCGGATACCGGTAGTTTTTTTT	[81, 13, 81, 14, 80, 13, 80, 14, 80, 15, 0, 0]
AAGTAAACCAGTCTCTACCAGTTCTGCTGGGT	[0, 14, 0, 15, 15, 14, 15, 15]
GTGGCTGGTCGTTCGAGCAGTCCGATGTTGGG	[2, 14, 2, 15, 13, 14, 13, 15]
CCAAGTCATATTTCGATCAAGCTGTCTGCAAC	[4, 14, 4, 15, 11, 14, 11, 15]
CGGAACAGAAATTGTGACTTTCTGGCTGTTCA	[6, 14, 6, 15, 9, 14, 9, 15]
CTACCGGTATCCGAATGCTTTTATGATGTCCG	[80, 14, 80, 15, 95, 14, 95, 15]
AGACCGCTATGTGGGGGTTGGTGATCAGCATC	[82, 14, 82, 15, 93, 14, 93, 15]
TACGCGTGTCGGTTAGAAAAAAGAGTCTCACG	[84, 14, 84, 15, 91, 14, 91, 15]
CTAGCGTCGATGAGCGCCCAAGATTGTATGCC	[86, 14, 86, 15, 89, 14, 89, 15]
TTTTTTTTACCGGGAGCCAGCCACTTTTTTTT	[1, 15, 0, 0, 2, 15, 0, 0]
TTTTTTTTCTACATAGTGACTTGGTTTTTTTT	[3, 15, 0, 0, 4, 15, 0, 0]
TTTTTTTTTTTCTCGACTGTTCCGTTTTTTTT	[5, 15, 0, 0, 6, 15, 0, 0]
TTTTTTTTTGAACAGCACGTGCGGTTTTTTTT	[9, 15, 0, 0, 8, 15, 0, 0]
TTTTTTTTGTTGCAGAAACCTACCTTTTTTTT	[11, 15, 0, 0, 10, 15, 0, 0]
TTTTTTTTCCCAACATAAGTGACGTTTTTTTT	[13, 15, 0, 0, 12, 15, 0, 0]
TTTTTTTTACCCAGCAGTTCGGCTTTTTTTTT	[15, 15, 0, 0, 14, 15, 0, 0]
TTTTTTTTGGTCACCCCAGTTTTCTTTTTTTT	[17, 15, 0, 0, 18, 15, 0, 0]
TTTTTTTTAGGAGAGGGTGAGCTCTTTTTTTT	[19, 15, 0, 0, 20, 15, 0, 0]
TTTTTTTTTTGGAGCCCACGAACCTTTTTTTT	[21, 15, 0, 0, 22, 15, 0, 0]
TTTTTTTTGTATAGGTCCTTGTTATTTTTTTT	[25, 15, 0, 0, 24, 15, 0, 0]
TTTTTTTTACCAGCCAAGAGAGTCTTTTTTTT	[27, 15, 0, 0, 26, 15, 0, 0]
TTTTTTTTTTAACTACCGATGTTATTTTTTTT	[29, 15, 0, 0, 28, 15, 0, 0]
TTTTTTTTAGCACCTAAACTTCGGTTTTTTTT	[31, 15, 0, 0, 30, 15, 0, 0]
TTTTTTTTCTTATCTATAGTGCTATTTTTTTT	[33, 15, 0, 0, 34, 15, 0, 0]
TTTTTTTTAACCCGTTCAATCCCTTTTTTTTT	[35, 15, 0, 0, 36, 15, 0, 0]

TTTTTTTTGAAATCCCGTCACCGATTTTTTTT	[37, 15, 0, 0, 38, 15, 0, 0]
TTTTTTTTAAGGCCTCTAGGCAGGTTTTTTTT	[41, 15, 0, 0, 40, 15, 0, 0]
TTTTTTTTCCATGAATTTACAGCGTTTTTTTT	[43, 15, 0, 0, 42, 15, 0, 0]
TTTTTTTTGCCATATCAATGTCTATTTTTTTT	[45, 15, 0, 0, 44, 15, 0, 0]
TTTTTTTTTTGAATCATGGTGTTATTTTTTTT	[47, 15, 0, 0, 46, 15, 0, 0]
TTTTTTTTGGGTCCCAAGAACGGCTTTTTTTT	[49, 15, 0, 0, 50, 15, 0, 0]
TTTTTTTTTGCCATCTGATTGGGATTTTTTTT	[51, 15, 0, 0, 52, 15, 0, 0]
TTTTTTTTCAAGGCAGTTGTCACTTTTTTTT	[53, 15, 0, 0, 54, 15, 0, 0]
TTTTTTTTAGGGGGTTGGCGCGCTTTTTTTT	[57, 15, 0, 0, 56, 15, 0, 0]
TTTTTTTTAGCAGGTACAGAAAAGTTTTTTTT	[59, 15, 0, 0, 58, 15, 0, 0]
TTTTTTTTTCTTTAGGCACCCGTATTTTTTTT	[61, 15, 0, 0, 60, 15, 0, 0]
TTTTTTTTCGCACCACCGTACTGATTTTTTTT	[63, 15, 0, 0, 62, 15, 0, 0]
TTTTTTTTCTGTATGGTGCTCGAGTTTTTTTT	[65, 15, 0, 0, 66, 15, 0, 0]
TTTTTTTTTCTCGGTACTTTAGATTTTTTTTT	[67, 15, 0, 0, 68, 15, 0, 0]
TTTTTTTTGGTCGACGACAATGACTTTTTTTT	[69, 15, 0, 0, 70, 15, 0, 0]
TTTTTTTTCGCGTGCCCGCGCTTATTTTTTTT	[73, 15, 0, 0, 72, 15, 0, 0]
TTTTTTTTTAACTTTACTATATGGTTTTTTTT	[75, 15, 0, 0, 74, 15, 0, 0]
TTTTTTTTCAGCGTAGCTGGTCACTTTTTTTT	[77, 15, 0, 0, 76, 15, 0, 0]
TTTTTTTTTGGTGTGCCCCAATGATTTTTTTT	[79, 15, 0, 0, 78, 15, 0, 0]
TTTTTTTTGCCGCCGGAGCGGTCTTTTTTTTT	[81, 15, 0, 0, 82, 15, 0, 0]
TTTTTTTTCAAACTATCACGCGTATTTTTTTT	[83, 15, 0, 0, 84, 15, 0, 0]
TTTTTTTTCCTACGAAGACGCTAGTTTTTTTT	[85, 15, 0, 0, 86, 15, 0, 0]
TTTTTTTTGGCATACATCAGCCCTTTTTTTT	[89, 15, 0, 0, 88, 15, 0, 0]
TTTTTTTTCGTGAGACCGATCTCATTTTTTTT	[91, 15, 0, 0, 90, 15, 0, 0]
TTTTTTTTGATGCTGATAACCCATTTTTTTT	[93, 15, 0, 0, 92, 15, 0, 0]
TTTTTTTTCGGACATCATAGGCAGTTTTTTTT	[95, 15, 0, 0, 94, 15, 0, 0]
TTTTTTTTATCACATAGCAATTGCTAGGTTGCATTGTAGGCACAATTT	[7, 15, 0, 0, 7, 13, 7, 14, 6, 13, 6, 14]
TTTTTTTTTCCAGCTGGTATGTGAAAGAGTCAAGCGTAAAGTCTTGAC	[23, 15, 0, 0, 23, 13, 23, 14, 22, 13, 22, 14]
TTTTTTTTGATCGACGTTGGCCCTCCTCGCCTTCGGACGTTACACGCG	[39, 15, 0, 0, 39, 13, 39, 14, 38, 13, 38, 14]
TTTTTTTTAGTCGGAGCCTGTAGTTGGGTGTTTCCGTTATCTGCGCAG	[55, 15, 0, 0, 55, 13, 55, 14, 54, 13, 54, 14]
TTTTTTTTCCGAGGCCTGTCGTGCGCGGTTTAATAGTAACCATATCCG	[71, 15, 0, 0, 71, 13, 71, 14, 70, 13, 70, 14]
TTTTTTTTGGGGCAGACCTCCCTACGTTGTTCCACTCTTCCGCTCATC	[87, 15, 0, 0, 87, 13, 87, 14, 86, 13, 86, 14]

Table S12. Sequences of 4H × 24H × 120B.

Sequence	5' end
CCAGGTTATTTTTTTTTTTTTTTTAGTGGCTCAATCATACTCACGGTT	[1, 23]
AACTGTTGTGTCCTATGTTTACTTAGGGATGG	[1, 39]
TACGAACTCAACGCACGCTCGGGTAGTCTCAAGAAGATAGAGAGCATA	[1, 55]
AATTCGCTAAACCGGAAAAGTATCCGCATCTC	[1, 71]
ACTCAGTGATCGAGTATTCATGTCGCCTTTTCGAACGGTGACACACTT	[1, 87]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[1, 103]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTAATCAGCCCGGGCTTTT	[1, 119]
GCTAATACGCTGAGCGATGCTGTTGTTGCGGG	[1, 135]
GTTTCTGAACCGGAACCCGGGCTATTTTTTTTTTTTTTTTATGAAGCC	[3, 39]
GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[3, 71]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	[3, 103]
GGATATGGAGCTGGAACGGCTCTGATTTCTAGTGACCTGGTATAATGG	[3, 135]
TTTTTTTTCGGAGCTA	[4, 8]
CCTGACCTTTTTTTTTTTTTTTTTCAATCATA	[5, 23]
CGTCCCACGGAAGGATTCATCCCCTTTAAGAATGATCGCACAGTCTTT	[5, 39]
GAGATGTTGAACATCTTTTGGTTGGCGTAAAG	[5, 55]
ATCTCGCATTCTGGTGCCAAAACTGCCGACTCGTTCAAGCACTATTAT	[5, 71]
CTGGCTATAAAAGATGTCTGTCAGCCCAAGCT	[5, 87]
TAGCATAAGCGGCTGGACGACCCCGCCGTGCGACGACTGACCGTCGAG	[5, 103]
CCCTGCGCGACAAACGCATATCCTCGGCCCGC	[5, 119]
CAAATTAATAGTCGATTACGCTTCGCCTAAAG	[5, 135]
GTCCTTCCTTTTTTTT	[7, 23]
ACGGTAATCGGGGGTGACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[7, 55]
CTCGCGTGGCACGTCTACGACTCGTCGAACGAGGACTGTTCTACATAG	[7, 87]
TGACTTGGACGAGGTTTCACTGGGCGCTATACAGGAAACTCGAGGGGC	[7, 119]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[7, 135]
GAGAAAGATTTTTTTTTTTTTTTTTGCGGTGGCAGTAGTTGTGATTAG	[9, 23]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	[9, 39]
TAATGTGACTAAGCGTTAACTCCAAAGGAAACCAGCTATCCCATATTC	[9, 55]
GATGTAAGCGGACATCTATGCGCCCGATATCC	[9, 71]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	[9, 87]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[9, 103]
TACCTATGGACGGGGATATGCGACACCATGATCCGGATGAGTTATGAA	[9, 119]
GATCGTCATTGGGATATACAATCTCGAAGTAA	[9, 135]
AGCATAGCACCCTGCGAAGATAGGTTTTTTTTTTTTTTTTGTCACAGC	[11, 39]
AGTAATACCTCTACCTTGTTGGACGTAAGCGTGAAATAACGACCAGAA	[11, 71]
AGCACGAGGATTATCACGTGTACCTCGAAATAATCGTTAGTTTCTCGA	[11, 103]
CTGTTCCGAAACAGGCAGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[11, 135]
TTTTTTTTAACTGAT	[12, 8]
TTTCTCCTTTTTTTTTTTTTTTTTGGTTCCGC	[13, 23]
TAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAGGGGAGAGG	[13, 39]
GTGAAACAGGCCACCTGGCTCGGGGAGTGCCC	[13, 55]
CCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTTCCATAGCT	[13, 71]
AACCCGATTGTGCATTCCACGTGAGTCGTACT	[13, 87]
TAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGTTTACCCAC	[13, 103]
TATGTTGTCTCAAGTGCTAACAGTACTAATTA	[13, 119]
TCCATAACTGTGCACGTCAGGGATTCTCACCG	[13, 135]
GTGGCCGTTTTTTTTT	[15, 23]
TGCTACATCAGTTTCTTTGCACTCCTGGGGAAACTATACTTACGCACT	[15, 55]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGCATTGTAGGCACAATTT	[15, 87]
TTGATTCGATCACATACATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[15, 119]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[15, 135]
ACCTCGTCTTTTTTTTTTTTTTTTTATTCGGATAAACCATACTGAGGGC	[17, 23]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[17, 39]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAAATGGGCTGGTGCCCCA	[17, 55]
CGTACAGTAACCAACCGGTGTACCTGTGGGTA	[17, 71]
GGGCCGAGCGCTGGGCTTACATGTGCAAGTGAAATATATGACTTGGTC	[17, 87]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[17, 103]
CTTGACACCTTTCAATTTTTAGTAAACACCCAACAGAGCTGAACTTCC	[17, 119]
CATGGTCGTTCTACTGTCGTATGATCATAGGA	[17, 135]
TCAAACTAAATACAGCGTACCGCCTTTTTTTTTTTTTTTTTAGTTCTTG	[19, 39]
TCCTTATTGGCGATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[19, 71]
TTAAGACGGCCGGTGTAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[19, 103]
ACGCGGAACGTAATGGCAGAAAGTCTATACCCGACAAAAACAGATTTG	[19, 135]
TTTTTTTTACCGGGG	[20, 8]
TGAACAGCTTTTTTTTTTTTTTTTACGTGCGG	[21, 23]
CTTCTCCTGTATCGCCTTGTGTATTATACTCTTGCGGGGGGGTCGAGC	[21, 39]
GCTCCACTGTAGTGGCCGGCCATCGTGGACTA	[21, 55]
GAAAGCGCCGGCAATCTGAATATCGCTACCTCCGATACGCGAACCAGA	[21, 71]
ACCATTTAAGAGTAGGGGCAGTGCTCAGCCAA	[21, 87]
ACAGTGGGACATCTCGGAAAGGTGTCCCAAGTGCAAGTAAAAAAGGAA	[21, 103]
TTATGAGATCATGTGGGATCCTAAAGTTTCTG	[21, 119]
GTAGACCTCGTAGGCTAGAGCGGTGATATCCA	[21, 135]
CGGTACATTTTTTTTT	[23, 23]
TCGTTTACTGCACGGAACGAGAGTGCTGGCATAAGCAAGAGAAACCTA	[23, 55]
ACTTGGGGACTAAGATCGTTGCGAATTTTCGCGCGATTCGCATGTAGC	[23, 87]
CGAACGAGATCGTCCTAGACGACGGATCTCCTGCATGCCGGTAGCACC	[23, 119]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[23, 135]

CAGCTTGATTTTTTTTTTTTTTTTCGCAAGACGCTAATCACTGGGCAG	[25, 23]
GGTCCTAGGTTGCAGAAACCTACCCCCTAAGC	[25, 39]
AGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	[25, 55]
GGCCTTGACATGACATTCTCCCACCCGTCCAA	[25, 71]
CACCAGCAGGATGTCGAGCCCACAACTTGACAGTAGTACAGTATCTTT	[25, 87]
TTTCATGGCGGCGATGTCGCCGTTTGCTCGCG	[25, 103]
TGCGTACGGCTTTTATATAGCGTAGACCGGACAACCCCGTAAATCGTA	[25, 119]
AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGT	[25, 135]
GGGACTGGATCAGATGTTCAAGTATTTTTTTTTTTTTTTTTTCGGTGA	[27, 39]
CCTCCCCGCATTACAACGCGCTTACCAAGTAACGTATGTACGACGCGA	[27, 71]
TGCGAGTGAACGGGTGGATGAATTTCGTTCGGGGCCAGGCGATCTAAG	[27, 103]
TCTGGCGCGTGAGGACACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[27, 135]
TTTTTTTTATAGCATC	[28, 8]
GACACTACTTTTTTTTTTTTTTTTGACCTGCT	[29, 23]
TTTCGACACGGACTGCATTCTGGACAGTAACTGCATTAACTACGTGCT	[29, 39]
CCCAACATAAGTGACGTCCTCAGCAGTTGAAA	[29, 55]
ATTATCTCGATAAGCAGAAGGACCTGTATAACTGGCAAGAGACAAGGC	[29, 71]
CGCTTCAGAAAGGATAGCCGGACCGTATTAAT	[29, 87]
GCCGCGCCAACGGTTTCCCGGACCTAGTGTCTATCAAGTCTATTCTAT	[29, 103]
GAAACCATTCTCGGGTCGAGCGGGTCACTGTT	[29, 119]
GTGACCTACGAGAAGCGTATAGATGTTCCGCG	[29, 135]
CGAATAGCTTTTTTTT	[31, 23]
TCACAGGCGAACTACGTATGAATTGGTTTAAACGCTCCTCGGGAATTA	[31, 55]
ATACGACAGGTGGCAAACCACCTCCGATGTCAGCGCCGCATACCCATT	[31, 87]
CACTGTGAATTTCCACACCGAGGATTCGCAGGTCCATGGGATTCACCA	[31, 119]
AGCTCGTATACACCCTGATTCTCCATGGCAGC	[31, 135]
GCTTCGGTTTTTTTTTTTTTTTTTACAGGTCTGAACTGGTAGATCACC	[33, 23]
ATTAGTGTACCCAGCAGTTCGGCTCCCTTGTG	[33, 39]
GACTCGGGATACCCGGTCGTCGTGTAATGCTGTTCCGGGGTAAATCAA	[33, 55]
GCTTTATAAATTCCCGACGCTCTGTTCCAAAC	[33, 71]
TTTAGAGCCCGGCCGTAATCTCGGATTCCTTAAAAACCAGGCGCAATC	[33, 87]
TCATGGCATAAACGAAACCCAATCATACGAGC	[33, 103]
GTGGAGGGAAGTTATTCTACTGGCGTTTTCATATATCAGAGAGCACAG	[33, 119]
TAATTCGGAGCCCGGCGTATTATCGCGTCAAT	[33, 135]
TCATATGGACACACCAGATTACGGTTTTTTTTTTTTTTTTCGGCTTAG	[35, 39]
GGGAATTGAGTACAAGTGACGAAGAATACCGTCCATCAGATGGAGCTG	[35, 71]
TCAGGCTTCTCCGTCAAAATGTTGGCTGAGATTGATTGGTTTAGTGTA	[35, 103]
TAGCGAGTAAGAGATATGTGGGAGGATCATTACAGGATCAAAGTTGAC	[35, 135]
TTTTTTTTTAGCAGAA	[36, 8]
TAATTTGCTTTTTTTTTTTTTTTTTATCCGAAT	[37, 23]
AAGGTACGCAATTACTATTTGTACCGAAAACAAGGGCATACAGTAACG	[37, 39]
AAAAGCGAACGAGCCACCACCTAGCACCTCCT	[37, 55]
GTTAGGGTGACACCCGGGATGGGTTGTTCATCGGTCACCCCAGTTTTC	[37, 71]
GCTTGAGGAATAGTCCAAGAAATGCATGATAA	[37, 87]
AAGTTGTGCCGCACTGGAATCTGAAGATGCACCGGTTCTCGAGACACT	[37, 103]
CATTTACTGCTCGGTAGACCATGTCTCCAGTA	[37, 119]
TTGCCATTTTCTAATTAATACTTTTAATATAA	[37, 135]
TGTCCGCGTTTTTTTT	[39, 23]
GATCAGCGAATTCGACACAATGGTATCTTTTGAAGCGCACGTAAACCG	[39, 55]
CTTGCCTGGGCCAATACTTTGTGGTCCACTATATATAGGTCTGACACC	[39, 87]
CAGCTCCCAGGTAAGTGCGGAGAGAAATGGCTAATGGTCGACAATATG	[39, 119]
TATTAAGTTTTCGCCGTGAGCGATCAATGACC	[39, 135]
CCAGTAATTTTTTTTTTTTTTTTTAGCCTGAACACCCTGCATCGACGG	[41, 23]
CTTCTACCTCTTAATGTATAATTCATCCTGTG	[41, 39]
CATGGAAGCAGAGTTCCCATCGGCAAAATTGAGTTACCGCTATAATTA	[41, 55]
AGAACATTCGGGTTCGACGTGGTCTATGTGAT	[41, 71]
CGCCTAGGCTAACCTCATGACTCCAGGAGAGGGTGAGCTCCTACGTGG	[41, 87]
AAGTGTTAATGCCGAGATCTAACTTGATTTTT	[41, 103]
ATTCAGAATCGAGACCTTGCTCTTGGACGTCTCATTCTATAGCCCGCG	[41, 119]
GTTACTAGGCGCCTTGCTCCTACGCTCAATAG	[41, 135]
TGAACCCTTACTATCGCGACAGGATTTTTTTTTTTTTTTTTAGGTCAA	[43, 39]
AATAAACGATACTTAAAGCTCTAGAGGGGAACCGTAGACTTCACATAA	[43, 71]
AAAACACTCGGCGAGTGTTCTAGGGAGCGGGGATGGTACACCCAGCAT	[43, 103]
TCCTTCAGTCCGCCTACTCATGATCTTTGATATTCTCCCAAATGGATA	[43, 135]
TTTTTTTTGGGCGTAA	[44, 8]
ACAAAAAATTTTTTTTTTTTTTTTCTTGCCTA	[45, 23]
TCGTGCCCTCATACAGCATTGTCTACCACCTATGTTCTTATGCTGTTA	[45, 39]
ACATAGATCGTCGGGCGACCTTCGTAAGGTGG	[45, 55]
GGCCGACCACCGACCAAGGCGCTATAGGGTATACTCGTAAGCGATATC	[45, 71]
TGAATGCGTAATACGAAACGACAAAAAATACC	[45, 87]
TTCGCCGGTCCGTCCGTTGGAGCCCACGAACCAACGCATCCTTAGTGC	[45, 103]
TGTAGTTTACCATTACCGGAGGCGCATTAGGT	[45, 119]
CTATTATAATGGGACGCCACTACGTATCGTTC	[45, 135]
TATAAAATTTTTTTTT	[47, 23]
GGCACTGTCACGGCGCCTTTCAGTGTGAGTGTGATGACCTCGCAGCCT	[47, 55]
GGCACAGCTTGGCGATATATCATCTACAATGTGTCTGACCCTTCACAT	[47, 87]
TAATATGGGGATTACCCTTCAATAAGTTGTAGGCATCAGCTGGCAGGT	[47, 119]
GCCATCCTACCCGCTTTCTCATGCGAAGCAGG	[47, 135]
ATGTGTAATTTTTTTTTTTTTTTTTGGTGGGCGGACGATATCTGCGCC	[49, 23]
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GATGCGTTGGTTCGTGAGTGTTTTTATCAAAG	[44, 111]
CGTAGTGGGCACTAAGCTTACTTGCCGGCGGA	[44, 127]
TTTTTTTTGAACGATACTGAAGGATTTTTTTT	[44, 143]
AGGTCATCTAGGCAAGTTACACATTTGGGGAC	[46, 31]
CGAAGGTCAGGCTGCGGGTAGAAGGAACTCTG	[46, 47]
GGTCAGACCCACCTTACACTCCAATAGGTTAT	[46, 63]
TTGTCGTTATGTGAAGAATGTTCTGAGGTTAG	[46, 79]
GCTGATGCGGTATTTTTCACATACCTTCTTTC	[46, 95]
CGCCTCCGACCTGCCATAACACTTGGTCTCGA	[46, 111]
GCATGAGAACCTAATGCTGCTGTAATTCCACG	[46, 127]
TTTTTTTTCCTGCTTCCTAGTAACTTTTTTTT	[46, 143]
TATCGTCCGCCCACCAAAGGTCCGAGTATTCC	[48, 31]
GACCCAGGGGCGCAGAACTGAAAGGCGCCGTG	[48, 47]
CAAAGGGCGGCAGCAGCCCGGTGGCTTGGTAA	[48, 63]
TTTACGCTGTGAACCCGATGATATATCGCCAA	[48, 79]
TGGAATACGTCAAGACGATAGAGATGGCACCC	[48, 95]
CGTGGGACCAGCTGGATATTGAAGGGTAATCC	[48, 111]
ACGGGACATTTAAAGAATGTTCCGTCTTGTAT	[48, 127]
TTTTTTTTGCCCTAACAGGATGGCTTTTTTTT	[48, 143]
CCCGACAAAGCGGGTCATGCCGTTCCAGCAGT	[50, 31]
CTGCTCCTTGACAGGTGGGCACGAGCCCGACG	[50, 47]
ACATTACTGACCCAAAAAACGTCCGAGCCGAT	[50, 63]
GGGGACTCGGCACTAGGGTCGGCCTCGTATTA	[50, 79]
CCCCTTCGTATTCTTCGGAGTGTTCTTGGACA	[50, 95]
CTGCTTTTGACTCGAGCCGGCGAAGTAATGGT	[50, 111]
CTGAATGGCCGGTTGATTGCGCTTTAACAAGG	[50, 127]
TTTTTTTTCCTGTGAATATAATAGTTTTTTTT	[50, 143]
GCGCCCACACTCGTCGTACGATGAAGGGCTGC	[52, 31]
CCGGACGCCTGGTCTCGCTAAGGGCCTCAGAA	[52, 47]
TACGTCTTACACAGTGCCCGCGTACGTCGAGG	[52, 63]
GGTGCGTCGCTCATTCTTACCTGCTTAGGGTC	[52, 79]
CATGTTGTAATTATCAAAGTTGAATCGGGACA	[52, 95]
CCCGGTCAACTGTAGTGTGCCGTAACGCCCTG	[52, 111]
TGCCATCGTTTGCACCTCAAGGAATCGTCTAC	[52, 127]
TTTTTTTTAATATTGCGAATATCCTTTTTTTT	[52, 143]
GAAGGCTGGTCGGAAGATATTGCTTTGCCCTT	[54, 31]
TCAATTTCCCCGCGGTGTGGCGCTTTGTTCAT	[54, 47]
GTTAGTGGAACTCATACATACACAAAAACGAC	[54, 63]
GCCTACCTACTGTCCCGCGCGGGCTGACTCTT	[54, 79]
GGTTGCGGGCGACGCTCGTCCTGTCAAGGACG	[54, 95]
TGATCAATCACGTAAACATACCGTGCGTAGCT	[54, 111]
CTGCTGAATTAACCATCATCTTAAGCGAGATA	[54, 127]
TTTTTTTTGAGTAAGGAGATGCGATTTTTTTT	[54, 143]
GTTGTTCCTGTCCGTGTGTTCTACGTAGTTAA	[56, 31]
GCGCCAGATGACACCCTGCTCAATGGAACAGA	[56, 47]
CGTGACGGCTAAGCCGCAACACAAAATGTATT	[56, 63]
GAAGAGGTCCACAATGAGCCAGAGATGTGTAC	[56, 79]
GCCAAAATTAAGACCTTCATGGTATCACCCTA	[56, 95]
ATATTGTACCCGTTCCATCCCGGACATCGTGC	[56, 111]
ACATGAGGATATAACTGTGTACCTGGCTATAC	[56, 127]
TTTTTTTTCGACCGTTTCCCTAAATTTTTTTT	[56, 143]
AAATACGATGATGTCCGAGTACATCTGTACTA	[58, 31]
GCGCCCACCGGGCATCTATAAAAATATTGCTC	[58, 47]
AAACTGAGAACGGTTTCGAAGTCTCGATGCGG	[58, 63]
ACCTTCAATGAATCTTTGCAGGGTCTCCGCAT	[58, 79]
GCGGATGCTGGTTCAAGCGAGGGTCGATAGAA	[58, 95]
CTCAATAACCATGCGACACTTTAACGGCGCCG	[58, 111]
AGAACTCTAGATAGGTACAATTTCTAGATGCG	[58, 127]
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CACTCCCATCGCACGATATCTTACAATGCGCC	[60, 31]
TGCTGTAGAGCGTGATGACTCTCTCTCCATTG	[60, 47]
CCCCTCAGCATCACGGGATCATGTGCAACACT	[60, 63]
GGTATGCTATCCCCTCCAGAGATGCTGTTTAA	[60, 79]
AAGGAGATTTGTGCTGCTTACTGCATAGCAAC	[60, 95]
TTTGCATTTTGTTGCGAGTGTGGTCCTGGGAA	[60, 111]
TTGCTAGGAACATGGTGTTTATTTGTATATAG	[60, 127]
TTTTTTTTTTGTCTTAGACTCTACTTTTTTTT	[60, 143]
TAACATCGTTGTGAACCAGTATTTACTTCCTG	[62, 31]
GCAGGCGTTTAGGTAAACTTGGACAAAGTGAG	[62, 47]
GATTCATACCACGGAAGGAGGGTATCGGTCAA	[62, 63]
TAACGGCCCGTGTCTGGCGGCGAAGAGAACAT	[62, 79]
CGGGTATAATTACGACTCACGAGGGAAATACT	[62, 95]
GCCTCGTGGAGCTTGCCGATGCTTTTGCCACA	[62, 111]
GTGCTGCGCGCCGTGTTGAGTCTACATACATG	[62, 127]
TTTTTTTTGGAGCGTAGGCGGATATTTTTTTT	[62, 143]
TGCCTAATACCGTGGGCGAGTGGATACACTCG	[64, 31]
TGGTCGCGTTATGGAGATGAATCCACTACACC	[64, 47]

TCTTATAGTGCCAATGATGGATTGAGTGACCG	[64, 63]
GTTACGACTGGAGTAGAGTCAATCCCTGCTCC	[64, 79]
TGCATACCGCGACCGATGCGAGGAGATAAGGG	[64, 95]
GGCCCATATGAGCCAACAGACTACTCCCCGGA	[64, 111]
TTTTAACAGGGGATGATAGCACTATTTTGGCA	[64, 127]
TTTTTTTTCCTGTGGGCACTTGACTTTTTTTT	[64, 143]
CACAAAACCCCTATAGTTGTCGTTTGCATGGG	[66, 31]
CTCCTAGCTTGTCGAGTAGCCAGCCGAACGCA	[66, 47]
GCTCTGGAAGCTAGCTTTCCCATCTCAGGGCG	[66, 63]
GAGATCCTTTTTCTTATTGCGGGGGATCACCC	[66, 79]
CGCGAGACGAACCTCTCGGTGGACGACCCACG	[66, 95]
TATACTAGTAGCGTCTCACAGCACTCGGCAGC	[66, 111]
GATGAGTATCGGAGCGTTAATCCTCGATGTCG	[66, 127]
TTTTTTTTTAGGTGCTATCGCTGATTTTTTTT	[66, 143]
TATCTTTCCTGCGCGCAGAGGTCGGGGACATG	[68, 31]
CTACCGACACGGACTTCCGAAGTTTTCCCATC	[68, 47]
GTTCTACGACCATCGCGTCGGGTCTGTTAGCT	[68, 63]
TCAAAATGCTCTGCTTCTAATGTGTTGAAAGA	[68, 79]
AACTCTAACCTAATGACACCTACCGCCGTAAA	[68, 95]
TATTAATGAGGCAGTCCACTGTGATCACGTTA	[68, 111]
TGAACGGTTATGCGGACCATTCTTGAACGGCT	[68, 127]
TTTTTTTTACATTACGGTCAGAATTTTTTTTT	[68, 143]
CGTGTCGAGGATTCGTGGGAGACATTTCGGGT	[70, 31]
AAACCCAGTCTATCACAGACGCCTCCGCAGAG	[70, 47]
TACTGGGAGAAATATCGAGATGTAATCCGTCA	[70, 63]
ACAAATTATAGATAAGCAGGTGGTCTCTGATA	[70, 79]
TTACTGCTGGCAGGCAGCTCTTAACCATTTCA	[70, 95]
TGTACCGACCCTCACAAGACGTTTCCTCACGC	[70, 111]
GAAGTTCAACCCTGGCCGCATTACAGGCGGAA	[70, 127]
TTTTTTTTTTACATTCTGCGTCATTTTTTTT	[70, 143]
GTAACAGTGATGGGAGTTCGCGTGTTCCAGTA	[72, 31]
TATGGTGACAGCGCGGGATGATACTGTCCGTA	[72, 47]
ATTACCTTTGGTGGATGTCGGCCCCACCTAGG	[72, 63]
GCCTCAGTAGTTTCACCTTGGCTTTTAATGGG	[72, 79]
GAACATAAGTTAACTCAACTGCCGGACGCCCC	[72, 95]
AATAGGCTGCAGGTTATTTCGGAGGAAACTAC	[72, 111]
GATCTTTCCCTTGATGTATACCAAGGGATTTC	[72, 127]
TTTTTTTTAACGTTATCTGGTACTTTTTTTTT	[72, 143]
TGGCCCTTTGGGATCTGTGCCAGTAGCTTAAT	[74, 31]
ACGGAAACAACACTCCTTCCACGATTACCTAT	[74, 47]
AAGAGCACAAGAACGCTAGTAAGGGTAGATCC	[74, 63]
GCCGCTGACACCGCTCGTGTCCTTAATCGCCG	[74, 79]
GGAGGGTTAACGGGTTCACTTCCAATATAACA	[74, 95]
TTCATTACAAAACGTACTCACACCTGACACTG	[74, 111]
AATGAGCTATCTATCCAGAAGATTGACTATTG	[74, 127]
TTTTTTTTGGACCGAGACCGGATATTTTTTTT	[74, 143]
CATTCCACGGCTAGAATTGCGGTATTCGCCCT	[76, 31]
GGAGTATGTTCAACAACTCGAATTAGGCGAGT	[76, 47]
GCATGCCGGATAGGACTTATGTCGAATGAGAC	[76, 63]
TGTAAAGGGTCAGGAGCCTAACATAGGTCTTA	[76, 79]
CAAATATCTTTCGGAGAGGGCCAAGGCCTCAG	[76, 95]
ACACGGTGTATAACCCAGTCTGGCGATGTAGA	[76, 111]
TCGGTCACGCGAAGCTAATCTCGTCGTCGATC	[76, 127]
TTTTTTTTACTAGCGCAGGGATTGTTTTTTTT	[76, 143]
GCTTAACATTACCAGCAAAGTCTAAGAAGGGA	[78, 31]
TCTTGGTGTTATTTACTATGATTCGGACGAGC	[78, 47]
CCCACGTTACATTGGTTATCGTGCCTATAACG	[78, 63]
TCACCTAAACCAGTTTTATCATTGGAAGCGAG	[78, 79]
CAGCCTTCTGAGATTACGGGGAGCAGATCTAG	[78, 95]
CCCCCCTACACAAAGAGCATACGCCCTGGTTT	[78, 111]
TCGGTGACTGGACAAATCACCGCGAGTGTGTA	[78, 127]
TTTTTTTTAGAAAACCCAAATCCCTTTTTTTT	[78, 143]
CATATCCGTCTGAGTCAATCTTGGTCTCGATA	[80, 31]
AAGGAACGGTCTACAGTACAGGTGCGCCGATT	[80, 47]
AAACGCGTTTGGCCTTTCTATAACAAACTAAA	[80, 63]
GGGTACAACGGCATTAAAGCCACTCCTTTCAC	[80, 79]
TTCGTGTGAACCGCGTGCCAAGGACACCAGGT	[80, 95]
AGCGATGGCCCCCGAATGCTCGCGTATCAGGA	[80, 111]
TTAAGAGCCCTTTATCATGCATAATTTCATAG	[80, 127]
TTTTTTTTTAGTGTTGAATACCCATTTTTTTT	[80, 143]
AATCCGGGCGGGGCATCCAACAGGAAACTTCT	[82, 31]
CCTATCACCGACCTGAAGCCCAGATGTACCGC	[82, 47]
TTGGCAAAGCTGAGAGTGTTTGATCCCCTGCG	[82, 63]
ACGTCCGAGGGTAAACATCTGCTTAGTAGTTT	[82, 79]
TGCCACACCGCGTGTAATGGATTAATCACTGA	[82, 95]
TACTCCTGCTAACAGGGTTAAAAAGAGGCAGC	[82, 111]
TAGTGACGGGTCGGGTTAGGTCGGGCCTACGT	[82, 127]
TTTTTTTTCGGGCGACTACAGGCATTTTTTTT	[82, 143]
TTGCAGTTACAGGGAGTCAGGATCATTCAAGA	[84, 31]
GGCGTGTAGTGCTCTGACTTGATTACGGCTAG	[84, 47]
CTGCCCATGTCAAGACCGTTGCACATTTTGGA	[84, 63]

CAGTTGCCCTTAACCGACGTTGTTAGGCGAGG	[84, 79]
GCTCTGGAAGTTACAAGTGTAAGAATTGTACC	[84, 95]
ACTCCGCTGTGTTAACACACAGTTACGAATAC	[84, 111]
AGTTGAGTAACAAGGAATATTACAGTCACTGC	[84, 127]
TTTTTTTTTTCACCGTTTAAGTTTTTTTTTT	[84, 143]
TGTGTGGACCGAAAATACTTAACCGAGGCCTT	[86, 31]
TACTCTAATCTTTGCTCGCCGACCACATATCA	[86, 47]
CTAACGCGATCCGCTTAGTATGGATCTTTGCA	[86, 63]
CAAGCGGGGTTAACATTTCCATGTAACCCGTG	[86, 79]
TCGCTTTATCCTTACTCCCAATAAGAGCCGAT	[86, 95]
CAGTCGCCGTCGTTACAGCGGTCGCCGTCATG	[86, 111]
AGTGCGCCCCTGTCTAAGTGTAAGTGCCATAT	[86, 127]
TTTTTTTTCAGAATTACGAGTTGATTTTTTTT	[86, 143]
TTAATTTAGATGTCAACCCTCACATTCCAGGCAAAGAAGTCCGACATC	[88, 31]
AGTCCTTCGCAGGTGGTTGGAATGTGTATTCT	[88, 47]
GTCTTTAGTTGGTGCATCCAATAAGGTCCTCTCACGGCTTTAGAGACC	[88, 63]
CGTTCTAGTCAACCCCCCTAGTCACTAACTAT	[88, 79]
GGTCACACGGTGGCAAAGTATGAATTGCGGCAAAGAGTGACCCGCTGA	[88, 95]
ATTACTTTAGCGCTATTATCGGTTGTACCGCA	[88, 111]
GTTTAGTGCAACCCATGGCCGAAACATGTAGGAAGTGTGATTTTTTTT	[88, 127]
TTTTTTTTTTGCTATAAGTTGGTCTTTTTTTT	[88, 143]
CCTGCCTAGTAATCTCCCCTTCCCGTGGTCCAGTGCGGCCCGCTGTAA	[90, 31]
CGGGCCCAAGCAGTACAACAAAATACAGCCTT	[90, 47]
GGAAGGTCACAAACCCATTCATGGGGTCGGATGTAGACATTGATTGAG	[90, 63]
AACTGCGCAAATGTGAACGCTCGATCATTAAG	[90, 79]
ATCCGAAGATCAAGGATTGTCGGGCATTACGACGATTGCTCGTACCCC	[90, 95]
ATGGTTATGCCAGAGAGTGTAATGCTCTCCTT	[90, 111]
GACTTTGTTCACCAGGACACCGATGCTGGGGATCATTTGCTTTTTTTT	[90, 127]
TTTTTTTTCCCTCCCACGGCAATATTTTTTTT	[90, 143]
CACAGCGCATCCCGTT	[92, 31]
TCCCCCCACTACATTTCGGCGACGAAGCCTGTTGTTGAGGGTGTTTCC	[92, 63]
ATATTGAACTGGTTTTCACCCGCCTTTCATAACCATATCATCCTACCC	[92, 95]
CCCTGGAGACACACTCCAATATACAACCATTTAGTAAACAAGTACCCA	[92, 127]
TTTTTTTTGACGAAGGCTTATCCTTTTTTTTT	[92, 143]
CATGGTCCCCTACGCC	[94, 31]
AAACATACTGACAGAACGAGGCGTACTGCGAGTTGCGCTGTCCCGTCT	[94, 63]
TGAAAGAATTTCGTAAGGAGAGCAAGTATCCACAGCCCTCTCTTCACC	[94, 95]
CTTTATTTACAACTGTGGGCTCACGCCCCCGTATCCCTTGCTCCCGAA	[94, 127]
TTTTTTTTACGGGTACTTGTGATCTTTTTTTT	[94, 143]

Table S13. Sequences of 12H × 12H × 48B.

Sequences	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTAT	[1, 23]
GCTCGGGTAGTCTCAAGAAGATAGAGAGCATA	[1, 55]
GTTTACTTAGGGATGGTACGAACTCAACGCAC	[1, 39]
AATTCGCTAAACCGGAAAAGTATCCGCATCTC	[3, 23]
GAACGGTGACACACTTGTGTTCATTCAGAGTA	[3, 55]
ACTCAGTGATCGAGTATTCATGTCGCCTTTTC	[3, 39]
GCGGAAATATGGCCGCTTCGGTGCGCAGCGGG	[5, 23]
GCTAATACGCTGAGCGATGCTGTTGTTGCGGG	[5, 55]
CCGCCTGTAACGCTTAATCAGCCCGGGCTTTT	[5, 39]
GTTTCTGAACCGGAACCCGGGCTAATGAAGCC	[7, 23]
CCAGCCACTTAGCTGTGTCAGTGTGATCGCGA	[7, 55]
GTGACCCCAGAGACTGTCTGATGCACCGGGAG	[7, 39]
GTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	[9, 23]
TGACCTGGTATAATGGCGGAGCTACCTGACCT	[9, 55]
GGATATGGAGCTGGAACGGCTCTGATTTCTAG	[9, 39]
CAATCATACGTCCCACGGAAGGATTCATCCCCTTTAAGAATGATCGCA	[11, 39]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[11, 55]
GCGTAAAGATCTCGCA	[12, 8]
ACTATTATCTGGCTATAAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[13, 39]
TTCTGGTGCCAAAACTGCCGACTCGTTCAAGC	[13, 23]
GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[13, 55]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[15, 39]
CCGTCGAGCCCTGCGCGACAAACGCATATCCT	[15, 23]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTG	[15, 55]
CTCGCGTGGCACGTCTACGACTCGTCGAACGA	[17, 39]
ACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[17, 23]
GGACTGTTCTACATAGTGACTTGGACGAGGTT	[17, 55]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[19, 39]
TCACTGGGCGCTATACAGGAAACTCGAGGGGC	[19, 23]
GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	[19, 55]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[21, 39]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	[21, 23]
CAGCTATCCCATATTCGATGTAAGCGGACATC	[21, 55]
GTTCAAACTAGGGGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAG	[23, 55]
TATGCGCCCGATATCC	[23, 23]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGCTACCTATGGACGGGGA	[25, 23]
GATCGTCATTGGGATATACAATCTCGAAGTAA	[25, 55]
TATGCGACACCATGATCCGGATGAGTTATGAA	[25, 39]
AGCATAGCACCCTGCGAAGATAGGGTCACAGC	[27, 23]
GAAATAACGACCAGAAAGCACGAGGATTATCA	[27, 55]
AGTAATACCTCTACCTTGTTGGACGTAAGCGT	[27, 39]
CGTGTACCTCGAAATAATCGTTAGTTTCTCGA	[29, 23]
TTAACCTATGCCTTGGTAACTGATTTTCTCCT	[29, 55]
CTGTTCCGAAACAGGCAGCGGTAGCCTCCCAC	[29, 39]
GGTTCCGCTAGCTGATCTATGGTCCTTAATAT	[31, 23]
GGCCACCTGGCTCGGGGAGTGCCCCCTCGGCA	[31, 55]
AACCCTCGGAGGCAAGGGGAGAGGGTGAAACA	[31, 39]
GCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[33, 23]
GTCGTACTTAAAGCAAACGTGGGAGTGCCCGA	[33, 55]
CCATAGCTAACCCGATTGTGCATTCCACGTGA	[33, 39]
GCGTCTGAGGTATGGTTTACCCACTATGTTGTCTCAAGTGCTAACAGT	[35, 39]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[35, 55]
TCTCACCGGTGGCCGT	[36, 8]
ACTATACTTACGCACTGGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[37, 39]
TGCTACATCAGTTTCTTTGCACTCCTGGGGAA	[37, 23]
ATTGTAGGCACAATTTTTGATTCGATCACATA	[37, 55]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[39, 39]
CATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[39, 23]
ACCTCGTCATTCGGATAAACCATACTGAGGGC	[39, 55]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[41, 39]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[41, 23]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[41, 55]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[43, 39]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[43, 23]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[43, 55]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[45, 39]
CTTGACACCTTTCAATTTTTAGTAAACACCCA	[45, 23]
TCGTATGATCATAGGATCAAACTAAATACAGC	[45, 55]
TCCTTATTGGCGATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[47, 55]
GTACCGCCAGTTCTTG	[47, 23]
TTAAGACGGCCGGTGTAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[49, 23]
GACAAAAACAGATTTGTACCGGGGTGAACAGC	[49, 55]
ACGCGGAACGTAATGGCAGAAAGTCTATACCC	[49, 39]
ACGTGCGGCTTCTCCTGTATCGCCTTGTGTAT	[51, 23]
GTAGTGGCCGGCCATCGTGGACTAGAAAGCGC	[51, 55]
TATACTCTTGCGGGGGGGTCGAGCGCTCCACT	[51, 39]
CGGCAATCTGAATATCGCTACCTCCGATACGC	[53, 23]
TCAGCCAAACAGTGGGACATCTCGGAAAGGTG	[53, 55]

GAACCAGAACCATTTAAGAGTAGGGGCAGTGC	[53, 39]
TCCCAAGTGCAAGTAAAAAAGGAATTATGAGA	[55, 23]
CGTAGGCTAGAGCGGTGATATCCACGGTACAT	[55, 55]
TCATGTGGGATCCTAAAGTTTCTGGTAGACCT	[55, 39]
TCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[57, 23]
CGTTGCGAATTTTCGCGCGATTCGCATGTAGC	[57, 55]
AAGCAAGAGAAACCTAACTTGGGGACTAAGAT	[57, 39]
CGAACGAGATCGTCCTAGACGACGGATCTCCTGCATGCCGGTAGCACC	[59, 39]
GTCAAATATGCGTGCTTTTAACGCTTTAGACC	[59, 55]
CAGCTTGACGCAAGAC	[60, 8]
AACCTACCCCCTAAGCAGCGTAGTAAGGGTTACAAGTTCCTGCGGCGG	[61, 39]
GCTAATCACTGGGCAGGGTCCTAGGTTGCAGA	[61, 23]
CTGTACGAATGAGTCCGGCCTTGACATGACAT	[61, 55]
AGCCCACAACTTGACAGTAGTACAGTATCTTT	[63, 39]
TCTCCCACCCGTCCAACACCAGCAGGATGTCG	[63, 23]
TTTCATGGCGGCGATGTCGCCGTTTGCTCGCG	[63, 55]
AACCCCGTAAATCGTAAGAGTCGTTATGCCCC	[65, 39]
TGCGTACGGCTTTTATATAGCGTAGACCGGAC	[65, 23]
CCGGTTCTGCTAGAGTGGGACTGGATCAGATG	[65, 55]
CGCGCTTACCAAGTAACGTATGTACGACGCGA	[67, 39]
TTCAAGTATTCGGTGACCTCCCCGCATTACAA	[67, 23]
TGCGAGTGAACGGGTGGATGAATTTCGTTCGG	[67, 55]
ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[69, 39]
GGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[69, 23]
ATAGCATCGACACTACGACCTGCTTTTCGACA	[69, 55]
CAGTAACTGCATTAACTACGTGCTCCCAACATAAGTGACGTCCTCAGC	[71, 55]
CGGACTGCATTCTGGA	[71, 23]
AGTTGAAAATTATCTCGATAAGCAGAAGGACCTGTATAACTGGCAAGA	[73, 23]
GTATTAATGCCGCGCCAACGGTTTCCCGGACC	[73, 55]
GACAAGGCCGCTTCAGAAAGGATAGCCGGACC	[73, 39]
TAGTGTCTATCAAGTCTATTCTATGAAACCAT	[75, 23]
CGAGAAGCGTATAGATGTTCCGCGCGAATAGC	[75, 55]
TCTCGGGTCGAGCGGGTCACTGTTGTGACCTA	[75, 39]
TCACAGGCGAACTACGTATGAATTGGTTTAAA	[77, 23]
ACCACCTCCGATGTCAGCGCCGCATACCCATT	[77, 55]
CGCTCCTCGGGAATTAATACGACAGGTGGCAA	[77, 39]
CACTGTGAATTTCCACACCGAGGATTCGCAGG	[79, 23]
GATTCTCCATGGCAGCGCTTCGGTACAGGTCT	[79, 55]
TCCATGGGATTCACCAAGCTCGTATACACCCT	[79, 39]
GAACTGGTAGATCACCATTAGTGTACCCAGCA	[81, 23]
TCGTCGTGTAATGCTGTTCCGGGGTAAATCAA	[81, 55]
GTTCGGCTCCCTTGTGGACTCGGGATACCCGG	[81, 39]
GCTTTATAAATTCCCGACGCTCTGTTCCAAACTTTAGAGCCCGGCCGT	[83, 39]
AATCTCGGATTCCTTAAAAACCAGGCGCAATC	[83, 55]
TCATGGCATAAACGAA	[84, 8]
CTACTGGCGTTTTCATATATCAGAGAGCACAGTAATTCGGAGCCCGGC	[85, 39]
ACCCAATCATACGAGCGTGGAGGGAAGTTATT	[85, 23]
GTATTATCGCGTCAATTCATATGGACACACCA	[85, 55]
TGACGAAGAATACCGTCCATCAGATGGAGCTG	[87, 39]
GATTACGGCGGCTTAGGGGAATTGAGTACAAG	[87, 23]
TCAGGCTTCTCCGTCAAAATGTTGGCTGAGAT	[87, 55]
TGTGGGAGGATCATTACAGGATCAAAGTTGAC	[89, 39]
TGATTGGTTTAGTGTATAGCGAGTAAGAGATA	[89, 23]
TAGCAGAATAATTTGCATCCGAATAAGGTACG	[89, 55]
CAGTAACGAAAAGCGAACGAGCCACCACCTAG	[91, 39]
CAATTACTATTTGTACCGAAAACAAGGGCATA	[91, 23]
CACCTCCTGTTAGGGTGACACCCGGGATGGGT	[91, 55]
AATAGTCCAAGAAATGCATGATAAAAGTTGTG	[93, 39]
TGTTCATCGGTCACCCCAGTTTTCGCTTGAGG	[93, 23]
CCGCACTGGAATCTGAAGATGCACCGGTTCTC	[93, 55]
GCTCGGTAGACCATGTCTCCAGTATTGCCATTTTCTAATTAATACTTT	[95, 55]
GAGACACTCATTTACT	[95, 23]
TAATATAATGTCCGCGGATCAGCGAATTCGACACAATGGTATCTTTTG	[97, 23]
CTTTGTGGTCCACTATATATAGGTCTGACACC	[97, 55]
AAGCGCACGTAAACCGCTTGCCTGGGCCAATA	[97, 39]
CAGCTCCCAGGTAAGTGCGGAGAGAAATGGCT	[99, 23]
TGAGCGATCAATGACCCCAGTAATAGCCTGAA	[99, 55]
AATGGTCGACAATATGTATTAAGTTTTCGCCG	[99, 39]
CACCCTGCATCGACGGCTTCTACCTCTTAATG	[101, 23]
CCATCGGCAAAATTGAGTTACCGCTATAATTA	[101, 55]
TATAATTCATCCTGTGCATGGAAGCAGAGTTC	[101, 39]
AGAACATTCGGGTTCGACGTGGTCTATGTGAT	[103, 23]
GTGAGCTCCTACGTGGAAGTGTTAATGCCGAG	[103, 55]
CGCCTAGGCTAACCTCATGACTCCAGGAGAGG	[103, 39]
ATCTAACTTGATTTTTATTCAGAATCGAGACC	[105, 23]
GTTACTAGGCGCCTTGCTCCTACGCTCAATAG	[105, 55]
TTGCTCTTGGACGTCTCATTCTATAGCCCGCG	[105, 39]
TGAACCCTTACTATCGCGACAGGATAGGTCAAAATAAACGATACTTAA	[107, 39]
AGCTCTAGAGGGGAACCGTAGACTTCACATAA	[107, 55]
AAAACACTCGGCGAGT	[108, 8]
TCCTTCAGTCCGCCTACTCATGATCTTTGATATTCTCCCAAATGGATA	[109, 39]

GTTCTAGGGAGCGGGGATGGTACACCCAGCAT	[109, 23]
GGGCGTAAACAAAAAACTTGCCTATCGTGCCC	[109, 55]
TGCTGTTAACATAGATCGTCGGGCGACCTTCG	[111, 39]
TCATACAGCATTGTCTACCACCTATGTTCTTA	[111, 23]
TAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[111, 55]
TAATACGAAACGACAAAAAATACCTTCGCCGG	[113, 39]
TAGGGTATACTCGTAAGCGATATCTGAATGCG	[113, 23]
TCCGTCCGTTGGAGCCCACGAACCAACGCATC	[113, 55]
CATTAGGTCTATTATAATGGGACGCCACTACG	[115, 39]
CTTAGTGCTGTAGTTTACCATTACCGGAGGCG	[115, 23]
TATCGTTCTATAAAATGGCACTGTCACGGCGC	[115, 55]
GGCACAGCTTGGCGATATATCATCTACAATGT	[117, 39]
CTTTCAGTGTGAGTGTGATGACCTCGCAGCCT	[117, 23]
GTCTGACCCTTCACATTAATATGGGGATTACC	[117, 55]
GCATCAGCTGGCAGGTGCCATCCTACCCGCTTTCTCATGCGAAGCAGG	[119, 55]
CTTCAATAAGTTGTAG	[119, 23]
ATGTGTAATGGTGGGCGGACGATATCTGCGCCAGCGCCACGTCCCCAA	[121, 23]
CCTGGGTCCTGCTGCCGCCCTTTGGGGTTCAC	[121, 55]
TTGTCGGGACCTGTCATTGGAGTGATGAACAA	[121, 39]
GCCCGCGCATAACCTAAGTAATGTCTAGTGCC	[123, 23]
GTATTCCATCCAGCTGACGGTATGGAAAGAAG	[123, 55]
GTATGTGAAAGAGTCAAGCGTAAAGTCTTGAC	[123, 39]
CGAAGGGGCTCGAGTCTACAGCAGAGCTACGC	[125, 23]
TCGCATCTCGTGGAATCCATTCAGTTCACAGG	[125, 55]
GTCCCACGTCTTTAAATGTCCCGTGTTAGGGC	[125, 39]
CCCTTAGCCGTACAAAGCGTTACTGACCCGCT	[127, 23]
AGGAGCAGTTTGGGTCTACGGCACCGAGGCCT	[127, 55]
GCAGGTAAATGCAAAACTATGTCTTTCTGAGG	[127, 39]
AATCCGATGACCCTAAGAGTCCCCGAAGAATA	[129, 23]
AAAAGCAGTCAACCGGCGACGAGTAACGGCAT	[129, 55]
GGATATTCTCCGCCGGCAAGTAAGCAGGGCGT	[129, 39]
CTTCCGACTTTTTATAACTGCTGGGTGGGCGCGAGACCAGGCGTCCGG	[131, 39]
CACTGTGTGGACGTTTGAGCAATAGAAATTGA	[131, 55]
TATGAGTTACCCTGCA	[132, 8]
TGATAATTAACACTCCATGCGGAGAGGTAGGCAGCGTCGCTTAAAGTG	[133, 39]
ATCGGCTCAAGACGTAGAATGAGCGACGCACC	[133, 23]
TGTCCAAGACAACATGACTACAGTTGACCGGG	[133, 55]
ATGGTTAAGTATAGGTCCTTGTTACGATGGCA	[135, 39]
GGTGCAAAAAGCGCAACGGCGCCGATTGATCA	[135, 23]
GCAATATTCGGACCTTCCACCGGGTCTGTTCC	[135, 55]
TCTCTATCGTACACATCTCTGGCTTTACCAAG	[137, 39]
ATTGAGCAGGAATACTCAGCCTTCACCGCGGG	[137, 23]
CCACTAACGGGACAGTCGGAACATGCACGATG	[137, 55]
TTTAGGGAATACAAGATTCAGCAGCCTTACTC	[139, 39]
TCCGGGATGGGTGCCACCGCAACCTTTACGTG	[139, 23]
AGCAATATCACGGACAGGAACAACGGGTGTCA	[139, 55]
TGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[141, 39]
GTCCAAGTAAGGGCAATCGTATTTGATGCCCG	[141, 23]
CCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[141, 55]
ACAGGACGATGTTCTCACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[143, 55]
CTCAGTTTAAGATTCA	[143, 23]
GTATGATTTTTTTTTT	[0, 15]
GATACTTTTTTTTTT	[2, 15]
GCACCGAATTTTTTTT	[4, 15]
TAGCCCGGTTTTTTTT	[6, 15]
GGCATCACTTTTTTTT	[8, 15]
TTCTTAAATTTTTTTT	[10, 15]
CTATCTTCATAGGACACAACAGTTAACCGTGAGGCGCATATGAGCTTT	[0, 47]
TTTTTTTTATGCTCTGTTTGAACTTTTTTTT	[0, 63]
ATGAACACGTGCGTTGAGTTCGTAGAGATGCGCCCCCAAGACGCTTAG	[2, 47]
TTTTTTTTTACTCTGAGATAGCTGTTTTTTTT	[2, 63]
AACAGCATGAAAAGGCGACATGAACCCGCTGCCCCAGTGAGCTCGACA	[4, 47]
TTTTTTTTCCCGCAACTCTTTCTCTTTTTTTT	[4, 63]
ACACTGACAAAAGCCCGGGCTGATGGCTTCATGCCGGAGTAGACGTGC	[6, 47]
TTTTTTTTTCGCGATCAACAGTCCTTTTTTTT	[6, 63]
TAGCTCCGCTCCCGGTGCATCAGAACCCTTTTCTCGACGGTTAATTTG	[8, 47]
TTTTTTTTAGGTCAGGCTTTAGGCTTTTTTTT	[8, 63]
AGATGTTCCTAGAAATCAGAGCCGTGCGATCACACCAGAAATAGCCAG	[10, 47]
TTTTTTTTCAACCAAACCAGCCGCTTTTTTTT	[10, 63]
CTTTACGCTTTTTTTTTTTTTTTTTGGGGATGAATCCTTCCGTGGGACG	[12, 15]
AGCTTGGGCTGACAGATATGATTGAACATCTCAAAGACTGTTTTTTTT	[12, 47]
GAGTCGGCTTTTTTTTTTTTTTTTTCCTAGCTAGAGGGAACTTCCAGCT	[14, 15]
CGCACGGCGAAGCGTACCATATCCCCATTATACCAGGTCATTTTTTTT	[14, 47]
CGTTTGTCTTTTTTTTTTTTTTTTTGTTCCGGTTCAGAAACCAGTCTCT	[16, 15]
ATTACCGTTCGTTCGAGGGGTCACACAGCTAAGTGGCTGGTTTTTTTT	[16, 47]
CTAATATATTTTTTTTTTTTTTTTTGCGGCCATATTTCCGCTAAGCGTT	[18, 15]
CCAAGTCACAGAAGTGACAGGCGGCGCTCAGCGTATTAGCTTTTTTTT	[18, 47]
AGTTTCCTTTTTTTTTTTTTTTTTTCCGGTTTAGCGAATTTACTCGAT	[20, 15]
AACTACTGGTTTCCTTCACTGAGTAAGTGTGTCACCGTTCTTTTTTTT	[20, 47]
TTAGTGAGTTTTTTTTTTTTTTTTTGAGCCACTTAACCTGGCCATCCCT	[22, 15]
CTTACATCCTGTTTACAAGTAAACTTGAGACTACCCGAGCTTTTTTTT	[22, 47]

CATCTTTTTGCGAGATGTGGGTAAACCATACC	[12, 31]
TTTTTTTTTTATGCTATAATTAGTTTTTTTTT	[12, 63]
ATCGACTAGCTTGAACGAGGCGGCATCGGGTT	[14, 31]
TTTTTTTTTCAGTCGTAGTACGACTTTTTTTT	[14, 63]
CGAGTCGTAGGATATGGCGGAACCCTTGCCTC	[16, 31]
TTTTTTTTCACCCCCGAGGTGGCCTTTTTTTT	[16, 63]
GTCGCTGGTGGGTAAGGGTACACGGCCTGTTT	[18, 31]
TTTTTTTTAACCTCGTTAGGTTAATTTTTTTT	[18, 63]
TGGAGTTAGCCCCTCGGCTATGCTAGGTAGAG	[20, 31]
TTTTTTTTCTAATCACGTTATTTCTTTTTTTT	[20, 63]
AATTCTCAGAAGGAGTAGCTGTTCATCATGGT	[22, 31]
TTTTTTTTGATGTCCGTGACGATCTTTTTTTT	[22, 63]
GAACTTGATTTTTTTTTTTTTTTTTGGATATCG	[24, 15]
AGATTGTATCCCCGTCGGTCAGAAGCCCCCTA	[24, 47]
CCTATCTTTTTTTTTTTTTTTTTTGTATATCA	[26, 15]
CTCGTGCTTTCATAACTCACATTAGAATATGG	[26, 47]
CTAACGATTTTTTTTTTTTTTTTTGTATAGCG	[28, 15]
ATCAGTTAACGCTTACGACAGGGACCACCGCA	[28, 47]
GACCATAGTTTTTTTTTTTTTTTTCCAAGGAG	[30, 15]
GGGCACTCGTGGGAGGCACGCGAGCTATGTAG	[30, 47]
CTTGACGATTTTTTTTTTTTTTTTGCGCAGGG	[32, 15]
TCCCACGTTGTTTCACGCGGGCCGGGAAGGAC	[32, 47]
CACTTGAGTTTTTTTTTTTTTTTTAGTTTTGG	[34, 15]
CGTGCACATCACGTGGATAATAGTGGGGTCGT	[34, 47]
CATAGGTAGCGTATCCGGCGGTACCAAACATT	[24, 31]
TTTTTTTTTTACTTCGAATAAGGATTTTTTTT	[24, 63]
TCATCCGGGCTGTGACGTGTCAAGGGAAGTTC	[26, 31]
TTTTTTTTTGATAATCTCATACGATTTTTTTT	[26, 63]
GTCCAACATCGAGAAAGGTACACCTCACTTGC	[28, 31]
TTTTTTTTAGGAGAAAATCTGGTCTTTTTTTT	[28, 63]
CTACCGCTATATTAAGCGCCCACTCTATGAAC	[30, 31]
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CCTCTCCCAAAGCAGGTGCCCATGGTGACACG	[32, 31]
TTTTTTTTTCGGGCACGACGAGGTTTTTTTTT	[32, 63]
AATGCACAACTGTTAGATGTAGCAAGTGCGTA	[34, 31]
TTTTTTTTATCCCTGACCTACAATTTTTTTTT	[34, 63]
CGGTGAGATTTTTTTTTTTTTTTTACAACATA	[36, 15]
GCAATTGCCTAATCCCTCAGACGCGTTATGGA	[36, 47]
GAGTGCAATTTTTTTTTTTTTTTTGTATAACC	[38, 15]
CGAATCAAGTCCCTCAAGCTATGGTTGCTTTA	[38, 47]
CAGGCTACTTTTTTTTTTTTTTTTATCAGCTA	[40, 15]
TATGGTTTTTCCGCCCCGAGGGTTCCCGAGCC	[40, 47]
AATGATTATTTTTTTTTTTTTTTTTATTTCGA	[42, 15]
ACTGTACGGACCAAGTCGGAACAGCCAAGGCA	[42, 47]
CTCGGCCCTTTTTTTTTTTTTTTTCGCAGGGT	[44, 15]
TGGTGGTTCAGTAGAAGTATTACTTTCTGGTC	[44, 47]
TACTAAAATTTTTTTTTTTTTTTTCTGCTCTA	[46, 15]
TAGTTTGATAAGCCACGTCGCATATATCCCAA	[46, 47]
TCCAAACCACGGCCACCGTCGTCTAGGACGAT	[36, 31]
TTTTTTTTGCAACCTATATTTGACTTTTTTTT	[36, 63]
ATATCAAGTTCCCCAGGTAAACGATAGGTTTC	[38, 31]
TTTTTTTTTATGTGATTCGCAACGTTTTTTTT	[38, 63]
CTAATGAAGCGCGCCTACTTGGGATTAGGATC	[40, 31]
TTTTTTTTGCCCTCAGAGCCTACGTTTTTTTT	[40, 63]
CATATATTGGAGCACTGATTGCCGTAAATGGT	[42, 31]
TTTTTTTTGGTTGGTTTTGGCTGATTTTTTTT	[42, 63]
CGACCATGGCCCAGCGCCGCACGTCCCCCGCA	[44, 31]
TTTTTTTTGAGGATGTGCCACTACTTTTTTTT	[44, 63]
GCGGCCATTGGGTGTTCGTCTTAACCATTACG	[46, 31]
TTTTTTTTGCTGTATTTTTTTGTCTTTTTTTT	[46, 63]
ATGTGGTTTTTTTTTTTTTTTTTTCAAGAACT	[48, 15]
CCCCGGTATGACTACCGGAATGCACGATCGCC	[48, 47]
GGCGATACTTTTTTTTTTTTTTTTATTGAAAG	[50, 15]
TAGTCCACGGGTATAGAGCTCTGTTCCTATGA	[50, 47]
GAGGTAGCTTTTTTTTTTTTTTTTTACCCACA	[52, 15]
CGAGATGTAGTGGAGCACATGTAATCTAGCAG	[52, 47]
TTCCTTTTTTTTTTTTTTTTTTTTGCCGATCT	[54, 15]
TGGATATCGCACTGCCTAACTAAGTGGGGCAC	[54, 47]
ACTCTCGTTTTTTTTTTTTTTTTTAGCTTTAT	[56, 15]
CGAATCGCAGGTCTACGTGCAGCTATCCGAAT	[56, 47]
CGGCATGCTTTTTTTTTTTTTTTTAGAAACTG	[58, 15]
GCGTTAAAATCTTAGTAGTATAGTAAATTGTG	[58, 47]
GGAGGCGGACGACTTTGCAGTCCGATGTTGGG	[48, 31]
TTTTTTTTGCTGTTCAAGTTACTGTTTTTTTT	[48, 63]
ACTTTCTGATACACAAGCCTGGCCCTACTTCA	[50, 31]
TTTTTTTTGCGCTTTCGATGCTATTTTTTTTT	[50, 63]
GCTCGACCGCGTATCGTACTTGAATTACTTGG	[52, 31]
TTTTTTTTCACCTTTCCACTCGCATTTTTTTT	[52, 63]
CCTACTCTTCTCATAACGTACGCATACGATTT	[54, 31]
TTTTTTTTATGTACCGAGAACCGGTTTTTTTT	[54, 63]
CAGAAACTATGCCAGCGTGGGAGATGTCAAGT	[56, 31]

TTTTTTTTGCTACATGCCATGAAATTTTTTTT	[56, 63]
CCCCAAGTGGTGCTACTGATTAGCGCTTAGGG	[58, 31]
TTTTTTTTGGTCTAAATCGTACAGTTTTTTTT	[58, 63]
TCAAGCTGTTTTTTTTTTTTTTTTAGGAGATC	[60, 15]
GGAACTTGTAACCCTTCTCGTTCGAGCACGCA	[60, 47]
CTAGGACCTTTTTTTTTTTTTTTTTCCGTGCA	[62, 15]
TCAAGGCCAAAGATACTCTTGCTTGCGAAAAT	[62, 47]
TGCTGGTGTTTTTTTTTTTTTTTTTACTTGC	[64, 15]
AACGGCGAGGGGCATACCACATGAACCGCTCT	[64, 47]
TACGCTATTTTTTTTTTTTTTTTGATATTCA	[66, 15]
CCAGTCCCTCGCGTCGTCTGGTTCCCCACTGT	[66, 47]
CGGGGAGGTTTTTTTTTTTTTTTAGGAGAAG	[68, 15]
AATTCATCGGCTAGAAAGAGTATAGATGGCCG	[68, 47]
GCGCCAGATTTTTTTTTTTTTTTTACACCGGC	[70, 15]
AGCAGGTCGCTGAGGATTCCGCGTCAAATCTG	[70, 47]
ACTACGCTGTCTTGCGCAGAGCGTCGGGAATT	[60, 31]
TTTTTTTTCCGCCGCACCGAGATTTTTTTTTT	[60, 63]
TGTACTACTCTGCAACACCAGTTCCACAAGGG	[62, 31]
TTTTTTTTATGTCATGCACGACGATTTTTTTT	[62, 63]
ACGACTCTCGACATCCTCACAGTGTGGTGAAT	[64, 31]
TTTTTTTTCGCGAGCAGGAGAATCTTTTTTTT	[64, 63]
TACATACGGTCCGGTCGCCTGTGATAATTCCC	[66, 31]
TTTTTTTTCATCTGATGAGGTGGTTTTTTTTT	[66, 63]
AAAGCTTCTTGTAATGAGACACTACCCGCTCG	[68, 31]
TTTTTTTTCCGAACGAGCTTCTCGTTTTTTTT	[68, 63]
CGTCACTTGTCCTCACTTTCAACTCTGAAGCG	[70, 31]
TTTTTTTTTGTCGAAAATTAATACTTTTTTTT	[70, 63]
TGCTTATCTTTTTTTTTTTTTTTTTCCAGAAT	[72, 15]
AAACCGTTTCTTGCCAAGCACGTAGTTAATGC	[72, 47]
ATAGAATATTTTTTTTTTTTTTTTCTTAGATC	[74, 15]
CGCGGAACGGTCCGGCACTTACGTGTAGTGTC	[74, 47]
AATTCATATTTTTTTTTTTTTTTTTCACCGAA	[76, 15]
TGCGGCGCTAGGTCACTAAGCGCGCACCCGTT	[76, 47]
TCCTCGGTTTTTTTTTTTTTTTTTATAAAAGC	[78, 15]
ACCGAAGCTTGCCACCACGGGGTTACTCTAGC	[78, 47]
ACACTAATTTTTTTTTTTTTTTTTTTGGACGG	[80, 15]
CCCCGGAAAGGGTGTATGTGGGCTCATCGCCG	[80, 47]
GCTCTAAATTTTTTTTTTTTTTTTCTGCCCAG	[82, 15]
CTGGTTTTCCGGGTATGGTAGGTTGGACTCAT	[82, 47]
GTTATACAGGTCCTTCAGTGTCTCAATGGCAA	[72, 31]
TTTTTTTTGGTCCGGGTACCGAGCTTTTTTTT	[72, 63]
TATCCTTTATGGTTTCGATGAACACATTTCTT	[74, 31]
TTTTTTTTGCTATTCGCAGTGCGGTTTTTTTT	[74, 63]
AACAGTGATTTAAACCAGTAATTGTCGCTTTT	[76, 31]
TTTTTTTTAATGGGTAAGGAGGTGTTTTTTTT	[76, 63]
TGTCGTATCCTGCGAAACCAATCATAATGATC	[78, 31]
TTTTTTTTAGACCTGTTTCTGCTATTTTTTTT	[78, 63]
TACGAGCTTGCTGGGTCCGTAATCACGGTATT	[80, 31]
TTTTTTTTTTGATTTAAAGCCTGATTTTTTTT	[80, 63]
CCCGAGTCACGGCCGGGATTGGGTATGAAAAC	[82, 31]
TTTTTTTTGATTGCGCGATAATACTTTTTTTT	[82, 63]
TGCCATGATTTTTTTTTTTTTTTTGTTTGGAA	[84, 15]
CCGAATTACTGTGCTCTATAAAGCTAAGGAAT	[84, 47]
CCCTCCACTTTTTTTTTTTTTTTTGGTGATCT	[86, 15]
CCATATGACAGCTCCAAGCCGAACCAGCATTA	[86, 47]
CAATTCCCTTTTTTTTTTTTTTTTGTGGAAAT	[88, 15]
CAACATTTGTCAACTTCCCATGGAGCTGCCAT	[88, 47]
ACTCGCTATTTTTTTTTTTTTTTTCGTAGTTC	[90, 15]
ATTCGGATCTAGGTGGGAGGAGCGTGACATCG	[90, 47]
TGTTTTCGTTTTTTTTTTTTTTTTGACTTGAT	[92, 15]
CGGGTGTCCACAACTTACCCGAGAATCTATAC	[92, 47]
GAAAACTGTTTTTTTTTTTTTTTTGAGATAAT	[94, 15]
GTGCATCTAAAGTATTGCCTTGTCGGCGCGGC	[94, 47]
TCTGATATTTCGTTTATCCTGTCGCGATAGTA	[84, 31]
TTTTTTTTGCCGGGCTCTAGAGCTTTTTTTTT	[84, 63]
TCTGATGGAATAACTTAGTTAGATAGACGTCC	[86, 31]
TTTTTTTTTGGTGTGTCTAGTAACTTTTTTTT	[86, 63]
TGATCCTGCTTGTACTAATGTTCTGAGGTTAG	[88, 31]
TTTTTTTTATCTCAGCGAGCTCACTTTTTTTT	[88, 63]
TGGCTCGTTATCTCTTGCAGGGTGCACAGGAT	[90, 31]
TTTTTTTTCGTACCTTGCCGATGGTTTTTTTT	[90, 63]
TTATCATGTATGCCCTGGGAGCTGCATATTGT	[92, 31]
TTTTTTTTACCCATCCATCGCTCATTTTTTTT	[92, 63]
AATTAGAACCTCAAGCTTATATTACGGTTTAC	[94, 31]
TTTTTTTTGAGAACCGCCACAAAGTTTTTTTT	[94, 63]
CGCTGATCTTTTTTTTTTTTTTTTAGTAAATG	[96, 15]
ACCTATATCAAAAGATTACTGGAGACATGGTC	[96, 47]
CTCTCCGCTTTTTTTTTTTTTTTTGGGTGACC	[98, 15]
ATTACTGGTATTGGCCGGACTATTTCAGATTC	[98, 47]
GGTAGAAGTTTTTTTTTTTTTTTTGTACAAAT	[100, 15]
GCGGTAACCGGCGAAACGTTACTGACCCTAAC	[100, 47]

GACCACGTTTTTTTTTTTTTTTTTTACACTAA	[102, 15]
TAACACTTGAACTCTGCTCCCACAGCAAATTA	[102, 47]
TTCTGAATTTTTTTTTTTTTTTTTCTAAGCCG	[104, 15]
CGTAGGAGCCTCTCCTCTTCGTCATGACGGAG	[104, 47]
CGTTTATTTTTTTTTTTTTTTTTTGCTCGTAT	[106, 15]
AGTCTACGCGCGGGCTGCCAGTAGATTGACGC	[106, 47]
ACCATTGTGTCGAATTTATTGAAGAAGCGGGT	[96, 31]
TTTTTTTTGGTGTCAGGCTGATGCTTTTTTTT	[96, 63]
CAGGCAAGAGCCATTTACTGAAAGATCGCCAA	[98, 31]
TTTTTTTTTTCAGGCTGGTCAGACTTTTTTTT	[98, 63]
ACTTAATACATTAAGAGCACTAAGTATAATAG	[100, 31]
TTTTTTTTTAATTATAGAACGATATTTTTTTT	[100, 63]
CTTCCATGATCACATAATACCCTATTGTCGTT	[102, 31]
TTTTTTTTCTCGGCATCGGACGGATTTTTTTT	[102, 63]
GGAGTCATGGTCTCGACTGTATGAATCTATGT	[104, 31]
TTTTTTTTCTATTGAGCCACCTTATTTTTTTT	[104, 63]
ATAGAATGTTAAGTATCCTAGAACTAGGCGGA	[106, 31]
TTTTTTTTTTATGTGATTACGCCCTTTTTTTT	[106, 63]
AGTGTTTTTTTTTTTTTTTTTTTTGACCTA	[108, 15]
TGGGAGAATATCAAAGAGGGTTCAGTTCCCCT	[108, 47]
TGTACCATTTTTTTTTTTTTTTTAAAAATCA	[110, 15]
TAGGCAAGCGAAGGTCAAGAGCAACAAGGCGC	[110, 47]
TAGGTGGTTTTTTTTTTTTTTTTCGAACCCG	[112, 15]
TGGTCGGTCCGGCGAACCTAGGCGCCACGTAG	[112, 47]
GATATCGCTTTTTTTTTTTTTTTTCCGTCGAT	[114, 15]
GGTTCGTGCGTAGTGGGAATTATATCAATTTT	[114, 47]
GTAATGGTTTTTTTTTTTTTTTTTACTTACCT	[116, 15]
ACAGTGCCACATTGTACGACCATTGGTCATTG	[116, 47]
AGGTCATCTTTTTTTTTTTTTTTTCGCGGACA	[118, 15]
CCATATTACCTGCTTCGTGCGCTTATAGTGGA	[118, 47]
ATCATGAGACTCGCCGCCAGCAGTTATAAAAA	[108, 31]
TTTTTTTTTATCCATTACACAGTGTTTTTTTT	[108, 63]
GCCCGACGATGCTGGGATCGGATTCCGGCGGA	[110, 31]
TTTTTTTTGGGCACGACTGCTTTTTTTTTTTT	[110, 63]
GGTATTTTTAAGAACAGCTAAGGGTTTTGCAT	[112, 31]
TTTTTTTTTAGCGCCTCTGCTCCTTTTTTTTT	[112, 63]
CGTCCCATCGCATTCACCCCTTCGTTTAAAGA	[114, 31]
TTTTTTTTGATGCGTTAGATGCGATTTTTTTT	[114, 63]
GATGATATCGCCTCCGGCGCGGGCTGACTCTT	[116, 31]
TTTTTTTTGCGCCGTGTGGAATACTTTTTTTT	[116, 63]
GCATGAGAAGGCTGCGTTACACATTGACAGGT	[118, 31]
TTTTTTTTGGTAATCCGACCCAGGTTTTTTTT	[118, 63]
TATCGTCCTTTTTTTTTTTTTTTTCTACAACT	[120, 15]
CAAAGGGCTTGGGGACAGGATGGCACCTGCCA	[120, 47]
ACATTACTTTTTTTTTTTTTTTTTACACTCAC	[122, 15]
CATACCGTTTGTTCATGCTGTGCCATGTGAAG	[122, 47]
CTGCTGTATTTTTTTTTTTTTTTTAAACTACA	[124, 15]
CTGAATGGGTCAAGACACCTAATGATTTTATA	[124, 47]
AGTAACGCTTTTTTTTTTTTTTTTTTACGAGT	[126, 15]
GTGCCGTAGCCCTAACTCGTATTAGGCTCCAA	[126, 47]
GGGGACTCTTTTTTTTTTTTTTTTAGACAATG	[128, 15]
ACTCGTCGCCTCAGAATAACAGCAGGTCGGCC	[128, 47]
CTGGTCTCTTTTTTTTTTTTTTTTCCCCGCTC	[130, 15]
TATTGCTCACGCCCTGCTGAAGGATTTTTTGT	[130, 47]
GTGGCGCTGGCGCAGAAAACTGAGTAAGACCTGAAGAGGTGAGAACAT	[120, 31]
TTTTTTTTGTGAACCCCGTCCTGTTTTTTTTT	[120, 63]
CACTCCAAGGCACTAGACTTGGACAAAGTGAGCATACACACCACAATG	[122, 31]
TTTTTTTTCTTCTTTCCGTGACGGTTTTTTTT	[122, 63]
TTTACGCTGCGTAGCTATCCCGGATCTTGTATTCCCTAAATGTCCGTG	[124, 31]
TTTTTTTTCCTGTGAAATATTGCTTTTTTTTT	[124, 63]
ACGGGACAAGCGGGTCTGCTCAATATGTGTACGATAGAGAACTGTCCC	[126, 31]
TTTTTTTTAGGCCTCGGTTAGTGGTTTTTTTT	[126, 63]
AGACATAGTATTCTTCTTTGCACCACCTATACTTAACCATAAGGTCCG	[128, 31]
TTTTTTTTATGCCGTTAATATTGCTTTTTTTT	[128, 63]
CTTACTTGCCGGACGCGAGCCGATGGAGTGTTAATTATCACATGTTGT	[130, 31]
TTTTTTTTTCAATTTCCTTGGACATTTTTTTT	[130, 63]
CTCCGCATTGCAGGGTAACTCATATTTTTTTTTTTTTTTTGCGCCCAC	[132, 31]
TTTTTTTTCACTTTAAGCGACGCTGCCTACCTGTCGGAAGAAACGTCC	[132, 63]
TAACAAGGGGTGCGTCGCTCATTCTTTTTTTTTTTTTTTTTAGGGTC	[134, 31]
TTTTTTTTCCCGGTCAACTGTAGTTGCCATCGGAATATCCCCGGTTGA	[134, 63]
AGCCAGAGTGATCAATCGGCGCCGTTTTTTTTTTTTTTTTTTGTACG	[136, 31]
TTTTTTTTGGAACAGACCCGGTGGCTTGGTAATTACCTGCGACCCAAA	[136, 63]
CTGCTGAACCCGCGGTGAAGGCTGTTTTTTTTTTTTTTTTGACTCGAG	[138, 31]
TTTTTTTTCATCGTGCATGTTCCGGAGTAAGGCGTGGGACATTCCACG	[138, 63]
GCGCCAGACACGTAAAGGTTGCGGTTTTTTTTTTTTTTTTAGGTTAT	[140, 31]
TTTTTTTTGACACCCGTTGTTCCCTAAGCCGTCACATACCAGCTGGA	[140, 63]
GCCAAAATCGGGCATCAAATACGATTTTTTTTTTTTTTTGCCCACCA	[142, 31]
TTTTTTTTAAAACGACGCGGCGAACCCGTTCCCCCGACAAGGCAGCAG	[142, 63]
TTTTTTTTTACGTCTT	[133, 0]
TTTTTTTTTTGCGCTT	[135, 0]
TTTTTTTTAGTATTCC	[137, 0]

TTTTTTTTTGGCACCC	[139, 0]
TTTTTTTTTGCCCTT	[141, 0]
TTTTTTTTTGAATCTT	[143, 0]

Table S14. Sequences for making arbitrary shapes from a 10voxel × 10voxel × 10voxel 3D canvas.

Strand	Sequence	Voxel
0	AACTGTTGTGTCCTATGTTTACTTAGGGATGG	[1, 1, 1, 2, 0, 1, 0, 2]
1	TACGAACTCAACGCACGCTCGGGTAGTCTCAA	[1, 3, 1, 4, 2, 3, 2, 4]
2	GAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 5, 1, 6, 0, 5, 0, 6]
3	AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 7, 1, 8, 2, 7, 2, 8]
4	TTCATGTCGCCTTTTCGAACGGTGACACACTT	[1, 9, 1, 10, 0, 9, 0, 10]
5	GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 1, 3, 2, 2, 1, 2, 2]
6	TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 3, 3, 4, 4, 3, 4, 4]
7	ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 5, 3, 6, 2, 5, 2, 6]
8	ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[3, 7, 3, 8, 4, 7, 4, 8]
9	CCGGGCTAATGAAGCCGTGACCCCAGAGACTG	[3, 9, 3, 10, 2, 9, 2, 10]
10	TCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[5, 1, 5, 2, 4, 1, 4, 2]
11	GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGG	[5, 3, 5, 4, 6, 3, 6, 4]
12	GTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[5, 5, 5, 6, 4, 5, 4, 6]
13	CGGCTCTGATTTCTAGTGACCTGGTATAATGG	[5, 7, 5, 8, 6, 7, 6, 8]
14	CGGAGCTACCTGACCTCAATCATACGTCCCAC	[5, 9, 5, 10, 4, 9, 4, 10]
15	GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[7, 1, 7, 2, 6, 1, 6, 2]
16	CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[7, 3, 7, 4, 8, 3, 8, 4]
17	GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[7, 5, 7, 6, 6, 5, 6, 6]
18	GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[7, 7, 7, 8, 8, 7, 8, 8]
19	AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[7, 9, 7, 10, 6, 9, 6, 10]
20	GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[9, 1, 9, 2, 8, 1, 8, 2]
21	GACAAACGCATATCCTCGGCCCGCCAAATTAA	[9, 5, 9, 6, 8, 5, 8, 6]
22	GCCTAAAGGTCCTTCCACGGTAATCGGGGGTG	[9, 9, 9, 10, 8, 9, 8, 10]
23	ACGACTCGTCGAACGAGGACTGTTCTACATAG	[11, 1, 11, 2, 12, 1, 12, 2]
24	TGACTTGGACGAGGTTTCACTGGGCGCTATAC	[11, 3, 11, 4, 10, 3, 10, 4]
25	AGGAAACTCGAGGGGCTCCCTGTCTGTCGAGC	[11, 5, 11, 6, 12, 5, 12, 6]
26	CCAGCGACCACTTCTGGAGAAAGATGCGGTGG	[11, 7, 11, 8, 10, 7, 10, 8]
27	CAGTAGTTGTGATTAGCTTGGGGGTGATATAC	[11, 9, 11, 10, 12, 9, 12, 10]
28	CTCACTAAACTCCTTCTAATGTGACTAAGCGT	[13, 1, 13, 2, 14, 1, 14, 2]
29	TAACTCCAAAGGAAACCAGCTATCCCATATTC	[13, 3, 13, 4, 12, 3, 12, 4]
30	GATGTAAGCGGACATCTATGCGCCCGATATCC	[13, 5, 13, 6, 14, 5, 14, 6]
31	GTTCAAACTAGGGGGCTTCTGACCAAAGCTCA	[13, 7, 13, 8, 12, 7, 12, 8]
32	TGAGAATTGTAAACAGGAACAGCTTAGAGCAG	[13, 9, 13, 10, 14, 9, 14, 10]
33	TCAAGTTCGGATACGCTACCTATGGACGGGGA	[15, 1, 15, 2, 16, 1, 16, 2]
34	TATGCGACACCATGATCCGGATGAGTTATGAA	[15, 3, 15, 4, 14, 3, 14, 4]
35	GATCGTCATTGGGATATACAATCTCGAAGTAA	[15, 5, 15, 6, 16, 5, 16, 6]
36	AGCATAGCACCCTGCGAAGATAGGGTCACAGC	[15, 7, 15, 8, 14, 7, 14, 8]
37	AGTAATACCTCTACCTTGTTGGACGTAAGCGT	[15, 9, 15, 10, 16, 9, 16, 10]
38	GAAATAACGACCAGAAAGCACGAGGATTATCA	[17, 1, 17, 2, 18, 1, 18, 2]
39	CGTGTACCTCGAAATAATCGTTAGTTTCTCGA	[17, 3, 17, 4, 16, 3, 16, 4]
40	CTGTTCCGAAACAGGCAGCGGTAGCCTCCCAC	[17, 5, 17, 6, 18, 5, 18, 6]
41	TTAACCTATGCCTTGGTAACTGATTTTCTCCT	[17, 7, 17, 8, 16, 7, 16, 8]
42	GGTTCCGCTAGCTGATCTATGGTCCTTAATAT	[17, 9, 17, 10, 18, 9, 18, 10]
43	GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[19, 3, 19, 4, 18, 3, 18, 4]
44	GCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[19, 7, 19, 8, 18, 7, 18, 8]
45	ACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[21, 1, 21, 2, 20, 1, 20, 2]
46	TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[21, 3, 21, 4, 22, 3, 22, 4]
47	ACTAATTATCCATAACTGTGCACGTCAGGGAT	[21, 5, 21, 6, 20, 5, 20, 6]
48	TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[21, 7, 21, 8, 22, 7, 22, 8]
49	TTGCACTCCTGGGGAAACTATACTTACGCACT	[21, 9, 21, 10, 20, 9, 20, 10]
50	GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[23, 1, 23, 2, 22, 1, 22, 2]
51	ATTGTAGGCACAATTTTTGATTCGATCACATA	[23, 3, 23, 4, 24, 3, 24, 4]
52	CATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[23, 5, 23, 6, 22, 5, 22, 6]
53	AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[23, 7, 23, 8, 24, 7, 24, 8]
54	ACCTCGTCATTCGGATAAACCATACTGAGGGC	[23, 9, 23, 10, 22, 9, 22, 10]
55	AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[25, 1, 25, 2, 24, 1, 24, 2]
56	CTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[25, 3, 25, 4, 26, 3, 26, 4]
57	ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[25, 5, 25, 6, 24, 5, 24, 6]
58	GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[25, 7, 25, 8, 26, 7, 26, 8]
59	TTACATGTGCAAGTGAAATATATGACTTGGTC	[25, 9, 25, 10, 24, 9, 24, 10]
60	GACCAGATCTGCTAGAAACCACCAACATCCTC	[27, 1, 27, 2, 26, 1, 26, 2]
61	CTTGACACCTTTCAATTTTTAGTAAACACCCA	[27, 3, 27, 4, 28, 3, 28, 4]
62	ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[27, 5, 27, 6, 26, 5, 26, 6]
63	TCGTATGATCATAGGATCAAACTAAATACAGC	[27, 7, 27, 8, 28, 7, 28, 8]
64	GTACCGCCAGTTCTTGTCCTTATTGGCGATCG	[27, 9, 27, 10, 26, 9, 26, 10]
65	TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[29, 1, 29, 2, 28, 1, 28, 2]
66	AACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[29, 5, 29, 6, 28, 5, 28, 6]
67	CAGAAAGTCTATACCCGACAAAAACAGATTTG	[29, 9, 29, 10, 28, 9, 28, 10]
68	TATACTCTTGCGGGGGGGTCGAGCGCTCCACT	[31, 1, 31, 2, 32, 1, 32, 2]
69	GTAGTGGCCGGCCATCGTGGACTAGAAAGCGC	[31, 3, 31, 4, 30, 3, 30, 4]
70	CGGCAATCTGAATATCGCTACCTCCGATACGC	[31, 5, 31, 6, 32, 5, 32, 6]
71	GAACCAGAACCATTTAAGAGTAGGGGCAGTGC	[31, 7, 31, 8, 30, 7, 30, 8]
72	TCAGCCAAACAGTGGGACATCTCGGAAAGGTG	[31, 9, 31, 10, 32, 9, 32, 10]
73	TCCCAAGTGCAAGTAAAAAAGGAATTATGAGA	[33, 1, 33, 2, 34, 1, 34, 2]

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74	TCATGTGGGATCCTAAAGTTTCTGGTAGACCT	[33, 3, 33, 4, 32, 3, 32, 4]
75	CGTAGGCTAGAGCGGTGATATCCACGGTACAT	[33, 5, 33, 6, 34, 5, 34, 6]
76	TCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[33, 7, 33, 8, 32, 7, 32, 8]
77	AAGCAAGAGAAACCTAACTTGGGGACTAAGAT	[33, 9, 33, 10, 34, 9, 34, 10]
78	CGTTGCGAATTTTCGCGCGATTCGCATGTAGC	[35, 1, 35, 2, 36, 1, 36, 2]
79	CGAACGAGATCGTCCTAGACGACGGATCTCCT	[35, 3, 35, 4, 34, 3, 34, 4]
80	GCATGCCGGTAGCACCGTCAAATATGCGTGCT	[35, 5, 35, 6, 36, 5, 36, 6]
81	TTTAACGCTTTAGACCCAGCTTGACGCAAGAC	[35, 7, 35, 8, 34, 7, 34, 8]
82	GCTAATCACTGGGCAGGGTCCTAGGTTGCAGA	[35, 9, 35, 10, 36, 9, 36, 10]
83	AACCTACCCCCTAAGCAGCGTAGTAAGGGTTA	[37, 1, 37, 2, 38, 1, 38, 2]
84	CAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	[37, 3, 37, 4, 36, 3, 36, 4]
85	GGCCTTGACATGACATTCTCCCACCCGTCCAA	[37, 5, 37, 6, 38, 5, 38, 6]
86	CACCAGCAGGATGTCGAGCCCACAACTTGACA	[37, 7, 37, 8, 36, 7, 36, 8]
87	GTAGTACAGTATCTTTTTTCATGGCGGCGATG	[37, 9, 37, 10, 38, 9, 38, 10]
88	TGCGTACGGCTTTTATATAGCGTAGACCGGAC	[39, 3, 39, 4, 38, 3, 38, 4]
89	AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGT	[39, 7, 39, 8, 38, 7, 38, 8]
90	CGCGCTTACCAAGTAACGTATGTACGACGCGA	[41, 1, 41, 2, 40, 1, 40, 2]
91	TGCGAGTGAACGGGTGGATGAATTTCGTTCGG	[41, 3, 41, 4, 42, 3, 42, 4]
92	GGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[41, 5, 41, 6, 40, 5, 40, 6]
93	ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[41, 7, 41, 8, 42, 7, 42, 8]
94	ATAGCATCGACACTACGACCTGCTTTTCGACA	[41, 9, 41, 10, 40, 9, 40, 10]
95	CGGACTGCATTCTGGACAGTAACTGCATTAAC	[43, 1, 43, 2, 42, 1, 42, 2]
96	TACGTGCTCCCAACATAAGTGACGTCCTCAGC	[43, 3, 43, 4, 44, 3, 44, 4]
97	AGTTGAAAATTATCTCGATAAGCAGAAGGACC	[43, 5, 43, 6, 42, 5, 42, 6]
98	TGTATAACTGGCAAGAGACAAGGCCGCTTCAG	[43, 7, 43, 8, 44, 7, 44, 8]
99	AAAGGATAGCCGGACCGTATTAATGCCGCGCC	[43, 9, 43, 10, 42, 9, 42, 10]
100	AACGGTTTCCCGGACCTAGTGTCTATCAAGTC	[45, 1, 45, 2, 44, 1, 44, 2]
101	TATTCTATGAAACCATTCTCGGGTCGAGCGGG	[45, 3, 45, 4, 46, 3, 46, 4]
102	TCACTGTTGTGACCTACGAGAAGCGTATAGAT	[45, 5, 45, 6, 44, 5, 44, 6]
103	GTTCCGCGCGAATAGCTCACAGGCGAACTACG	[45, 7, 45, 8, 46, 7, 46, 8]
104	TATGAATTGGTTTAAACGCTCCTCGGGAATTA	[45, 9, 45, 10, 44, 9, 44, 10]
105	ATACGACAGGTGGCAAACCACCTCCGATGTCA	[47, 1, 47, 2, 46, 1, 46, 2]
106	GCGCCGCATACCCATTCACTGTGAATTTCCAC	[47, 3, 47, 4, 48, 3, 48, 4]
107	ACCGAGGATTCGCAGGTCCATGGGATTCACCA	[47, 5, 47, 6, 46, 5, 46, 6]
108	AGCTCGTATACACCCTGATTCTCCATGGCAGC	[47, 7, 47, 8, 48, 7, 48, 8]
109	GCTTCGGTACAGGTCTGAACTGGTAGATCACC	[47, 9, 47, 10, 46, 9, 46, 10]
110	ATTAGTGTACCCAGCAGTTCGGCTCCCTTGTG	[49, 1, 49, 2, 48, 1, 48, 2]
111	TCGTCGTGTAATGCTGTTCCGGGGTAAATCAA	[49, 5, 49, 6, 48, 5, 48, 6]
112	ACGCTCTGTTCCAAACTTTAGAGCCCGGCCGT	[49, 9, 49, 10, 48, 9, 48, 10]
113	ACCCAATCATACGAGCGTGGAGGGAAGTTATT	[51, 1, 51, 2, 52, 1, 52, 2]
114	CTACTGGCGTTTTCATATATCAGAGAGCACAG	[51, 3, 51, 4, 50, 3, 50, 4]
115	TAATTCGGAGCCCGGCGTATTATCGCGTCAAT	[51, 5, 51, 6, 52, 5, 52, 6]
116	TCATATGGACACACCAGATTACGGCGGCTTAG	[51, 7, 51, 8, 50, 7, 50, 8]
117	GGGAATTGAGTACAAGTGACGAAGAATACCGT	[51, 9, 51, 10, 52, 9, 52, 10]
118	CCATCAGATGGAGCTGTCAGGCTTCTCCGTCA	[53, 1, 53, 2, 54, 1, 54, 2]
119	AAATGTTGGCTGAGATTGATTGGTTTAGTGTA	[53, 3, 53, 4, 52, 3, 52, 4]
120	TAGCGAGTAAGAGATATGTGGGAGGATCATTA	[53, 5, 53, 6, 54, 5, 54, 6]
121	CAGGATCAAAGTTGACTAGCAGAATAATTTGC	[53, 7, 53, 8, 52, 7, 52, 8]
122	ATCCGAATAAGGTACGCAATTACTATTTGTAC	[53, 9, 53, 10, 54, 9, 54, 10]
123	CGAAAACAAGGGCATACAGTAACGAAAAGCGA	[55, 1, 55, 2, 56, 1, 56, 2]
124	ACGAGCCACCACCTAGCACCTCCTGTTAGGGT	[55, 3, 55, 4, 54, 3, 54, 4]
125	GACACCCGGGATGGGTTGTTCATCGGTCACCC	[55, 5, 55, 6, 56, 5, 56, 6]
126	CAGTTTTCGCTTGAGGAATAGTCCAAGAAATG	[55, 7, 55, 8, 54, 7, 54, 8]
127	CATGATAAAAGTTGTGCCGCACTGGAATCTGA	[55, 9, 55, 10, 56, 9, 56, 10]
128	AGATGCACCGGTTCTCGAGACACTCATTTACT	[57, 1, 57, 2, 58, 1, 58, 2]
129	GCTCGGTAGACCATGTCTCCAGTATTGCCATT	[57, 3, 57, 4, 56, 3, 56, 4]
130	TTCTAATTAATACTTTTAATATAATGTCCGCG	[57, 5, 57, 6, 58, 5, 58, 6]
131	GATCAGCGAATTCGACACAATGGTATCTTTTG	[57, 7, 57, 8, 56, 7, 56, 8]
132	AAGCGCACGTAAACCGCTTGCCTGGGCCAATA	[57, 9, 57, 10, 58, 9, 58, 10]
133	ATATAGGTCTGACACCCAGCTCCCAGGTAAGT	[59, 3, 59, 4, 58, 3, 58, 4]
134	AATGGTCGACAATATGTATTAAGTTTTCGCCG	[59, 7, 59, 8, 58, 7, 58, 8]
135	CTTCTACCTCTTAATGTATAATTCATCCTGTG	[61, 1, 61, 2, 60, 1, 60, 2]
136	CATGGAAGCAGAGTTCCCATCGGCAAAATTGA	[61, 3, 61, 4, 62, 3, 62, 4]
137	GTTACCGCTATAATTAAGAACATTCGGGTTCG	[61, 5, 61, 6, 60, 5, 60, 6]
138	ACGTGGTCTATGTGATCGCCTAGGCTAACCTC	[61, 7, 61, 8, 62, 7, 62, 8]
139	ATGACTCCAGGAGAGGGTGAGCTCCTACGTGG	[61, 9, 61, 10, 60, 9, 60, 10]
140	AAGTGTTAATGCCGAGATCTAACTTGATTTTT	[63, 1, 63, 2, 62, 1, 62, 2]
141	ATTCAGAATCGAGACCTTGCTCTTGGACGTCT	[63, 3, 63, 4, 64, 3, 64, 4]
142	CATTCTATAGCCCGCGGTTACTAGGCGCCTTG	[63, 5, 63, 6, 62, 5, 62, 6]
143	CTCCTACGCTCAATAGTGAACCCTTACTATCG	[63, 7, 63, 8, 64, 7, 64, 8]
144	CGACAGGATAGGTCAAAATAAACGATACTTAA	[63, 9, 63, 10, 62, 9, 62, 10]
145	AGCTCTAGAGGGGAACCGTAGACTTCACATAA	[65, 1, 65, 2, 64, 1, 64, 2]
146	AAAACACTCGGCGAGTGTTCTAGGGAGCGGGG	[65, 3, 65, 4, 66, 3, 66, 4]
147	ATGGTACACCCAGCATTCCTTCAGTCCGCCTA	[65, 5, 65, 6, 64, 5, 64, 6]
148	CTCATGATCTTTGATATTCTCCCAAATGGATA	[65, 7, 65, 8, 66, 7, 66, 8]
149	GGGCGTAAACAAAAAACTTGCCTATCGTGCCC	[65, 9, 65, 10, 64, 9, 64, 10]
150	TCATACAGCATTGTCTACCACCTATGTTCTTA	[67, 1, 67, 2, 66, 1, 66, 2]
151	TGCTGTTAACATAGATCGTCGGGCGACCTTCG	[67, 3, 67, 4, 68, 3, 68, 4]
152	TAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[67, 5, 67, 6, 66, 5, 66, 6]
153	TAGGGTATACTCGTAAGCGATATCTGAATGCG	[67, 7, 67, 8, 68, 7, 68, 8]

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154	TAATACGAAACGACAAAAAATACCTTCGCCGG	[67, 9, 67, 10, 66, 9, 66, 10]
155	TCCGTCCGTTGGAGCCCACGAACCAACGCATC	[69, 1, 69, 2, 68, 1, 68, 2]
156	ACCATTACCGGAGGCGCATTAGGTCTATTATA	[69, 5, 69, 6, 68, 5, 68, 6]
157	TATCGTTCTATAAAATGGCACTGTCACGGCGC	[69, 9, 69, 10, 68, 9, 68, 10]
158	ATATCATCTACAATGTGTCTGACCCTTCACAT	[71, 1, 71, 2, 72, 1, 72, 2]
159	TAATATGGGGATTACCCTTCAATAAGTTGTAG	[71, 3, 71, 4, 70, 3, 70, 4]
160	GCATCAGCTGGCAGGTGCCATCCTACCCGCTT	[71, 5, 71, 6, 72, 5, 72, 6]
161	TCTCATGCGAAGCAGGATGTGTAATGGTGGGC	[71, 7, 71, 8, 70, 7, 70, 8]
162	GGACGATATCTGCGCCAGCGCCACGTCCCCAA	[71, 9, 71, 10, 72, 9, 72, 10]
163	TTGTCGGGACCTGTCATTGGAGTGATGAACAA	[73, 1, 73, 2, 74, 1, 74, 2]
164	CCTGGGTCCTGCTGCCGCCCTTTGGGGTTCAC	[73, 3, 73, 4, 72, 3, 72, 4]
165	GCCCGCGCATAACCTAAGTAATGTCTAGTGCC	[73, 5, 73, 6, 74, 5, 74, 6]
166	GTATGTGAAAGAGTCAAGCGTAAAGTCTTGAC	[73, 7, 73, 8, 72, 7, 72, 8]
167	GTATTCCATCCAGCTGACGGTATGGAAAGAAG	[73, 9, 73, 10, 74, 9, 74, 10]
168	CGAAGGGGCTCGAGTCTACAGCAGAGCTACGC	[75, 1, 75, 2, 76, 1, 76, 2]
169	GTCCCACGTCTTTAAATGTCCCGTGTTAGGGC	[75, 3, 75, 4, 74, 3, 74, 4]
170	TCGCATCTCGTGGAATCCATTCAGTTCACAGG	[75, 5, 75, 6, 76, 5, 76, 6]
171	CCCTTAGCCGTACAAAGCGTTACTGACCCGCT	[75, 7, 75, 8, 74, 7, 74, 8]
172	GCAGGTAAATGCAAAACTATGTCTTTCTGAGG	[75, 9, 75, 10, 76, 9, 76, 10]
173	AGGAGCAGTTTGGGTCTACGGCACCGAGGCCT	[77, 1, 77, 2, 78, 1, 78, 2]
174	AATCCGATGACCCTAAGAGTCCCCGAAGAATA	[77, 3, 77, 4, 76, 3, 76, 4]
175	GGATATTCTCCGCCGGCAAGTAAGCAGGGCGT	[77, 5, 77, 6, 78, 5, 78, 6]
176	AAAAGCAGTCAACCGGCGACGAGTAACGGCAT	[77, 7, 77, 8, 76, 7, 76, 8]
177	CTTCCGACTTTTTATAACTGCTGGGTGGGCGC	[77, 9, 77, 10, 78, 9, 78, 10]
178	CACTGTGTGGACGTTTGAGCAATAGAAATTGA	[79, 3, 79, 4, 78, 3, 78, 4]
179	ATCGGCTCAAGACGTAGAATGAGCGACGCACC	[79, 7, 79, 8, 78, 7, 78, 8]
180	TGTCCAAGACAACATGACTACAGTTGACCGGG	[81, 1, 81, 2, 80, 1, 80, 2]
181	GGTGCAAAAAGCGCAACGGCGCCGATTGATCA	[81, 3, 81, 4, 82, 3, 82, 4]
182	ATGGTTAAGTATAGGTCCTTGTTACGATGGCA	[81, 5, 81, 6, 80, 5, 80, 6]
183	GCAATATTCGGACCTTCCACCGGGTCTGTTCC	[81, 7, 81, 8, 82, 7, 82, 8]
184	ATTGAGCAGGAATACTCAGCCTTCACCGCGGG	[81, 9, 81, 10, 80, 9, 80, 10]
185	TCTCTATCGTACACATCTCTGGCTTTACCAAG	[83, 1, 83, 2, 82, 1, 82, 2]
186	CCACTAACGGGACAGTCGGAACATGCACGATG	[83, 3, 83, 4, 84, 3, 84, 4]
187	TCCGGGATGGGTGCCACCGCAACCTTTACGTG	[83, 5, 83, 6, 82, 5, 82, 6]
188	TTTAGGGAATACAAGATTCAGCAGCCTTACTC	[83, 7, 83, 8, 84, 7, 84, 8]
189	AGCAATATCACGGACAGGAACAACGGGTGTCA	[83, 9, 83, 10, 82, 9, 82, 10]
190	GTCCAAGTAAGGGCAATCGTATTTGATGCCCG	[85, 1, 85, 2, 84, 1, 84, 2]
191	TGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[85, 3, 85, 4, 86, 3, 86, 4]
192	CCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[85, 5, 85, 6, 84, 5, 84, 6]
193	CTCAGTTTAAGATTCAACAGGACGATGTTCTC	[85, 7, 85, 8, 86, 7, 86, 8]
194	ACCTCTTCAGGTCTTAATTTTGGCGGAACGGG	[85, 9, 85, 10, 84, 9, 84, 10]
195	AAGCATCGCGTCCTTGGCATCCGCTCGCATGG	[87, 1, 87, 2, 86, 1, 86, 2]
196	TTAAGATGTGTGGCAATACAATATAGTTATAT	[87, 3, 87, 4, 88, 3, 88, 4]
197	CCTCATGTAACGGTCGTATCCGCCTATCTCGC	[87, 5, 87, 6, 86, 5, 86, 6]
198	AGAGTTCTACCAGCCAAGAGAGTCGCAGCCCT	[87, 7, 87, 8, 88, 7, 88, 8]
199	TCATCGTAGGACATCACATCTCTGCCTCGACG	[87, 9, 87, 10, 86, 9, 86, 10]
200	TACGCGGGCAATGGAGGTGGGCGCAAACCGTT	[89, 1, 89, 2, 88, 1, 88, 2]
201	TTCAACTTTTAAACAGTTGAAGGTTTGAACCA	[89, 5, 89, 6, 88, 5, 88, 6]
202	TTCCTTGATTCCCAGGTTATTGAGACCTATCT	[89, 9, 89, 10, 88, 9, 88, 10]
203	ATCACGCTCTACAGCACCGTGATGAGACTTCG	[91, 1, 91, 2, 92, 1, 92, 2]
204	TGCGTTCGACGCCTGCTTCCGTGGCCCCGCAA	[91, 3, 91, 4, 90, 3, 90, 4]
205	CCGCATCGCTGAGGGGGAGGGGATAGCATACC	[91, 5, 91, 6, 92, 5, 92, 6]
206	CAGCACAAACCCTCGCGGGTGATCGGCCGTTA	[91, 7, 91, 8, 90, 7, 90, 8]
207	GTCGTAATGTGCTGTGTTCTATCGATCTCCTT	[91, 9, 91, 10, 92, 9, 92, 10]
208	CGCAACAAAATGCAAAACCATGTTGAAATTGT	[93, 1, 93, 2, 94, 1, 94, 2]
209	GCTGCCGACACGAGGCACACGGCGTCAGCGAT	[93, 3, 93, 4, 92, 3, 92, 4]
210	CGCATCTACCTAGCAATAAGACAAGTAGAACA	[93, 5, 93, 6, 94, 5, 94, 6]
211	TTGTGTTGGGTGTAGTGGATTCATTTAACTAC	[93, 7, 93, 8, 92, 7, 92, 8]
212	CGATGTTATTACCTAATACCATGAGGAGCAGG	[93, 9, 93, 10, 94, 9, 94, 10]
213	GATTGACTAATACATTTATGAATCCAGACACG	[95, 1, 95, 2, 96, 1, 96, 2]
214	AGGTACACTCCGGGGAGTAGTCTGTAGGGTGA	[95, 3, 95, 4, 94, 3, 94, 4]
215	TATACCCGGCAAGCTCGTCAAGTGGTATAGCC	[95, 5, 95, 6, 96, 5, 96, 6]
216	CGCAGCACTACGCTCCAAATACTGCCCACGGT	[95, 7, 95, 8, 94, 7, 94, 8]
217	ATTAGGCACTCCATAAAGGCGTCTCAGGAAGT	[95, 9, 95, 10, 96, 9, 96, 10]
218	GTTTTGTGCTCGACAATACCCTCCCTCTGCGG	[97, 1, 97, 2, 98, 1, 98, 2]
219	CGCGACCACATTGGCACTATAAGACTACTCCA	[97, 3, 97, 4, 96, 3, 96, 4]
220	ACCACCTGTTGACCGATCCAGAGCTAAGAAAA	[97, 5, 97, 6, 98, 5, 98, 6]
221	CCTCGTGATATCAGAGGTCGTAACTCGGTCGC	[97, 7, 97, 8, 96, 7, 96, 8]
222	GGTATGCATTGGCTCAAAACGTCTAGTATTTC	[97, 9, 97, 10, 98, 9, 98, 10]
223	TAGACTCAGCGTGAGGTATGGGCCTCATCCCC	[99, 3, 99, 4, 98, 3, 98, 4]
224	TGACGCAGCATGTATGTACTCATCAGCACCTA	[99, 7, 99, 8, 98, 7, 98, 8]
225	TAACCTGGCCATCCCTCGAGGGTTTGTTTCAC	[0, 2, 0, 3, 19, 2, 19, 3]
226	GTATGATTTCCGGTTTGGGCACTCGTATAACC	[0, 6, 0, 7, 19, 6, 19, 7]
227	TTTTTTTTAAGTGTGTAGCTATGGTTTTTTTT	[0, 10, 0, 0, 19, 10, 0, 0]
228	ACCCGAGCGCGGCCATGTTATTTCTATTTCGA	[2, 2, 2, 3, 17, 2, 17, 3]
229	CACTGAGTCGCTCAGCCGGAACAGCCAAGGCA	[2, 6, 2, 7, 17, 6, 17, 7]
230	TTTTTTTTCAGTCTCTGCGGAACCTTTTTTTT	[2, 10, 0, 0, 17, 10, 0, 0]
231	ACAGGCGGACAGCTAAGAACTTGAATCATGGT	[4, 2, 4, 3, 15, 2, 15, 3]
232	TCAGAAACTTCCAGCTTGACGATCCGCAGGGT	[4, 6, 4, 7, 15, 6, 15, 7]
233	TTTTTTTTGTGGGACGGTATTACTTTTTTTTT	[4, 10, 0, 0, 15, 10, 0, 0]

Strand	Sequence	Voxel
234	GAGGGAACTGCGATCATTAGTGAGGTTTCCTT	[6, 2, 6, 3, 13, 2, 13, 3]
235	CCAGGTCAAGTTTTGGCTTACATCGCCCCCTA	[6, 6, 6, 7, 13, 6, 13, 7]
236	TTTTTTTTTTATGCTAAATTCTCATTTTTTTT	[6, 10, 0, 0, 13, 10, 0, 0]
237	AGATGTTCTCAGTCGTCGAGTCGTAACCTCGT	[8, 2, 8, 3, 11, 2, 11, 3]
238	ATAATAGTTTAATTTGAGTTTCCTCAGAAGTG	[8, 6, 8, 7, 11, 6, 11, 7]
239	TTTTTTTTCACCCCCGAACTACTGTTTTTTTT	[8, 10, 0, 0, 11, 10, 0, 0]
240	GCCGGAGTTTTTTTTTTTTTTTTTGGGGTCGT	[0, 0, 10, 1, 0, 0, 9, 1]
241	CCCAGTGACCAAGGAGGGAATGCAACACCGGC	[10, 2, 10, 3, 29, 2, 29, 3]
242	CTAATATAGTATAGCGCTCGACGGAGGATATG	[10, 4, 10, 5, 9, 4, 9, 5]
243	TCTTTCTCTGGGTAAGATGTGGTTCCATTACG	[10, 6, 10, 7, 29, 6, 29, 7]
244	CACGCGAGCCACCGCAATCGACTAGGAAGGAC	[10, 8, 10, 9, 9, 8, 9, 9]
245	TTTTTTTTAGACGTGCACTTTCTGTTTTTTTT	[10, 10, 0, 0, 29, 10, 0, 0]
246	AACAGTCCTTTTTTTTTTTTTTTTGGGGATGA	[0, 0, 12, 1, 0, 0, 7, 1]
247	GATAGCTGCTATGTAGATCTGGTCATTGAAAG	[12, 2, 12, 3, 27, 2, 27, 3]
248	GACAGGGAGAATATGGAAAGACTGTGCGAGAT	[12, 4, 12, 5, 7, 4, 7, 5]
249	GGTCAGAAGCTCGACAAGCTCTGTTCCTATGA	[12, 6, 12, 7, 27, 6, 27, 7]
250	CCCCCAAGTGAGCTTTGAGTCGGCCTGACAGA	[12, 8, 12, 9, 7, 8, 7, 9]
251	TTTTTTTTGTATATCAGGCGGTACTTTTTTTT	[12, 10, 0, 0, 27, 10, 0, 0]
252	TCACATTATTTTTTTTTTTTTTTTCTCCCGGT	[0, 0, 14, 1, 0, 0, 5, 1]
253	TCATCCGGACGCTTAGCGCCCACTCTATGAAC	[14, 2, 14, 3, 25, 2, 25, 3]
254	GGCGCATATTCATAACACACTGACACCCTTTT	[14, 4, 14, 5, 5, 4, 5, 5]
255	CCTATCTTGGATATCGCAGCCCATTACCCACA	[14, 6, 14, 7, 25, 6, 25, 7]
256	AGCTGTTCGCTGTGACCAGAGCCGAGGTCAGG	[14, 8, 14, 9, 5, 8, 5, 9]
257	TTTTTTTTCTGCTCTAACATGTAATTTTTTTT	[14, 10, 0, 0, 25, 10, 0, 0]
258	CATAGGTATTTTTTTTTTTTTTTTTACTCTGA	[0, 0, 16, 1, 0, 0, 3, 1]
259	CTAACGATTCCCCGTCTCCAAACCAAATTGTG	[16, 2, 16, 3, 23, 2, 23, 3]
260	AGATTGTATCGAGAAAGCACCGAAAAAAGCCC	[16, 4, 16, 5, 3, 4, 3, 5]
261	ATCAGTTATTACTTCGTGCCCATGGTGACACG	[16, 6, 16, 7, 23, 6, 23, 7]
262	GTCCAACAAGGAGAAAAACAGCATGGCTTCAT	[16, 8, 16, 9, 3, 8, 3, 9]
263	TTTTTTTTACGCTTACGACGAGGTTTTTTTTT	[16, 10, 0, 0, 23, 10, 0, 0]
264	CTCGTGCTTTTTTTTTTTTTTTTTATAGGACA	[0, 0, 18, 1, 0, 0, 1, 1]
265	AGGTGGCCTGATAATCTCCCACGTACAACATA	[18, 2, 18, 3, 21, 2, 21, 3]
266	CTACCGCTCCCGAGCCAGTTCGTATATGCTCT	[18, 4, 18, 5, 1, 4, 1, 5]
267	CTTGACGAGTGGGAGGTAATTAGTACGGCCAC	[18, 6, 18, 7, 21, 6, 21, 7]
268	GACCATAGAAAGCAGGGATACTTTGAAAAGGC	[18, 8, 18, 9, 1, 8, 1, 9]
269	TTTTTTTTATATTAAGGAGTGCAATTTTTTTT	[18, 10, 0, 0, 21, 10, 0, 0]
270	TCAGACGCTTTTTTTTTTTTTTTTCTTGCCTC	[0, 0, 20, 1, 0, 0, 19, 1]
271	AATGCACAACCATACCAACGGCGAATAAAAGC	[20, 2, 20, 3, 39, 2, 39, 3]
272	CGTGCACATCACGTGGCCTCTCCCTGCCGAGG	[20, 4, 20, 5, 19, 4, 19, 5]
273	AGTACGACATCCCTGAACGGGGTTGGGGCATA	[20, 6, 20, 7, 39, 6, 39, 7]
274	AGTATAGTTTGCTTTAGAGGCGGCATCGGGTT	[20, 8, 20, 9, 19, 8, 19, 9]
275	TTTTTTTTAGTGCGTACCAGTCCCTTTTTTTT	[20, 10, 0, 0, 39, 10, 0, 0]
276	GCAATTGCTTTTTTTTTTTTTTTTTCTGGTC	[0, 0, 22, 1, 0, 0, 17, 1]
277	CACTTGAGGCAACCTAGGTAGGTTCCGCCGCA	[22, 2, 22, 3, 37, 2, 37, 3]
278	CAGGCTACACTGTTAGGGTACACGGCCTGTTT	[22, 4, 22, 5, 17, 4, 17, 5]
279	ATGTAGCAGCGCGCCTTCAAGGCCCGACATCC	[22, 6, 22, 7, 37, 6, 37, 7]
280	TATGGTTTAGAAACTGTAGGTTAAATCAGCTA	[22, 8, 22, 9, 17, 8, 17, 9]
281	TTTTTTTTGCCCTCAGTGTACTACTTTTTTTT	[22, 10, 0, 0, 37, 10, 0, 0]
282	AATGATTATTTTTTTTTTTTTTTTGCGTATCC	[0, 0, 24, 1, 0, 0, 15, 1]
283	CGAATCAAGGAGCACTTCGCAACGAGGACGAT	[24, 2, 24, 3, 35, 2, 35, 3]
284	ACTGTACGTATGTGATGTCGCATATATCCCAA	[24, 4, 24, 5, 15, 4, 15, 5]
285	ATATCAAGGGTTGGTTCGGCATGCGGTCTAAA	[24, 6, 24, 7, 35, 6, 35, 7]
286	CATATATTGTCCCTCAGCTATGCTAGGTAGAG	[24, 8, 24, 9, 15, 8, 15, 9]
287	TTTTTTTTGACCAAGTTGATTAGCTTTTTTTT	[24, 10, 0, 0, 35, 10, 0, 0]
288	TGGTGGTTTTTTTTTTTTTTTTTGAAGGAGT	[0, 0, 26, 1, 0, 0, 13, 1]
289	CTAATGAAGAGGATGTACTTGGGATTAGGATC	[26, 2, 26, 3, 33, 2, 33, 3]
290	CGACCATGTTCCGCCCTGGAGTTAGATGTCCG	[26, 4, 26, 5, 13, 4, 13, 5]
291	CTCGGCCCCAGTAGAAAGCCTACGTCCGTGCA	[26, 6, 26, 7, 33, 6, 33, 7]
292	AATAAGGAGCCCAGCGGTTTGAACCTGTTTAC	[26, 8, 26, 9, 13, 8, 13, 9]
293	TTTTTTTTCGATCGCCTCTTGCTTTTTTTTT	[26, 10, 0, 0, 33, 10, 0, 0]
294	GCGGCCATTTTTTTTTTTTTTTTTTCGTTCGA	[0, 0, 28, 1, 0, 0, 11, 1]
295	TACTAAAATAAGCCACAGAGTATAGATGGCCG	[28, 2, 28, 3, 31, 2, 31, 3]
296	GGAGGCGGTGGGTGTTCCAAGTCAGCCCCTCG	[28, 4, 28, 5, 11, 4, 11, 5]
297	TAGTTTGATGACTACCGATTGCCGTAAATGGT	[28, 6, 28, 7, 31, 6, 31, 7]
298	TTTTTGTCGCTGTATTGTCGCTGGCTAATCAC	[28, 8, 28, 9, 11, 8, 11, 9]
299	TTTTTTTTCAAATCTGTTGGCTGATTTTTTTT	[28, 10, 0, 0, 31, 10, 0, 0]
300	CCCCGGTATTTTTTTTTTTTTTTTCAAACATT	[0, 0, 30, 1, 0, 0, 29, 1]
301	TAGTCCACGCTGTTCAACACTAATCCGGGTAT	[30, 2, 30, 3, 49, 2, 49, 3]
302	CCGCACGTGCGCTTTCCGTCTTAAACGACTTT	[30, 4, 30, 5, 29, 4, 29, 5]
303	CCTACTCTAGGAGAAGCACGACGACGGGAATT	[30, 6, 30, 7, 49, 6, 49, 7]
304	GGCGATACGCACTGCCTTCCGCGTGGGTATAG	[30, 8, 30, 9, 29, 8, 29, 9]
305	TTTTTTTTATACACAACAGAGCGTTTTTTTTT	[30, 10, 0, 0, 49, 10, 0, 0]
306	GCTCGACCTTTTTTTTTTTTTTTTTCTAGCAG	[0, 0, 32, 1, 0, 0, 27, 1]
307	CAGAAACTAGTGGAGCTGTCGTATAATGGGTA	[32, 2, 32, 3, 47, 2, 47, 3]
308	GAGGTAGCAGGTCTACGTGTCAAGGGAAGTTC	[32, 4, 32, 5, 27, 4, 27, 5]
309	ACTCTCGTGCGTATCGTCCTCGGTAGGGTGTA	[32, 6, 32, 7, 47, 6, 47, 7]
310	CGAGATGTATGCCAGCTCATACGACAAGAACT	[32, 8, 32, 9, 27, 8, 27, 9]
311	TTTTTTTTCACCTTTCACCGAAGCTTTTTTTT	[32, 10, 0, 0, 47, 10, 0, 0]
312	TTCCTTTTTTTTTTTTTTTTTTTTGCCGATCT	[0, 0, 34, 1, 0, 0, 25, 1]
313	CGTCGTCTTCTCATAAAAACCGTTATGGTTTC	[34, 2, 34, 3, 45, 2, 45, 3]

Strand	Sequence	Voxel
314	TGGATATCAGGAGATCTAACTAAGTGGGGCAC	[34, 4, 34, 5, 25, 4, 25, 5]
315	TCAAGCTGATGTACCGAACAGTGAGCTATTCG	[34, 6, 34, 7, 45, 6, 45, 7]
316	CCCCAAGTGTCTTGCGGGTACACCTCACTTGC	[34, 8, 34, 9, 25, 8, 25, 9]
317	TTTTTTTTATCTTAGTAATTCATATTTTTTTT	[34, 10, 0, 0, 45, 10, 0, 0]
318	CGAATCGCTTTTTTTTTTTTTTTTCTAATCCC	[0, 0, 36, 1, 0, 0, 23, 1]
319	TCGTACAGGCTACATGGCAGTCCGATGTTGGG	[36, 2, 36, 3, 43, 2, 43, 3]
320	TATTTGACGGACTCATCCTACAATAGCTTTAT	[36, 4, 36, 5, 23, 4, 23, 5]
321	TGTGGGCTAGCACGCATTTCAACTTCTTGCCA	[36, 6, 36, 7, 43, 6, 43, 7]
322	CTAGGACCTGTCAAGTGTGCAGCTATCCGAAT	[36, 8, 36, 9, 23, 8, 23, 9]
323	TTTTTTTTTCTGCAACTATCCTTTTTTTTTTT	[36, 10, 0, 0, 43, 10, 0, 0]
324	ACTACGCTTTTTTTTTTTTTTTTTTCGGGCAC	[0, 0, 38, 1, 0, 0, 21, 1]
325	TACGCTATTAACCCTTTAAGCGCGCACCCGTT	[38, 2, 38, 3, 41, 2, 41, 3]
326	GTGGGAGAGTCCGGTCGTGGGTAAGTTATGGA	[38, 4, 38, 5, 21, 4, 21, 5]
327	AGAACCGGTTGGACGGGCCTGGCCCTACTTCA	[38, 6, 38, 7, 41, 6, 41, 7]
328	CCATGAAAACTCTAGCCGGTGAGATTCCCCAG	[38, 8, 38, 9, 21, 8, 21, 9]
329	TTTTTTTTCATCGCCGGATGCTATTTTTTTTT	[38, 10, 0, 0, 41, 10, 0, 0]
330	TACATACGTTTTTTTTTTTTTTTTCGCGAGCA	[0, 0, 40, 1, 0, 0, 39, 1]
331	TACTTGAATCGCGTCGCCACAAAGGGTGTCAG	[40, 2, 40, 3, 59, 2, 59, 3]
332	GCGCCAGATCACCGAACGTACGCATACGATTT	[40, 4, 40, 5, 39, 4, 39, 5]
333	CGGGGAGGGTCCTCACCTCTCCGCCATATTGT	[40, 6, 40, 7, 59, 6, 59, 7]
334	AGCAGGTCTTGTAATGACGACTCTCATCTGAT	[40, 8, 40, 9, 39, 8, 39, 9]
335	TTTTTTTTTGTCGAAAATCGCTCATTTTTTTT	[40, 10, 0, 0, 59, 10, 0, 0]
336	AGTTACTGTTTTTTTTTTTTTTTTGCTTAGGG	[0, 0, 42, 1, 0, 0, 37, 1]
337	AATTCATCGTTAATGCGTGCATCTACATGGTC	[42, 2, 42, 3, 57, 2, 57, 3]
338	TGCTTATCCCGAACGAGGAACTTGATGTCATG	[42, 4, 42, 5, 37, 4, 37, 5]
339	AAAGCTTCGGTCCTTCAATTAGAAGTCGAATT	[42, 6, 42, 7, 57, 6, 57, 7]
340	ATTAATACGGCTAGAATGCTGGTGAAAGATAC	[42, 8, 42, 9, 37, 8, 37, 9]
341	TTTTTTTTGGCGCGGCGTGCGCTTTTTTTTTT	[42, 10, 0, 0, 57, 10, 0, 0]
342	AGACACTATTTTTTTTTTTTTTTTTGCGAAAAT	[0, 0, 44, 1, 0, 0, 35, 1]
343	CGTCACTTGACTTGATTGTTTTCGCTAGGTGG	[44, 2, 44, 3, 55, 2, 55, 3]
344	GCTTCTCGGCTGAGGACTCGTTCGGGTGCTAC	[44, 4, 44, 5, 35, 4, 35, 5]
345	GCCTTGTCATCTATACCGGGTGTCCCTCAAGC	[44, 6, 44, 7, 55, 6, 55, 7]
346	GAGGAGCGCTGAAGCGGCGTTAAACTGCCCAG	[44, 8, 44, 9, 35, 8, 35, 9]
347	TTTTTTTTTAATTCCCTTATCATGTTTTTTTT	[44, 10, 0, 0, 55, 10, 0, 0]
348	GAGGTGGTTTTTTTTTTTTTTTTTTTACTTGC	[0, 0, 46, 1, 0, 0, 33, 1]
349	ACCCGAGATGACATCGTCTGATGGATCTCAGC	[46, 2, 46, 3, 53, 2, 53, 3]
350	CCCATGGACCCGCTCGCCACATGAACCGCTCT	[46, 4, 46, 5, 33, 4, 33, 5]
351	GCCTGTGATGGTGAATACTCGCTAGTCAACTT	[46, 6, 46, 7, 53, 6, 53, 7]
352	ACCAGTTCCGTAGTTCGTAAACGATAGGTTTC	[46, 8, 46, 9, 33, 8, 33, 9]
353	TTTTTTTTGGTGATCTATTCGGATTTTTTTTT	[46, 10, 0, 0, 53, 10, 0, 0]
354	AGCCGAACTTTTTTTTTTTTTTTTCCCCCGCA	[0, 0, 48, 1, 0, 0, 31, 1]
355	TCACAGTGCACAAGGGGATTGGGTATGAAAAC	[48, 2, 48, 3, 51, 2, 51, 3]
356	CCCCGGAAGTGGAAATGCCACTACGATATTCA	[48, 4, 48, 5, 31, 4, 31, 5]
357	GGAGAATCTTGATTTACCGAATTATGGTGTGT	[48, 6, 48, 7, 51, 6, 51, 7]
358	GCTCTAAAGCTGCCATTCTGGTTCCCCACTGT	[48, 8, 48, 9, 31, 8, 31, 9]
359	TTTTTTTTACGGCCGGCAATTCCCTTTTTTTT	[48, 10, 0, 0, 51, 10, 0, 0]
360	CCGAGATTTTTTTTTTTTTTTTTTGCTGGGT	[0, 0, 50, 1, 0, 0, 49, 1]
361	TCTGATATTAAGGAATCGGACGGAAAACTACA	[50, 2, 50, 3, 69, 2, 69, 3]
362	CTGGTTTTCTGTGCTCCCCGAGTCCAGCATTA	[50, 4, 50, 5, 49, 4, 49, 5]
363	CCGTAATCGATTGCGCGTAATGGTCGTAGTGG	[50, 6, 50, 7, 69, 6, 69, 7]
364	TGCCATGACTAAGCCGTATAAAGCGTTTGGAA	[50, 8, 50, 9, 49, 8, 49, 9]
365	TTTTTTTTTTCGTTTAGAACGATATTTTTTTT	[50, 10, 0, 0, 69, 10, 0, 0]
366	CCCTCCACTTTTTTTTTTTTTTTTTGCCACC	[0, 0, 52, 1, 0, 0, 47, 1]
367	ACCAATCAAATAACTTCTGTATGAATCTATGT	[52, 2, 52, 3, 67, 2, 67, 3]
368	GATAATACTACACTAATGCGGCGCCCTGCGAA	[52, 4, 52, 5, 47, 4, 47, 5]
369	TTCTGCTAATTGACGCCCACCTTATTACGAGT	[52, 6, 52, 7, 67, 6, 67, 7]
370	CTTCGTCAGCAAATTATACGAGCTAGACCTGT	[52, 8, 52, 9, 47, 8, 47, 9]
371	TTTTTTTTACGGTATTTCGTATTATTTTTTTT	[52, 10, 0, 0, 67, 10, 0, 0]
372	AAGCCTGATTTTTTTTTTTTTTTTGGTCCGGG	[0, 0, 54, 1, 0, 0, 45, 1]
373	AGGAGGTGTGACGGAGCTAGAGCTACTCGCCG	[54, 2, 54, 3, 65, 2, 65, 3]
374	CTCCCACAACCCTAACATAGAATATAGGTCAC	[54, 4, 54, 5, 45, 4, 45, 5]
375	GGACTATTTAATGATCTGTACCATTATCAAAG	[54, 6, 54, 7, 65, 6, 65, 7]
376	AGTAATTGCATTTCTTCGCGGAACTTTAAACC	[54, 8, 54, 9, 45, 8, 45, 9]
377	TTTTTTTTGTACAAATTTACGCCCTTTTTTTT	[54, 10, 0, 0, 65, 10, 0, 0]
378	CGTTACTGTTTTTTTTTTTTTTTTTCCAGAAT	[0, 0, 56, 1, 0, 0, 43, 1]
379	TACTGGAGTCGCTTTTTAACACTTGGTCTCGA	[56, 2, 56, 3, 63, 2, 63, 3]
380	GATGAACAAATGGCAAAGCACGTAGAGATAAT	[56, 4, 56, 5, 43, 4, 43, 5]
381	ACCATTGTGGGTGACCATAGAATGCTATTGAG	[56, 6, 56, 7, 63, 6, 63, 7]
382	CAGTGCGGCAAAAGATGTTATACAGGTCCGGC	[56, 8, 56, 9, 43, 8, 43, 9]
383	TTTTTTTTTCAGATTCTCCTGTCGTTTTTTTT	[56, 10, 0, 0, 63, 10, 0, 0]
384	AGTGTCTCTTTTTTTTTTTTTTTTTTACTTGG	[0, 0, 58, 1, 0, 0, 41, 1]
385	GGGAGCTGAGTAAATGGGTAGAAGGAACTCTG	[58, 2, 58, 3, 61, 2, 61, 3]
386	TTATATTAACTTACCTCACTCGCACTTAGATC	[58, 4, 58, 5, 41, 4, 41, 5]
387	ACTTAATACGCGGACAGCGGTAACATCACATA	[58, 6, 58, 7, 61, 6, 61, 7]
388	CAGGCAAGCGGCGAAAACTTACGTGTAGTGTC	[58, 8, 58, 9, 41, 8, 41, 9]
389	TTTTTTTTTATTGGCCGGAGTCATTTTTTTTT	[58, 10, 0, 0, 61, 10, 0, 0]
390	GAATTATATTTTTTTTTTTTTTTATAGTGGA	[0, 0, 60, 1, 0, 0, 59, 1]
391	ATTACTGGCACAGGATCTGGTCTCAAACGTCC	[60, 2, 60, 3, 79, 2, 79, 3]
392	AATGTTCTTTCAGGCTACCTATATAGCCATTT	[60, 4, 60, 5, 59, 4, 59, 5]
393	GCAGGGTGCGAACCCGAACTCATATACGTCTT	[60, 6, 60, 7, 79, 6, 79, 7]

Strand	Sequence	Voxel
394	GAGCTCACCCGTCGATCGACCATTGGTCATTG	[60, 8, 60, 9, 59, 8, 59, 9]
395	TTTTTTTTCCACGTAGAATTATCATTTTTTTT	[60, 10, 0, 0, 79, 10, 0, 0]
396	AGTTAGATTTTTTTTTTTTTTTTTGAGAACCG	[0, 0, 62, 1, 0, 0, 57, 1]
397	GCCGATGGAAAAATCACTGCTCCTTTAGGGTC	[62, 2, 62, 3, 77, 2, 77, 3]
398	CTAGTAACTCAATTTTTACCGAGCAAAGTATT	[62, 4, 62, 5, 57, 4, 57, 5]
399	CCTAGGCGCAAGGCGCGAATATCCCCGGTTGA	[62, 6, 62, 7, 77, 6, 77, 7]
400	CGTTTATTGAGGTTAGCGCTGATCCGGTTTAC	[62, 8, 62, 9, 57, 8, 57, 9]
401	TTTTTTTTTTAAGTATGTCGGAAGTTTTTTTT	[62, 10, 0, 0, 77, 10, 0, 0]
402	AGTCTACGTTTTTTTTTTTTTTTTTATGCCCT	[0, 0, 64, 1, 0, 0, 55, 1]
403	AAGAGCAATTATGTGACCCCTTCGTTTAAAGA	[64, 2, 64, 3, 75, 2, 75, 3]
404	CTGAAGGAAGACGTCCTGGCTCGTACCCATCC	[64, 4, 64, 5, 55, 4, 55, 5]
405	AGGGTTCATAGGCGGAAGATGCGATTTGTACG	[64, 6, 64, 7, 75, 6, 75, 7]
406	TAGGCAAGCGATAGTAGAAAACTGCACAACTT	[64, 8, 64, 9, 55, 8, 55, 9]
407	TTTTTTTTGGGCACGATTACCTGCTTTTTTTT	[64, 10, 0, 0, 75, 10, 0, 0]
408	TAGGTGGTTTTTTTTTTTTTTTTTCAGCTCCA	[0, 0, 66, 1, 0, 0, 53, 1]
409	CCTAGAACTAAGAACACCCGACAAGGCAGCAG	[66, 2, 66, 3, 73, 2, 73, 3]
410	TGGTCGGTCCCCGCTCCAACATTTTATCTCTT	[66, 4, 66, 5, 53, 4, 53, 5]
411	TGGGAGAATAGCGCCTGCGCGGGCTGACTCTT	[66, 6, 66, 7, 73, 6, 73, 7]
412	GGTATTTTTATCCATTTGATCCTGCGTACCTT	[66, 8, 66, 9, 53, 8, 53, 9]
413	TTTTTTTTCCGGCGAATGGAATACTTTTTTTT	[66, 10, 0, 0, 73, 10, 0, 0]
414	GGTTCGTGTTTTTTTTTTTTTTTTTGCTCGTAT	[0, 0, 68, 1, 0, 0, 51, 1]
415	GCCCGACGGATGCGTTGATGATATGGTAATCC	[68, 2, 68, 3, 71, 2, 71, 3]
416	ACCTAATGCGAAGGTCGCCAGTAGGCCGGGCT	[68, 4, 68, 5, 51, 4, 51, 5]
417	GATATCGCTATAATAGGCTGATGCCCTGCTTC	[68, 6, 68, 7, 71, 6, 71, 7]
418	ACAGTGCCCGCATTCACCATATGACTTGTACT	[68, 8, 68, 9, 51, 8, 51, 9]
419	TTTTTTTTGCGCCGTGTATCGTCCTTTTTTTT	[68, 10, 0, 0, 71, 10, 0, 0]
420	ACTGAAAGTTTTTTTTTTTTTTTTGGCTCCAA	[0, 0, 70, 1, 0, 0, 69, 1]
421	TATTGAAGACACTCACCCCGCGTATCGGGACA	[70, 2, 70, 3, 89, 2, 89, 3]
422	AGGTCATCCTACAACTGCACTAAGCGCCTCCG	[70, 4, 70, 5, 69, 4, 69, 5]
423	TTACACATAGGCTGCGAAGTTGAATCGTCTAC	[70, 6, 70, 7, 89, 6, 89, 7]
424	GCTGTGCCGCCCACCACGTCCCATATTTTATA	[70, 8, 70, 9, 69, 8, 69, 9]
425	TTTTTTTTATCGCCAATCAAGGAATTTTTTTT	[70, 10, 0, 0, 89, 10, 0, 0]
426	GGTCAGACTTTTTTTTTTTTTTTTAGACAATG	[0, 0, 72, 1, 0, 0, 67, 1]
427	CAAAGGGCATGTGAAGCGATGCTTTTGCCACA	[72, 2, 72, 3, 87, 2, 87, 3]
428	AGGATGGCGTGAACCCTAACAGCAGGTCGGCC	[72, 4, 72, 5, 67, 4, 67, 5]
429	TTTACGCTAAGCGGGTACATGAGGTGGCTGGT	[72, 6, 72, 7, 87, 6, 87, 7]
430	GTGGCGCTGTCAAGACATACCCTATTGTCGTT	[72, 8, 72, 9, 67, 8, 67, 9]
431	TTTTTTTTTTGGGGACTACGATGATTTTTTTT	[72, 10, 0, 0, 87, 10, 0, 0]
432	CACTCCAATTTTTTTTTTTTTTTTGTTCCCCT	[0, 0, 74, 1, 0, 0, 65, 1]
433	ACGGGACATTGTTCATACTTGGACAAAGTGAG	[74, 2, 74, 3, 85, 2, 85, 3]
434	ACATTACTGCCCTAACAGTGTTTTATGCTGGG	[74, 4, 74, 5, 65, 4, 65, 5]
435	AGTAACGCGGCACTAGCGTGACGGTGAATCTT	[74, 6, 74, 7, 85, 6, 85, 7]
436	CATACCGTAGCGGGTCATCATGAGTTTTTTGT	[74, 8, 74, 9, 65, 8, 65, 9]
437	TTTTTTTTCTTCTTTCGAAGAGGTTTTTTTTT	[74, 10, 0, 0, 85, 10, 0, 0]
438	CTGCTGTATTTTTTTTTTTTTTTTCTCGGCAT	[0, 0, 76, 1, 0, 0, 63, 1]
439	GGGGACTCGCGTAGCTGATAGAGAACTGTCCC	[76, 2, 76, 3, 83, 2, 83, 3]
440	CTGAATGGTATTCTTCTTCTGAATCGCGGGCT	[76, 4, 76, 5, 63, 4, 63, 5]
441	ACTCGTCGCCTGTGAAATCCCGGATCTTGTAT	[76, 6, 76, 7, 83, 6, 83, 7]
442	AGACATAGATGCCGTTCGTAGGAGTTGACCTA	[76, 8, 76, 9, 63, 8, 63, 9]
443	TTTTTTTTCCTCAGAAATATTGCTTTTTTTTT	[76, 10, 0, 0, 83, 10, 0, 0]
444	GTGCCGTATTTTTTTTTTTTTTTTCATTAAGA	[0, 0, 78, 1, 0, 0, 61, 1]
445	TATTGCTCAGGCCTCGCTTGGACATTGCGCTT	[78, 2, 78, 3, 81, 2, 81, 3]
446	CTTACTTGTCAATTTCCTTCCATGTAATTATA	[78, 4, 78, 5, 61, 4, 61, 5]
447	GCTCATTCACGCCCTGTTAACCATAAGGTCCG	[78, 6, 78, 7, 81, 6, 81, 7]
448	CCAGCAGTGGTGCGTCGACCACGTCCTCTCCT	[78, 8, 78, 9, 61, 8, 61, 9]
449	TTTTTTTTGCGCCCACTGCTCAATTTTTTTTT	[78, 10, 0, 0, 81, 10, 0, 0]
450	ACTGTAGTTTTTTTTTTTTTTTTTCCGGACGC	[0, 0, 80, 1, 0, 0, 79, 1]
451	CTCCGCATCCCGGTCACGCGAGACCCTCACGC	[80, 2, 80, 3, 99, 2, 99, 3]
452	TAACAAGGGCCTACCTACACAGTGTGCAGGGT	[80, 4, 80, 5, 79, 4, 79, 5]
453	GCGACGCTTGCCATCGTTTTAACACATACATG	[80, 6, 80, 7, 99, 6, 99, 7]
454	GAAGGCTGCACTTTAAGAGCCGATGGAGTGTT	[80, 8, 80, 9, 79, 8, 79, 9]
455	TTTTTTTTCCCGCGGTCCGAAGTTTTTTTTTT	[80, 10, 0, 0, 99, 10, 0, 0]
456	AGCCAGAGTTTTTTTTTTTTTTTTGACCCAAA	[0, 0, 82, 1, 0, 0, 77, 1]
457	CGGCGCCGCTTGGTAACACAAAACTGCCAATG	[82, 2, 82, 3, 97, 2, 97, 3]
458	GGTTGCGGTGATCAATATCGGATTCCGGCGGA	[82, 4, 82, 5, 77, 4, 77, 5]
459	CCCGGTGGCACGTAAACAGGTGGTCTCTGATA	[82, 6, 82, 7, 97, 6, 97, 7]
460	GTTGTTCCGGAACAGACTGCTTTTTATAAAAA	[82, 8, 82, 9, 77, 8, 77, 9]
461	TTTTTTTTTGACACCCTGCATACCTTTTTTTT	[82, 10, 0, 0, 97, 10, 0, 0]
462	AAATACGATTTTTTTTTTTTTTTTGACTCGAG	[0, 0, 84, 1, 0, 0, 75, 1]
463	ATGTTCCGCGGGCATCAGTCAATCTCCCCGGA	[84, 2, 84, 3, 95, 2, 95, 3]
464	GCGGCGAACATCGTGCCGTGGGACATTCCACG	[84, 4, 84, 5, 75, 4, 75, 5]
465	CTGCTGAAAAAACGACCGGGTATAGGAGCGTA	[84, 6, 84, 7, 95, 6, 95, 7]
466	GCCAAAATGAGTAAGGGCTAAGGGTTTTGCAT	[84, 8, 84, 9, 75, 8, 75, 9]
467	TTTTTTTTCCCGTTCCTGCCTAATTTTTTTTT	[84, 10, 0, 0, 95, 10, 0, 0]
468	GCGGATGCTTTTTTTTTTTTTTTTTGACAGGT	[0, 0, 86, 1, 0, 0, 73, 1]
469	GCGCCAGACCATGCGATTGTTGCGGCCTCGTG	[86, 2, 86, 3, 93, 2, 93, 3]
470	GGCGGATACTAAGCCGGACCCAGGTAGGTTAT	[86, 4, 86, 5, 73, 4, 73, 5]
471	CGTCCTGTGCGAGATATAGATGCGACTACACC	[86, 6, 86, 7, 93, 6, 93, 7]
472	CAGAGATGGAGAACATTCACATACCAGCTGGA	[86, 8, 86, 9, 73, 8, 73, 9]
473	TTTTTTTTCGTCGAGGTAACATCGTTTTTTTT	[86, 10, 0, 0, 93, 10, 0, 0]

Strand	Sequence	Voxel
474	GCGCCCACTTTTTTTTTTTTTTTTACATTGTA	[0, 0, 88, 1, 0, 0, 71, 1]
475	ATATTGTAAACGGTTTAGCGTGATGCAGGCGT	[88, 2, 88, 3, 91, 2, 91, 3]
476	ACCTTCAAATATAACTCCATATTAACCTGCCA	[88, 4, 88, 5, 71, 4, 71, 5]
477	GACTCTCTTGGTTCAACGATGCGGGCGAGGGT	[88, 6, 88, 7, 91, 6, 91, 7]
478	CTCAATAAAGGGCTGCGCATGAGAGGCGCAGA	[88, 8, 88, 9, 71, 8, 71, 9]
479	TTTTTTTTAGATAGGTATTACGACTTTTTTTT	[88, 10, 0, 0, 91, 10, 0, 0]
480	TCGCACGATTTTTTTTTTTTTTTTCTCCATTG	[0, 0, 90, 1, 0, 0, 89, 1]
481	TTGTGAACTTGCGGGGAGTGTGGTCTGTTTAA	[90, 4, 90, 5, 89, 4, 89, 5]
482	CTGTACTATAACGGCCGACTCTACCCTGGGAA	[90, 8, 90, 9, 89, 8, 89, 9]
483	CATCACGGTTTTTTTTTTTTTTTTCAAGGACG	[0, 0, 92, 1, 0, 0, 87, 1]
484	ATCCCCTCATCGCTGACATCTTAACGACCGTT	[92, 4, 92, 5, 87, 4, 87, 5]
485	CGATAGAAGTAGTTAAAGAACTCTTGATGTCC	[92, 8, 92, 9, 87, 8, 87, 9]
486	AACATGGTTTTTTTTTTTTTTTTTTGCCCTT	[0, 0, 94, 1, 0, 0, 85, 1]
487	TTGTCTTATCACCCTACATACACACCACAATG	[94, 4, 94, 5, 85, 4, 85, 5]
488	TCATGGTAACCGTGGGAAACTGAGTAAGACCT	[94, 8, 94, 9, 85, 8, 85, 9]
489	GATTCATATTTTTTTTTTTTTTTTATGTGTAC	[0, 0, 96, 1, 0, 0, 83, 1]
490	CACTTGACTGGAGTAGGTTAGTGGTGGCACCC	[96, 4, 96, 5, 83, 4, 83, 5]
491	AGACGCCTGCGACCGATCCCTAAATGTCCGTG	[96, 8, 96, 9, 83, 8, 83, 9]
492	GGAGGGTATTTTTTTTTTTTTTTTCATGTTGT	[0, 0, 98, 1, 0, 0, 81, 1]
493	GCTCTGGAGGGGATGATTTGCACCACCTATAC	[98, 4, 98, 5, 81, 4, 81, 5]
494	AGACGTTTTAGGTGCTAATATTGCAGTATTCC	[98, 8, 98, 9, 81, 8, 81, 9]
495	AACTGTTGTGTCCTAT	[1, 1, 1, 2, 0, 0, 0, 0]
496	GTTTACTTAGGGATGG	[0, 1, 0, 2, 0, 0, 0, 0]
497	TACGAACTCAACGCAC	[1, 3, 1, 4, 0, 0, 0, 0]
498	GCTCGGGTAGTCTCAA	[2, 3, 2, 4, 0, 0, 0, 0]
499	GAAGATAGAGAGCATA	[1, 5, 1, 6, 0, 0, 0, 0]
500	AATTCGCTAAACCGGA	[0, 5, 0, 6, 0, 0, 0, 0]
501	AAAGTATCCGCATCTC	[1, 7, 1, 8, 0, 0, 0, 0]
502	ACTCAGTGATCGAGTA	[2, 7, 2, 8, 0, 0, 0, 0]
503	TTCATGTCGCCTTTTC	[1, 9, 1, 10, 0, 0, 0, 0]
504	GAACGGTGACACACTT	[0, 9, 0, 10, 0, 0, 0, 0]
505	GTGTTCATTCAGAGTA	[3, 1, 3, 2, 0, 0, 0, 0]
506	GCGGAAATATGGCCGC	[2, 1, 2, 2, 0, 0, 0, 0]
507	TTCGGTGCGCAGCGGG	[3, 3, 3, 4, 0, 0, 0, 0]
508	CCGCCTGTAACGCTTA	[4, 3, 4, 4, 0, 0, 0, 0]
509	ATCAGCCCGGGCTTTT	[3, 5, 3, 6, 0, 0, 0, 0]
510	GCTAATACGCTGAGCG	[2, 5, 2, 6, 0, 0, 0, 0]
511	ATGCTGTTGTTGCGGG	[3, 7, 3, 8, 0, 0, 0, 0]
512	GTTTCTGAACCGGAAC	[4, 7, 4, 8, 0, 0, 0, 0]
513	CCGGGCTAATGAAGCC	[3, 9, 3, 10, 0, 0, 0, 0]
514	GTGACCCCAGAGACTG	[2, 9, 2, 10, 0, 0, 0, 0]
515	TCTGATGCACCGGGAG	[5, 1, 5, 2, 0, 0, 0, 0]
516	CCAGCCACTTAGCTGT	[4, 1, 4, 2, 0, 0, 0, 0]
517	GTCAGTGTGATCGCGA	[5, 3, 5, 4, 0, 0, 0, 0]
518	GTTCCCTCTAGCTAGG	[6, 3, 6, 4, 0, 0, 0, 0]
519	GTGATGCCAAAAGGGT	[5, 5, 5, 6, 0, 0, 0, 0]
520	GGATATGGAGCTGGAA	[4, 5, 4, 6, 0, 0, 0, 0]
521	CGGCTCTGATTTCTAG	[5, 7, 5, 8, 0, 0, 0, 0]
522	TGACCTGGTATAATGG	[6, 7, 6, 8, 0, 0, 0, 0]
523	CGGAGCTACCTGACCT	[5, 9, 5, 10, 0, 0, 0, 0]
524	CAATCATACGTCCCAC	[4, 9, 4, 10, 0, 0, 0, 0]
525	GGAAGGATTCATCCCC	[7, 1, 7, 2, 0, 0, 0, 0]
526	TTTAAGAATGATCGCA	[6, 1, 6, 2, 0, 0, 0, 0]
527	CAGTCTTTGAGATGTT	[7, 3, 7, 4, 0, 0, 0, 0]
528	GAACATCTTTTGGTTG	[8, 3, 8, 4, 0, 0, 0, 0]
529	GCGTAAAGATCTCGCA	[7, 5, 7, 6, 0, 0, 0, 0]
530	TTCTGGTGCCAAAACT	[6, 5, 6, 6, 0, 0, 0, 0]
531	GCCGACTCGTTCAAGC	[7, 7, 7, 8, 0, 0, 0, 0]
532	ACTATTATCTGGCTAT	[8, 7, 8, 8, 0, 0, 0, 0]
533	AAAAGATGTCTGTCAG	[7, 9, 7, 10, 0, 0, 0, 0]
534	CCCAAGCTTAGCATAA	[6, 9, 6, 10, 0, 0, 0, 0]
535	GCGGCTGGACGACCCC	[9, 1, 9, 2, 0, 0, 0, 0]
536	GCCGTGCGACGACTGA	[8, 1, 8, 2, 0, 0, 0, 0]
537	GACAAACGCATATCCT	[9, 5, 9, 6, 0, 0, 0, 0]
538	CGGCCCGCCAAATTAA	[8, 5, 8, 6, 0, 0, 0, 0]
539	GCCTAAAGGTCCTTCC	[9, 9, 9, 10, 0, 0, 0, 0]
540	ACGGTAATCGGGGGTG	[8, 9, 8, 10, 0, 0, 0, 0]
541	ACGACTCGTCGAACGA	[11, 1, 11, 2, 0, 0, 0, 0]
542	GGACTGTTCTACATAG	[12, 1, 12, 2, 0, 0, 0, 0]
543	TGACTTGGACGAGGTT	[11, 3, 11, 4, 0, 0, 0, 0]
544	TCACTGGGCGCTATAC	[10, 3, 10, 4, 0, 0, 0, 0]
545	AGGAAACTCGAGGGGC	[11, 5, 11, 6, 0, 0, 0, 0]
546	TCCCTGTCTGTCGAGC	[12, 5, 12, 6, 0, 0, 0, 0]
547	CCAGCGACCACTTCTG	[11, 7, 11, 8, 0, 0, 0, 0]
548	GAGAAAGATGCGGTGG	[10, 7, 10, 8, 0, 0, 0, 0]
549	CAGTAGTTGTGATTAG	[11, 9, 11, 10, 0, 0, 0, 0]
550	CTTGGGGGTGATATAC	[12, 9, 12, 10, 0, 0, 0, 0]
551	CTCACTAAACTCCTTC	[13, 1, 13, 2, 0, 0, 0, 0]
552	TAATGTGACTAAGCGT	[14, 1, 14, 2, 0, 0, 0, 0]
553	TAACTCCAAAGGAAAC	[13, 3, 13, 4, 0, 0, 0, 0]

Strand	Sequence	Voxel
554	CAGCTATCCCATATTC	[12, 3, 12, 4, 0, 0, 0, 0]
555	GATGTAAGCGGACATC	[13, 5, 13, 6, 0, 0, 0, 0]
556	TATGCGCCCGATATCC	[14, 5, 14, 6, 0, 0, 0, 0]
557	GTTCAAACTAGGGGGC	[13, 7, 13, 8, 0, 0, 0, 0]
558	TTCTGACCAAAGCTCA	[12, 7, 12, 8, 0, 0, 0, 0]
559	TGAGAATTGTAAACAG	[13, 9, 13, 10, 0, 0, 0, 0]
560	GAACAGCTTAGAGCAG	[14, 9, 14, 10, 0, 0, 0, 0]
561	TCAAGTTCGGATACGC	[15, 1, 15, 2, 0, 0, 0, 0]
562	TACCTATGGACGGGGA	[16, 1, 16, 2, 0, 0, 0, 0]
563	TATGCGACACCATGAT	[15, 3, 15, 4, 0, 0, 0, 0]
564	CCGGATGAGTTATGAA	[14, 3, 14, 4, 0, 0, 0, 0]
565	GATCGTCATTGGGATA	[15, 5, 15, 6, 0, 0, 0, 0]
566	TACAATCTCGAAGTAA	[16, 5, 16, 6, 0, 0, 0, 0]
567	AGCATAGCACCCTGCG	[15, 7, 15, 8, 0, 0, 0, 0]
568	AAGATAGGGTCACAGC	[14, 7, 14, 8, 0, 0, 0, 0]
569	AGTAATACCTCTACCT	[15, 9, 15, 10, 0, 0, 0, 0]
570	TGTTGGACGTAAGCGT	[16, 9, 16, 10, 0, 0, 0, 0]
571	GAAATAACGACCAGAA	[17, 1, 17, 2, 0, 0, 0, 0]
572	AGCACGAGGATTATCA	[18, 1, 18, 2, 0, 0, 0, 0]
573	CGTGTACCTCGAAATA	[17, 3, 17, 4, 0, 0, 0, 0]
574	ATCGTTAGTTTCTCGA	[16, 3, 16, 4, 0, 0, 0, 0]
575	CTGTTCCGAAACAGGC	[17, 5, 17, 6, 0, 0, 0, 0]
576	AGCGGTAGCCTCCCAC	[18, 5, 18, 6, 0, 0, 0, 0]
577	TTAACCTATGCCTTGG	[17, 7, 17, 8, 0, 0, 0, 0]
578	TAACTGATTTTCTCCT	[16, 7, 16, 8, 0, 0, 0, 0]
579	GGTTCCGCTAGCTGAT	[17, 9, 17, 10, 0, 0, 0, 0]
580	CTATGGTCCTTAATAT	[18, 9, 18, 10, 0, 0, 0, 0]
581	GGGAGAGGGTGAAACA	[19, 3, 19, 4, 0, 0, 0, 0]
582	GGCCACCTGGCTCGGG	[18, 3, 18, 4, 0, 0, 0, 0]
583	GCCGCCTCGGTTATAC	[19, 7, 19, 8, 0, 0, 0, 0]
584	TCGTCAAGCCTGCTTT	[18, 7, 18, 8, 0, 0, 0, 0]
585	ACGTGGGAGTGCCCGA	[21, 1, 21, 2, 0, 0, 0, 0]
586	GCGTCTGAGGTATGGT	[20, 1, 20, 2, 0, 0, 0, 0]
587	TTACCCACTATGTTGT	[21, 3, 21, 4, 0, 0, 0, 0]
588	CTCAAGTGCTAACAGT	[22, 3, 22, 4, 0, 0, 0, 0]
589	ACTAATTATCCATAAC	[21, 5, 21, 6, 0, 0, 0, 0]
590	TGTGCACGTCAGGGAT	[20, 5, 20, 6, 0, 0, 0, 0]
591	TCTCACCGGTGGCCGT	[21, 7, 21, 8, 0, 0, 0, 0]
592	TGCTACATCAGTTTCT	[22, 7, 22, 8, 0, 0, 0, 0]
593	TTGCACTCCTGGGGAA	[21, 9, 21, 10, 0, 0, 0, 0]
594	ACTATACTTACGCACT	[20, 9, 20, 10, 0, 0, 0, 0]
595	GGTTTGGAGGGATTAG	[23, 1, 23, 2, 0, 0, 0, 0]
596	GCAATTGCTAGGTTGC	[22, 1, 22, 2, 0, 0, 0, 0]
597	ATTGTAGGCACAATTT	[23, 3, 23, 4, 0, 0, 0, 0]
598	TTGATTCGATCACATA	[24, 3, 24, 4, 0, 0, 0, 0]
599	CATGGGCAATAAAGCT	[23, 5, 23, 6, 0, 0, 0, 0]
600	GTAGCCTGAGGCGCGC	[22, 5, 22, 6, 0, 0, 0, 0]
601	AGCTGCACCGTGTCAC	[23, 7, 23, 8, 0, 0, 0, 0]
602	CTTGATATTGAGGGAC	[24, 7, 24, 8, 0, 0, 0, 0]
603	ACCTCGTCATTCGGAT	[23, 9, 23, 10, 0, 0, 0, 0]
604	AAACCATACTGAGGGC	[22, 9, 22, 10, 0, 0, 0, 0]
605	AGTGGGCGAGATCGGC	[25, 1, 25, 2, 0, 0, 0, 0]
606	TAATCATTAGTGCTCC	[24, 1, 24, 2, 0, 0, 0, 0]
607	CTTAGTTAGTTCATAG	[25, 3, 25, 4, 0, 0, 0, 0]
608	TTCATTAGGGGCGGAA	[26, 3, 26, 4, 0, 0, 0, 0]
609	ATGGGCTGGTGCCCCA	[25, 5, 25, 6, 0, 0, 0, 0]
610	CGTACAGTAACCAACC	[24, 5, 24, 6, 0, 0, 0, 0]
611	GGTGTACCTGTGGGTA	[25, 7, 25, 8, 0, 0, 0, 0]
612	GGGCCGAGCGCTGGGC	[26, 7, 26, 8, 0, 0, 0, 0]
613	TTACATGTGCAAGTGA	[25, 9, 25, 10, 0, 0, 0, 0]
614	AATATATGACTTGGTC	[24, 9, 24, 10, 0, 0, 0, 0]
615	GACCAGATCTGCTAGA	[27, 1, 27, 2, 0, 0, 0, 0]
616	AACCACCAACATCCTC	[26, 1, 26, 2, 0, 0, 0, 0]
617	CTTGACACCTTTCAAT	[27, 3, 27, 4, 0, 0, 0, 0]
618	TTTTAGTAAACACCCA	[28, 3, 28, 4, 0, 0, 0, 0]
619	ACAGAGCTGAACTTCC	[27, 5, 27, 6, 0, 0, 0, 0]
620	CATGGTCGTTCTACTG	[26, 5, 26, 6, 0, 0, 0, 0]
621	TCGTATGATCATAGGA	[27, 7, 27, 8, 0, 0, 0, 0]
622	TCAAACTAAATACAGC	[28, 7, 28, 8, 0, 0, 0, 0]
623	GTACCGCCAGTTCTTG	[27, 9, 27, 10, 0, 0, 0, 0]
624	TCCTTATTGGCGATCG	[26, 9, 26, 10, 0, 0, 0, 0]
625	TGCATTCCAATGTTTG	[29, 1, 29, 2, 0, 0, 0, 0]
626	ATGGCCGCGTGGCTTA	[28, 1, 28, 2, 0, 0, 0, 0]
627	AACCACATAAAGTCGT	[29, 5, 29, 6, 0, 0, 0, 0]
628	CCGCCTCCGGTAGTCA	[28, 5, 28, 6, 0, 0, 0, 0]
629	CAGAAAGTCTATACCC	[29, 9, 29, 10, 0, 0, 0, 0]
630	GACAAAAACAGATTTG	[28, 9, 28, 10, 0, 0, 0, 0]
631	TATACTCTTGCGGGGG	[31, 1, 31, 2, 0, 0, 0, 0]
632	GGTCGAGCGCTCCACT	[32, 1, 32, 2, 0, 0, 0, 0]
633	GTAGTGGCCGGCCATC	[31, 3, 31, 4, 0, 0, 0, 0]

Strand	Sequence	Voxel
634	GTGGACTAGAAAGCGC	[30, 3, 30, 4, 0, 0, 0, 0]
635	CGGCAATCTGAATATC	[31, 5, 31, 6, 0, 0, 0, 0]
636	GCTACCTCCGATACGC	[32, 5, 32, 6, 0, 0, 0, 0]
637	GAACCAGAACCATTTA	[31, 7, 31, 8, 0, 0, 0, 0]
638	AGAGTAGGGGCAGTGC	[30, 7, 30, 8, 0, 0, 0, 0]
639	TCAGCCAAACAGTGGG	[31, 9, 31, 10, 0, 0, 0, 0]
640	ACATCTCGGAAAGGTG	[32, 9, 32, 10, 0, 0, 0, 0]
641	TCCCAAGTGCAAGTAA	[33, 1, 33, 2, 0, 0, 0, 0]
642	AAAAGGAATTATGAGA	[34, 1, 34, 2, 0, 0, 0, 0]
643	TCATGTGGGATCCTAA	[33, 3, 33, 4, 0, 0, 0, 0]
644	AGTTTCTGGTAGACCT	[32, 3, 32, 4, 0, 0, 0, 0]
645	CGTAGGCTAGAGCGGT	[33, 5, 33, 6, 0, 0, 0, 0]
646	GATATCCACGGTACAT	[34, 5, 34, 6, 0, 0, 0, 0]
647	TCGTTTACTGCACGGA	[33, 7, 33, 8, 0, 0, 0, 0]
648	ACGAGAGTGCTGGCAT	[32, 7, 32, 8, 0, 0, 0, 0]
649	AAGCAAGAGAAACCTA	[33, 9, 33, 10, 0, 0, 0, 0]
650	ACTTGGGGACTAAGAT	[34, 9, 34, 10, 0, 0, 0, 0]
651	CGTTGCGAATTTTCGC	[35, 1, 35, 2, 0, 0, 0, 0]
652	GCGATTCGCATGTAGC	[36, 1, 36, 2, 0, 0, 0, 0]
653	CGAACGAGATCGTCCT	[35, 3, 35, 4, 0, 0, 0, 0]
654	AGACGACGGATCTCCT	[34, 3, 34, 4, 0, 0, 0, 0]
655	GCATGCCGGTAGCACC	[35, 5, 35, 6, 0, 0, 0, 0]
656	GTCAAATATGCGTGCT	[36, 5, 36, 6, 0, 0, 0, 0]
657	TTTAACGCTTTAGACC	[35, 7, 35, 8, 0, 0, 0, 0]
658	CAGCTTGACGCAAGAC	[34, 7, 34, 8, 0, 0, 0, 0]
659	GCTAATCACTGGGCAG	[35, 9, 35, 10, 0, 0, 0, 0]
660	GGTCCTAGGTTGCAGA	[36, 9, 36, 10, 0, 0, 0, 0]
661	AACCTACCCCCTAAGC	[37, 1, 37, 2, 0, 0, 0, 0]
662	AGCGTAGTAAGGGTTA	[38, 1, 38, 2, 0, 0, 0, 0]
663	CAAGTTCCTGCGGCGG	[37, 3, 37, 4, 0, 0, 0, 0]
664	CTGTACGAATGAGTCC	[36, 3, 36, 4, 0, 0, 0, 0]
665	GGCCTTGACATGACAT	[37, 5, 37, 6, 0, 0, 0, 0]
666	TCTCCCACCCGTCCAA	[38, 5, 38, 6, 0, 0, 0, 0]
667	CACCAGCAGGATGTCG	[37, 7, 37, 8, 0, 0, 0, 0]
668	AGCCCACAACTTGACA	[36, 7, 36, 8, 0, 0, 0, 0]
669	GTAGTACAGTATCTTT	[37, 9, 37, 10, 0, 0, 0, 0]
670	TTTCATGGCGGCGATG	[38, 9, 38, 10, 0, 0, 0, 0]
671	TGCGTACGGCTTTTAT	[39, 3, 39, 4, 0, 0, 0, 0]
672	ATAGCGTAGACCGGAC	[38, 3, 38, 4, 0, 0, 0, 0]
673	AGAGTCGTTATGCCCC	[39, 7, 39, 8, 0, 0, 0, 0]
674	CCGGTTCTGCTAGAGT	[38, 7, 38, 8, 0, 0, 0, 0]
675	CGCGCTTACCAAGTAA	[41, 1, 41, 2, 0, 0, 0, 0]
676	CGTATGTACGACGCGA	[40, 1, 40, 2, 0, 0, 0, 0]
677	TGCGAGTGAACGGGTG	[41, 3, 41, 4, 0, 0, 0, 0]
678	GATGAATTTCGTTCGG	[42, 3, 42, 4, 0, 0, 0, 0]
679	GGCCAGGCGATCTAAG	[41, 5, 41, 6, 0, 0, 0, 0]
680	TCTGGCGCGTGAGGAC	[40, 5, 40, 6, 0, 0, 0, 0]
681	ACGTAAGTTGAAGTAG	[41, 7, 41, 8, 0, 0, 0, 0]
682	GAAGCTTTTTCTAGCC	[42, 7, 42, 8, 0, 0, 0, 0]
683	ATAGCATCGACACTAC	[41, 9, 41, 10, 0, 0, 0, 0]
684	GACCTGCTTTTCGACA	[40, 9, 40, 10, 0, 0, 0, 0]
685	CGGACTGCATTCTGGA	[43, 1, 43, 2, 0, 0, 0, 0]
686	CAGTAACTGCATTAAC	[42, 1, 42, 2, 0, 0, 0, 0]
687	TACGTGCTCCCAACAT	[43, 3, 43, 4, 0, 0, 0, 0]
688	AAGTGACGTCCTCAGC	[44, 3, 44, 4, 0, 0, 0, 0]
689	AGTTGAAAATTATCTC	[43, 5, 43, 6, 0, 0, 0, 0]
690	GATAAGCAGAAGGACC	[42, 5, 42, 6, 0, 0, 0, 0]
691	TGTATAACTGGCAAGA	[43, 7, 43, 8, 0, 0, 0, 0]
692	GACAAGGCCGCTTCAG	[44, 7, 44, 8, 0, 0, 0, 0]
693	AAAGGATAGCCGGACC	[43, 9, 43, 10, 0, 0, 0, 0]
694	GTATTAATGCCGCGCC	[42, 9, 42, 10, 0, 0, 0, 0]
695	AACGGTTTCCCGGACC	[45, 1, 45, 2, 0, 0, 0, 0]
696	TAGTGTCTATCAAGTC	[44, 1, 44, 2, 0, 0, 0, 0]
697	TATTCTATGAAACCAT	[45, 3, 45, 4, 0, 0, 0, 0]
698	TCTCGGGTCGAGCGGG	[46, 3, 46, 4, 0, 0, 0, 0]
699	TCACTGTTGTGACCTA	[45, 5, 45, 6, 0, 0, 0, 0]
700	CGAGAAGCGTATAGAT	[44, 5, 44, 6, 0, 0, 0, 0]
701	GTTCCGCGCGAATAGC	[45, 7, 45, 8, 0, 0, 0, 0]
702	TCACAGGCGAACTACG	[46, 7, 46, 8, 0, 0, 0, 0]
703	TATGAATTGGTTTAAA	[45, 9, 45, 10, 0, 0, 0, 0]
704	CGCTCCTCGGGAATTA	[44, 9, 44, 10, 0, 0, 0, 0]
705	ATACGACAGGTGGCAA	[47, 1, 47, 2, 0, 0, 0, 0]
706	ACCACCTCCGATGTCA	[46, 1, 46, 2, 0, 0, 0, 0]
707	GCGCCGCATACCCATT	[47, 3, 47, 4, 0, 0, 0, 0]
708	CACTGTGAATTTCCAC	[48, 3, 48, 4, 0, 0, 0, 0]
709	ACCGAGGATTCGCAGG	[47, 5, 47, 6, 0, 0, 0, 0]
710	TCCATGGGATTCACCA	[46, 5, 46, 6, 0, 0, 0, 0]
711	AGCTCGTATACACCCT	[47, 7, 47, 8, 0, 0, 0, 0]
712	GATTCTCCATGGCAGC	[48, 7, 48, 8, 0, 0, 0, 0]
713	GCTTCGGTACAGGTCT	[47, 9, 47, 10, 0, 0, 0, 0]

Strand	Sequence	Voxel
714	GAACTGGTAGATCACC	[46, 9, 46, 10, 0, 0, 0, 0]
715	ATTAGTGTACCCAGCA	[49, 1, 49, 2, 0, 0, 0, 0]
716	GTTCGGCTCCCTTGTG	[48, 1, 48, 2, 0, 0, 0, 0]
717	TCGTCGTGTAATGCTG	[49, 5, 49, 6, 0, 0, 0, 0]
718	TTCCGGGGTAAATCAA	[48, 5, 48, 6, 0, 0, 0, 0]
719	ACGCTCTGTTCCAAAC	[49, 9, 49, 10, 0, 0, 0, 0]
720	TTTAGAGCCCGGCCGT	[48, 9, 48, 10, 0, 0, 0, 0]
721	ACCCAATCATACGAGC	[51, 1, 51, 2, 0, 0, 0, 0]
722	GTGGAGGGAAGTTATT	[52, 1, 52, 2, 0, 0, 0, 0]
723	CTACTGGCGTTTTCAT	[51, 3, 51, 4, 0, 0, 0, 0]
724	ATATCAGAGAGCACAG	[50, 3, 50, 4, 0, 0, 0, 0]
725	TAATTCGGAGCCCGGC	[51, 5, 51, 6, 0, 0, 0, 0]
726	GTATTATCGCGTCAAT	[52, 5, 52, 6, 0, 0, 0, 0]
727	TCATATGGACACACCA	[51, 7, 51, 8, 0, 0, 0, 0]
728	GATTACGGCGGCTTAG	[50, 7, 50, 8, 0, 0, 0, 0]
729	GGGAATTGAGTACAAG	[51, 9, 51, 10, 0, 0, 0, 0]
730	TGACGAAGAATACCGT	[52, 9, 52, 10, 0, 0, 0, 0]
731	CCATCAGATGGAGCTG	[53, 1, 53, 2, 0, 0, 0, 0]
732	TCAGGCTTCTCCGTCA	[54, 1, 54, 2, 0, 0, 0, 0]
733	AAATGTTGGCTGAGAT	[53, 3, 53, 4, 0, 0, 0, 0]
734	TGATTGGTTTAGTGTA	[52, 3, 52, 4, 0, 0, 0, 0]
735	TAGCGAGTAAGAGATA	[53, 5, 53, 6, 0, 0, 0, 0]
736	TGTGGGAGGATCATTA	[54, 5, 54, 6, 0, 0, 0, 0]
737	CAGGATCAAAGTTGAC	[53, 7, 53, 8, 0, 0, 0, 0]
738	TAGCAGAATAATTTGC	[52, 7, 52, 8, 0, 0, 0, 0]
739	ATCCGAATAAGGTACG	[53, 9, 53, 10, 0, 0, 0, 0]
740	CAATTACTATTTGTAC	[54, 9, 54, 10, 0, 0, 0, 0]
741	CGAAAACAAGGGCATA	[55, 1, 55, 2, 0, 0, 0, 0]
742	CAGTAACGAAAAGCGA	[56, 1, 56, 2, 0, 0, 0, 0]
743	ACGAGCCACCACCTAG	[55, 3, 55, 4, 0, 0, 0, 0]
744	CACCTCCTGTTAGGGT	[54, 3, 54, 4, 0, 0, 0, 0]
745	GACACCCGGGATGGGT	[55, 5, 55, 6, 0, 0, 0, 0]
746	TGTTCATCGGTCACCC	[56, 5, 56, 6, 0, 0, 0, 0]
747	CAGTTTTCGCTTGAGG	[55, 7, 55, 8, 0, 0, 0, 0]
748	AATAGTCCAAGAAATG	[54, 7, 54, 8, 0, 0, 0, 0]
749	CATGATAAAAGTTGTG	[55, 9, 55, 10, 0, 0, 0, 0]
750	CCGCACTGGAATCTGA	[56, 9, 56, 10, 0, 0, 0, 0]
751	AGATGCACCGGTTCTC	[57, 1, 57, 2, 0, 0, 0, 0]
752	GAGACACTCATTTACT	[58, 1, 58, 2, 0, 0, 0, 0]
753	GCTCGGTAGACCATGT	[57, 3, 57, 4, 0, 0, 0, 0]
754	CTCCAGTATTGCCATT	[56, 3, 56, 4, 0, 0, 0, 0]
755	TTCTAATTAATACTTT	[57, 5, 57, 6, 0, 0, 0, 0]
756	TAATATAATGTCCGCG	[58, 5, 58, 6, 0, 0, 0, 0]
757	GATCAGCGAATTCGAC	[57, 7, 57, 8, 0, 0, 0, 0]
758	ACAATGGTATCTTTTG	[56, 7, 56, 8, 0, 0, 0, 0]
759	AAGCGCACGTAAACCG	[57, 9, 57, 10, 0, 0, 0, 0]
760	CTTGCCTGGGCCAATA	[58, 9, 58, 10, 0, 0, 0, 0]
761	ATATAGGTCTGACACC	[59, 3, 59, 4, 0, 0, 0, 0]
762	CAGCTCCCAGGTAAGT	[58, 3, 58, 4, 0, 0, 0, 0]
763	AATGGTCGACAATATG	[59, 7, 59, 8, 0, 0, 0, 0]
764	TATTAAGTTTTCGCCG	[58, 7, 58, 8, 0, 0, 0, 0]
765	CTTCTACCTCTTAATG	[61, 1, 61, 2, 0, 0, 0, 0]
766	TATAATTCATCCTGTG	[60, 1, 60, 2, 0, 0, 0, 0]
767	CATGGAAGCAGAGTTC	[61, 3, 61, 4, 0, 0, 0, 0]
768	CCATCGGCAAAATTGA	[62, 3, 62, 4, 0, 0, 0, 0]
769	GTTACCGCTATAATTA	[61, 5, 61, 6, 0, 0, 0, 0]
770	AGAACATTCGGGTTCG	[60, 5, 60, 6, 0, 0, 0, 0]
771	ACGTGGTCTATGTGAT	[61, 7, 61, 8, 0, 0, 0, 0]
772	CGCCTAGGCTAACCTC	[62, 7, 62, 8, 0, 0, 0, 0]
773	ATGACTCCAGGAGAGG	[61, 9, 61, 10, 0, 0, 0, 0]
774	GTGAGCTCCTACGTGG	[60, 9, 60, 10, 0, 0, 0, 0]
775	AAGTGTTAATGCCGAG	[63, 1, 63, 2, 0, 0, 0, 0]
776	ATCTAACTTGATTTTT	[62, 1, 62, 2, 0, 0, 0, 0]
777	ATTCAGAATCGAGACC	[63, 3, 63, 4, 0, 0, 0, 0]
778	TTGCTCTTGGACGTCT	[64, 3, 64, 4, 0, 0, 0, 0]
779	CATTCTATAGCCCGCG	[63, 5, 63, 6, 0, 0, 0, 0]
780	GTTACTAGGCGCCTTG	[62, 5, 62, 6, 0, 0, 0, 0]
781	CTCCTACGCTCAATAG	[63, 7, 63, 8, 0, 0, 0, 0]
782	TGAACCCTTACTATCG	[64, 7, 64, 8, 0, 0, 0, 0]
783	CGACAGGATAGGTCAA	[63, 9, 63, 10, 0, 0, 0, 0]
784	AATAAACGATACTTAA	[62, 9, 62, 10, 0, 0, 0, 0]
785	AGCTCTAGAGGGGAAC	[65, 1, 65, 2, 0, 0, 0, 0]
786	CGTAGACTTCACATAA	[64, 1, 64, 2, 0, 0, 0, 0]
787	AAAACACTCGGCGAGT	[65, 3, 65, 4, 0, 0, 0, 0]
788	GTTCTAGGGAGCGGGG	[66, 3, 66, 4, 0, 0, 0, 0]
789	ATGGTACACCCAGCAT	[65, 5, 65, 6, 0, 0, 0, 0]
790	TCCTTCAGTCCGCCTA	[64, 5, 64, 6, 0, 0, 0, 0]
791	CTCATGATCTTTGATA	[65, 7, 65, 8, 0, 0, 0, 0]
792	TTCTCCCAAATGGATA	[66, 7, 66, 8, 0, 0, 0, 0]
793	GGGCGTAAACAAAAAA	[65, 9, 65, 10, 0, 0, 0, 0]

Strand	Sequence	Voxel
794	CTTGCCTATCGTGCCC	[64, 9, 64, 10, 0, 0, 0, 0]
795	TCATACAGCATTGTCT	[67, 1, 67, 2, 0, 0, 0, 0]
796	ACCACCTATGTTCTTA	[66, 1, 66, 2, 0, 0, 0, 0]
797	TGCTGTTAACATAGAT	[67, 3, 67, 4, 0, 0, 0, 0]
798	CGTCGGGCGACCTTCG	[68, 3, 68, 4, 0, 0, 0, 0]
799	TAAGGTGGGGCCGACC	[67, 5, 67, 6, 0, 0, 0, 0]
800	ACCGACCAAGGCGCTA	[66, 5, 66, 6, 0, 0, 0, 0]
801	TAGGGTATACTCGTAA	[67, 7, 67, 8, 0, 0, 0, 0]
802	GCGATATCTGAATGCG	[68, 7, 68, 8, 0, 0, 0, 0]
803	TAATACGAAACGACAA	[67, 9, 67, 10, 0, 0, 0, 0]
804	AAAATACCTTCGCCGG	[66, 9, 66, 10, 0, 0, 0, 0]
805	TCCGTCCGTTGGAGCC	[69, 1, 69, 2, 0, 0, 0, 0]
806	CACGAACCAACGCATC	[68, 1, 68, 2, 0, 0, 0, 0]
807	ACCATTACCGGAGGCG	[69, 5, 69, 6, 0, 0, 0, 0]
808	CATTAGGTCTATTATA	[68, 5, 68, 6, 0, 0, 0, 0]
809	TATCGTTCTATAAAAT	[69, 9, 69, 10, 0, 0, 0, 0]
810	GGCACTGTCACGGCGC	[68, 9, 68, 10, 0, 0, 0, 0]
811	ATATCATCTACAATGT	[71, 1, 71, 2, 0, 0, 0, 0]
812	GTCTGACCCTTCACAT	[72, 1, 72, 2, 0, 0, 0, 0]
813	TAATATGGGGATTACC	[71, 3, 71, 4, 0, 0, 0, 0]
814	CTTCAATAAGTTGTAG	[70, 3, 70, 4, 0, 0, 0, 0]
815	GCATCAGCTGGCAGGT	[71, 5, 71, 6, 0, 0, 0, 0]
816	GCCATCCTACCCGCTT	[72, 5, 72, 6, 0, 0, 0, 0]
817	TCTCATGCGAAGCAGG	[71, 7, 71, 8, 0, 0, 0, 0]
818	ATGTGTAATGGTGGGC	[70, 7, 70, 8, 0, 0, 0, 0]
819	GGACGATATCTGCGCC	[71, 9, 71, 10, 0, 0, 0, 0]
820	AGCGCCACGTCCCCAA	[72, 9, 72, 10, 0, 0, 0, 0]
821	TTGTCGGGACCTGTCA	[73, 1, 73, 2, 0, 0, 0, 0]
822	TTGGAGTGATGAACAA	[74, 1, 74, 2, 0, 0, 0, 0]
823	CCTGGGTCCTGCTGCC	[73, 3, 73, 4, 0, 0, 0, 0]
824	GCCCTTTGGGGTTCAC	[72, 3, 72, 4, 0, 0, 0, 0]
825	GCCCGCGCATAACCTA	[73, 5, 73, 6, 0, 0, 0, 0]
826	AGTAATGTCTAGTGCC	[74, 5, 74, 6, 0, 0, 0, 0]
827	GTATGTGAAAGAGTCA	[73, 7, 73, 8, 0, 0, 0, 0]
828	AGCGTAAAGTCTTGAC	[72, 7, 72, 8, 0, 0, 0, 0]
829	GTATTCCATCCAGCTG	[73, 9, 73, 10, 0, 0, 0, 0]
830	ACGGTATGGAAAGAAG	[74, 9, 74, 10, 0, 0, 0, 0]
831	CGAAGGGGCTCGAGTC	[75, 1, 75, 2, 0, 0, 0, 0]
832	TACAGCAGAGCTACGC	[76, 1, 76, 2, 0, 0, 0, 0]
833	GTCCCACGTCTTTAAA	[75, 3, 75, 4, 0, 0, 0, 0]
834	TGTCCCGTGTTAGGGC	[74, 3, 74, 4, 0, 0, 0, 0]
835	TCGCATCTCGTGGAAT	[75, 5, 75, 6, 0, 0, 0, 0]
836	CCATTCAGTTCACAGG	[76, 5, 76, 6, 0, 0, 0, 0]
837	CCCTTAGCCGTACAAA	[75, 7, 75, 8, 0, 0, 0, 0]
838	GCGTTACTGACCCGCT	[74, 7, 74, 8, 0, 0, 0, 0]
839	GCAGGTAAATGCAAAA	[75, 9, 75, 10, 0, 0, 0, 0]
840	CTATGTCTTTCTGAGG	[76, 9, 76, 10, 0, 0, 0, 0]
841	AGGAGCAGTTTGGGTC	[77, 1, 77, 2, 0, 0, 0, 0]
842	TACGGCACCGAGGCCT	[78, 1, 78, 2, 0, 0, 0, 0]
843	AATCCGATGACCCTAA	[77, 3, 77, 4, 0, 0, 0, 0]
844	GAGTCCCCGAAGAATA	[76, 3, 76, 4, 0, 0, 0, 0]
845	GGATATTCTCCGCCGG	[77, 5, 77, 6, 0, 0, 0, 0]
846	CAAGTAAGCAGGGCGT	[78, 5, 78, 6, 0, 0, 0, 0]
847	AAAAGCAGTCAACCGG	[77, 7, 77, 8, 0, 0, 0, 0]
848	CGACGAGTAACGGCAT	[76, 7, 76, 8, 0, 0, 0, 0]
849	CTTCCGACTTTTTATA	[77, 9, 77, 10, 0, 0, 0, 0]
850	ACTGCTGGGTGGGCGC	[78, 9, 78, 10, 0, 0, 0, 0]
851	CACTGTGTGGACGTTT	[79, 3, 79, 4, 0, 0, 0, 0]
852	GAGCAATAGAAATTGA	[78, 3, 78, 4, 0, 0, 0, 0]
853	ATCGGCTCAAGACGTA	[79, 7, 79, 8, 0, 0, 0, 0]
854	GAATGAGCGACGCACC	[78, 7, 78, 8, 0, 0, 0, 0]
855	TGTCCAAGACAACATG	[81, 1, 81, 2, 0, 0, 0, 0]
856	ACTACAGTTGACCGGG	[80, 1, 80, 2, 0, 0, 0, 0]
857	GGTGCAAAAAGCGCAA	[81, 3, 81, 4, 0, 0, 0, 0]
858	CGGCGCCGATTGATCA	[82, 3, 82, 4, 0, 0, 0, 0]
859	ATGGTTAAGTATAGGT	[81, 5, 81, 6, 0, 0, 0, 0]
860	CCTTGTTACGATGGCA	[80, 5, 80, 6, 0, 0, 0, 0]
861	GCAATATTCGGACCTT	[81, 7, 81, 8, 0, 0, 0, 0]
862	CCACCGGGTCTGTTCC	[82, 7, 82, 8, 0, 0, 0, 0]
863	ATTGAGCAGGAATACT	[81, 9, 81, 10, 0, 0, 0, 0]
864	CAGCCTTCACCGCGGG	[80, 9, 80, 10, 0, 0, 0, 0]
865	TCTCTATCGTACACAT	[83, 1, 83, 2, 0, 0, 0, 0]
866	CTCTGGCTTTACCAAG	[82, 1, 82, 2, 0, 0, 0, 0]
867	CCACTAACGGGACAGT	[83, 3, 83, 4, 0, 0, 0, 0]
868	CGGAACATGCACGATG	[84, 3, 84, 4, 0, 0, 0, 0]
869	TCCGGGATGGGTGCCA	[83, 5, 83, 6, 0, 0, 0, 0]
870	CCGCAACCTTTACGTG	[82, 5, 82, 6, 0, 0, 0, 0]
871	TTTAGGGAATACAAGA	[83, 7, 83, 8, 0, 0, 0, 0]
872	TTCAGCAGCCTTACTC	[84, 7, 84, 8, 0, 0, 0, 0]
873	AGCAATATCACGGACA	[83, 9, 83, 10, 0, 0, 0, 0]

Strand	Sequence	Voxel
874	GGAACAACGGGTGTCA	[82, 9, 82, 10, 0, 0, 0, 0]
875	GTCCAAGTAAGGGCAA	[85, 1, 85, 2, 0, 0, 0, 0]
876	TCGTATTTGATGCCCG	[84, 1, 84, 2, 0, 0, 0, 0]
877	TGTGTATGCTCACTTT	[85, 3, 85, 4, 0, 0, 0, 0]
878	TCTGGCGCCGGCTTAG	[86, 3, 86, 4, 0, 0, 0, 0]
879	CCGTCACGCATTGTGG	[85, 5, 85, 6, 0, 0, 0, 0]
880	TTCGCCGCGTCGTTTT	[84, 5, 84, 6, 0, 0, 0, 0]
881	CTCAGTTTAAGATTCA	[85, 7, 85, 8, 0, 0, 0, 0]
882	ACAGGACGATGTTCTC	[86, 7, 86, 8, 0, 0, 0, 0]
883	ACCTCTTCAGGTCTTA	[85, 9, 85, 10, 0, 0, 0, 0]
884	ATTTTGGCGGAACGGG	[84, 9, 84, 10, 0, 0, 0, 0]
885	AAGCATCGCGTCCTTG	[87, 1, 87, 2, 0, 0, 0, 0]
886	GCATCCGCTCGCATGG	[86, 1, 86, 2, 0, 0, 0, 0]
887	TTAAGATGTGTGGCAA	[87, 3, 87, 4, 0, 0, 0, 0]
888	TACAATATAGTTATAT	[88, 3, 88, 4, 0, 0, 0, 0]
889	CCTCATGTAACGGTCG	[87, 5, 87, 6, 0, 0, 0, 0]
890	TATCCGCCTATCTCGC	[86, 5, 86, 6, 0, 0, 0, 0]
891	AGAGTTCTACCAGCCA	[87, 7, 87, 8, 0, 0, 0, 0]
892	AGAGAGTCGCAGCCCT	[88, 7, 88, 8, 0, 0, 0, 0]
893	TCATCGTAGGACATCA	[87, 9, 87, 10, 0, 0, 0, 0]
894	CATCTCTGCCTCGACG	[86, 9, 86, 10, 0, 0, 0, 0]
895	TACGCGGGCAATGGAG	[89, 1, 89, 2, 0, 0, 0, 0]
896	GTGGGCGCAAACCGTT	[88, 1, 88, 2, 0, 0, 0, 0]
897	TTCAACTTTTAAACAG	[89, 5, 89, 6, 0, 0, 0, 0]
898	TTGAAGGTTTGAACCA	[88, 5, 88, 6, 0, 0, 0, 0]
899	TTCCTTGATTCCCAGG	[89, 9, 89, 10, 0, 0, 0, 0]
900	TTATTGAGACCTATCT	[88, 9, 88, 10, 0, 0, 0, 0]
901	ATCACGCTCTACAGCA	[91, 1, 91, 2, 0, 0, 0, 0]
902	CCGTGATGAGACTTCG	[92, 1, 92, 2, 0, 0, 0, 0]
903	TGCGTTCGACGCCTGC	[91, 3, 91, 4, 0, 0, 0, 0]
904	TTCCGTGGCCCCGCAA	[90, 3, 90, 4, 0, 0, 0, 0]
905	CCGCATCGCTGAGGGG	[91, 5, 91, 6, 0, 0, 0, 0]
906	GAGGGGATAGCATACC	[92, 5, 92, 6, 0, 0, 0, 0]
907	CAGCACAAACCCTCGC	[91, 7, 91, 8, 0, 0, 0, 0]
908	GGGTGATCGGCCGTTA	[90, 7, 90, 8, 0, 0, 0, 0]
909	GTCGTAATGTGCTGTG	[91, 9, 91, 10, 0, 0, 0, 0]
910	TTCTATCGATCTCCTT	[92, 9, 92, 10, 0, 0, 0, 0]
911	CGCAACAAAATGCAAA	[93, 1, 93, 2, 0, 0, 0, 0]
912	ACCATGTTGAAATTGT	[94, 1, 94, 2, 0, 0, 0, 0]
913	GCTGCCGACACGAGGC	[93, 3, 93, 4, 0, 0, 0, 0]
914	ACACGGCGTCAGCGAT	[92, 3, 92, 4, 0, 0, 0, 0]
915	CGCATCTACCTAGCAA	[93, 5, 93, 6, 0, 0, 0, 0]
916	TAAGACAAGTAGAACA	[94, 5, 94, 6, 0, 0, 0, 0]
917	TTGTGTTGGGTGTAGT	[93, 7, 93, 8, 0, 0, 0, 0]
918	GGATTCATTTAACTAC	[92, 7, 92, 8, 0, 0, 0, 0]
919	CGATGTTATTACCTAA	[93, 9, 93, 10, 0, 0, 0, 0]
920	TACCATGAGGAGCAGG	[94, 9, 94, 10, 0, 0, 0, 0]
921	GATTGACTAATACATT	[95, 1, 95, 2, 0, 0, 0, 0]
922	TATGAATCCAGACACG	[96, 1, 96, 2, 0, 0, 0, 0]
923	AGGTACACTCCGGGGA	[95, 3, 95, 4, 0, 0, 0, 0]
924	GTAGTCTGTAGGGTGA	[94, 3, 94, 4, 0, 0, 0, 0]
925	TATACCCGGCAAGCTC	[95, 5, 95, 6, 0, 0, 0, 0]
926	GTCAAGTGGTATAGCC	[96, 5, 96, 6, 0, 0, 0, 0]
927	CGCAGCACTACGCTCC	[95, 7, 95, 8, 0, 0, 0, 0]
928	AAATACTGCCCACGGT	[94, 7, 94, 8, 0, 0, 0, 0]
929	ATTAGGCACTCCATAA	[95, 9, 95, 10, 0, 0, 0, 0]
930	AGGCGTCTCAGGAAGT	[96, 9, 96, 10, 0, 0, 0, 0]
931	GTTTTGTGCTCGACAA	[97, 1, 97, 2, 0, 0, 0, 0]
932	TACCCTCCCTCTGCGG	[98, 1, 98, 2, 0, 0, 0, 0]
933	CGCGACCACATTGGCA	[97, 3, 97, 4, 0, 0, 0, 0]
934	CTATAAGACTACTCCA	[96, 3, 96, 4, 0, 0, 0, 0]
935	ACCACCTGTTGACCGA	[97, 5, 97, 6, 0, 0, 0, 0]
936	TCCAGAGCTAAGAAAA	[98, 5, 98, 6, 0, 0, 0, 0]
937	CCTCGTGATATCAGAG	[97, 7, 97, 8, 0, 0, 0, 0]
938	GTCGTAACTCGGTCGC	[96, 7, 96, 8, 0, 0, 0, 0]
939	GGTATGCATTGGCTCA	[97, 9, 97, 10, 0, 0, 0, 0]
940	AAACGTCTAGTATTTC	[98, 9, 98, 10, 0, 0, 0, 0]
941	TAGACTCAGCGTGAGG	[99, 3, 99, 4, 0, 0, 0, 0]
942	TATGGGCCTCATCCCC	[98, 3, 98, 4, 0, 0, 0, 0]
943	TGACGCAGCATGTATG	[99, 7, 99, 8, 0, 0, 0, 0]
944	TACTCATCAGCACCTA	[98, 7, 98, 8, 0, 0, 0, 0]
945	TAACCTGGCCATCCCT	[0, 2, 0, 3, 0, 0, 0, 0]
946	CGAGGGTTTGTTTCAC	[19, 2, 19, 3, 0, 0, 0, 0]
947	GTATGATTTCCGGTTT	[0, 6, 0, 7, 0, 0, 0, 0]
948	GGGCACTCGTATAACC	[19, 6, 19, 7, 0, 0, 0, 0]
949	ACCCGAGCGCGGCCAT	[2, 2, 2, 3, 0, 0, 0, 0]
950	GTTATTTCTATTTCGA	[17, 2, 17, 3, 0, 0, 0, 0]
951	CACTGAGTCGCTCAGC	[2, 6, 2, 7, 0, 0, 0, 0]
952	CGGAACAGCCAAGGCA	[17, 6, 17, 7, 0, 0, 0, 0]
953	ACAGGCGGACAGCTAA	[4, 2, 4, 3, 0, 0, 0, 0]

Strand	Sequence	Voxel
954	GAACTTGAATCATGGT	[15, 2, 15, 3, 0, 0, 0, 0]
955	TCAGAAACTTCCAGCT	[4, 6, 4, 7, 0, 0, 0, 0]
956	TGACGATCCGCAGGGT	[15, 6, 15, 7, 0, 0, 0, 0]
957	GAGGGAACTGCGATCA	[6, 2, 6, 3, 0, 0, 0, 0]
958	TTAGTGAGGTTTCCTT	[13, 2, 13, 3, 0, 0, 0, 0]
959	CCAGGTCAAGTTTTGG	[6, 6, 6, 7, 0, 0, 0, 0]
960	CTTACATCGCCCCCTA	[13, 6, 13, 7, 0, 0, 0, 0]
961	AGATGTTCTCAGTCGT	[8, 2, 8, 3, 0, 0, 0, 0]
962	CGAGTCGTAACCTCGT	[11, 2, 11, 3, 0, 0, 0, 0]
963	ATAATAGTTTAATTTG	[8, 6, 8, 7, 0, 0, 0, 0]
964	AGTTTCCTCAGAAGTG	[11, 6, 11, 7, 0, 0, 0, 0]
965	CCCAGTGACCAAGGAG	[10, 2, 10, 3, 0, 0, 0, 0]
966	GGAATGCAACACCGGC	[29, 2, 29, 3, 0, 0, 0, 0]
967	CTAATATAGTATAGCG	[10, 4, 10, 5, 0, 0, 0, 0]
968	CTCGACGGAGGATATG	[9, 4, 9, 5, 0, 0, 0, 0]
969	TCTTTCTCTGGGTAAG	[10, 6, 10, 7, 0, 0, 0, 0]
970	ATGTGGTTCCATTACG	[29, 6, 29, 7, 0, 0, 0, 0]
971	CACGCGAGCCACCGCA	[10, 8, 10, 9, 0, 0, 0, 0]
972	ATCGACTAGGAAGGAC	[9, 8, 9, 9, 0, 0, 0, 0]
973	GATAGCTGCTATGTAG	[12, 2, 12, 3, 0, 0, 0, 0]
974	ATCTGGTCATTGAAAG	[27, 2, 27, 3, 0, 0, 0, 0]
975	GACAGGGAGAATATGG	[12, 4, 12, 5, 0, 0, 0, 0]
976	AAAGACTGTGCGAGAT	[7, 4, 7, 5, 0, 0, 0, 0]
977	GGTCAGAAGCTCGACA	[12, 6, 12, 7, 0, 0, 0, 0]
978	AGCTCTGTTCCTATGA	[27, 6, 27, 7, 0, 0, 0, 0]
979	CCCCCAAGTGAGCTTT	[12, 8, 12, 9, 0, 0, 0, 0]
980	GAGTCGGCCTGACAGA	[7, 8, 7, 9, 0, 0, 0, 0]
981	TCATCCGGACGCTTAG	[14, 2, 14, 3, 0, 0, 0, 0]
982	CGCCCACTCTATGAAC	[25, 2, 25, 3, 0, 0, 0, 0]
983	GGCGCATATTCATAAC	[14, 4, 14, 5, 0, 0, 0, 0]
984	ACACTGACACCCTTTT	[5, 4, 5, 5, 0, 0, 0, 0]
985	CCTATCTTGGATATCG	[14, 6, 14, 7, 0, 0, 0, 0]
986	CAGCCCATTACCCACA	[25, 6, 25, 7, 0, 0, 0, 0]
987	AGCTGTTCGCTGTGAC	[14, 8, 14, 9, 0, 0, 0, 0]
988	CAGAGCCGAGGTCAGG	[5, 8, 5, 9, 0, 0, 0, 0]
989	CTAACGATTCCCCGTC	[16, 2, 16, 3, 0, 0, 0, 0]
990	TCCAAACCAAATTGTG	[23, 2, 23, 3, 0, 0, 0, 0]
991	AGATTGTATCGAGAAA	[16, 4, 16, 5, 0, 0, 0, 0]
992	GCACCGAAAAAAGCCC	[3, 4, 3, 5, 0, 0, 0, 0]
993	ATCAGTTATTACTTCG	[16, 6, 16, 7, 0, 0, 0, 0]
994	TGCCCATGGTGACACG	[23, 6, 23, 7, 0, 0, 0, 0]
995	GTCCAACAAGGAGAAA	[16, 8, 16, 9, 0, 0, 0, 0]
996	AACAGCATGGCTTCAT	[3, 8, 3, 9, 0, 0, 0, 0]
997	AGGTGGCCTGATAATC	[18, 2, 18, 3, 0, 0, 0, 0]

Strand	Sequence	Voxel
998	TCCCACGTACAACATA	[21, 2, 21, 3, 0, 0, 0, 0]
999	CTACCGCTCCCGAGCC	[18, 4, 18, 5, 0, 0, 0, 0]
1000	AGTTCGTATATGCTCT	[1, 4, 1, 5, 0, 0, 0, 0]
1001	CTTGACGAGTGGGAGG	[18, 6, 18, 7, 0, 0, 0, 0]
1002	TAATTAGTACGGCCAC	[21, 6, 21, 7, 0, 0, 0, 0]
1003	GACCATAGAAAGCAGG	[18, 8, 18, 9, 0, 0, 0, 0]
1004	GATACTTTGAAAAGGC	[1, 8, 1, 9, 0, 0, 0, 0]
1005	AATGCACAACCATACC	[20, 2, 20, 3, 0, 0, 0, 0]
1006	AACGGCGAATAAAAGC	[39, 2, 39, 3, 0, 0, 0, 0]
1007	CGTGCACATCACGTGG	[20, 4, 20, 5, 0, 0, 0, 0]
1008	CCTCTCCCTGCCGAGG	[19, 4, 19, 5, 0, 0, 0, 0]
1009	AGTACGACATCCCTGA	[20, 6, 20, 7, 0, 0, 0, 0]
1010	ACGGGGTTGGGGCATA	[39, 6, 39, 7, 0, 0, 0, 0]
1011	AGTATAGTTTGCTTTA	[20, 8, 20, 9, 0, 0, 0, 0]
1012	GAGGCGGCATCGGGTT	[19, 8, 19, 9, 0, 0, 0, 0]
1013	CACTTGAGGCAACCTA	[22, 2, 22, 3, 0, 0, 0, 0]
1014	GGTAGGTTCCGCCGCA	[37, 2, 37, 3, 0, 0, 0, 0]
1015	CAGGCTACACTGTTAG	[22, 4, 22, 5, 0, 0, 0, 0]
1016	GGTACACGGCCTGTTT	[17, 4, 17, 5, 0, 0, 0, 0]
1017	ATGTAGCAGCGCGCCT	[22, 6, 22, 7, 0, 0, 0, 0]
1018	TCAAGGCCCGACATCC	[37, 6, 37, 7, 0, 0, 0, 0]
1019	TATGGTTTAGAAACTG	[22, 8, 22, 9, 0, 0, 0, 0]
1020	TAGGTTAAATCAGCTA	[17, 8, 17, 9, 0, 0, 0, 0]
1021	CGAATCAAGGAGCACT	[24, 2, 24, 3, 0, 0, 0, 0]
1022	TCGCAACGAGGACGAT	[35, 2, 35, 3, 0, 0, 0, 0]
1023	ACTGTACGTATGTGAT	[24, 4, 24, 5, 0, 0, 0, 0]
1024	GTCGCATATATCCCAA	[15, 4, 15, 5, 0, 0, 0, 0]
1025	ATATCAAGGGTTGGTT	[24, 6, 24, 7, 0, 0, 0, 0]
1026	CGGCATGCGGTCTAAA	[35, 6, 35, 7, 0, 0, 0, 0]
1027	CATATATTGTCCCTCA	[24, 8, 24, 9, 0, 0, 0, 0]
1028	GCTATGCTAGGTAGAG	[15, 8, 15, 9, 0, 0, 0, 0]
1029	CTAATGAAGAGGATGT	[26, 2, 26, 3, 0, 0, 0, 0]
1030	ACTTGGGATTAGGATC	[33, 2, 33, 3, 0, 0, 0, 0]
1031	CGACCATGTTCCGCCC	[26, 4, 26, 5, 0, 0, 0, 0]
1032	TGGAGTTAGATGTCCG	[13, 4, 13, 5, 0, 0, 0, 0]
1033	CTCGGCCCCAGTAGAA	[26, 6, 26, 7, 0, 0, 0, 0]
1034	AGCCTACGTCCGTGCA	[33, 6, 33, 7, 0, 0, 0, 0]
1035	AATAAGGAGCCCAGCG	[26, 8, 26, 9, 0, 0, 0, 0]
1036	GTTTGAACCTGTTTAC	[13, 8, 13, 9, 0, 0, 0, 0]
1037	TACTAAAATAAGCCAC	[28, 2, 28, 3, 0, 0, 0, 0]
1038	AGAGTATAGATGGCCG	[31, 2, 31, 3, 0, 0, 0, 0]
1039	GGAGGCGGTGGGTGTT	[28, 4, 28, 5, 0, 0, 0, 0]
1040	CCAAGTCAGCCCCTCG	[11, 4, 11, 5, 0, 0, 0, 0]
1041	TAGTTTGATGACTACC	[28, 6, 28, 7, 0, 0, 0, 0]
1042	GATTGCCGTAAATGGT	[31, 6, 31, 7, 0, 0, 0, 0]
1043	TTTTTGTCGCTGTATT	[28, 8, 28, 9, 0, 0, 0, 0]
1044	GTCGCTGGCTAATCAC	[11, 8, 11, 9, 0, 0, 0, 0]
1045	TAGTCCACGCTGTTCA	[30, 2, 30, 3, 0, 0, 0, 0]
1046	ACACTAATCCGGGTAT	[49, 2, 49, 3, 0, 0, 0, 0]
1047	CCGCACGTGCGCTTTC	[30, 4, 30, 5, 0, 0, 0, 0]
1048	CGTCTTAAACGACTTT	[29, 4, 29, 5, 0, 0, 0, 0]
1049	CCTACTCTAGGAGAAG	[30, 6, 30, 7, 0, 0, 0, 0]
1050	CACGACGACGGGAATT	[49, 6, 49, 7, 0, 0, 0, 0]
1051	GGCGATACGCACTGCC	[30, 8, 30, 9, 0, 0, 0, 0]
1052	TTCCGCGTGGGTATAG	[29, 8, 29, 9, 0, 0, 0, 0]
1053	CAGAAACTAGTGGAGC	[32, 2, 32, 3, 0, 0, 0, 0]
1054	TGTCGTATAATGGGTA	[47, 2, 47, 3, 0, 0, 0, 0]
1055	GAGGTAGCAGGTCTAC	[32, 4, 32, 5, 0, 0, 0, 0]
1056	GTGTCAAGGGAAGTTC	[27, 4, 27, 5, 0, 0, 0, 0]
1057	ACTCTCGTGCGTATCG	[32, 6, 32, 7, 0, 0, 0, 0]
1058	TCCTCGGTAGGGTGTA	[47, 6, 47, 7, 0, 0, 0, 0]
1059	CGAGATGTATGCCAGC	[32, 8, 32, 9, 0, 0, 0, 0]
1060	TCATACGACAAGAACT	[27, 8, 27, 9, 0, 0, 0, 0]
1061	CGTCGTCTTCTCATAA	[34, 2, 34, 3, 0, 0, 0, 0]
1062	AAACCGTTATGGTTTC	[45, 2, 45, 3, 0, 0, 0, 0]
1063	TGGATATCAGGAGATC	[34, 4, 34, 5, 0, 0, 0, 0]
1064	TAACTAAGTGGGGCAC	[25, 4, 25, 5, 0, 0, 0, 0]
1065	TCAAGCTGATGTACCG	[34, 6, 34, 7, 0, 0, 0, 0]
1066	AACAGTGAGCTATTCG	[45, 6, 45, 7, 0, 0, 0, 0]
1067	CCCCAAGTGTCTTGCG	[34, 8, 34, 9, 0, 0, 0, 0]
1068	GGTACACCTCACTTGC	[25, 8, 25, 9, 0, 0, 0, 0]
1069	TCGTACAGGCTACATG	[36, 2, 36, 3, 0, 0, 0, 0]
1070	GCAGTCCGATGTTGGG	[43, 2, 43, 3, 0, 0, 0, 0]
1071	TATTTGACGGACTCAT	[36, 4, 36, 5, 0, 0, 0, 0]
1072	CCTACAATAGCTTTAT	[23, 4, 23, 5, 0, 0, 0, 0]
1073	TGTGGGCTAGCACGCA	[36, 6, 36, 7, 0, 0, 0, 0]
1074	TTTCAACTTCTTGCCA	[43, 6, 43, 7, 0, 0, 0, 0]
1075	CTAGGACCTGTCAAGT	[36, 8, 36, 9, 0, 0, 0, 0]
1076	GTGCAGCTATCCGAAT	[23, 8, 23, 9, 0, 0, 0, 0]
1077	TACGCTATTAACCCTT	[38, 2, 38, 3, 0, 0, 0, 0]

Strand	Sequence	Voxel
1078	TAAGCGCGCACCCGTT	[41, 2, 41, 3, 0, 0, 0, 0]
1079	GTGGGAGAGTCCGGTC	[38, 4, 38, 5, 0, 0, 0, 0]
1080	GTGGGTAAGTTATGGA	[21, 4, 21, 5, 0, 0, 0, 0]
1081	AGAACCGGTTGGACGG	[38, 6, 38, 7, 0, 0, 0, 0]
1082	GCCTGGCCCTACTTCA	[41, 6, 41, 7, 0, 0, 0, 0]
1083	CCATGAAAACTCTAGC	[38, 8, 38, 9, 0, 0, 0, 0]
1084	CGGTGAGATTCCCCAG	[21, 8, 21, 9, 0, 0, 0, 0]
1085	TACTTGAATCGCGTCG	[40, 2, 40, 3, 0, 0, 0, 0]
1086	CCACAAAGGGTGTCAG	[59, 2, 59, 3, 0, 0, 0, 0]
1087	GCGCCAGATCACCGAA	[40, 4, 40, 5, 0, 0, 0, 0]
1088	CGTACGCATACGATTT	[39, 4, 39, 5, 0, 0, 0, 0]
1089	CGGGGAGGGTCCTCAC	[40, 6, 40, 7, 0, 0, 0, 0]
1090	CTCTCCGCCATATTGT	[59, 6, 59, 7, 0, 0, 0, 0]
1091	AGCAGGTCTTGTAATG	[40, 8, 40, 9, 0, 0, 0, 0]
1092	ACGACTCTCATCTGAT	[39, 8, 39, 9, 0, 0, 0, 0]
1093	AATTCATCGTTAATGC	[42, 2, 42, 3, 0, 0, 0, 0]
1094	GTGCATCTACATGGTC	[57, 2, 57, 3, 0, 0, 0, 0]
1095	TGCTTATCCCGAACGA	[42, 4, 42, 5, 0, 0, 0, 0]
1096	GGAACTTGATGTCATG	[37, 4, 37, 5, 0, 0, 0, 0]
1097	AAAGCTTCGGTCCTTC	[42, 6, 42, 7, 0, 0, 0, 0]
1098	AATTAGAAGTCGAATT	[57, 6, 57, 7, 0, 0, 0, 0]
1099	ATTAATACGGCTAGAA	[42, 8, 42, 9, 0, 0, 0, 0]
1100	TGCTGGTGAAAGATAC	[37, 8, 37, 9, 0, 0, 0, 0]
1101	CGTCACTTGACTTGAT	[44, 2, 44, 3, 0, 0, 0, 0]
1102	TGTTTTCGCTAGGTGG	[55, 2, 55, 3, 0, 0, 0, 0]
1103	GCTTCTCGGCTGAGGA	[44, 4, 44, 5, 0, 0, 0, 0]
1104	CTCGTTCGGGTGCTAC	[35, 4, 35, 5, 0, 0, 0, 0]
1105	GCCTTGTCATCTATAC	[44, 6, 44, 7, 0, 0, 0, 0]
1106	CGGGTGTCCCTCAAGC	[55, 6, 55, 7, 0, 0, 0, 0]
1107	GAGGAGCGCTGAAGCG	[44, 8, 44, 9, 0, 0, 0, 0]
1108	GCGTTAAACTGCCCAG	[35, 8, 35, 9, 0, 0, 0, 0]
1109	ACCCGAGATGACATCG	[46, 2, 46, 3, 0, 0, 0, 0]
1110	TCTGATGGATCTCAGC	[53, 2, 53, 3, 0, 0, 0, 0]
1111	CCCATGGACCCGCTCG	[46, 4, 46, 5, 0, 0, 0, 0]
1112	CCACATGAACCGCTCT	[33, 4, 33, 5, 0, 0, 0, 0]
1113	GCCTGTGATGGTGAAT	[46, 6, 46, 7, 0, 0, 0, 0]
1114	ACTCGCTAGTCAACTT	[53, 6, 53, 7, 0, 0, 0, 0]
1115	ACCAGTTCCGTAGTTC	[46, 8, 46, 9, 0, 0, 0, 0]
1116	GTAAACGATAGGTTTC	[33, 8, 33, 9, 0, 0, 0, 0]
1117	TCACAGTGCACAAGGG	[48, 2, 48, 3, 0, 0, 0, 0]
1118	GATTGGGTATGAAAAC	[51, 2, 51, 3, 0, 0, 0, 0]
1119	CCCCGGAAGTGGAAAT	[48, 4, 48, 5, 0, 0, 0, 0]
1120	GCCACTACGATATTCA	[31, 4, 31, 5, 0, 0, 0, 0]
1121	GGAGAATCTTGATTTA	[48, 6, 48, 7, 0, 0, 0, 0]
1122	CCGAATTATGGTGTGT	[51, 6, 51, 7, 0, 0, 0, 0]
1123	GCTCTAAAGCTGCCAT	[48, 8, 48, 9, 0, 0, 0, 0]
1124	TCTGGTTCCCCACTGT	[31, 8, 31, 9, 0, 0, 0, 0]
1125	TCTGATATTAAGGAAT	[50, 2, 50, 3, 0, 0, 0, 0]
1126	CGGACGGAAAACTACA	[69, 2, 69, 3, 0, 0, 0, 0]
1127	CTGGTTTTCTGTGCTC	[50, 4, 50, 5, 0, 0, 0, 0]
1128	CCCGAGTCCAGCATTA	[49, 4, 49, 5, 0, 0, 0, 0]
1129	CCGTAATCGATTGCGC	[50, 6, 50, 7, 0, 0, 0, 0]
1130	GTAATGGTCGTAGTGG	[69, 6, 69, 7, 0, 0, 0, 0]
1131	TGCCATGACTAAGCCG	[50, 8, 50, 9, 0, 0, 0, 0]
1132	TATAAAGCGTTTGGAA	[49, 8, 49, 9, 0, 0, 0, 0]
1133	ACCAATCAAATAACTT	[52, 2, 52, 3, 0, 0, 0, 0]
1134	CTGTATGAATCTATGT	[67, 2, 67, 3, 0, 0, 0, 0]
1135	GATAATACTACACTAA	[52, 4, 52, 5, 0, 0, 0, 0]
1136	TGCGGCGCCCTGCGAA	[47, 4, 47, 5, 0, 0, 0, 0]
1137	TTCTGCTAATTGACGC	[52, 6, 52, 7, 0, 0, 0, 0]
1138	CCACCTTATTACGAGT	[67, 6, 67, 7, 0, 0, 0, 0]
1139	CTTCGTCAGCAAATTA	[52, 8, 52, 9, 0, 0, 0, 0]
1140	TACGAGCTAGACCTGT	[47, 8, 47, 9, 0, 0, 0, 0]
1141	AGGAGGTGTGACGGAG	[54, 2, 54, 3, 0, 0, 0, 0]
1142	CTAGAGCTACTCGCCG	[65, 2, 65, 3, 0, 0, 0, 0]
1143	CTCCCACAACCCTAAC	[54, 4, 54, 5, 0, 0, 0, 0]
1144	ATAGAATATAGGTCAC	[45, 4, 45, 5, 0, 0, 0, 0]
1145	GGACTATTTAATGATC	[54, 6, 54, 7, 0, 0, 0, 0]
1146	TGTACCATTATCAAAG	[65, 6, 65, 7, 0, 0, 0, 0]
1147	AGTAATTGCATTTCTT	[54, 8, 54, 9, 0, 0, 0, 0]
1148	CGCGGAACTTTAAACC	[45, 8, 45, 9, 0, 0, 0, 0]
1149	TACTGGAGTCGCTTTT	[56, 2, 56, 3, 0, 0, 0, 0]
1150	TAACACTTGGTCTCGA	[63, 2, 63, 3, 0, 0, 0, 0]
1151	GATGAACAAATGGCAA	[56, 4, 56, 5, 0, 0, 0, 0]
1152	AGCACGTAGAGATAAT	[43, 4, 43, 5, 0, 0, 0, 0]
1153	ACCATTGTGGGTGACC	[56, 6, 56, 7, 0, 0, 0, 0]
1154	ATAGAATGCTATTGAG	[63, 6, 63, 7, 0, 0, 0, 0]
1155	CAGTGCGGCAAAAGAT	[56, 8, 56, 9, 0, 0, 0, 0]
1156	GTTATACAGGTCCGGC	[43, 8, 43, 9, 0, 0, 0, 0]
1157	GGGAGCTGAGTAAATG	[58, 2, 58, 3, 0, 0, 0, 0]

Strand	Sequence	Voxel
1158	GGTAGAAGGAACTCTG	[61, 2, 61, 3, 0, 0, 0, 0]
1159	TTATATTAACTTACCT	[58, 4, 58, 5, 0, 0, 0, 0]
1160	CACTCGCACTTAGATC	[41, 4, 41, 5, 0, 0, 0, 0]
1161	ACTTAATACGCGGACA	[58, 6, 58, 7, 0, 0, 0, 0]
1162	GCGGTAACATCACATA	[61, 6, 61, 7, 0, 0, 0, 0]
1163	CAGGCAAGCGGCGAAA	[58, 8, 58, 9, 0, 0, 0, 0]
1164	ACTTACGTGTAGTGTC	[41, 8, 41, 9, 0, 0, 0, 0]
1165	ATTACTGGCACAGGAT	[60, 2, 60, 3, 0, 0, 0, 0]
1166	CTGGTCTCAAACGTCC	[79, 2, 79, 3, 0, 0, 0, 0]
1167	AATGTTCTTTCAGGCT	[60, 4, 60, 5, 0, 0, 0, 0]
1168	ACCTATATAGCCATTT	[59, 4, 59, 5, 0, 0, 0, 0]
1169	GCAGGGTGCGAACCCG	[60, 6, 60, 7, 0, 0, 0, 0]
1170	AACTCATATACGTCTT	[79, 6, 79, 7, 0, 0, 0, 0]
1171	GAGCTCACCCGTCGAT	[60, 8, 60, 9, 0, 0, 0, 0]
1172	CGACCATTGGTCATTG	[59, 8, 59, 9, 0, 0, 0, 0]
1173	GCCGATGGAAAAATCA	[62, 2, 62, 3, 0, 0, 0, 0]
1174	CTGCTCCTTTAGGGTC	[77, 2, 77, 3, 0, 0, 0, 0]
1175	CTAGTAACTCAATTTT	[62, 4, 62, 5, 0, 0, 0, 0]
1176	TACCGAGCAAAGTATT	[57, 4, 57, 5, 0, 0, 0, 0]
1177	CCTAGGCGCAAGGCGC	[62, 6, 62, 7, 0, 0, 0, 0]
1178	GAATATCCCCGGTTGA	[77, 6, 77, 7, 0, 0, 0, 0]
1179	CGTTTATTGAGGTTAG	[62, 8, 62, 9, 0, 0, 0, 0]
1180	CGCTGATCCGGTTTAC	[57, 8, 57, 9, 0, 0, 0, 0]
1181	AAGAGCAATTATGTGA	[64, 2, 64, 3, 0, 0, 0, 0]
1182	CCCCTTCGTTTAAAGA	[75, 2, 75, 3, 0, 0, 0, 0]
1183	CTGAAGGAAGACGTCC	[64, 4, 64, 5, 0, 0, 0, 0]
1184	TGGCTCGTACCCATCC	[55, 4, 55, 5, 0, 0, 0, 0]
1185	AGGGTTCATAGGCGGA	[64, 6, 64, 7, 0, 0, 0, 0]
1186	AGATGCGATTTGTACG	[75, 6, 75, 7, 0, 0, 0, 0]
1187	TAGGCAAGCGATAGTA	[64, 8, 64, 9, 0, 0, 0, 0]
1188	GAAAACTGCACAACTT	[55, 8, 55, 9, 0, 0, 0, 0]
1189	CCTAGAACTAAGAACA	[66, 2, 66, 3, 0, 0, 0, 0]
1190	CCCGACAAGGCAGCAG	[73, 2, 73, 3, 0, 0, 0, 0]
1191	TGGTCGGTCCCCGCTC	[66, 4, 66, 5, 0, 0, 0, 0]
1192	CAACATTTTATCTCTT	[53, 4, 53, 5, 0, 0, 0, 0]
1193	TGGGAGAATAGCGCCT	[66, 6, 66, 7, 0, 0, 0, 0]
1194	GCGCGGGCTGACTCTT	[73, 6, 73, 7, 0, 0, 0, 0]
1195	GGTATTTTTATCCATT	[66, 8, 66, 9, 0, 0, 0, 0]
1196	TGATCCTGCGTACCTT	[53, 8, 53, 9, 0, 0, 0, 0]
1197	GCCCGACGGATGCGTT	[68, 2, 68, 3, 0, 0, 0, 0]
1198	GATGATATGGTAATCC	[71, 2, 71, 3, 0, 0, 0, 0]
1199	ACCTAATGCGAAGGTC	[68, 4, 68, 5, 0, 0, 0, 0]
1200	GCCAGTAGGCCGGGCT	[51, 4, 51, 5, 0, 0, 0, 0]
1201	GATATCGCTATAATAG	[68, 6, 68, 7, 0, 0, 0, 0]
1202	GCTGATGCCCTGCTTC	[71, 6, 71, 7, 0, 0, 0, 0]
1203	ACAGTGCCCGCATTCA	[68, 8, 68, 9, 0, 0, 0, 0]
1204	CCATATGACTTGTACT	[51, 8, 51, 9, 0, 0, 0, 0]
1205	TATTGAAGACACTCAC	[70, 2, 70, 3, 0, 0, 0, 0]
1206	CCCGCGTATCGGGACA	[89, 2, 89, 3, 0, 0, 0, 0]
1207	AGGTCATCCTACAACT	[70, 4, 70, 5, 0, 0, 0, 0]
1208	GCACTAAGCGCCTCCG	[69, 4, 69, 5, 0, 0, 0, 0]
1209	TTACACATAGGCTGCG	[70, 6, 70, 7, 0, 0, 0, 0]
1210	AAGTTGAATCGTCTAC	[89, 6, 89, 7, 0, 0, 0, 0]
1211	GCTGTGCCGCCCACCA	[70, 8, 70, 9, 0, 0, 0, 0]
1212	CGTCCCATATTTTATA	[69, 8, 69, 9, 0, 0, 0, 0]
1213	CAAAGGGCATGTGAAG	[72, 2, 72, 3, 0, 0, 0, 0]
1214	CGATGCTTTTGCCACA	[87, 2, 87, 3, 0, 0, 0, 0]
1215	AGGATGGCGTGAACCC	[72, 4, 72, 5, 0, 0, 0, 0]
1216	TAACAGCAGGTCGGCC	[67, 4, 67, 5, 0, 0, 0, 0]
1217	TTTACGCTAAGCGGGT	[72, 6, 72, 7, 0, 0, 0, 0]
1218	ACATGAGGTGGCTGGT	[87, 6, 87, 7, 0, 0, 0, 0]
1219	GTGGCGCTGTCAAGAC	[72, 8, 72, 9, 0, 0, 0, 0]
1220	ATACCCTATTGTCGTT	[67, 8, 67, 9, 0, 0, 0, 0]
1221	ACGGGACATTGTTCAT	[74, 2, 74, 3, 0, 0, 0, 0]
1222	ACTTGGACAAAGTGAG	[85, 2, 85, 3, 0, 0, 0, 0]
1223	ACATTACTGCCCTAAC	[74, 4, 74, 5, 0, 0, 0, 0]
1224	AGTGTTTTATGCTGGG	[65, 4, 65, 5, 0, 0, 0, 0]
1225	AGTAACGCGGCACTAG	[74, 6, 74, 7, 0, 0, 0, 0]
1226	CGTGACGGTGAATCTT	[85, 6, 85, 7, 0, 0, 0, 0]
1227	CATACCGTAGCGGGTC	[74, 8, 74, 9, 0, 0, 0, 0]
1228	ATCATGAGTTTTTTGT	[65, 8, 65, 9, 0, 0, 0, 0]
1229	GGGGACTCGCGTAGCT	[76, 2, 76, 3, 0, 0, 0, 0]
1230	GATAGAGAACTGTCCC	[83, 2, 83, 3, 0, 0, 0, 0]
1231	CTGAATGGTATTCTTC	[76, 4, 76, 5, 0, 0, 0, 0]
1232	TTCTGAATCGCGGGCT	[63, 4, 63, 5, 0, 0, 0, 0]
1233	ACTCGTCGCCTGTGAA	[76, 6, 76, 7, 0, 0, 0, 0]
1234	ATCCCGGATCTTGTAT	[83, 6, 83, 7, 0, 0, 0, 0]
1235	AGACATAGATGCCGTT	[76, 8, 76, 9, 0, 0, 0, 0]
1236	CGTAGGAGTTGACCTA	[63, 8, 63, 9, 0, 0, 0, 0]
1237	TATTGCTCAGGCCTCG	[78, 2, 78, 3, 0, 0, 0, 0]

Strand	Sequence	Voxel
1238	CTTGGACATTGCGCTT	[81, 2, 81, 3, 0, 0, 0, 0]
1239	CTTACTTGTCAATTTC	[78, 4, 78, 5, 0, 0, 0, 0]
1240	CTTCCATGTAATTATA	[61, 4, 61, 5, 0, 0, 0, 0]
1241	GCTCATTCACGCCCTG	[78, 6, 78, 7, 0, 0, 0, 0]
1242	TTAACCATAAGGTCCG	[81, 6, 81, 7, 0, 0, 0, 0]
1243	CCAGCAGTGGTGCGTC	[78, 8, 78, 9, 0, 0, 0, 0]
1244	GACCACGTCCTCTCCT	[61, 8, 61, 9, 0, 0, 0, 0]
1245	CTCCGCATCCCGGTCA	[80, 2, 80, 3, 0, 0, 0, 0]
1246	CGCGAGACCCTCACGC	[99, 2, 99, 3, 0, 0, 0, 0]
1247	TAACAAGGGCCTACCT	[80, 4, 80, 5, 0, 0, 0, 0]
1248	ACACAGTGTGCAGGGT	[79, 4, 79, 5, 0, 0, 0, 0]
1249	GCGACGCTTGCCATCG	[80, 6, 80, 7, 0, 0, 0, 0]
1250	TTTTAACACATACATG	[99, 6, 99, 7, 0, 0, 0, 0]
1251	GAAGGCTGCACTTTAA	[80, 8, 80, 9, 0, 0, 0, 0]
1252	GAGCCGATGGAGTGTT	[79, 8, 79, 9, 0, 0, 0, 0]
1253	CGGCGCCGCTTGGTAA	[82, 2, 82, 3, 0, 0, 0, 0]
1254	CACAAAACTGCCAATG	[97, 2, 97, 3, 0, 0, 0, 0]
1255	GGTTGCGGTGATCAAT	[82, 4, 82, 5, 0, 0, 0, 0]
1256	ATCGGATTCCGGCGGA	[77, 4, 77, 5, 0, 0, 0, 0]
1257	CCCGGTGGCACGTAAA	[82, 6, 82, 7, 0, 0, 0, 0]
1258	CAGGTGGTCTCTGATA	[97, 6, 97, 7, 0, 0, 0, 0]
1259	GTTGTTCCGGAACAGA	[82, 8, 82, 9, 0, 0, 0, 0]
1260	CTGCTTTTTATAAAAA	[77, 8, 77, 9, 0, 0, 0, 0]
1261	ATGTTCCGCGGGCATC	[84, 2, 84, 3, 0, 0, 0, 0]
1262	AGTCAATCTCCCCGGA	[95, 2, 95, 3, 0, 0, 0, 0]
1263	GCGGCGAACATCGTGC	[84, 4, 84, 5, 0, 0, 0, 0]
1264	CGTGGGACATTCCACG	[75, 4, 75, 5, 0, 0, 0, 0]
1265	CTGCTGAAAAAACGAC	[84, 6, 84, 7, 0, 0, 0, 0]
1266	CGGGTATAGGAGCGTA	[95, 6, 95, 7, 0, 0, 0, 0]
1267	GCCAAAATGAGTAAGG	[84, 8, 84, 9, 0, 0, 0, 0]
1268	GCTAAGGGTTTTGCAT	[75, 8, 75, 9, 0, 0, 0, 0]
1269	GCGCCAGACCATGCGA	[86, 2, 86, 3, 0, 0, 0, 0]
1270	TTGTTGCGGCCTCGTG	[93, 2, 93, 3, 0, 0, 0, 0]
1271	GGCGGATACTAAGCCG	[86, 4, 86, 5, 0, 0, 0, 0]
1272	GACCCAGGTAGGTTAT	[73, 4, 73, 5, 0, 0, 0, 0]
1273	CGTCCTGTGCGAGATA	[86, 6, 86, 7, 0, 0, 0, 0]
1274	TAGATGCGACTACACC	[93, 6, 93, 7, 0, 0, 0, 0]
1275	CAGAGATGGAGAACAT	[86, 8, 86, 9, 0, 0, 0, 0]
1276	TCACATACCAGCTGGA	[73, 8, 73, 9, 0, 0, 0, 0]
1277	ATATTGTAAACGGTTT	[88, 2, 88, 3, 0, 0, 0, 0]
1278	AGCGTGATGCAGGCGT	[91, 2, 91, 3, 0, 0, 0, 0]
1279	ACCTTCAAATATAACT	[88, 4, 88, 5, 0, 0, 0, 0]
1280	CCATATTAACCTGCCA	[71, 4, 71, 5, 0, 0, 0, 0]
1281	GACTCTCTTGGTTCAA	[88, 6, 88, 7, 0, 0, 0, 0]
1282	CGATGCGGGCGAGGGT	[91, 6, 91, 7, 0, 0, 0, 0]
1283	CTCAATAAAGGGCTGC	[88, 8, 88, 9, 0, 0, 0, 0]
1284	GCATGAGAGGCGCAGA	[71, 8, 71, 9, 0, 0, 0, 0]
1285	TTGTGAACTTGCGGGG	[90, 4, 90, 5, 0, 0, 0, 0]
1286	AGTGTGGTCTGTTTAA	[89, 4, 89, 5, 0, 0, 0, 0]
1287	CTGTACTATAACGGCC	[90, 8, 90, 9, 0, 0, 0, 0]
1288	GACTCTACCCTGGGAA	[89, 8, 89, 9, 0, 0, 0, 0]
1289	ATCCCCTCATCGCTGA	[92, 4, 92, 5, 0, 0, 0, 0]
1290	CATCTTAACGACCGTT	[87, 4, 87, 5, 0, 0, 0, 0]
1291	CGATAGAAGTAGTTAA	[92, 8, 92, 9, 0, 0, 0, 0]
1292	AGAACTCTTGATGTCC	[87, 8, 87, 9, 0, 0, 0, 0]
1293	TTGTCTTATCACCCTA	[94, 4, 94, 5, 0, 0, 0, 0]
1294	CATACACACCACAATG	[85, 4, 85, 5, 0, 0, 0, 0]
1295	TCATGGTAACCGTGGG	[94, 8, 94, 9, 0, 0, 0, 0]
1296	AAACTGAGTAAGACCT	[85, 8, 85, 9, 0, 0, 0, 0]
1297	CACTTGACTGGAGTAG	[96, 4, 96, 5, 0, 0, 0, 0]
1298	GTTAGTGGTGGCACCC	[83, 4, 83, 5, 0, 0, 0, 0]
1299	AGACGCCTGCGACCGA	[96, 8, 96, 9, 0, 0, 0, 0]
1300	TCCCTAAATGTCCGTG	[83, 8, 83, 9, 0, 0, 0, 0]
1301	GCTCTGGAGGGGATGA	[98, 4, 98, 5, 0, 0, 0, 0]
1302	TTTGCACCACCTATAC	[81, 4, 81, 5, 0, 0, 0, 0]
1303	AGACGTTTTAGGTGCT	[98, 8, 98, 9, 0, 0, 0, 0]
1304	AATATTGCAGTATTCC	[81, 8, 81, 9, 0, 0, 0, 0]
1305	CCAGGTTAAGTGGCTC	[0, 3, 0, 4, 0, 0, 0, 0]
1306	AATCATACTCACGGTT	[0, 7, 0, 8, 0, 0, 0, 0]
1307	CCGTCGAGCCCTGCGC	[9, 3, 9, 4, 0, 0, 0, 0]
1308	TAGTCGATTACGCTTC	[9, 7, 9, 8, 0, 0, 0, 0]
1309	ACTCCGGCCTCCTTGG	[10, 1, 10, 2, 0, 0, 0, 0]
1310	TATATTAGCTTACCCA	[10, 5, 10, 6, 0, 0, 0, 0]
1311	CTCGCGTGGCACGTCT	[10, 9, 10, 10, 0, 0, 0, 0]
1312	AACCCTCGGAGGCAAG	[19, 1, 19, 2, 0, 0, 0, 0]
1313	GAGTGCCCCCTCGGCA	[19, 5, 19, 6, 0, 0, 0, 0]
1314	CCATAGCTAACCCGAT	[19, 9, 19, 10, 0, 0, 0, 0]
1315	TGTGCATTCCACGTGA	[20, 3, 20, 4, 0, 0, 0, 0]
1316	GTCGTACTTAAAGCAA	[20, 7, 20, 8, 0, 0, 0, 0]
1317	TTAAGACGGCCGGTGT	[29, 3, 29, 4, 0, 0, 0, 0]

Strand	Sequence	Voxel
1318	ACGCGGAACGTAATGG	[29, 7, 29, 8, 0, 0, 0, 0]
1319	TACCGGGGTGAACAGC	[30, 1, 30, 2, 0, 0, 0, 0]
1320	ACGTGCGGCTTCTCCT	[30, 5, 30, 6, 0, 0, 0, 0]
1321	GTATCGCCTTGTGTAT	[30, 9, 30, 10, 0, 0, 0, 0]
1322	TCGCCGTTTGCTCGCG	[39, 1, 39, 2, 0, 0, 0, 0]
1323	AACCCCGTAAATCGTA	[39, 5, 39, 6, 0, 0, 0, 0]
1324	GGGACTGGATCAGATG	[39, 9, 39, 10, 0, 0, 0, 0]
1325	TTCAAGTATTCGGTGA	[40, 3, 40, 4, 0, 0, 0, 0]
1326	CCTCCCCGCATTACAA	[40, 7, 40, 8, 0, 0, 0, 0]
1327	GACTCGGGATACCCGG	[49, 3, 49, 4, 0, 0, 0, 0]
1328	GCTTTATAAATTCCCG	[49, 7, 49, 8, 0, 0, 0, 0]
1329	AATCTCGGATTCCTTA	[50, 1, 50, 2, 0, 0, 0, 0]
1330	AAAACCAGGCGCAATC	[50, 5, 50, 6, 0, 0, 0, 0]
1331	TCATGGCATAAACGAA	[50, 9, 50, 10, 0, 0, 0, 0]
1332	CTTTGTGGTCCACTAT	[59, 1, 59, 2, 0, 0, 0, 0]
1333	GCGGAGAGAAATGGCT	[59, 5, 59, 6, 0, 0, 0, 0]
1334	TGAGCGATCAATGACC	[59, 9, 59, 10, 0, 0, 0, 0]
1335	CCAGTAATAGCCTGAA	[60, 3, 60, 4, 0, 0, 0, 0]
1336	CACCCTGCATCGACGG	[60, 7, 60, 8, 0, 0, 0, 0]
1337	CTTAGTGCTGTAGTTT	[69, 3, 69, 4, 0, 0, 0, 0]
1338	ATGGGACGCCACTACG	[69, 7, 69, 8, 0, 0, 0, 0]
1339	CTTTCAGTGTGAGTGT	[70, 1, 70, 2, 0, 0, 0, 0]
1340	GATGACCTCGCAGCCT	[70, 5, 70, 6, 0, 0, 0, 0]
1341	GGCACAGCTTGGCGAT	[70, 9, 70, 10, 0, 0, 0, 0]
1342	GAGACCAGGCGTCCGG	[79, 1, 79, 2, 0, 0, 0, 0]
1343	TATGAGTTACCCTGCA	[79, 5, 79, 6, 0, 0, 0, 0]
1344	TGATAATTAACACTCC	[79, 9, 79, 10, 0, 0, 0, 0]
1345	ATGCGGAGAGGTAGGC	[80, 3, 80, 4, 0, 0, 0, 0]
1346	AGCGTCGCTTAAAGTG	[80, 7, 80, 8, 0, 0, 0, 0]
1347	ACCACACTTGTCCCGA	[89, 3, 89, 4, 0, 0, 0, 0]
1348	GTAGAGTCGTAGACGA	[89, 7, 89, 8, 0, 0, 0, 0]
1349	TCGTGCGAATGTACTC	[90, 1, 90, 2, 0, 0, 0, 0]
1350	GTTCACAAGCTGGCTA	[90, 5, 90, 6, 0, 0, 0, 0]
1351	TAGTACAGTGGGAGTG	[90, 9, 90, 10, 0, 0, 0, 0]
1352	GTCTCGCGAGACGCTA	[99, 1, 99, 2, 0, 0, 0, 0]
1353	TGTTAAAACCCACAGG	[99, 5, 99, 6, 0, 0, 0, 0]
1354	AACTTCGGGGCGCATT	[99, 9, 99, 10, 0, 0, 0, 0]
1355	AGCGAATTGAGCCACT	[0, 4, 0, 5, 0, 0, 0, 0]
1356	CACCGTTCAACCGTGA	[0, 8, 0, 9, 0, 0, 0, 0]
1357	CAACAGTTGTGCGTTG	[1, 2, 1, 3, 0, 0, 0, 0]
1358	CTATCTTCGAGATGCG	[1, 6, 1, 7, 0, 0, 0, 0]
1359	GTATTAGCTTGAGACT	[2, 4, 2, 5, 0, 0, 0, 0]
1360	GGGGTCACTACTCGAT	[2, 8, 2, 9, 0, 0, 0, 0]
1361	ATGAACACCCCGCTGC	[3, 2, 3, 3, 0, 0, 0, 0]
1362	GGGCTGATCCCGCAAC	[3, 6, 3, 7, 0, 0, 0, 0]
1363	CCATATCCTAAGCGTT	[4, 4, 4, 5, 0, 0, 0, 0]
1364	TATGATTGGTTCCGGT	[4, 8, 4, 9, 0, 0, 0, 0]
1365	GCATCAGATCGCGATC	[5, 2, 5, 3, 0, 0, 0, 0]
1366	GGCATCACCTAGAAAT	[5, 6, 5, 7, 0, 0, 0, 0]
1367	CACCAGAACCTAGCTA	[6, 4, 6, 5, 0, 0, 0, 0]
1368	AGCTTGGGCCATTATA	[6, 8, 6, 9, 0, 0, 0, 0]
1369	ATCCTTCCAACATCTC	[7, 2, 7, 3, 0, 0, 0, 0]
1370	CTTTACGCGCTTGAAC	[7, 6, 7, 7, 0, 0, 0, 0]
1371	GCGGGCCGCAACCAAA	[8, 4, 8, 5, 0, 0, 0, 0]
1372	ATTACCGTATAGCCAG	[8, 8, 8, 9, 0, 0, 0, 0]
1373	CCAGCCGCGCGCAGGG	[9, 2, 9, 3, 0, 0, 0, 0]
1374	CGTTTGTCGAAGCGTA	[9, 6, 9, 7, 0, 0, 0, 0]
1375	CCACGGAAGAGTACAT	[90, 2, 90, 3, 0, 0, 0, 0]
1376	GATCACCCTAGCCAGC	[90, 6, 90, 7, 0, 0, 0, 0]
1377	CGAACGCACCCCTCAG	[91, 4, 91, 5, 0, 0, 0, 0]
1378	TTGTGCTGCACAGCAC	[91, 8, 91, 9, 0, 0, 0, 0]
1379	CGCCGTGTCGAAGTCT	[92, 2, 92, 3, 0, 0, 0, 0]
1380	ATGAATCCGGTATGCT	[92, 6, 92, 7, 0, 0, 0, 0]
1381	TCGGCAGCTTGCTAGG	[93, 4, 93, 5, 0, 0, 0, 0]
1382	CAACACAATTAGGTAA	[93, 8, 93, 9, 0, 0, 0, 0]
1383	CAGACTACACAATTTC	[94, 2, 94, 3, 0, 0, 0, 0]
1384	CAGTATTTTGTTCTAC	[94, 6, 94, 7, 0, 0, 0, 0]
1385	GTGTACCTGAGCTTGC	[95, 4, 95, 5, 0, 0, 0, 0]
1386	GTGCTGCGTTATGGAG	[95, 8, 95, 9, 0, 0, 0, 0]
1387	TCTTATAGCGTGTCTG	[96, 2, 96, 3, 0, 0, 0, 0]
1388	GTTACGACGGCTATAC	[96, 6, 96, 7, 0, 0, 0, 0]
1389	TGGTCGCGTCGGTCAA	[97, 4, 97, 5, 0, 0, 0, 0]
1390	TCACGAGGTGAGCCAA	[97, 8, 97, 9, 0, 0, 0, 0]
1391	GGCCCATACCGCAGAG	[98, 2, 98, 3, 0, 0, 0, 0]
1392	GATGAGTATTTTCTTA	[98, 6, 98, 7, 0, 0, 0, 0]
1393	TGAGTCTACCTGTGGG	[99, 4, 99, 5, 0, 0, 0, 0]
1394	CTGCGTCAAATGCGCC	[99, 8, 99, 9, 0, 0, 0, 0]
1395	TTTTTTTTTGTCCTATGTTTACTTTTTTTTTT	[1, 1, 0, 0, 0, 1, 0, 0]
1396	AACTGTTGTTTTTTTTTTTTTTTTAGGGATGG	[0, 0, 1, 2, 0, 0, 0, 2]
1397	TTTTTTTTCAACGCACGCTCGGGTTTTTTTTT	[1, 3, 0, 0, 2, 3, 0, 0]

Strand	Sequence	Voxel
1398	TACGAACTTTTTTTTTTTTTTTTTAGTCTCAA	[0, 0, 1, 4, 0, 0, 2, 4]
1399	TTTTTTTTAGAGCATAAATTCGCTTTTTTTTT	[1, 5, 0, 0, 0, 5, 0, 0]
1400	GAAGATAGTTTTTTTTTTTTTTTTAAACCGGA	[0, 0, 1, 6, 0, 0, 0, 6]
1401	TTTTTTTTCGCATCTCACTCAGTGTTTTTTTT	[1, 7, 0, 0, 2, 7, 0, 0]
1402	AAAGTATCTTTTTTTTTTTTTTTTATCGAGTA	[0, 0, 1, 8, 0, 0, 2, 8]
1403	TTTTTTTTGCCTTTTCGAACGGTGTTTTTTTTT	[1, 9, 0, 0, 0, 9, 0, 0]
1404	TTCATGTCTTTTTTTTTTTTTTTTACACACTT	[0, 0, 1, 10, 0, 0, 0, 10]
1405	TTTTTTTTTCAGAGTAGCGGAAATTTTTTTTT	[3, 1, 0, 0, 2, 1, 0, 0]
1406	GTGTTCATTTTTTTTTTTTTTTTTATGGCCGC	[0, 0, 3, 2, 0, 0, 2, 2]
1407	TTTTTTTTGCAGCGGGCCGCCTGTTTTTTTTT	[3, 3, 0, 0, 4, 3, 0, 0]
1408	TTCGGTGCTTTTTTTTTTTTTTTTAACGCTTA	[0, 0, 3, 4, 0, 0, 4, 4]
1409	TTTTTTTTGGGCTTTTGCTAATACTTTTTTTT	[3, 5, 0, 0, 2, 5, 0, 0]
1410	ATCAGCCCTTTTTTTTTTTTTTTTGCTGAGCG	[0, 0, 3, 6, 0, 0, 2, 6]
1411	TTTTTTTTGTTGCGGGGTTTCTGATTTTTTTT	[3, 7, 0, 0, 4, 7, 0, 0]
1412	ATGCTGTTTTTTTTTTTTTTTTTTACCGGAAC	[0, 0, 3, 8, 0, 0, 4, 8]
1413	TTTTTTTTATGAAGCCGTGACCCCTTTTTTTT	[3, 9, 0, 0, 2, 9, 0, 0]
1414	CCGGGCTATTTTTTTTTTTTTTTTAGAGACTG	[0, 0, 3, 10, 0, 0, 2, 10]
1415	TTTTTTTTACCGGGAGCCAGCCACTTTTTTTT	[5, 1, 0, 0, 4, 1, 0, 0]
1416	TCTGATGCTTTTTTTTTTTTTTTTTTAGCTGT	[0, 0, 5, 2, 0, 0, 4, 2]
1417	TTTTTTTTGATCGCGAGTTCCCTCTTTTTTTT	[5, 3, 0, 0, 6, 3, 0, 0]
1418	GTCAGTGTTTTTTTTTTTTTTTTTTAGCTAGG	[0, 0, 5, 4, 0, 0, 6, 4]
1419	TTTTTTTTAAAAGGGTGGATATGGTTTTTTTT	[5, 5, 0, 0, 4, 5, 0, 0]
1420	GTGATGCCTTTTTTTTTTTTTTTTAGCTGGAA	[0, 0, 5, 6, 0, 0, 4, 6]
1421	TTTTTTTTATTTCTAGTGACCTGGTTTTTTTT	[5, 7, 0, 0, 6, 7, 0, 0]
1422	CGGCTCTGTTTTTTTTTTTTTTTTTATAATGG	[0, 0, 5, 8, 0, 0, 6, 8]
1423	TTTTTTTTCCTGACCTCAATCATATTTTTTTT	[5, 9, 0, 0, 4, 9, 0, 0]
1424	CGGAGCTATTTTTTTTTTTTTTTTCGTCCCAC	[0, 0, 5, 10, 0, 0, 4, 10]
1425	TTTTTTTTCATCCCCTTTAAGAATTTTTTTT	[7, 1, 0, 0, 6, 1, 0, 0]
1426	GGAAGGATTTTTTTTTTTTTTTTTGATCGCA	[0, 0, 7, 2, 0, 0, 6, 2]
1427	TTTTTTTTGAGATGTTGAACATCTTTTTTTTT	[7, 3, 0, 0, 8, 3, 0, 0]
1428	CAGTCTTTTTTTTTTTTTTTTTTTTTGGTTG	[0, 0, 7, 4, 0, 0, 8, 4]
1429	TTTTTTTTATCTCGCATTCTGGTGTTTTTTTT	[7, 5, 0, 0, 6, 5, 0, 0]
1430	GCGTAAAGTTTTTTTTTTTTTTTTCCAAAACT	[0, 0, 7, 6, 0, 0, 6, 6]
1431	TTTTTTTTGTTCAAGCACTATTATTTTTTTTT	[7, 7, 0, 0, 8, 7, 0, 0]
1432	GCCGACTCTTTTTTTTTTTTTTTTCTGGCTAT	[0, 0, 7, 8, 0, 0, 8, 8]
1433	TTTTTTTTTCTGTCAGCCCAAGCTTTTTTTTT	[7, 9, 0, 0, 6, 9, 0, 0]
1434	AAAAGATGTTTTTTTTTTTTTTTTTAGCATAA	[0, 0, 7, 10, 0, 0, 6, 10]
1435	TTTTTTTTACGACCCCGCCGTGCGTTTTTTTT	[9, 1, 0, 0, 8, 1, 0, 0]
1436	GCGGCTGGTTTTTTTTTTTTTTTTACGACTGA	[0, 0, 9, 2, 0, 0, 8, 2]
1437	TTTTTTTTCATATCCTCGGCCCGCTTTTTTTT	[9, 5, 0, 0, 8, 5, 0, 0]
1438	GACAAACGTTTTTTTTTTTTTTTTCAAATTAA	[0, 0, 9, 6, 0, 0, 8, 6]
1439	TTTTTTTTGTCCTTCCACGGTAATTTTTTTTT	[9, 9, 0, 0, 8, 9, 0, 0]
1440	GCCTAAAGTTTTTTTTTTTTTTTTCGGGGGTG	[0, 0, 9, 10, 0, 0, 8, 10]
1441	TTTTTTTTTCGAACGAGGACTGTTTTTTTTTT	[11, 1, 0, 0, 12, 1, 0, 0]
1442	ACGACTCGTTTTTTTTTTTTTTTTCTACATAG	[0, 0, 11, 2, 0, 0, 12, 2]
1443	TTTTTTTTACGAGGTTTCACTGGGTTTTTTTT	[11, 3, 0, 0, 10, 3, 0, 0]
1444	TGACTTGGTTTTTTTTTTTTTTTTCGCTATAC	[0, 0, 11, 4, 0, 0, 10, 4]
1445	TTTTTTTTCGAGGGGCTCCCTGTCTTTTTTTT	[11, 5, 0, 0, 12, 5, 0, 0]
1446	AGGAAACTTTTTTTTTTTTTTTTTGTCGAGC	[0, 0, 11, 6, 0, 0, 12, 6]
1447	TTTTTTTTCACTTCTGGAGAAAGATTTTTTTT	[11, 7, 0, 0, 10, 7, 0, 0]
1448	CCAGCGACTTTTTTTTTTTTTTTTGCGGTGG	[0, 0, 11, 8, 0, 0, 10, 8]
1449	TTTTTTTTGTGATTAGCTTGGGGGTTTTTTTT	[11, 9, 0, 0, 12, 9, 0, 0]
1450	CAGTAGTTTTTTTTTTTTTTTTTGATATAC	[0, 0, 11, 10, 0, 0, 12, 10]
1451	TTTTTTTTACTCCTTCTAATGTGATTTTTTTT	[13, 1, 0, 0, 14, 1, 0, 0]
1452	CTCACTAATTTTTTTTTTTTTTTCTAAGCGT	[0, 0, 13, 2, 0, 0, 14, 2]
1453	TTTTTTTTAAGGAAACCAGCTATCTTTTTTTT	[13, 3, 0, 0, 12, 3, 0, 0]
1454	TAACTCCATTTTTTTTTTTTTTTTCCATATTC	[0, 0, 13, 4, 0, 0, 12, 4]
1455	TTTTTTTTCGGACATCTATGCGCCTTTTTTTT	[13, 5, 0, 0, 14, 5, 0, 0]
1456	GATGTAAGTTTTTTTTTTTTTTTTCGATATCC	[0, 0, 13, 6, 0, 0, 14, 6]
1457	TTTTTTTTTAGGGGGCTTCTGACCTTTTTTTT	[13, 7, 0, 0, 12, 7, 0, 0]
1458	GTTCAAACTTTTTTTTTTTTTTTTAAAGCTCA	[0, 0, 13, 8, 0, 0, 12, 8]
1459	TTTTTTTTGTAAACAGGAACAGCTTTTTTTTT	[13, 9, 0, 0, 14, 9, 0, 0]
1460	TGAGAATTTTTTTTTTTTTTTTTTAGAGCAG	[0, 0, 13, 10, 0, 0, 14, 10]
1461	TTTTTTTTGGATACGCTACCTATGTTTTTTTT	[15, 1, 0, 0, 16, 1, 0, 0]
1462	TCAAGTTCTTTTTTTTTTTTTTTTGACGGGGA	[0, 0, 15, 2, 0, 0, 16, 2]
1463	TTTTTTTTACCATGATCCGGATGATTTTTTTT	[15, 3, 0, 0, 14, 3, 0, 0]
1464	TATGCGACTTTTTTTTTTTTTTTTGTTATGAA	[0, 0, 15, 4, 0, 0, 14, 4]
1465	TTTTTTTTTTGGGATATACAATCTTTTTTTTT	[15, 5, 0, 0, 16, 5, 0, 0]
1466	GATCGTCATTTTTTTTTTTTTTTTCGAAGTAA	[0, 0, 15, 6, 0, 0, 16, 6]
1467	TTTTTTTTACCCTGCGAAGATAGGTTTTTTTT	[15, 7, 0, 0, 14, 7, 0, 0]
1468	AGCATAGCTTTTTTTTTTTTTTTTGTCACAGC	[0, 0, 15, 8, 0, 0, 14, 8]
1469	TTTTTTTTCTCTACCTTGTTGGACTTTTTTTT	[15, 9, 0, 0, 16, 9, 0, 0]
1470	AGTAATACTTTTTTTTTTTTTTTTGTAAGCGT	[0, 0, 15, 10, 0, 0, 16, 10]
1471	TTTTTTTTGACCAGAAAGCACGAGTTTTTTTT	[17, 1, 0, 0, 18, 1, 0, 0]
1472	GAAATAACTTTTTTTTTTTTTTTTGATTATCA	[0, 0, 17, 2, 0, 0, 18, 2]
1473	TTTTTTTTTCGAAATAATCGTTAGTTTTTTTT	[17, 3, 0, 0, 16, 3, 0, 0]
1474	CGTGTACCTTTTTTTTTTTTTTTTTCTCGA	[0, 0, 17, 4, 0, 0, 16, 4]
1475	TTTTTTTTAAACAGGCAGCGGTAGTTTTTTTT	[17, 5, 0, 0, 18, 5, 0, 0]
1476	CTGTTCCGTTTTTTTTTTTTTTTTCCTCCCAC	[0, 0, 17, 6, 0, 0, 18, 6]
1477	TTTTTTTTTGCCTTGGTAACTGATTTTTTTTT	[17, 7, 0, 0, 16, 7, 0, 0]

Strand	Sequence	Voxel
1478	TTAACCTATTTTTTTTTTTTTTTTTTCTCCT	[0, 0, 17, 8, 0, 0, 16, 8]
1479	TTTTTTTTAGCTGATCTATGGTCTTTTTTTT	[17, 9, 0, 0, 18, 9, 0, 0]
1480	GGTTCCGCTTTTTTTTTTTTTTTTCTTAATAT	[0, 0, 17, 10, 0, 0, 18, 10]
1481	TTTTTTTTGTGAAACAGGCCACCTTTTTTTTT	[19, 3, 0, 0, 18, 3, 0, 0]
1482	GGGAGAGGTTTTTTTTTTTTTTTTGGCTCGGG	[0, 0, 19, 4, 0, 0, 18, 4]
1483	TTTTTTTTGGTTATACTCGTCAAGTTTTTTTT	[19, 7, 0, 0, 18, 7, 0, 0]
1484	GCCGCCTCTTTTTTTTTTTTTTTTCCTGCTTT	[0, 0, 19, 8, 0, 0, 18, 8]
1485	TTTTTTTTGTGCCCGAGCGTCTGATTTTTTTT	[21, 1, 0, 0, 20, 1, 0, 0]
1486	ACGTGGGATTTTTTTTTTTTTTTTGGTATGGT	[0, 0, 21, 2, 0, 0, 20, 2]
1487	TTTTTTTTTATGTTGTCTCAAGTGTTTTTTTT	[21, 3, 0, 0, 22, 3, 0, 0]
1488	TTACCCACTTTTTTTTTTTTTTTTCTAACAGT	[0, 0, 21, 4, 0, 0, 22, 4]
1489	TTTTTTTTTCCATAACTGTGCACGTTTTTTTT	[21, 5, 0, 0, 20, 5, 0, 0]
1490	ACTAATTATTTTTTTTTTTTTTTTCAGGGAT	[0, 0, 21, 6, 0, 0, 20, 6]
1491	TTTTTTTTGTGGCCGTTGCTACATTTTTTTTT	[21, 7, 0, 0, 22, 7, 0, 0]
1492	TCTCACCGTTTTTTTTTTTTTTTTCAGTTTCT	[0, 0, 21, 8, 0, 0, 22, 8]
1493	TTTTTTTTCTGGGGAAACTATACTTTTTTTTT	[21, 9, 0, 0, 20, 9, 0, 0]
1494	TTGCACTCTTTTTTTTTTTTTTTTTACGCACT	[0, 0, 21, 10, 0, 0, 20, 10]
1495	TTTTTTTTGGGATTAGGCAATTGCTTTTTTTT	[23, 1, 0, 0, 22, 1, 0, 0]
1496	GGTTTGGATTTTTTTTTTTTTTTTTAGGTTGC	[0, 0, 23, 2, 0, 0, 22, 2]
1497	TTTTTTTTCACAATTTTTGATTCGTTTTTTTT	[23, 3, 0, 0, 24, 3, 0, 0]
1498	ATTGTAGGTTTTTTTTTTTTTTTTTATCACATA	[0, 0, 23, 4, 0, 0, 24, 4]
1499	TTTTTTTTATAAAGCTGTAGCCTGTTTTTTTT	[23, 5, 0, 0, 22, 5, 0, 0]
1500	CATGGGCATTTTTTTTTTTTTTTTTAGGCGCGC	[0, 0, 23, 6, 0, 0, 22, 6]
1501	TTTTTTTTCGTGTCACCTTGATATTTTTTTTT	[23, 7, 0, 0, 24, 7, 0, 0]
1502	AGCTGCACTTTTTTTTTTTTTTTTTGAGGGAC	[0, 0, 23, 8, 0, 0, 24, 8]
1503	TTTTTTTTATTCGGATAAACCATATTTTTTTT	[23, 9, 0, 0, 22, 9, 0, 0]
1504	ACCTCGTCTTTTTTTTTTTTTTTTCTGAGGGC	[0, 0, 23, 10, 0, 0, 22, 10]
1505	TTTTTTTTAGATCGGCTAATCATTTTTTTTTT	[25, 1, 0, 0, 24, 1, 0, 0]
1506	AGTGGGCGTTTTTTTTTTTTTTTTTAGTGCTCC	[0, 0, 25, 2, 0, 0, 24, 2]
1507	TTTTTTTTGTTCATAGTTCATTAGTTTTTTTT	[25, 3, 0, 0, 26, 3, 0, 0]
1508	CTTAGTTATTTTTTTTTTTTTTTTGGGCGGAA	[0, 0, 25, 4, 0, 0, 26, 4]
1509	TTTTTTTTGTGCCCCACGTACAGTTTTTTTTT	[25, 5, 0, 0, 24, 5, 0, 0]
1510	ATGGGCTGTTTTTTTTTTTTTTTTTAACCAACC	[0, 0, 25, 6, 0, 0, 24, 6]
1511	TTTTTTTTTGTGGGTAGGGCCGAGTTTTTTTT	[25, 7, 0, 0, 26, 7, 0, 0]
1512	GGTGTACCTTTTTTTTTTTTTTTTCGCTGGGC	[0, 0, 25, 8, 0, 0, 26, 8]
1513	TTTTTTTTGCAAGTGAAATATATGTTTTTTTT	[25, 9, 0, 0, 24, 9, 0, 0]
1514	TTACATGTTTTTTTTTTTTTTTTTACTTGGTC	[0, 0, 25, 10, 0, 0, 24, 10]
1515	TTTTTTTTCTGCTAGAAACCACCATTTTTTTT	[27, 1, 0, 0, 26, 1, 0, 0]
1516	GACCAGATTTTTTTTTTTTTTTTTACATCCTC	[0, 0, 27, 2, 0, 0, 26, 2]
1517	TTTTTTTTCTTTCAATTTTTAGTATTTTTTTT	[27, 3, 0, 0, 28, 3, 0, 0]
1518	CTTGACACTTTTTTTTTTTTTTTTAACACCCA	[0, 0, 27, 4, 0, 0, 28, 4]
1519	TTTTTTTTGAACTTCCCATGGTCGTTTTTTTT	[27, 5, 0, 0, 26, 5, 0, 0]
1520	ACAGAGCTTTTTTTTTTTTTTTTTTCTACTG	[0, 0, 27, 6, 0, 0, 26, 6]
1521	TTTTTTTTTCATAGGATCAAACTATTTTTTTT	[27, 7, 0, 0, 28, 7, 0, 0]
1522	TCGTATGATTTTTTTTTTTTTTTTAATACAGC	[0, 0, 27, 8, 0, 0, 28, 8]
1523	TTTTTTTTAGTTCTTGTCCTTATTTTTTTTTT	[27, 9, 0, 0, 26, 9, 0, 0]
1524	GTACCGCCTTTTTTTTTTTTTTTTGGCGATCG	[0, 0, 27, 10, 0, 0, 26, 10]
1525	TTTTTTTTAATGTTTGATGGCCGCTTTTTTTT	[29, 1, 0, 0, 28, 1, 0, 0]
1526	TGCATTCCTTTTTTTTTTTTTTTTGTGGCTTA	[0, 0, 29, 2, 0, 0, 28, 2]
1527	TTTTTTTTAAAGTCGTCCGCCTCCTTTTTTTT	[29, 5, 0, 0, 28, 5, 0, 0]
1528	AACCACATTTTTTTTTTTTTTTTGGTAGTCA	[0, 0, 29, 6, 0, 0, 28, 6]
1529	TTTTTTTTCTATACCCGACAAAAATTTTTTTT	[29, 9, 0, 0, 28, 9, 0, 0]
1530	CAGAAAGTTTTTTTTTTTTTTTTCAGATTTG	[0, 0, 29, 10, 0, 0, 28, 10]
1531	TTTTTTTTGCGGGGGGGTCGAGCTTTTTTTT	[31, 1, 0, 0, 32, 1, 0, 0]
1532	TATACTCTTTTTTTTTTTTTTTTGCTCCACT	[0, 0, 31, 2, 0, 0, 32, 2]
1533	TTTTTTTTCGGCCATCGTGGACTATTTTTTTT	[31, 3, 0, 0, 30, 3, 0, 0]
1534	GTAGTGGCTTTTTTTTTTTTTTTTGAAAGCGC	[0, 0, 31, 4, 0, 0, 30, 4]
1535	TTTTTTTTTGAATATCGCTACCTCTTTTTTTT	[31, 5, 0, 0, 32, 5, 0, 0]
1536	CGGCAATCTTTTTTTTTTTTTTTTCGATACGC	[0, 0, 31, 6, 0, 0, 32, 6]
1537	TTTTTTTTACCATTAAGAGTAGGTTTTTTTT	[31, 7, 0, 0, 30, 7, 0, 0]
1538	GAACCAGATTTTTTTTTTTTTTTTGGCAGTGC	[0, 0, 31, 8, 0, 0, 30, 8]
1539	TTTTTTTTACAGTGGGACATCTCGTTTTTTTT	[31, 9, 0, 0, 32, 9, 0, 0]
1540	TCAGCCAATTTTTTTTTTTTTTTTGAAAGGTG	[0, 0, 31, 10, 0, 0, 32, 10]
1541	TTTTTTTTGCAAGTAAAAAAGGAATTTTTTTT	[33, 1, 0, 0, 34, 1, 0, 0]
1542	TCCCAAGTTTTTTTTTTTTTTTTTTATGAGA	[0, 0, 33, 2, 0, 0, 34, 2]
1543	TTTTTTTTGATCCTAAAGTTTCTGTTTTTTTT	[33, 3, 0, 0, 32, 3, 0, 0]
1544	TCATGTGGTTTTTTTTTTTTTTTTGTAGACCT	[0, 0, 33, 4, 0, 0, 32, 4]
1545	TTTTTTTTAGAGCGGTGATATCCATTTTTTTT	[33, 5, 0, 0, 34, 5, 0, 0]
1546	CGTAGGCTTTTTTTTTTTTTTTTTCGGTACAT	[0, 0, 33, 6, 0, 0, 34, 6]
1547	TTTTTTTTTGCACGGAACGAGAGTTTTTTTTT	[33, 7, 0, 0, 32, 7, 0, 0]
1548	TCGTTTACTTTTTTTTTTTTTTTTGCTGGCAT	[0, 0, 33, 8, 0, 0, 32, 8]
1549	TTTTTTTTGAAACCTAACTTGGGGTTTTTTTT	[33, 9, 0, 0, 34, 9, 0, 0]
1550	AAGCAAGATTTTTTTTTTTTTTTTACTAAGAT	[0, 0, 33, 10, 0, 0, 34, 10]
1551	TTTTTTTTATTTTCGCGCGATTCGTTTTTTTT	[35, 1, 0, 0, 36, 1, 0, 0]
1552	CGTTGCGATTTTTTTTTTTTTTTTCATGTAGC	[0, 0, 35, 2, 0, 0, 36, 2]
1553	TTTTTTTTATCGTCCTAGACGACGTTTTTTTT	[35, 3, 0, 0, 34, 3, 0, 0]
1554	CGAACGAGTTTTTTTTTTTTTTTTGATCTCCT	[0, 0, 35, 4, 0, 0, 34, 4]
1555	TTTTTTTTGTAGCACCGTCAAATATTTTTTTT	[35, 5, 0, 0, 36, 5, 0, 0]
1556	GCATGCCGTTTTTTTTTTTTTTTTTGCGTGCT	[0, 0, 35, 6, 0, 0, 36, 6]
1557	TTTTTTTTTTTAGACCCAGCTTGATTTTTTTT	[35, 7, 0, 0, 34, 7, 0, 0]

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1558	TTTAACGCTTTTTTTTTTTTTTTTCGCAAGAC	[0, 0, 35, 8, 0, 0, 34, 8]
1559	TTTTTTTTCTGGGCAGGGTCCTAGTTTTTTTT	[35, 9, 0, 0, 36, 9, 0, 0]
1560	GCTAATCATTTTTTTTTTTTTTTTGTTGCAGA	[0, 0, 35, 10, 0, 0, 36, 10]
1561	TTTTTTTTCCCTAAGCAGCGTAGTTTTTTTTT	[37, 1, 0, 0, 38, 1, 0, 0]
1562	AACCTACCTTTTTTTTTTTTTTTTAAGGGTTA	[0, 0, 37, 2, 0, 0, 38, 2]
1563	TTTTTTTTTGCGGCGGCTGTACGATTTTTTTT	[37, 3, 0, 0, 36, 3, 0, 0]
1564	CAAGTTCCTTTTTTTTTTTTTTTTATGAGTCC	[0, 0, 37, 4, 0, 0, 36, 4]
1565	TTTTTTTTCATGACATTCTCCCACTTTTTTTT	[37, 5, 0, 0, 38, 5, 0, 0]
1566	GGCCTTGATTTTTTTTTTTTTTTTCCGTCCAA	[0, 0, 37, 6, 0, 0, 38, 6]
1567	TTTTTTTTGGATGTCGAGCCCACATTTTTTTT	[37, 7, 0, 0, 36, 7, 0, 0]
1568	CACCAGCATTTTTTTTTTTTTTTTTACTTGACA	[0, 0, 37, 8, 0, 0, 36, 8]
1569	TTTTTTTTGTATCTTTTTTCATGGTTTTTTTT	[37, 9, 0, 0, 38, 9, 0, 0]
1570	GTAGTACATTTTTTTTTTTTTTTTCGGCGATG	[0, 0, 37, 10, 0, 0, 38, 10]
1571	TTTTTTTTGCTTTTATATAGCGTATTTTTTTT	[39, 3, 0, 0, 38, 3, 0, 0]
1572	TGCGTACGTTTTTTTTTTTTTTTTGACCGGAC	[0, 0, 39, 4, 0, 0, 38, 4]
1573	TTTTTTTTTATGCCCCCCGGTTCTTTTTTTTT	[39, 7, 0, 0, 38, 7, 0, 0]
1574	AGAGTCGTTTTTTTTTTTTTTTTTGCTAGAGT	[0, 0, 39, 8, 0, 0, 38, 8]
1575	TTTTTTTTCCAAGTAACGTATGTATTTTTTTT	[41, 1, 0, 0, 40, 1, 0, 0]
1576	CGCGCTTATTTTTTTTTTTTTTTTCGACGCGA	[0, 0, 41, 2, 0, 0, 40, 2]
1577	TTTTTTTTAACGGGTGGATGAATTTTTTTTTT	[41, 3, 0, 0, 42, 3, 0, 0]
1578	TGCGAGTGTTTTTTTTTTTTTTTTTCGTTCGG	[0, 0, 41, 4, 0, 0, 42, 4]
1579	TTTTTTTTGATCTAAGTCTGGCGCTTTTTTTT	[41, 5, 0, 0, 40, 5, 0, 0]
1580	GGCCAGGCTTTTTTTTTTTTTTTTGTGAGGAC	[0, 0, 41, 6, 0, 0, 40, 6]
1581	TTTTTTTTGAAGTAGGAAGCTTTTTTTTTT	[41, 7, 0, 0, 42, 7, 0, 0]
1582	ACGTAAGTTTTTTTTTTTTTTTTTTCTAGCC	[0, 0, 41, 8, 0, 0, 42, 8]
1583	TTTTTTTTGACACTACGACCTGCTTTTTTTTT	[41, 9, 0, 0, 40, 9, 0, 0]
1584	ATAGCATCTTTTTTTTTTTTTTTTTTTCGACA	[0, 0, 41, 10, 0, 0, 40, 10]
1585	TTTTTTTTATTCTGGACAGTAACTTTTTTTTT	[43, 1, 0, 0, 42, 1, 0, 0]
1586	CGGACTGCTTTTTTTTTTTTTTTTTGCATTAAC	[0, 0, 43, 2, 0, 0, 42, 2]
1587	TTTTTTTTCCCAACATAAGTGACGTTTTTTTT	[43, 3, 0, 0, 44, 3, 0, 0]
1588	TACGTGCTTTTTTTTTTTTTTTTTTCCTCAGC	[0, 0, 43, 4, 0, 0, 44, 4]
1589	TTTTTTTTATTATCTCGATAAGCATTTTTTTT	[43, 5, 0, 0, 42, 5, 0, 0]
1590	AGTTGAAATTTTTTTTTTTTTTTTTGAAGGACC	[0, 0, 43, 6, 0, 0, 42, 6]
1591	TTTTTTTTTGGCAAGAGACAAGGCTTTTTTTT	[43, 7, 0, 0, 44, 7, 0, 0]
1592	TGTATAACTTTTTTTTTTTTTTTTCGCTTCAG	[0, 0, 43, 8, 0, 0, 44, 8]
1593	TTTTTTTTGCCGGACCGTATTAATTTTTTTTT	[43, 9, 0, 0, 42, 9, 0, 0]
1594	AAAGGATATTTTTTTTTTTTTTTTGCCGCGCC	[0, 0, 43, 10, 0, 0, 42, 10]
1595	TTTTTTTTCCCGGACCTAGTGTCTTTTTTTTT	[45, 1, 0, 0, 44, 1, 0, 0]
1596	AACGGTTTTTTTTTTTTTTTTTTATCAAGTC	[0, 0, 45, 2, 0, 0, 44, 2]
1597	TTTTTTTTGAAACCATTCTCGGGTTTTTTTTT	[45, 3, 0, 0, 46, 3, 0, 0]
1598	TATTCTATTTTTTTTTTTTTTTTCGAGCGGG	[0, 0, 45, 4, 0, 0, 46, 4]
1599	TTTTTTTTGTGACCTACGAGAAGCTTTTTTTT	[45, 5, 0, 0, 44, 5, 0, 0]
1600	TCACTGTTTTTTTTTTTTTTTTTGTATAGAT	[0, 0, 45, 6, 0, 0, 44, 6]
1601	TTTTTTTTCGAATAGCTCACAGGCTTTTTTTT	[45, 7, 0, 0, 46, 7, 0, 0]
1602	GTTCCGCGTTTTTTTTTTTTTTTTGAACTACG	[0, 0, 45, 8, 0, 0, 46, 8]
1603	TTTTTTTTGGTTTAAACGCTCCTCTTTTTTTT	[45, 9, 0, 0, 44, 9, 0, 0]
1604	TATGAATTTTTTTTTTTTTTTTTGGGAATTA	[0, 0, 45, 10, 0, 0, 44, 10]
1605	TTTTTTTTGGTGGCAAACCACCTCTTTTTTTT	[47, 1, 0, 0, 46, 1, 0, 0]
1606	ATACGACATTTTTTTTTTTTTTTTCGATGTCA	[0, 0, 47, 2, 0, 0, 46, 2]
1607	TTTTTTTTACCCATTCACTGTGATTTTTTTT	[47, 3, 0, 0, 48, 3, 0, 0]
1608	GCGCCGCATTTTTTTTTTTTTTTTATTTCCAC	[0, 0, 47, 4, 0, 0, 48, 4]
1609	TTTTTTTTTTCGCAGGTCCATGGGTTTTTTTT	[47, 5, 0, 0, 46, 5, 0, 0]
1610	ACCGAGGATTTTTTTTTTTTTTTTATTCACCA	[0, 0, 47, 6, 0, 0, 46, 6]
1611	TTTTTTTTACACCCTGATTCTCCTTTTTTTT	[47, 7, 0, 0, 48, 7, 0, 0]
1612	AGCTCGTATTTTTTTTTTTTTTTTATGGCAGC	[0, 0, 47, 8, 0, 0, 48, 8]
1613	TTTTTTTTACAGGTCTGAACTGGTTTTTTTTT	[47, 9, 0, 0, 46, 9, 0, 0]
1614	GCTTCGGTTTTTTTTTTTTTTTTAGATCACC	[0, 0, 47, 10, 0, 0, 46, 10]
1615	TTTTTTTTACCCAGCAGTTCGGCTTTTTTTTT	[49, 1, 0, 0, 48, 1, 0, 0]
1616	ATTAGTGTTTTTTTTTTTTTTTTCCCTTGTG	[0, 0, 49, 2, 0, 0, 48, 2]
1617	TTTTTTTTTAATGCTGTTCCGGGGTTTTTTTT	[49, 5, 0, 0, 48, 5, 0, 0]
1618	TCGTCGTGTTTTTTTTTTTTTTTTTAAATCAA	[0, 0, 49, 6, 0, 0, 48, 6]
1619	TTTTTTTTTTCCAAACTTTAGAGCTTTTTTTT	[49, 9, 0, 0, 48, 9, 0, 0]
1620	ACGCTCTGTTTTTTTTTTTTTTTTTCCGGCCGT	[0, 0, 49, 10, 0, 0, 48, 10]
1621	TTTTTTTTATACGAGCGTGGAGGGTTTTTTTT	[51, 1, 0, 0, 52, 1, 0, 0]
1622	ACCCAATCTTTTTTTTTTTTTTTTTAAGTTATT	[0, 0, 51, 2, 0, 0, 52, 2]
1623	TTTTTTTTGTTTTCATATATCAGATTTTTTTT	[51, 3, 0, 0, 50, 3, 0, 0]
1624	CTACTGGCTTTTTTTTTTTTTTTTTGAGCACAG	[0, 0, 51, 4, 0, 0, 50, 4]
1625	TTTTTTTTAGCCCGGCGTATTATCTTTTTTTT	[51, 5, 0, 0, 52, 5, 0, 0]
1626	TAATTCGGTTTTTTTTTTTTTTTTGCGTCAAT	[0, 0, 51, 6, 0, 0, 52, 6]
1627	TTTTTTTTACACACCAGATTACGGTTTTTTTT	[51, 7, 0, 0, 50, 7, 0, 0]
1628	TCATATGGTTTTTTTTTTTTTTTTCGGCTTAG	[0, 0, 51, 8, 0, 0, 50, 8]
1629	TTTTTTTTAGTACAAGTGACGAAGTTTTTTTT	[51, 9, 0, 0, 52, 9, 0, 0]
1630	GGGAATTGTTTTTTTTTTTTTTTTAATACCGT	[0, 0, 51, 10, 0, 0, 52, 10]
1631	TTTTTTTTTGGAGCTGTCAGGCTTTTTTTTT	[53, 1, 0, 0, 54, 1, 0, 0]
1632	CCATCAGATTTTTTTTTTTTTTTTCTCCGTCA	[0, 0, 53, 2, 0, 0, 54, 2]
1633	TTTTTTTTGCTGAGATTGATTGGTTTTTTTTT	[53, 3, 0, 0, 52, 3, 0, 0]
1634	AAATGTTGTTTTTTTTTTTTTTTTTAGTGTA	[0, 0, 53, 4, 0, 0, 52, 4]
1635	TTTTTTTTAAGAGATATGTGGGAGTTTTTTTT	[53, 5, 0, 0, 54, 5, 0, 0]
1636	TAGCGAGTTTTTTTTTTTTTTTTTGATCATTA	[0, 0, 53, 6, 0, 0, 54, 6]
1637	TTTTTTTTAAGTTGACTAGCAGAATTTTTTTT	[53, 7, 0, 0, 52, 7, 0, 0]

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1638	CAGGATCATTTTTTTTTTTTTTTTTAATTTGC	[0, 0, 53, 8, 0, 0, 52, 8]
1639	TTTTTTTTAAGGTACGCAATTACTTTTTTTTT	[53, 9, 0, 0, 54, 9, 0, 0]
1640	ATCCGAATTTTTTTTTTTTTTTTTATTTGTAC	[0, 0, 53, 10, 0, 0, 54, 10]
1641	TTTTTTTTAGGGCATACAGTAACGTTTTTTTT	[55, 1, 0, 0, 56, 1, 0, 0]
1642	CGAAAACATTTTTTTTTTTTTTTTAAAAGCGA	[0, 0, 55, 2, 0, 0, 56, 2]
1643	TTTTTTTTCCACCTAGCACCTCCTTTTTTTTT	[55, 3, 0, 0, 54, 3, 0, 0]
1644	ACGAGCCATTTTTTTTTTTTTTTTGTTAGGGT	[0, 0, 55, 4, 0, 0, 54, 4]
1645	TTTTTTTTGGATGGGTTGTTCATCTTTTTTTT	[55, 5, 0, 0, 56, 5, 0, 0]
1646	GACACCCGTTTTTTTTTTTTTTTTGGTCACCC	[0, 0, 55, 6, 0, 0, 56, 6]
1647	TTTTTTTTGCTTGAGGAATAGTCCTTTTTTTT	[55, 7, 0, 0, 54, 7, 0, 0]
1648	CAGTTTTCTTTTTTTTTTTTTTTTAAGAAATG	[0, 0, 55, 8, 0, 0, 54, 8]
1649	TTTTTTTTAAGTTGTGCCGCACTGTTTTTTTT	[55, 9, 0, 0, 56, 9, 0, 0]
1650	CATGATAATTTTTTTTTTTTTTTTGAATCTGA	[0, 0, 55, 10, 0, 0, 56, 10]
1651	TTTTTTTTCGGTTCTCGAGACACTTTTTTTTT	[57, 1, 0, 0, 58, 1, 0, 0]
1652	AGATGCACTTTTTTTTTTTTTTTTCATTTACT	[0, 0, 57, 2, 0, 0, 58, 2]
1653	TTTTTTTTGACCATGTCTCCAGTATTTTTTTT	[57, 3, 0, 0, 56, 3, 0, 0]
1654	GCTCGGTATTTTTTTTTTTTTTTTTGCCATT	[0, 0, 57, 4, 0, 0, 56, 4]
1655	TTTTTTTTAATACTTTTAATATAATTTTTTTT	[57, 5, 0, 0, 58, 5, 0, 0]
1656	TTCTAATTTTTTTTTTTTTTTTTTTGTCCGCG	[0, 0, 57, 6, 0, 0, 58, 6]
1657	TTTTTTTTAATTCGACACAATGGTTTTTTTTT	[57, 7, 0, 0, 56, 7, 0, 0]
1658	GATCAGCGTTTTTTTTTTTTTTTTTATCTTTG	[0, 0, 57, 8, 0, 0, 56, 8]
1659	TTTTTTTTGTAAACCGCTTGCCTGTTTTTTTT	[57, 9, 0, 0, 58, 9, 0, 0]
1660	AAGCGCACTTTTTTTTTTTTTTTTTGGCCAATA	[0, 0, 57, 10, 0, 0, 58, 10]
1661	TTTTTTTTCTGACACCCAGCTCCCTTTTTTTT	[59, 3, 0, 0, 58, 3, 0, 0]
1662	ATATAGGTTTTTTTTTTTTTTTTTAGGTAAGT	[0, 0, 59, 4, 0, 0, 58, 4]
1663	TTTTTTTTACAATATGTATTAAGTTTTTTTTT	[59, 7, 0, 0, 58, 7, 0, 0]
1664	AATGGTCGTTTTTTTTTTTTTTTTTTCGCCG	[0, 0, 59, 8, 0, 0, 58, 8]
1665	TTTTTTTTTCTTAATGTATAATTCTTTTTTTT	[61, 1, 0, 0, 60, 1, 0, 0]
1666	CTTCTACCTTTTTTTTTTTTTTTTTATCCTGTG	[0, 0, 61, 2, 0, 0, 60, 2]
1667	TTTTTTTTCAGAGTTCCCATCGGCTTTTTTTT	[61, 3, 0, 0, 62, 3, 0, 0]
1668	CATGGAAGTTTTTTTTTTTTTTTTAAAATTGA	[0, 0, 61, 4, 0, 0, 62, 4]
1669	TTTTTTTTTATAATTAAGAACATTTTTTTTTT	[61, 5, 0, 0, 60, 5, 0, 0]
1670	GTTACCGCTTTTTTTTTTTTTTTTTCGGGTTCG	[0, 0, 61, 6, 0, 0, 60, 6]
1671	TTTTTTTTTATGTGATCGCCTAGGTTTTTTTT	[61, 7, 0, 0, 62, 7, 0, 0]
1672	ACGTGGTCTTTTTTTTTTTTTTTTCTAACCTC	[0, 0, 61, 8, 0, 0, 62, 8]
1673	TTTTTTTTAGGAGAGGGTGAGCTCTTTTTTTT	[61, 9, 0, 0, 60, 9, 0, 0]
1674	ATGACTCCTTTTTTTTTTTTTTTTCTACGTGG	[0, 0, 61, 10, 0, 0, 60, 10]
1675	TTTTTTTTATGCCGAGATCTAACTTTTTTTT	[63, 1, 0, 0, 62, 1, 0, 0]
1676	AAGTGTTATTTTTTTTTTTTTTTTGATTTTT	[0, 0, 63, 2, 0, 0, 62, 2]
1677	TTTTTTTTTCGAGACCTTGCTCTTTTTTTTT	[63, 3, 0, 0, 64, 3, 0, 0]
1678	ATTCAGAATTTTTTTTTTTTTTTTGGACGTCT	[0, 0, 63, 4, 0, 0, 64, 4]
1679	TTTTTTTTAGCCCGCGGTTACTAGTTTTTTTT	[63, 5, 0, 0, 62, 5, 0, 0]
1680	CATTCTATTTTTTTTTTTTTTTTGCGCCTTG	[0, 0, 63, 6, 0, 0, 62, 6]
1681	TTTTTTTTCTCAATAGTGAACCCTTTTTTTTT	[63, 7, 0, 0, 64, 7, 0, 0]
1682	CTCCTACGTTTTTTTTTTTTTTTTACTATCG	[0, 0, 63, 8, 0, 0, 64, 8]
1683	TTTTTTTTAGGTCAAAATAAACGTTTTTTTT	[63, 9, 0, 0, 62, 9, 0, 0]
1684	CGACAGGATTTTTTTTTTTTTTTATACTTAA	[0, 0, 63, 10, 0, 0, 62, 10]
1685	TTTTTTTTAGGGGAACCGTAGACTTTTTTTTT	[65, 1, 0, 0, 64, 1, 0, 0]
1686	AGCTCTAGTTTTTTTTTTTTTTTTCACATAA	[0, 0, 65, 2, 0, 0, 64, 2]
1687	TTTTTTTTCGGCGAGTGTTCTAGGTTTTTTTT	[65, 3, 0, 0, 66, 3, 0, 0]
1688	AAAACACTTTTTTTTTTTTTTTTGAGCGGGG	[0, 0, 65, 4, 0, 0, 66, 4]
1689	TTTTTTTTCCCAGCATTCCTTCAGTTTTTTTT	[65, 5, 0, 0, 64, 5, 0, 0]
1690	ATGGTACATTTTTTTTTTTTTTTTCCGCCTA	[0, 0, 65, 6, 0, 0, 64, 6]
1691	TTTTTTTTCTTTGATATTCTCCCATTTTTTTT	[65, 7, 0, 0, 66, 7, 0, 0]
1692	CTCATGATTTTTTTTTTTTTTTTAATGGATA	[0, 0, 65, 8, 0, 0, 66, 8]
1693	TTTTTTTTACAAAAAACTTGCCTATTTTTTTT	[65, 9, 0, 0, 64, 9, 0, 0]
1694	GGGCGTAATTTTTTTTTTTTTTTTCGTGCCC	[0, 0, 65, 10, 0, 0, 64, 10]
1695	TTTTTTTTCATTGTCTACCACCTATTTTTTTT	[67, 1, 0, 0, 66, 1, 0, 0]
1696	TCATACAGTTTTTTTTTTTTTTTTTGTTCTTA	[0, 0, 67, 2, 0, 0, 66, 2]
1697	TTTTTTTTACATAGATCGTCGGGCTTTTTTTT	[67, 3, 0, 0, 68, 3, 0, 0]
1698	TGCTGTTATTTTTTTTTTTTTTTTGACCTTCG	[0, 0, 67, 4, 0, 0, 68, 4]
1699	TTTTTTTTGGCCGACCACCGACCATTTTTTTT	[67, 5, 0, 0, 66, 5, 0, 0]
1700	TAAGGTGGTTTTTTTTTTTTTTTTTAGGCGCTA	[0, 0, 67, 6, 0, 0, 66, 6]
1701	TTTTTTTTACTCGTAAGCGATATCTTTTTTTT	[67, 7, 0, 0, 68, 7, 0, 0]
1702	TAGGGTATTTTTTTTTTTTTTTTTTGAATGCG	[0, 0, 67, 8, 0, 0, 68, 8]
1703	TTTTTTTTAACGACAAAAAATACCTTTTTTTT	[67, 9, 0, 0, 66, 9, 0, 0]
1704	TAATACGATTTTTTTTTTTTTTTTTCGCCGG	[0, 0, 67, 10, 0, 0, 66, 10]
1705	TTTTTTTTTTGGAGCCCACGAACCTTTTTTTT	[69, 1, 0, 0, 68, 1, 0, 0]
1706	TCCGTCCGTTTTTTTTTTTTTTTTAACGCATC	[0, 0, 69, 2, 0, 0, 68, 2]
1707	TTTTTTTTCGGAGGCGCATTAGGTTTTTTTTT	[69, 5, 0, 0, 68, 5, 0, 0]
1708	ACCATTACTTTTTTTTTTTTTTTTCTATTATA	[0, 0, 69, 6, 0, 0, 68, 6]
1709	TTTTTTTTTATAAAATGGCACTGTTTTTTTTT	[69, 9, 0, 0, 68, 9, 0, 0]
1710	TATCGTTCTTTTTTTTTTTTTTTTCACGGCGC	[0, 0, 69, 10, 0, 0, 68, 10]
1711	TTTTTTTTTACAATGTGTCTGACCTTTTTTTT	[71, 1, 0, 0, 72, 1, 0, 0]
1712	ATATCATCTTTTTTTTTTTTTTTTCTTCACAT	[0, 0, 71, 2, 0, 0, 72, 2]
1713	TTTTTTTTGGATTACCCTTCAATATTTTTTTT	[71, 3, 0, 0, 70, 3, 0, 0]
1714	TAATATGGTTTTTTTTTTTTTTTTAGTTGTAG	[0, 0, 71, 4, 0, 0, 70, 4]
1715	TTTTTTTTTGGCAGGTGCCATCCTTTTTTTTT	[71, 5, 0, 0, 72, 5, 0, 0]
1716	GCATCAGCTTTTTTTTTTTTTTTTACCCGCTT	[0, 0, 71, 6, 0, 0, 72, 6]
1717	TTTTTTTTGAAGCAGGATGTGTAATTTTTTTT	[71, 7, 0, 0, 70, 7, 0, 0]

Strand	Sequence	Voxel
1718	TCTCATGCTTTTTTTTTTTTTTTTTGGTGGGC	[0, 0, 71, 8, 0, 0, 70, 8]
1719	TTTTTTTTCTGCGCCAGCGCCACTTTTTTTT	[71, 9, 0, 0, 72, 9, 0, 0]
1720	GGACGATATTTTTTTTTTTTTTTTGTCCCCAA	[0, 0, 71, 10, 0, 0, 72, 10]
1721	TTTTTTTTACCTGTCATTGGAGTGTTTTTTTT	[73, 1, 0, 0, 74, 1, 0, 0]
1722	TTGTCGGGTTTTTTTTTTTTTTTTATGAACAA	[0, 0, 73, 2, 0, 0, 74, 2]
1723	TTTTTTTTCTGCTGCCGCCCTTTGTTTTTTTT	[73, 3, 0, 0, 72, 3, 0, 0]
1724	CCTGGGTCTTTTTTTTTTTTTTTTGGGTTCAC	[0, 0, 73, 4, 0, 0, 72, 4]
1725	TTTTTTTTATAACCTAAGTAATGTTTTTTTTT	[73, 5, 0, 0, 74, 5, 0, 0]
1726	GCCCGCGCTTTTTTTTTTTTTTTTCTAGTGCC	[0, 0, 73, 6, 0, 0, 74, 6]
1727	TTTTTTTTAAGAGTCAAGCGTAAATTTTTTTT	[73, 7, 0, 0, 72, 7, 0, 0]
1728	GTATGTGATTTTTTTTTTTTTTTTGTCTTGAC	[0, 0, 73, 8, 0, 0, 72, 8]
1729	TTTTTTTTCCAGCTGACGGTATGTTTTTTTT	[73, 9, 0, 0, 74, 9, 0, 0]
1730	GTATTCCATTTTTTTTTTTTTTTTGAAAGAAG	[0, 0, 73, 10, 0, 0, 74, 10]
1731	TTTTTTTTCTCGAGTCTACAGCAGTTTTTTTT	[75, 1, 0, 0, 76, 1, 0, 0]
1732	CGAAGGGGTTTTTTTTTTTTTTTAGCTACGC	[0, 0, 75, 2, 0, 0, 76, 2]
1733	TTTTTTTTTCTTTAAATGTCCCGTTTTTTTTT	[75, 3, 0, 0, 74, 3, 0, 0]
1734	GTCCCACGTTTTTTTTTTTTTTTTGTTAGGGC	[0, 0, 75, 4, 0, 0, 74, 4]
1735	TTTTTTTTCGTGGAATCCATTCAGTTTTTTTT	[75, 5, 0, 0, 76, 5, 0, 0]
1736	TCGCATCTTTTTTTTTTTTTTTTTTTCACAGG	[0, 0, 75, 6, 0, 0, 76, 6]
1737	TTTTTTTTCGTACAAAGCGTTACTTTTTTTTT	[75, 7, 0, 0, 74, 7, 0, 0]
1738	CCCTTAGCTTTTTTTTTTTTTTTTTGACCCGCT	[0, 0, 75, 8, 0, 0, 74, 8]
1739	TTTTTTTTATGCAAAACTATGTCTTTTTTTTT	[75, 9, 0, 0, 76, 9, 0, 0]
1740	GCAGGTAATTTTTTTTTTTTTTTTTTCTGAGG	[0, 0, 75, 10, 0, 0, 76, 10]
1741	TTTTTTTTTTTGGGTCTACGGCACTTTTTTTT	[77, 1, 0, 0, 78, 1, 0, 0]
1742	AGGAGCAGTTTTTTTTTTTTTTTTTCGAGGCCT	[0, 0, 77, 2, 0, 0, 78, 2]
1743	TTTTTTTTGACCCTAAGAGTCCCCTTTTTTTT	[77, 3, 0, 0, 76, 3, 0, 0]
1744	AATCCGATTTTTTTTTTTTTTTTTGAAGAATA	[0, 0, 77, 4, 0, 0, 76, 4]
1745	TTTTTTTTCCGCCGGCAAGTAAGTTTTTTTT	[77, 5, 0, 0, 78, 5, 0, 0]
1746	GGATATTCTTTTTTTTTTTTTTTTCAGGGCGT	[0, 0, 77, 6, 0, 0, 78, 6]
1747	TTTTTTTTCAACCGGCGACGAGTTTTTTTTT	[77, 7, 0, 0, 76, 7, 0, 0]
1748	AAAAGCAGTTTTTTTTTTTTTTTTAACGGCAT	[0, 0, 77, 8, 0, 0, 76, 8]
1749	TTTTTTTTTTTTATAACTGCTGGTTTTTTTT	[77, 9, 0, 0, 78, 9, 0, 0]
1750	CTTCCGACTTTTTTTTTTTTTTTTGTGGGCGC	[0, 0, 77, 10, 0, 0, 78, 10]
1751	TTTTTTTTGGACGTTTGAGCAATATTTTTTTT	[79, 3, 0, 0, 78, 3, 0, 0]
1752	CACTGTGTTTTTTTTTTTTTTTTGAAATTGA	[0, 0, 79, 4, 0, 0, 78, 4]
1753	TTTTTTTTAAGACGTAGAATGAGCTTTTTTTT	[79, 7, 0, 0, 78, 7, 0, 0]
1754	ATCGGCTCTTTTTTTTTTTTTTTTGACGCACC	[0, 0, 79, 8, 0, 0, 78, 8]
1755	TTTTTTTTACAACATGACTACAGTTTTTTTTT	[81, 1, 0, 0, 80, 1, 0, 0]
1756	TGTCCAAGTTTTTTTTTTTTTTTTTGACCGGG	[0, 0, 81, 2, 0, 0, 80, 2]
1757	TTTTTTTTAAGCGCAACGGCGCCGTTTTTTTT	[81, 3, 0, 0, 82, 3, 0, 0]
1758	GGTGCAAATTTTTTTTTTTTTTTTATTGATCA	[0, 0, 81, 4, 0, 0, 82, 4]
1759	TTTTTTTTGTATAGGTCCTTGTTATTTTTTTT	[81, 5, 0, 0, 80, 5, 0, 0]
1760	ATGGTTAATTTTTTTTTTTTTTTTCGATGGCA	[0, 0, 81, 6, 0, 0, 80, 6]
1761	TTTTTTTTCGGACCTTCCACCGGGTTTTTTTT	[81, 7, 0, 0, 82, 7, 0, 0]
1762	GCAATATTTTTTTTTTTTTTTTTCTGTTCC	[0, 0, 81, 8, 0, 0, 82, 8]
1763	TTTTTTTTGGAATACTCAGCCTTCTTTTTTTT	[81, 9, 0, 0, 80, 9, 0, 0]
1764	ATTGAGCATTTTTTTTTTTTTTTTACCGCGGG	[0, 0, 81, 10, 0, 0, 80, 10]
1765	TTTTTTTTGTACACATCTCTGGCTTTTTTTTT	[83, 1, 0, 0, 82, 1, 0, 0]
1766	TCTCTATCTTTTTTTTTTTTTTTTTACCAAG	[0, 0, 83, 2, 0, 0, 82, 2]
1767	TTTTTTTTGGGACAGTCGGAACATTTTTTTTT	[83, 3, 0, 0, 84, 3, 0, 0]
1768	CCACTAACTTTTTTTTTTTTTTTGCACGATG	[0, 0, 83, 4, 0, 0, 84, 4]
1769	TTTTTTTTGGGTGCCACCGCAACCTTTTTTTT	[83, 5, 0, 0, 82, 5, 0, 0]
1770	TCCGGGATTTTTTTTTTTTTTTTTTTACGTG	[0, 0, 83, 6, 0, 0, 82, 6]
1771	TTTTTTTTATACAAGATTCAGCAGTTTTTTTT	[83, 7, 0, 0, 84, 7, 0, 0]
1772	TTTAGGGATTTTTTTTTTTTTTTCCTTACTC	[0, 0, 83, 8, 0, 0, 84, 8]
1773	TTTTTTTTCACGGACAGGAACAACTTTTTTTT	[83, 9, 0, 0, 82, 9, 0, 0]
1774	AGCAATATTTTTTTTTTTTTTTTGGGTGTCA	[0, 0, 83, 10, 0, 0, 82, 10]
1775	TTTTTTTTAAGGGCAATCGTATTTTTTTTTTT	[85, 1, 0, 0, 84, 1, 0, 0]
1776	GTCCAAGTTTTTTTTTTTTTTTTGATGCCCG	[0, 0, 85, 2, 0, 0, 84, 2]
1777	TTTTTTTTCTCACTTTCTGGCGCTTTTTTTT	[85, 3, 0, 0, 86, 3, 0, 0]
1778	TGTGTATGTTTTTTTTTTTTTTTTCGGCTTAG	[0, 0, 85, 4, 0, 0, 86, 4]
1779	TTTTTTTTCATTGTGGTTCGCCGCTTTTTTTT	[85, 5, 0, 0, 84, 5, 0, 0]
1780	CCGTCACGTTTTTTTTTTTTTTTTTGTCGTTTT	[0, 0, 85, 6, 0, 0, 84, 6]
1781	TTTTTTTTAAGATTCAACAGGACGTTTTTTTT	[85, 7, 0, 0, 86, 7, 0, 0]
1782	CTCAGTTTTTTTTTTTTTTTTTTATGTTCTC	[0, 0, 85, 8, 0, 0, 86, 8]
1783	TTTTTTTTAGGTCTTAATTTTGGCTTTTTTTT	[85, 9, 0, 0, 84, 9, 0, 0]
1784	ACCTCTTCTTTTTTTTTTTTTTTTTGGAACGGG	[0, 0, 85, 10, 0, 0, 84, 10]
1785	TTTTTTTTCGTCCTTGGCATCCGCTTTTTTTT	[87, 1, 0, 0, 86, 1, 0, 0]
1786	AAGCATCGTTTTTTTTTTTTTTTTTCGCATGG	[0, 0, 87, 2, 0, 0, 86, 2]
1787	TTTTTTTTTGTGGCAATACAATATTTTTTTTT	[87, 3, 0, 0, 88, 3, 0, 0]
1788	TTAAGATGTTTTTTTTTTTTTTTTTAGTTATAT	[0, 0, 87, 4, 0, 0, 88, 4]
1789	TTTTTTTTAACGGTCGTATCCGCCTTTTTTTT	[87, 5, 0, 0, 86, 5, 0, 0]
1790	CCTCATGTTTTTTTTTTTTTTTTTTATCTCGC	[0, 0, 87, 6, 0, 0, 86, 6]
1791	TTTTTTTTACCAGCCAAGAGAGTCTTTTTTTT	[87, 7, 0, 0, 88, 7, 0, 0]
1792	AGAGTTCTTTTTTTTTTTTTTTTTGCAGCCCT	[0, 0, 87, 8, 0, 0, 88, 8]
1793	TTTTTTTTGGACATCACATCTCTGTTTTTTTT	[87, 9, 0, 0, 86, 9, 0, 0]
1794	TCATCGTATTTTTTTTTTTTTTTTCCTCGACG	[0, 0, 87, 10, 0, 0, 86, 10]
1795	TTTTTTTTCAATGGAGGTGGGCGCTTTTTTTT	[89, 1, 0, 0, 88, 1, 0, 0]
1796	TACGCGGGTTTTTTTTTTTTTTTTAAACCGTT	[0, 0, 89, 2, 0, 0, 88, 2]
1797	TTTTTTTTTTAAACAGTTGAAGGTTTTTTTTT	[89, 5, 0, 0, 88, 5, 0, 0]

Strand	Sequence	Voxel
1798	TTCAACTTTTTTTTTTTTTTTTTTTGAACCA	[0, 0, 89, 6, 0, 0, 88, 6]
1799	TTTTTTTTTCCCAGGTTATTGAGTTTTTTTT	[89, 9, 0, 0, 88, 9, 0, 0]
1800	TTCCTTGATTTTTTTTTTTTTTTTACCTATCT	[0, 0, 89, 10, 0, 0, 88, 10]
1801	TTTTTTTTCTACAGCACCGTGATGTTTTTTTT	[91, 1, 0, 0, 92, 1, 0, 0]
1802	ATCACGCTTTTTTTTTTTTTTTTTTAGACTTCG	[0, 0, 91, 2, 0, 0, 92, 2]
1803	TTTTTTTTACGCCTGCTTCCGTGGTTTTTTTT	[91, 3, 0, 0, 90, 3, 0, 0]
1804	TGCGTTCGTTTTTTTTTTTTTTTTCCCCGCAA	[0, 0, 91, 4, 0, 0, 90, 4]
1805	TTTTTTTTCTGAGGGGGAGGGGATTTTTTTTT	[91, 5, 0, 0, 92, 5, 0, 0]
1806	CCGCATCGTTTTTTTTTTTTTTTTAGCATACC	[0, 0, 91, 6, 0, 0, 92, 6]
1807	TTTTTTTTACCCTCGCGGGTGATCTTTTTTTT	[91, 7, 0, 0, 90, 7, 0, 0]
1808	CAGCACAATTTTTTTTTTTTTTTTGGCCGTTA	[0, 0, 91, 8, 0, 0, 90, 8]
1809	TTTTTTTTGTGCTGTGTTCTATCGTTTTTTTT	[91, 9, 0, 0, 92, 9, 0, 0]
1810	GTCGTAATTTTTTTTTTTTTTTTTATCTCCTT	[0, 0, 91, 10, 0, 0, 92, 10]
1811	TTTTTTTTAATGCAAAACCATGTTTTTTTTTT	[93, 1, 0, 0, 94, 1, 0, 0]
1812	CGCAACAATTTTTTTTTTTTTTTTGAAATTGT	[0, 0, 93, 2, 0, 0, 94, 2]
1813	TTTTTTTTCACGAGGCACACGGCGTTTTTTTT	[93, 3, 0, 0, 92, 3, 0, 0]
1814	GCTGCCGATTTTTTTTTTTTTTTTTCAGCGAT	[0, 0, 93, 4, 0, 0, 92, 4]
1815	TTTTTTTTCCTAGCAATAAGACAATTTTTTTT	[93, 5, 0, 0, 94, 5, 0, 0]
1816	CGCATCTATTTTTTTTTTTTTTTTGTAGAACA	[0, 0, 93, 6, 0, 0, 94, 6]
1817	TTTTTTTTGGTGTAGTGGATTCATTTTTTTTT	[93, 7, 0, 0, 92, 7, 0, 0]
1818	TTGTGTTGTTTTTTTTTTTTTTTTTTAACTAC	[0, 0, 93, 8, 0, 0, 92, 8]
1819	TTTTTTTTTACCTAATACCATGATTTTTTTT	[93, 9, 0, 0, 94, 9, 0, 0]
1820	CGATGTTATTTTTTTTTTTTTTTTGGAGCAGG	[0, 0, 93, 10, 0, 0, 94, 10]
1821	TTTTTTTTAATACATTTATGAATCTTTTTTTT	[95, 1, 0, 0, 96, 1, 0, 0]
1822	GATTGACTTTTTTTTTTTTTTTTTCAGACACG	[0, 0, 95, 2, 0, 0, 96, 2]
1823	TTTTTTTTTCCGGGGAGTAGTCTGTTTTTTTT	[95, 3, 0, 0, 94, 3, 0, 0]
1824	AGGTACACTTTTTTTTTTTTTTTTTAGGGTGA	[0, 0, 95, 4, 0, 0, 94, 4]
1825	TTTTTTTTGCAAGCTCGTCAAGTGTTTTTTTT	[95, 5, 0, 0, 96, 5, 0, 0]
1826	TATACCCGTTTTTTTTTTTTTTTTGTATAGCC	[0, 0, 95, 6, 0, 0, 96, 6]
1827	TTTTTTTTTACGCTCCAAATACTGTTTTTTTT	[95, 7, 0, 0, 94, 7, 0, 0]
1828	CGCAGCACTTTTTTTTTTTTTTTTCCCACGGT	[0, 0, 95, 8, 0, 0, 94, 8]
1829	TTTTTTTTCTCCATAAAGGCGTCTTTTTTTTT	[95, 9, 0, 0, 96, 9, 0, 0]
1830	ATTAGGCATTTTTTTTTTTTTTTTCAGGAAGT	[0, 0, 95, 10, 0, 0, 96, 10]
1831	TTTTTTTTCTCGACAATACCCTCCTTTTTTTT	[97, 1, 0, 0, 98, 1, 0, 0]
1832	GTTTTGTGTTTTTTTTTTTTTTTTCTCTGCGG	[0, 0, 97, 2, 0, 0, 98, 2]
1833	TTTTTTTTCATTGGCACTATAAGATTTTTTTT	[97, 3, 0, 0, 96, 3, 0, 0]
1834	CGCGACCATTTTTTTTTTTTTTTTCTACTCCA	[0, 0, 97, 4, 0, 0, 96, 4]
1835	TTTTTTTTTTGACCGATCCAGAGCTTTTTTTT	[97, 5, 0, 0, 98, 5, 0, 0]
1836	ACCACCTGTTTTTTTTTTTTTTTTTAAGAAAA	[0, 0, 97, 6, 0, 0, 98, 6]
1837	TTTTTTTTTATCAGAGGTCGTAACTTTTTTTT	[97, 7, 0, 0, 96, 7, 0, 0]
1838	CCTCGTGATTTTTTTTTTTTTTTTCGGTCGC	[0, 0, 97, 8, 0, 0, 96, 8]
1839	TTTTTTTTTTGGCTCAAAACGTCTTTTTTTTT	[97, 9, 0, 0, 98, 9, 0, 0]
1840	GGTATGCATTTTTTTTTTTTTTTTAGTATTTC	[0, 0, 97, 10, 0, 0, 98, 10]
1841	TTTTTTTTGCGTGAGGTATGGGCCTTTTTTTT	[99, 3, 0, 0, 98, 3, 0, 0]
1842	TAGACTCATTTTTTTTTTTTTTTTCATCCCC	[0, 0, 99, 4, 0, 0, 98, 4]
1843	TTTTTTTTCATGTATGTACTCATCTTTTTTTT	[99, 7, 0, 0, 98, 7, 0, 0]
1844	TGACGCAGTTTTTTTTTTTTTTTTAGCACCTA	[0, 0, 99, 8, 0, 0, 98, 8]
1845	TTTTTTTTCCATCCCTCGAGGGTTTTTTTTTT	[0, 2, 0, 0, 19, 2, 0, 0]
1846	TAACCTGGTTTTTTTTTTTTTTTTGTTTCAC	[0, 0, 0, 3, 0, 0, 19, 3]
1847	TTTTTTTTCCGGTTTGGGCACTCTTTTTTTT	[0, 6, 0, 0, 19, 6, 0, 0]
1848	GTATGATTTTTTTTTTTTTTTTTGTATAACC	[0, 0, 0, 7, 0, 0, 19, 7]
1849	TTTTTTTTGCGGCCATGTTATTTCTTTTTTTT	[2, 2, 0, 0, 17, 2, 0, 0]
1850	ACCCGAGCTTTTTTTTTTTTTTTTTATTTCGA	[0, 0, 2, 3, 0, 0, 17, 3]
1851	TTTTTTTTCGCTCAGCCGGAACAGTTTTTTTT	[2, 6, 0, 0, 17, 6, 0, 0]
1852	CACTGAGTTTTTTTTTTTTTTTTTCCAAGGCA	[0, 0, 2, 7, 0, 0, 17, 7]
1853	TTTTTTTTACAGCTAAGAACTTGATTTTTTTT	[4, 2, 0, 0, 15, 2, 0, 0]
1854	ACAGGCGGTTTTTTTTTTTTTTTTATCATGGT	[0, 0, 4, 3, 0, 0, 15, 3]
1855	TTTTTTTTTTCCAGCTTGACGATCTTTTTTTT	[4, 6, 0, 0, 15, 6, 0, 0]
1856	TCAGAAACTTTTTTTTTTTTTTTTCGCAGGGT	[0, 0, 4, 7, 0, 0, 15, 7]
1857	TTTTTTTTTGCGATCATTAGTGAGTTTTTTTT	[6, 2, 0, 0, 13, 2, 0, 0]
1858	GAGGGAACTTTTTTTTTTTTTTTTGTTTCCTT	[0, 0, 6, 3, 0, 0, 13, 3]
1859	TTTTTTTTAGTTTTGGCTTACATCTTTTTTTT	[6, 6, 0, 0, 13, 6, 0, 0]
1860	CCAGGTCATTTTTTTTTTTTTTTTTGCCCCCTA	[0, 0, 6, 7, 0, 0, 13, 7]
1861	TTTTTTTTTCAGTCGTCGAGTCGTTTTTTTTT	[8, 2, 0, 0, 11, 2, 0, 0]
1862	AGATGTTCTTTTTTTTTTTTTTTTTAACCTCGT	[0, 0, 8, 3, 0, 0, 11, 3]
1863	TTTTTTTTTTAATTTGAGTTTCCTTTTTTTTT	[8, 6, 0, 0, 11, 6, 0, 0]
1864	ATAATAGTTTTTTTTTTTTTTTTTCAGAAGTG	[0, 0, 8, 7, 0, 0, 11, 7]
1865	TTTTTTTTCCAAGGAGGGAATGCATTTTTTTT	[10, 2, 0, 0, 29, 2, 0, 0]
1866	CCCAGTGATTTTTTTTTTTTTTTTACACCGGC	[0, 0, 10, 3, 0, 0, 29, 3]
1867	TTTTTTTTGTATAGCGCTCGACGGTTTTTTTT	[10, 4, 0, 0, 9, 4, 0, 0]
1868	CTAATATATTTTTTTTTTTTTTTTAGGATATG	[0, 0, 10, 5, 0, 0, 9, 5]
1869	TTTTTTTTTGGGTAAGATGTGGTTTTTTTTTT	[10, 6, 0, 0, 29, 6, 0, 0]
1870	TCTTTCTCTTTTTTTTTTTTTTTTCCATTACG	[0, 0, 10, 7, 0, 0, 29, 7]
1871	TTTTTTTTCCACCGCAATCGACTATTTTTTTT	[10, 8, 0, 0, 9, 8, 0, 0]
1872	CACGCGAGTTTTTTTTTTTTTTTTGGAAGGAC	[0, 0, 10, 9, 0, 0, 9, 9]
1873	TTTTTTTTCTATGTAGATCTGGTCTTTTTTTT	[12, 2, 0, 0, 27, 2, 0, 0]
1874	GATAGCTGTTTTTTTTTTTTTTTTATTGAAAG	[0, 0, 12, 3, 0, 0, 27, 3]
1875	TTTTTTTTGAATATGGAAAGACTGTTTTTTTT	[12, 4, 0, 0, 7, 4, 0, 0]
1876	GACAGGGATTTTTTTTTTTTTTTTTGCGAGAT	[0, 0, 12, 5, 0, 0, 7, 5]
1877	TTTTTTTTGCTCGACAAGCTCTGTTTTTTTTT	[12, 6, 0, 0, 27, 6, 0, 0]

Strand	Sequence	Voxel
1878	GGTCAGAATTTTTTTTTTTTTTTTCCTATGA	[0, 0, 12, 7, 0, 0, 27, 7]
1879	TTTTTTTTGAGCTTTGAGTCGGCTTTTTTTT	[12, 8, 0, 0, 7, 8, 0, 0]
1880	CCCCCAAGTTTTTTTTTTTTTTTCTGACAGA	[0, 0, 12, 9, 0, 0, 7, 9]
1881	TTTTTTTTACGCTTAGCGCCCACTTTTTTTTT	[14, 2, 0, 0, 25, 2, 0, 0]
1882	TCATCCGGTTTTTTTTTTTTTTTTCTATGAAC	[0, 0, 14, 3, 0, 0, 25, 3]
1883	TTTTTTTTTTCATAACACACTGACTTTTTTTT	[14, 4, 0, 0, 5, 4, 0, 0]
1884	GGCGCATATTTTTTTTTTTTTTTTACCCTTTT	[0, 0, 14, 5, 0, 0, 5, 5]
1885	TTTTTTTTGGATATCGCAGCCCATTTTTTTTT	[14, 6, 0, 0, 25, 6, 0, 0]
1886	CCTATCTTTTTTTTTTTTTTTTTTACCCACA	[0, 0, 14, 7, 0, 0, 25, 7]
1887	TTTTTTTTGCTGTGACCAGAGCCGTTTTTTTT	[14, 8, 0, 0, 5, 8, 0, 0]
1888	AGCTGTTCTTTTTTTTTTTTTTTTAGGTCAGG	[0, 0, 14, 9, 0, 0, 5, 9]
1889	TTTTTTTTCCCCGTCTCCAAACCTTTTTTTT	[16, 2, 0, 0, 23, 2, 0, 0]
1890	CTAACGATTTTTTTTTTTTTTTTAAATTGTG	[0, 0, 16, 3, 0, 0, 23, 3]
1891	TTTTTTTTTCGAGAAAGCACCGAATTTTTTTT	[16, 4, 0, 0, 3, 4, 0, 0]
1892	AGATTGTATTTTTTTTTTTTTTTAAAAGCCC	[0, 0, 16, 5, 0, 0, 3, 5]
1893	TTTTTTTTTTACTTCGTGCCCATGTTTTTTTT	[16, 6, 0, 0, 23, 6, 0, 0]
1894	ATCAGTTATTTTTTTTTTTTTTTGTGACACG	[0, 0, 16, 7, 0, 0, 23, 7]
1895	TTTTTTTTAGGAGAAAAACAGCATTTTTTTTT	[16, 8, 0, 0, 3, 8, 0, 0]
1896	GTCCAACATTTTTTTTTTTTTTTTGGCTTCAT	[0, 0, 16, 9, 0, 0, 3, 9]
1897	TTTTTTTTTGATAATCTCCCACGTTTTTTTTT	[18, 2, 0, 0, 21, 2, 0, 0]
1898	AGGTGGCCTTTTTTTTTTTTTTTTTACAACATA	[0, 0, 18, 3, 0, 0, 21, 3]
1899	TTTTTTTTCCCGAGCCAGTTCGTATTTTTTTT	[18, 4, 0, 0, 1, 4, 0, 0]
1900	CTACCGCTTTTTTTTTTTTTTTTTTATGCTCT	[0, 0, 18, 5, 0, 0, 1, 5]
1901	TTTTTTTTGTGGGAGGTAATTAGTTTTTTTTT	[18, 6, 0, 0, 21, 6, 0, 0]
1902	CTTGACGATTTTTTTTTTTTTTTTTACGGCCAC	[0, 0, 18, 7, 0, 0, 21, 7]
1903	TTTTTTTTAAAGCAGGGATACTTTTTTTTTTT	[18, 8, 0, 0, 1, 8, 0, 0]
1904	GACCATAGTTTTTTTTTTTTTTTTGAAAAGGC	[0, 0, 18, 9, 0, 0, 1, 9]
1905	TTTTTTTTACCATACCAACGGCGATTTTTTTT	[20, 2, 0, 0, 39, 2, 0, 0]
1906	AATGCACATTTTTTTTTTTTTTTTTATAAAAGC	[0, 0, 20, 3, 0, 0, 39, 3]
1907	TTTTTTTTTCACGTGGCCTCTCCCTTTTTTTT	[20, 4, 0, 0, 19, 4, 0, 0]
1908	CGTGCACATTTTTTTTTTTTTTTTTGCCGAGG	[0, 0, 20, 5, 0, 0, 19, 5]
1909	TTTTTTTTATCCCTGAACGGGGTTTTTTTTTT	[20, 6, 0, 0, 39, 6, 0, 0]
1910	AGTACGACTTTTTTTTTTTTTTTTGGGGCATA	[0, 0, 20, 7, 0, 0, 39, 7]
1911	TTTTTTTTTTGCTTTAGAGGCGGCTTTTTTTT	[20, 8, 0, 0, 19, 8, 0, 0]
1912	AGTATAGTTTTTTTTTTTTTTTTTATCGGGTT	[0, 0, 20, 9, 0, 0, 19, 9]
1913	TTTTTTTTGCAACCTAGGTAGGTTTTTTTTTT	[22, 2, 0, 0, 37, 2, 0, 0]
1914	CACTTGAGTTTTTTTTTTTTTTTTCCGCCGCA	[0, 0, 22, 3, 0, 0, 37, 3]
1915	TTTTTTTTACTGTTAGGGTACACGTTTTTTTT	[22, 4, 0, 0, 17, 4, 0, 0]
1916	CAGGCTACTTTTTTTTTTTTTTTTGCCTGTTT	[0, 0, 22, 5, 0, 0, 17, 5]
1917	TTTTTTTTGCGCGCCTTCAAGGCCTTTTTTTT	[22, 6, 0, 0, 37, 6, 0, 0]
1918	ATGTAGCATTTTTTTTTTTTTTTTCGACATCC	[0, 0, 22, 7, 0, 0, 37, 7]
1919	TTTTTTTTAGAAACTGTAGGTTAATTTTTTTT	[22, 8, 0, 0, 17, 8, 0, 0]
1920	TATGGTTTTTTTTTTTTTTTTTTATCAGCTA	[0, 0, 22, 9, 0, 0, 17, 9]
1921	TTTTTTTTGGAGCACTTCGCAACGTTTTTTTT	[24, 2, 0, 0, 35, 2, 0, 0]
1922	CGAATCAATTTTTTTTTTTTTTTTAGGACGAT	[0, 0, 24, 3, 0, 0, 35, 3]
1923	TTTTTTTTATGTGATGTCGCATATTTTTTTT	[24, 4, 0, 0, 15, 4, 0, 0]
1924	ACTGTACGTTTTTTTTTTTTTTTTTATCCCAA	[0, 0, 24, 5, 0, 0, 15, 5]
1925	TTTTTTTTGGTTGGTTCGGCATGCTTTTTTTT	[24, 6, 0, 0, 35, 6, 0, 0]
1926	ATATCAAGTTTTTTTTTTTTTTTTGGTCTAAA	[0, 0, 24, 7, 0, 0, 35, 7]
1927	TTTTTTTTGTCCCTCAGCTATGCTTTTTTTT	[24, 8, 0, 0, 15, 8, 0, 0]
1928	CATATATTTTTTTTTTTTTTTTTAGGTAGAG	[0, 0, 24, 9, 0, 0, 15, 9]
1929	TTTTTTTTGAGGATGTACTTGGGATTTTTTTT	[26, 2, 0, 0, 33, 2, 0, 0]
1930	CTAATGAATTTTTTTTTTTTTTTTTAGGATC	[0, 0, 26, 3, 0, 0, 33, 3]
1931	TTTTTTTTTTCCGCCCTGGAGTTATTTTTTTT	[26, 4, 0, 0, 13, 4, 0, 0]
1932	CGACCATGTTTTTTTTTTTTTTTTGATGTCCG	[0, 0, 26, 5, 0, 0, 13, 5]
1933	TTTTTTTTCAGTAGAAAGCCTACGTTTTTTTT	[26, 6, 0, 0, 33, 6, 0, 0]
1934	CTCGGCCCTTTTTTTTTTTTTTTTCCGTGCA	[0, 0, 26, 7, 0, 0, 33, 7]
1935	TTTTTTTTGCCCAGCGGTTTGAACTTTTTTTT	[26, 8, 0, 0, 13, 8, 0, 0]
1936	AATAAGGATTTTTTTTTTTTTTTTCTGTTTAC	[0, 0, 26, 9, 0, 0, 13, 9]
1937	TTTTTTTTTAAGCCACAGAGTATATTTTTTTT	[28, 2, 0, 0, 31, 2, 0, 0]
1938	TACTAAAATTTTTTTTTTTTTTTTGATGGCCG	[0, 0, 28, 3, 0, 0, 31, 3]
1939	TTTTTTTTTGGGTGTTCCAAGTCATTTTTTTT	[28, 4, 0, 0, 11, 4, 0, 0]
1940	GGAGGCGGTTTTTTTTTTTTTTTTGCCCCTCG	[0, 0, 28, 5, 0, 0, 11, 5]
1941	TTTTTTTTTGACTACCGATTGCCGTTTTTTTT	[28, 6, 0, 0, 31, 6, 0, 0]
1942	TAGTTTGATTTTTTTTTTTTTTTTTAAATGGT	[0, 0, 28, 7, 0, 0, 31, 7]
1943	TTTTTTTTGCTGTATTGTCGCTGGTTTTTTTT	[28, 8, 0, 0, 11, 8, 0, 0]
1944	TTTTTGTCTTTTTTTTTTTTTTTTCTAATCAC	[0, 0, 28, 9, 0, 0, 11, 9]
1945	TTTTTTTTGCTGTTCAACACTAATTTTTTTTT	[30, 2, 0, 0, 49, 2, 0, 0]
1946	TAGTCCACTTTTTTTTTTTTTTTTCCGGGTAT	[0, 0, 30, 3, 0, 0, 49, 3]
1947	TTTTTTTTGCGCTTTCCGTCTTAATTTTTTTT	[30, 4, 0, 0, 29, 4, 0, 0]
1948	CCGCACGTTTTTTTTTTTTTTTTTACGACTTT	[0, 0, 30, 5, 0, 0, 29, 5]
1949	TTTTTTTTAGGAGAAGCACGACGATTTTTTTT	[30, 6, 0, 0, 49, 6, 0, 0]
1950	CCTACTCTTTTTTTTTTTTTTTTTCGGGAATT	[0, 0, 30, 7, 0, 0, 49, 7]
1951	TTTTTTTTGCACTGCCTTCCGCGTTTTTTTTT	[30, 8, 0, 0, 29, 8, 0, 0]
1952	GGCGATACTTTTTTTTTTTTTTTTGGGTATAG	[0, 0, 30, 9, 0, 0, 29, 9]
1953	TTTTTTTTAGTGGAGCTGTCGTATTTTTTTTT	[32, 2, 0, 0, 47, 2, 0, 0]
1954	CAGAAACTTTTTTTTTTTTTTTTTAATGGGTA	[0, 0, 32, 3, 0, 0, 47, 3]
1955	TTTTTTTTAGGTCTACGTGTCAAGTTTTTTTT	[32, 4, 0, 0, 27, 4, 0, 0]
1956	GAGGTAGCTTTTTTTTTTTTTTTTGGAAGTTC	[0, 0, 32, 5, 0, 0, 27, 5]
1957	TTTTTTTTGCGTATCGTCCTCGGTTTTTTTTT	[32, 6, 0, 0, 47, 6, 0, 0]

Strand	Sequence	Voxel
1958	ACTCTCGTTTTTTTTTTTTTTTTTAGGGTGTA	[0, 0, 32, 7, 0, 0, 47, 7]
1959	TTTTTTTTATGCCAGCTCATACGATTTTTTTT	[32, 8, 0, 0, 27, 8, 0, 0]
1960	CGAGATGTTTTTTTTTTTTTTTTTCAAGAACT	[0, 0, 32, 9, 0, 0, 27, 9]
1961	TTTTTTTTTCTCATAAAAACCGTTTTTTTTTT	[34, 2, 0, 0, 45, 2, 0, 0]
1962	CGTCGTCTTTTTTTTTTTTTTTTTATGGTTTC	[0, 0, 34, 3, 0, 0, 45, 3]
1963	TTTTTTTTAGGAGATCTAACTAAGTTTTTTTT	[34, 4, 0, 0, 25, 4, 0, 0]
1964	TGGATATCTTTTTTTTTTTTTTTTTGGGGCAC	[0, 0, 34, 5, 0, 0, 25, 5]
1965	TTTTTTTTATGTACCGAACAGTGATTTTTTTT	[34, 6, 0, 0, 45, 6, 0, 0]
1966	TCAAGCTGTTTTTTTTTTTTTTTTGCTATTCG	[0, 0, 34, 7, 0, 0, 45, 7]
1967	TTTTTTTTGTCTTGCGGGTACACCTTTTTTTT	[34, 8, 0, 0, 25, 8, 0, 0]
1968	CCCCAAGTTTTTTTTTTTTTTTTTCACTTGC	[0, 0, 34, 9, 0, 0, 25, 9]
1969	TTTTTTTTGCTACATGGCAGTCCGTTTTTTTT	[36, 2, 0, 0, 43, 2, 0, 0]
1970	TCGTACAGTTTTTTTTTTTTTTTTATGTTGGG	[0, 0, 36, 3, 0, 0, 43, 3]
1971	TTTTTTTTGGACTCATCCTACAATTTTTTTTT	[36, 4, 0, 0, 23, 4, 0, 0]
1972	TATTTGACTTTTTTTTTTTTTTTTAGCTTTAT	[0, 0, 36, 5, 0, 0, 23, 5]
1973	TTTTTTTTAGCACGCATTTCAACTTTTTTTTT	[36, 6, 0, 0, 43, 6, 0, 0]
1974	TGTGGGCTTTTTTTTTTTTTTTTTCTTGCCA	[0, 0, 36, 7, 0, 0, 43, 7]
1975	TTTTTTTTTGTCAAGTGTGCAGCTTTTTTTTT	[36, 8, 0, 0, 23, 8, 0, 0]
1976	CTAGGACCTTTTTTTTTTTTTTTTTATCCGAAT	[0, 0, 36, 9, 0, 0, 23, 9]
1977	TTTTTTTTTAACCCTTTAAGCGCGTTTTTTTT	[38, 2, 0, 0, 41, 2, 0, 0]
1978	TACGCTATTTTTTTTTTTTTTTTTCACCCGTT	[0, 0, 38, 3, 0, 0, 41, 3]
1979	TTTTTTTTGTCCGGTCGTGGGTAATTTTTTTT	[38, 4, 0, 0, 21, 4, 0, 0]
1980	GTGGGAGATTTTTTTTTTTTTTTTTGTTATGGA	[0, 0, 38, 5, 0, 0, 21, 5]
1981	TTTTTTTTTTGGACGGGCCTGGCCTTTTTTTT	[38, 6, 0, 0, 41, 6, 0, 0]
1982	AGAACCGGTTTTTTTTTTTTTTTTTCTACTTCA	[0, 0, 38, 7, 0, 0, 41, 7]
1983	TTTTTTTTACTCTAGCCGGTGAGATTTTTTTT	[38, 8, 0, 0, 21, 8, 0, 0]
1984	CCATGAAATTTTTTTTTTTTTTTTTCCCCAG	[0, 0, 38, 9, 0, 0, 21, 9]
1985	TTTTTTTTTCGCGTCGCCACAAAGTTTTTTTT	[40, 2, 0, 0, 59, 2, 0, 0]
1986	TACTTGAATTTTTTTTTTTTTTTTGGTGTCAG	[0, 0, 40, 3, 0, 0, 59, 3]
1987	TTTTTTTTTCACCGAACGTACGCATTTTTTTT	[40, 4, 0, 0, 39, 4, 0, 0]
1988	GCGCCAGATTTTTTTTTTTTTTTTTACGATTT	[0, 0, 40, 5, 0, 0, 39, 5]
1989	TTTTTTTTGTCCTCACCTCTCCGCTTTTTTTT	[40, 6, 0, 0, 59, 6, 0, 0]
1990	CGGGGAGGTTTTTTTTTTTTTTTTCATATTGT	[0, 0, 40, 7, 0, 0, 59, 7]
1991	TTTTTTTTTTGTAATGACGACTCTTTTTTTTT	[40, 8, 0, 0, 39, 8, 0, 0]
1992	AGCAGGTCTTTTTTTTTTTTTTTTCATCTGAT	[0, 0, 40, 9, 0, 0, 39, 9]
1993	TTTTTTTTGTTAATGCGTGCATCTTTTTTTTT	[42, 2, 0, 0, 57, 2, 0, 0]
1994	AATTCATCTTTTTTTTTTTTTTTTACATGGTC	[0, 0, 42, 3, 0, 0, 57, 3]
1995	TTTTTTTTCCGAACGAGGAACTTGTTTTTTTT	[42, 4, 0, 0, 37, 4, 0, 0]

Strand	Sequence	Voxel
1996	TGCTTATCTTTTTTTTTTTTTTTTTATGTCATG	[0, 0, 42, 5, 0, 0, 37, 5]
1997	TTTTTTTTGGTCCTTCAATTAGAATTTTTTTT	[42, 6, 0, 0, 57, 6, 0, 0]
1998	AAAGCTTCTTTTTTTTTTTTTTTTGTCGAATT	[0, 0, 42, 7, 0, 0, 57, 7]
1999	TTTTTTTTGGCTAGAATGCTGGTGTTTTTTTT	[42, 8, 0, 0, 37, 8, 0, 0]
2000	ATTAATACTTTTTTTTTTTTTTTTAAAGATAC	[0, 0, 42, 9, 0, 0, 37, 9]
2001	TTTTTTTTGACTTGATTGTTTTCGTTTTTTTT	[44, 2, 0, 0, 55, 2, 0, 0]
2002	CGTCACTTTTTTTTTTTTTTTTTCTAGGTGG	[0, 0, 44, 3, 0, 0, 55, 3]
2003	TTTTTTTTGCTGAGGACTCGTTCGTTTTTTTT	[44, 4, 0, 0, 35, 4, 0, 0]
2004	GCTTCTCGTTTTTTTTTTTTTTTTGGTGCTAC	[0, 0, 44, 5, 0, 0, 35, 5]
2005	TTTTTTTTATCTATACCGGGTGTCTTTTTTTT	[44, 6, 0, 0, 55, 6, 0, 0]
2006	GCCTTGTCTTTTTTTTTTTTTTTTTCCTCAAGC	[0, 0, 44, 7, 0, 0, 55, 7]
2007	TTTTTTTTCTGAAGCGGCGTTAAATTTTTTTT	[44, 8, 0, 0, 35, 8, 0, 0]
2008	GAGGAGCGTTTTTTTTTTTTTTTTCTGCCCAG	[0, 0, 44, 9, 0, 0, 35, 9]
2009	TTTTTTTTGACATCGTCTGATGGTTTTTTTT	[46, 2, 0, 0, 53, 2, 0, 0]
2010	ACCCGAGATTTTTTTTTTTTTTTTTATCTCAGC	[0, 0, 46, 3, 0, 0, 53, 3]
2011	TTTTTTTTCCCGCTCGCCACATGATTTTTTTT	[46, 4, 0, 0, 33, 4, 0, 0]
2012	CCCATGGATTTTTTTTTTTTTTTTACCGCTCT	[0, 0, 46, 5, 0, 0, 33, 5]
2013	TTTTTTTTGGTGAATACTCGCTATTTTTTTT	[46, 6, 0, 0, 53, 6, 0, 0]
2014	GCCTGTGATTTTTTTTTTTTTTTTGTCAACTT	[0, 0, 46, 7, 0, 0, 53, 7]
2015	TTTTTTTTCGTAGTTCGTAAACGATTTTTTTT	[46, 8, 0, 0, 33, 8, 0, 0]
2016	ACCAGTTCTTTTTTTTTTTTTTTTTAGGTTTC	[0, 0, 46, 9, 0, 0, 33, 9]
2017	TTTTTTTTCACAAGGGGATTGGGTTTTTTTTT	[48, 2, 0, 0, 51, 2, 0, 0]
2018	TCACAGTGTTTTTTTTTTTTTTTTATGAAAAC	[0, 0, 48, 3, 0, 0, 51, 3]
2019	TTTTTTTTGTGGAAATGCCACTACTTTTTTTT	[48, 4, 0, 0, 31, 4, 0, 0]
2020	CCCCGGAATTTTTTTTTTTTTTTTGATATTCA	[0, 0, 48, 5, 0, 0, 31, 5]
2021	TTTTTTTTTGATTTACCGAATTATTTTTTTT	[48, 6, 0, 0, 51, 6, 0, 0]
2022	GGAGAATCTTTTTTTTTTTTTTTTTGGTGTGT	[0, 0, 48, 7, 0, 0, 51, 7]
2023	TTTTTTTTGCTGCCATTCTGGTTCTTTTTTTT	[48, 8, 0, 0, 31, 8, 0, 0]
2024	GCTCTAAATTTTTTTTTTTTTTTTCCCACTGT	[0, 0, 48, 9, 0, 0, 31, 9]
2025	TTTTTTTTTAAGGAATCGGACGGATTTTTTTT	[50, 2, 0, 0, 69, 2, 0, 0]
2026	TCTGATATTTTTTTTTTTTTTTTAAACTACA	[0, 0, 50, 3, 0, 0, 69, 3]
2027	TTTTTTTTCTGTGCTCCCCGAGTCTTTTTTTT	[50, 4, 0, 0, 49, 4, 0, 0]
2028	CTGGTTTTTTTTTTTTTTTTTTCAGCATTA	[0, 0, 50, 5, 0, 0, 49, 5]
2029	TTTTTTTTGATTGCGCGTAATGGTTTTTTTTT	[50, 6, 0, 0, 69, 6, 0, 0]
2030	CCGTAATCTTTTTTTTTTTTTTTTCGTAGTGG	[0, 0, 50, 7, 0, 0, 69, 7]
2031	TTTTTTTTCTAAGCCGTATAAAGCTTTTTTTT	[50, 8, 0, 0, 49, 8, 0, 0]
2032	TGCCATGATTTTTTTTTTTTTTTTGTTTGGAA	[0, 0, 50, 9, 0, 0, 49, 9]
2033	TTTTTTTTAATAACTTCTGTATGATTTTTTTT	[52, 2, 0, 0, 67, 2, 0, 0]
2034	ACCAATCATTTTTTTTTTTTTTTTATCTATGT	[0, 0, 52, 3, 0, 0, 67, 3]
2035	TTTTTTTTTACACTAATGCGGCGCTTTTTTTT	[52, 4, 0, 0, 47, 4, 0, 0]
2036	GATAATACTTTTTTTTTTTTTTTTCCTGCGAA	[0, 0, 52, 5, 0, 0, 47, 5]
2037	TTTTTTTTATTGACGCCCACCTTATTTTTTTT	[52, 6, 0, 0, 67, 6, 0, 0]
2038	TTCTGCTATTTTTTTTTTTTTTTTTACGAGT	[0, 0, 52, 7, 0, 0, 67, 7]
2039	TTTTTTTTGCAAATTATACGAGCTTTTTTTTT	[52, 8, 0, 0, 47, 8, 0, 0]
2040	CTTCGTCATTTTTTTTTTTTTTTTAGACCTGT	[0, 0, 52, 9, 0, 0, 47, 9]
2041	TTTTTTTTTGACGGAGCTAGAGCTTTTTTTTT	[54, 2, 0, 0, 65, 2, 0, 0]
2042	AGGAGGTGTTTTTTTTTTTTTTTTACTCGCCG	[0, 0, 54, 3, 0, 0, 65, 3]
2043	TTTTTTTTACCCTAACATAGAATATTTTTTTT	[54, 4, 0, 0, 45, 4, 0, 0]
2044	CTCCCACATTTTTTTTTTTTTTTTTAGGTCAC	[0, 0, 54, 5, 0, 0, 45, 5]
2045	TTTTTTTTTAATGATCTGTACCATTTTTTTTT	[54, 6, 0, 0, 65, 6, 0, 0]
2046	GGACTATTTTTTTTTTTTTTTTTTATCAAAG	[0, 0, 54, 7, 0, 0, 65, 7]
2047	TTTTTTTTCATTTCTTCGCGGAACTTTTTTTT	[54, 8, 0, 0, 45, 8, 0, 0]
2048	AGTAATTGTTTTTTTTTTTTTTTTTTTAAACC	[0, 0, 54, 9, 0, 0, 45, 9]
2049	TTTTTTTTTCGCTTTTAACACTTTTTTTTT	[56, 2, 0, 0, 63, 2, 0, 0]
2050	TACTGGAGTTTTTTTTTTTTTTTTGGTCTCGA	[0, 0, 56, 3, 0, 0, 63, 3]
2051	TTTTTTTTAATGGCAAAGCACGTATTTTTTTT	[56, 4, 0, 0, 43, 4, 0, 0]
2052	GATGAACATTTTTTTTTTTTTTTTTGAGATAAT	[0, 0, 56, 5, 0, 0, 43, 5]
2053	TTTTTTTTGGGTGACCATAGAATGTTTTTTTT	[56, 6, 0, 0, 63, 6, 0, 0]
2054	ACCATTGTTTTTTTTTTTTTTTTTCTATTGAG	[0, 0, 56, 7, 0, 0, 63, 7]
2055	TTTTTTTTCAAAAGATGTTATACATTTTTTTT	[56, 8, 0, 0, 43, 8, 0, 0]
2056	CAGTGCGGTTTTTTTTTTTTTTTTTGGTCCGGC	[0, 0, 56, 9, 0, 0, 43, 9]
2057	TTTTTTTTAGTAAATGGGTAGAAGTTTTTTTT	[58, 2, 0, 0, 61, 2, 0, 0]
2058	GGGAGCTGTTTTTTTTTTTTTTTTGAACTCTG	[0, 0, 58, 3, 0, 0, 61, 3]
2059	TTTTTTTTACTTACCTCACTCGCATTTTTTTT	[58, 4, 0, 0, 41, 4, 0, 0]
2060	TTATATTATTTTTTTTTTTTTTTTCTTAGATC	[0, 0, 58, 5, 0, 0, 41, 5]
2061	TTTTTTTTCGCGGACAGCGGTAACTTTTTTTT	[58, 6, 0, 0, 61, 6, 0, 0]
2062	ACTTAATATTTTTTTTTTTTTTTTTATCACATA	[0, 0, 58, 7, 0, 0, 61, 7]
2063	TTTTTTTTCGGCGAAAACTTACGTTTTTTTTT	[58, 8, 0, 0, 41, 8, 0, 0]
2064	CAGGCAAGTTTTTTTTTTTTTTTTTGTAGTGTC	[0, 0, 58, 9, 0, 0, 41, 9]
2065	TTTTTTTTCACAGGATCTGGTCTCTTTTTTTT	[60, 2, 0, 0, 79, 2, 0, 0]
2066	ATTACTGGTTTTTTTTTTTTTTTTAAACGTCC	[0, 0, 60, 3, 0, 0, 79, 3]
2067	TTTTTTTTTTCAGGCTACCTATATTTTTTTTT	[60, 4, 0, 0, 59, 4, 0, 0]
2068	AATGTTCTTTTTTTTTTTTTTTTTAGCCATTT	[0, 0, 60, 5, 0, 0, 59, 5]
2069	TTTTTTTTCGAACCCGAACTCATATTTTTTTT	[60, 6, 0, 0, 79, 6, 0, 0]
2070	GCAGGGTGTTTTTTTTTTTTTTTTTACGTCTT	[0, 0, 60, 7, 0, 0, 79, 7]
2071	TTTTTTTTCCGTCGATCGACCATTTTTTTTTT	[60, 8, 0, 0, 59, 8, 0, 0]
2072	GAGCTCACTTTTTTTTTTTTTTTTGGTCATTG	[0, 0, 60, 9, 0, 0, 59, 9]
2073	TTTTTTTTAAAAATCACTGCTCCTTTTTTTTT	[62, 2, 0, 0, 77, 2, 0, 0]
2074	GCCGATGGTTTTTTTTTTTTTTTTTAGGGTC	[0, 0, 62, 3, 0, 0, 77, 3]
2075	TTTTTTTTTCAATTTTTACCGAGCTTTTTTTT	[62, 4, 0, 0, 57, 4, 0, 0]

Strand	Sequence	Voxel
2076	CTAGTAACTTTTTTTTTTTTTTTTAAAGTATT	[0, 0, 62, 5, 0, 0, 57, 5]
2077	TTTTTTTTCAAGGCGCGAATATCCTTTTTTTT	[62, 6, 0, 0, 77, 6, 0, 0]
2078	CCTAGGCGTTTTTTTTTTTTTTTTCCGGTTGA	[0, 0, 62, 7, 0, 0, 77, 7]
2079	TTTTTTTTGAGGTTAGCGCTGATCTTTTTTTT	[62, 8, 0, 0, 57, 8, 0, 0]
2080	CGTTTATTTTTTTTTTTTTTTTTCGGTTTAC	[0, 0, 62, 9, 0, 0, 57, 9]
2081	TTTTTTTTTTATGTGACCCCTTCGTTTTTTTT	[64, 2, 0, 0, 75, 2, 0, 0]
2082	AAGAGCAATTTTTTTTTTTTTTTTTTTAAAGA	[0, 0, 64, 3, 0, 0, 75, 3]
2083	TTTTTTTTAGACGTCCTGGCTCGTTTTTTTTT	[64, 4, 0, 0, 55, 4, 0, 0]
2084	CTGAAGGATTTTTTTTTTTTTTTTTACCCATCC	[0, 0, 64, 5, 0, 0, 55, 5]
2085	TTTTTTTTTAGGCGGAAGATGCGATTTTTTTT	[64, 6, 0, 0, 75, 6, 0, 0]
2086	AGGGTTCATTTTTTTTTTTTTTTTTTTGTACG	[0, 0, 64, 7, 0, 0, 75, 7]
2087	TTTTTTTTCGATAGTAGAAAACTGTTTTTTTT	[64, 8, 0, 0, 55, 8, 0, 0]
2088	TAGGCAAGTTTTTTTTTTTTTTTTTCACAACTT	[0, 0, 64, 9, 0, 0, 55, 9]
2089	TTTTTTTTTAAGAACACCCGACAATTTTTTTT	[66, 2, 0, 0, 73, 2, 0, 0]
2090	CCTAGAACTTTTTTTTTTTTTTTTTGGCAGCAG	[0, 0, 66, 3, 0, 0, 73, 3]
2091	TTTTTTTTCCCCGCTCCAACATTTTTTTTTTT	[66, 4, 0, 0, 53, 4, 0, 0]
2092	TGGTCGGTTTTTTTTTTTTTTTTTATCTCTT	[0, 0, 66, 5, 0, 0, 53, 5]
2093	TTTTTTTTTAGCGCCTGCGCGGGCTTTTTTTT	[66, 6, 0, 0, 73, 6, 0, 0]
2094	TGGGAGAATTTTTTTTTTTTTTTTTGACTCTT	[0, 0, 66, 7, 0, 0, 73, 7]
2095	TTTTTTTTTATCCATTTGATCCTGTTTTTTTT	[66, 8, 0, 0, 53, 8, 0, 0]
2096	GGTATTTTTTTTTTTTTTTTTTTTCGTACCTT	[0, 0, 66, 9, 0, 0, 53, 9]
2097	TTTTTTTTGATGCGTTGATGATATTTTTTTTT	[68, 2, 0, 0, 71, 2, 0, 0]
2098	GCCCGACGTTTTTTTTTTTTTTTTGGTAATCC	[0, 0, 68, 3, 0, 0, 71, 3]
2099	TTTTTTTTCGAAGGTCGCCAGTAGTTTTTTTT	[68, 4, 0, 0, 51, 4, 0, 0]
2100	ACCTAATGTTTTTTTTTTTTTTTTGCCGGGCT	[0, 0, 68, 5, 0, 0, 51, 5]
2101	TTTTTTTTTATAATAGGCTGATGCTTTTTTTT	[68, 6, 0, 0, 71, 6, 0, 0]
2102	GATATCGCTTTTTTTTTTTTTTTTCCTGCTTC	[0, 0, 68, 7, 0, 0, 71, 7]
2103	TTTTTTTTCGCATTCACCATATGATTTTTTTT	[68, 8, 0, 0, 51, 8, 0, 0]
2104	ACAGTGCCTTTTTTTTTTTTTTTTCTTGTACT	[0, 0, 68, 9, 0, 0, 51, 9]
2105	TTTTTTTTACACTCACCCCGCGTATTTTTTTT	[70, 2, 0, 0, 89, 2, 0, 0]
2106	TATTGAAGTTTTTTTTTTTTTTTTTCGGGACA	[0, 0, 70, 3, 0, 0, 89, 3]
2107	TTTTTTTTCTACAACTGCACTAAGTTTTTTTT	[70, 4, 0, 0, 69, 4, 0, 0]
2108	AGGTCATCTTTTTTTTTTTTTTTTCGCCTCCG	[0, 0, 70, 5, 0, 0, 69, 5]
2109	TTTTTTTTAGGCTGCGAAGTTGAATTTTTTTT	[70, 6, 0, 0, 89, 6, 0, 0]
2110	TTACACATTTTTTTTTTTTTTTTTCGTCTAC	[0, 0, 70, 7, 0, 0, 89, 7]
2111	TTTTTTTTGCCCACCACGTCCCATTTTTTTTT	[70, 8, 0, 0, 69, 8, 0, 0]
2112	GCTGTGCCTTTTTTTTTTTTTTTTATTTTATA	[0, 0, 70, 9, 0, 0, 69, 9]
2113	TTTTTTTTATGTGAAGCGATGCTTTTTTTTTT	[72, 2, 0, 0, 87, 2, 0, 0]
2114	CAAAGGGCTTTTTTTTTTTTTTTTTGCCACA	[0, 0, 72, 3, 0, 0, 87, 3]
2115	TTTTTTTTGTGAACCCTAACAGCATTTTTTTT	[72, 4, 0, 0, 67, 4, 0, 0]
2116	AGGATGGCTTTTTTTTTTTTTTTTGGTCGGCC	[0, 0, 72, 5, 0, 0, 67, 5]
2117	TTTTTTTTAAGCGGGTACATGAGGTTTTTTTT	[72, 6, 0, 0, 87, 6, 0, 0]
2118	TTTACGCTTTTTTTTTTTTTTTTTGGCTGGT	[0, 0, 72, 7, 0, 0, 87, 7]
2119	TTTTTTTTGTCAAGACATACCCTATTTTTTTT	[72, 8, 0, 0, 67, 8, 0, 0]
2120	GTGGCGCTTTTTTTTTTTTTTTTTTGTCGTT	[0, 0, 72, 9, 0, 0, 67, 9]
2121	TTTTTTTTTTGTTCATACTTGGACTTTTTTTT	[74, 2, 0, 0, 85, 2, 0, 0]
2122	ACGGGACATTTTTTTTTTTTTTTTAAAGTGAG	[0, 0, 74, 3, 0, 0, 85, 3]
2123	TTTTTTTTGCCCTAACAGTGTTTTTTTTTTT	[74, 4, 0, 0, 65, 4, 0, 0]
2124	ACATTACTTTTTTTTTTTTTTTTATGCTGGG	[0, 0, 74, 5, 0, 0, 65, 5]
2125	TTTTTTTTGGCACTAGCGTGACGGTTTTTTTT	[74, 6, 0, 0, 85, 6, 0, 0]
2126	AGTAACGCTTTTTTTTTTTTTTTTTGAATCTT	[0, 0, 74, 7, 0, 0, 85, 7]
2127	TTTTTTTTAGCGGGTCATCATGAGTTTTTTTT	[74, 8, 0, 0, 65, 8, 0, 0]
2128	CATACCGTTTTTTTTTTTTTTTTTTTTTTTGT	[0, 0, 74, 9, 0, 0, 65, 9]
2129	TTTTTTTTGCGTAGCTGATAGAGATTTTTTTT	[76, 2, 0, 0, 83, 2, 0, 0]
2130	GGGGACTCTTTTTTTTTTTTTTTTTACTGTCCC	[0, 0, 76, 3, 0, 0, 83, 3]
2131	TTTTTTTTTATTCTTCTTCTGAATTTTTTTTT	[76, 4, 0, 0, 63, 4, 0, 0]
2132	CTGAATGGTTTTTTTTTTTTTTTTTCGCGGGCT	[0, 0, 76, 5, 0, 0, 63, 5]
2133	TTTTTTTTCCTGTGAAATCCCGGATTTTTTTT	[76, 6, 0, 0, 83, 6, 0, 0]
2134	ACTCGTCGTTTTTTTTTTTTTTTTTCTTGTAT	[0, 0, 76, 7, 0, 0, 83, 7]
2135	TTTTTTTTATGCCGTTCGTAGGAGTTTTTTTT	[76, 8, 0, 0, 63, 8, 0, 0]
2136	AGACATAGTTTTTTTTTTTTTTTTTTGACCTA	[0, 0, 76, 9, 0, 0, 63, 9]
2137	TTTTTTTTAGGCCTCGCTTGGACATTTTTTTT	[78, 2, 0, 0, 81, 2, 0, 0]
2138	TATTGCTCTTTTTTTTTTTTTTTTTGCGCTT	[0, 0, 78, 3, 0, 0, 81, 3]
2139	TTTTTTTTTCAATTTCCTTCCATGTTTTTTTT	[78, 4, 0, 0, 61, 4, 0, 0]
2140	CTTACTTGTTTTTTTTTTTTTTTTTAATTATA	[0, 0, 78, 5, 0, 0, 61, 5]
2141	TTTTTTTTACGCCCTGTTAACCATTTTTTTTT	[78, 6, 0, 0, 81, 6, 0, 0]
2142	GCTCATTCTTTTTTTTTTTTTTTTTAAGGTCCG	[0, 0, 78, 7, 0, 0, 81, 7]
2143	TTTTTTTTGGTGCGTCGACCACGTTTTTTTTT	[78, 8, 0, 0, 61, 8, 0, 0]
2144	CCAGCAGTTTTTTTTTTTTTTTTTCCTCTCCT	[0, 0, 78, 9, 0, 0, 61, 9]
2145	TTTTTTTTCCCGGTCACGCGAGACTTTTTTTT	[80, 2, 0, 0, 99, 2, 0, 0]
2146	CTCCGCATTTTTTTTTTTTTTTTTCCTCACGC	[0, 0, 80, 3, 0, 0, 99, 3]
2147	TTTTTTTTGCCTACCTACACAGTGTTTTTTTT	[80, 4, 0, 0, 79, 4, 0, 0]
2148	TAACAAGGTTTTTTTTTTTTTTTTTGCAGGGT	[0, 0, 80, 5, 0, 0, 79, 5]
2149	TTTTTTTTTGCCATCGTTTTAACATTTTTTTT	[80, 6, 0, 0, 99, 6, 0, 0]
2150	GCGACGCTTTTTTTTTTTTTTTTTCATACATG	[0, 0, 80, 7, 0, 0, 99, 7]
2151	TTTTTTTTCACTTTAAGAGCCGATTTTTTTTT	[80, 8, 0, 0, 79, 8, 0, 0]
2152	GAAGGCTGTTTTTTTTTTTTTTTTGGAGTGTT	[0, 0, 80, 9, 0, 0, 79, 9]
2153	TTTTTTTTCTTGGTAACACAAAACTTTTTTTT	[82, 2, 0, 0, 97, 2, 0, 0]
2154	CGGCGCCGTTTTTTTTTTTTTTTTTGCCAATG	[0, 0, 82, 3, 0, 0, 97, 3]
2155	TTTTTTTTTGATCAATATCGGATTTTTTTTTT	[82, 4, 0, 0, 77, 4, 0, 0]

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2156	GGTTGCGGTTTTTTTTTTTTTTTCCGGCGGA	[0, 0, 82, 5, 0, 0, 77, 5]
2157	TTTTTTTCACGTAAACAGGTGGTTTTTTTT	[82, 6, 0, 0, 97, 6, 0, 0]
2158	CCCGGTGGTTTTTTTTTTTTTTTCTCTGATA	[0, 0, 82, 7, 0, 0, 97, 7]
2159	TTTTTTTGGAACAGACTGCTTTTTTTTTTT	[82, 8, 0, 0, 77, 8, 0, 0]
2160	GTTGTTCCTTTTTTTTTTTTTTTTATAAAAA	[0, 0, 82, 9, 0, 0, 77, 9]
2161	TTTTTTTTCGGGCATCAGTCAATCTTTTTTTT	[84, 2, 0, 0, 95, 2, 0, 0]
2162	ATGTTCCGTTTTTTTTTTTTTTTTCCCCGGA	[0, 0, 84, 3, 0, 0, 95, 3]
2163	TTTTTTTTCATCGTGCCGTGGGACTTTTTTTT	[84, 4, 0, 0, 75, 4, 0, 0]
2164	GCGGCGAATTTTTTTTTTTTTTTTATTCCACG	[0, 0, 84, 5, 0, 0, 75, 5]
2165	TTTTTTTTAAAACGACCGGGTATATTTTTTTT	[84, 6, 0, 0, 95, 6, 0, 0]
2166	CTGCTGAATTTTTTTTTTTTTTTTGGAGCGTA	[0, 0, 84, 7, 0, 0, 95, 7]
2167	TTTTTTTTGAGTAAGGGCTAAGGGTTTTTTTT	[84, 8, 0, 0, 75, 8, 0, 0]
2168	GCCAAAATTTTTTTTTTTTTTTTTTTTGCAT	[0, 0, 84, 9, 0, 0, 75, 9]
2169	TTTTTTTTCCATGCGATTGTTGCGTTTTTTTT	[86, 2, 0, 0, 93, 2, 0, 0]
2170	GCGCCAGATTTTTTTTTTTTTTTTTGCCTCGTG	[0, 0, 86, 3, 0, 0, 93, 3]
2171	TTTTTTTTCTAAGCCGGACCCAGGTTTTTTTT	[86, 4, 0, 0, 73, 4, 0, 0]
2172	GGCGGATATTTTTTTTTTTTTTTTTAGGTTAT	[0, 0, 86, 5, 0, 0, 73, 5]
2173	TTTTTTTTGCGAGATATAGATGCGTTTTTTTT	[86, 6, 0, 0, 93, 6, 0, 0]
2174	CGTCCTGTTTTTTTTTTTTTTTTTACTACACC	[0, 0, 86, 7, 0, 0, 93, 7]
2175	TTTTTTTTGAGAACATTCACATACTTTTTTTT	[86, 8, 0, 0, 73, 8, 0, 0]
2176	CAGAGATGTTTTTTTTTTTTTTTTTCAGCTGGA	[0, 0, 86, 9, 0, 0, 73, 9]
2177	TTTTTTTTAACGGTTTAGCGTGATTTTTTTTT	[88, 2, 0, 0, 91, 2, 0, 0]
2178	ATATTGTATTTTTTTTTTTTTTTTTGCAGGCGT	[0, 0, 88, 3, 0, 0, 91, 3]
2179	TTTTTTTTATATAACTCCATATTATTTTTTTT	[88, 4, 0, 0, 71, 4, 0, 0]
2180	ACCTTCAATTTTTTTTTTTTTTTTTACCTGCCA	[0, 0, 88, 5, 0, 0, 71, 5]
2181	TTTTTTTTTGGTTCAACGATGCGGTTTTTTTT	[88, 6, 0, 0, 91, 6, 0, 0]
2182	GACTCTCTTTTTTTTTTTTTTTTTGCGAGGGT	[0, 0, 88, 7, 0, 0, 91, 7]
2183	TTTTTTTTAGGGCTGCGCATGAGATTTTTTTT	[88, 8, 0, 0, 71, 8, 0, 0]
2184	CTCAATAATTTTTTTTTTTTTTTTTGGCGCAGA	[0, 0, 88, 9, 0, 0, 71, 9]
2185	TTTTTTTTTTGCGGGGAGTGTGGTTTTTTTTT	[90, 4, 0, 0, 89, 4, 0, 0]
2186	TTGTGAACTTTTTTTTTTTTTTTTCTGTTTAA	[0, 0, 90, 5, 0, 0, 89, 5]
2187	TTTTTTTTTAACGGCCGACTCTACTTTTTTTT	[90, 8, 0, 0, 89, 8, 0, 0]
2188	CTGTACTATTTTTTTTTTTTTTTTCCTGGGAA	[0, 0, 90, 9, 0, 0, 89, 9]
2189	TTTTTTTTATCGCTGACATCTTAATTTTTTTT	[92, 4, 0, 0, 87, 4, 0, 0]
2190	ATCCCCTCTTTTTTTTTTTTTTTTCGACCGTT	[0, 0, 92, 5, 0, 0, 87, 5]
2191	TTTTTTTTGTAGTTAAAGAACTCTTTTTTTTT	[92, 8, 0, 0, 87, 8, 0, 0]
2192	CGATAGAATTTTTTTTTTTTTTTTTGATGTCC	[0, 0, 92, 9, 0, 0, 87, 9]
2193	TTTTTTTTTCACCCTACATACACATTTTTTTT	[94, 4, 0, 0, 85, 4, 0, 0]
2194	TTGTCTTATTTTTTTTTTTTTTTTCCACAATG	[0, 0, 94, 5, 0, 0, 85, 5]
2195	TTTTTTTTACCGTGGGAAACTGAGTTTTTTTT	[94, 8, 0, 0, 85, 8, 0, 0]
2196	TCATGGTATTTTTTTTTTTTTTTTTAAGACCT	[0, 0, 94, 9, 0, 0, 85, 9]
2197	TTTTTTTTTGGAGTAGGTTAGTGGTTTTTTTT	[96, 4, 0, 0, 83, 4, 0, 0]
2198	CACTTGACTTTTTTTTTTTTTTTTTGGCACCC	[0, 0, 96, 5, 0, 0, 83, 5]
2199	TTTTTTTTGCGACCGATCCCTAAATTTTTTTT	[96, 8, 0, 0, 83, 8, 0, 0]
2200	AGACGCCTTTTTTTTTTTTTTTTTTGTCCGTG	[0, 0, 96, 9, 0, 0, 83, 9]
2201	TTTTTTTTGGGGATGATTTGCACCTTTTTTTT	[98, 4, 0, 0, 81, 4, 0, 0]
2202	GCTCTGGATTTTTTTTTTTTTTTTTACCTATAC	[0, 0, 98, 5, 0, 0, 81, 5]
2203	TTTTTTTTTAGGTGCTAATATTGCTTTTTTTT	[98, 8, 0, 0, 81, 8, 0, 0]
2204	AGACGTTTTTTTTTTTTTTTTTTTAGTATTCC	[0, 0, 98, 9, 0, 0, 81, 9]
2205	TTTTTTTTTGTCCTATGTTTACTTAGGGATGG	[1, 1, 0, 0, 0, 1, 0, 2]
2206	AACTGTTGTTTTTTTTTGTTTACTTAGGGATGG	[0, 0, 1, 2, 0, 1, 0, 2]
2207	AACTGTTGTGTCCTATTTTTTTTTTAGGGATGG	[1, 1, 1, 2, 0, 0, 0, 2]
2208	AACTGTTGTGTCCTATGTTTACTTTTTTTTTT	[1, 1, 1, 2, 0, 1, 0, 0]
2209	TTTTTTTTCAACGCACGCTCGGGTAGTCTCAA	[1, 3, 0, 0, 2, 3, 2, 4]
2210	TACGAACTTTTTTTTTGCTCGGGTAGTCTCAA	[0, 0, 1, 4, 2, 3, 2, 4]
2211	TACGAACTCAACGCACTTTTTTTTAGTCTCAA	[1, 3, 1, 4, 0, 0, 2, 4]
2212	TACGAACTCAACGCACGCTCGGGTTTTTTTTT	[1, 3, 1, 4, 2, 3, 0, 0]
2213	TTTTTTTTAGAGCATAAATTCGCTAAACCGGA	[1, 5, 0, 0, 0, 5, 0, 6]
2214	GAAGATAGTTTTTTTTTAATTCGCTAAACCGGA	[0, 0, 1, 6, 0, 5, 0, 6]
2215	GAAGATAGAGAGCATATTTTTTTTAAACCGGA	[1, 5, 1, 6, 0, 0, 0, 6]
2216	GAAGATAGAGAGCATAAATTCGCTTTTTTTTT	[1, 5, 1, 6, 0, 5, 0, 0]
2217	TTTTTTTTCGCATCTCACTCAGTGATCGAGTA	[1, 7, 0, 0, 2, 7, 2, 8]
2218	AAAGTATCTTTTTTTTACTCAGTGATCGAGTA	[0, 0, 1, 8, 2, 7, 2, 8]
2219	AAAGTATCCGCATCTCTTTTTTTTATCGAGTA	[1, 7, 1, 8, 0, 0, 2, 8]
2220	AAAGTATCCGCATCTCACTCAGTGTTTTTTTT	[1, 7, 1, 8, 2, 7, 0, 0]
2221	TTTTTTTTGCCTTTTCGAACGGTGACACACTT	[1, 9, 0, 0, 0, 9, 0, 10]
2222	TTCATGTCTTTTTTTTGAACGGTGACACACTT	[0, 0, 1, 10, 0, 9, 0, 10]
2223	TTCATGTCGCCTTTTCTTTTTTTTACACACTT	[1, 9, 1, 10, 0, 0, 0, 10]
2224	TTCATGTCGCCTTTTCGAACGGTGTTTTTTTT	[1, 9, 1, 10, 0, 9, 0, 0]
2225	TTTTTTTTTCAGAGTAGCGGAAATATGGCCGC	[3, 1, 0, 0, 2, 1, 2, 2]
2226	GTGTTCATTTTTTTTTGCGGAAATATGGCCGC	[0, 0, 3, 2, 2, 1, 2, 2]
2227	GTGTTCATTCAGAGTATTTTTTTTATGGCCGC	[3, 1, 3, 2, 0, 0, 2, 2]
2228	GTGTTCATTCAGAGTAGCGGAAATTTTTTTTT	[3, 1, 3, 2, 2, 1, 0, 0]
2229	TTTTTTTTGCAGCGGGCCGCCTGTAACGCTTA	[3, 3, 0, 0, 4, 3, 4, 4]
2230	TTCGGTGCTTTTTTTTCCGCCTGTAACGCTTA	[0, 0, 3, 4, 4, 3, 4, 4]
2231	TTCGGTGCGCAGCGGGTTTTTTTTAACGCTTA	[3, 3, 3, 4, 0, 0, 4, 4]
2232	TTCGGTGCGCAGCGGGCCGCCTGTTTTTTTTT	[3, 3, 3, 4, 4, 3, 0, 0]
2233	TTTTTTTTGGGCTTTTGCTAATACGCTGAGCG	[3, 5, 0, 0, 2, 5, 2, 6]
2234	ATCAGCCCTTTTTTTTGCTAATACGCTGAGCG	[0, 0, 3, 6, 2, 5, 2, 6]
2235	ATCAGCCCGGGCTTTTTTTTTTTTGCTGAGCG	[3, 5, 3, 6, 0, 0, 2, 6]

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2236	ATCAGCCCGGGCTTTTGCTAATACTTTTTTTT	[3, 5, 3, 6, 2, 5, 0, 0]
2237	TTTTTTTTGTTGCGGGGTTTCTGAACCGGAAC	[3, 7, 0, 0, 4, 7, 4, 8]
2238	ATGCTGTTTTTTTTTTGTTTCTGAACCGGAAC	[0, 0, 3, 8, 4, 7, 4, 8]
2239	ATGCTGTTGTTGCGGGTTTTTTTTTACCGGAAC	[3, 7, 3, 8, 0, 0, 4, 8]
2240	ATGCTGTTGTTGCGGGGTTTCTGATTTTTTTT	[3, 7, 3, 8, 4, 7, 0, 0]
2241	TTTTTTTTATGAAGCCGTGACCCCAGAGACTG	[3, 9, 0, 0, 2, 9, 2, 10]
2242	CCGGGCTATTTTTTTTTGTGACCCCAGAGACTG	[0, 0, 3, 10, 2, 9, 2, 10]
2243	CCGGGCTAATGAAGCCTTTTTTTTAGAGACTG	[3, 9, 3, 10, 0, 0, 2, 10]
2244	CCGGGCTAATGAAGCCGTGACCCCTTTTTTTT	[3, 9, 3, 10, 2, 9, 0, 0]
2245	TTTTTTTTACCGGGAGCCAGCCACTTAGCTGT	[5, 1, 0, 0, 4, 1, 4, 2]
2246	TCTGATGCTTTTTTTTCCAGCCACTTAGCTGT	[0, 0, 5, 2, 4, 1, 4, 2]
2247	TCTGATGCACCGGGAGTTTTTTTTTTAGCTGT	[5, 1, 5, 2, 0, 0, 4, 2]
2248	TCTGATGCACCGGGAGCCAGCCACTTTTTTTT	[5, 1, 5, 2, 4, 1, 0, 0]
2249	TTTTTTTTGATCGCGAGTTCCCTCTAGCTAGG	[5, 3, 0, 0, 6, 3, 6, 4]
2250	GTCAGTGTTTTTTTTTGTTCCCTCTAGCTAGG	[0, 0, 5, 4, 6, 3, 6, 4]
2251	GTCAGTGTGATCGCGATTTTTTTTTAGCTAGG	[5, 3, 5, 4, 0, 0, 6, 4]
2252	GTCAGTGTGATCGCGAGTTCCCTCTTTTTTTT	[5, 3, 5, 4, 6, 3, 0, 0]
2253	TTTTTTTTAAAAGGGTGGATATGGAGCTGGAA	[5, 5, 0, 0, 4, 5, 4, 6]
2254	GTGATGCCTTTTTTTTGGATATGGAGCTGGAA	[0, 0, 5, 6, 4, 5, 4, 6]
2255	GTGATGCCAAAAGGGTTTTTTTTTAGCTGGAA	[5, 5, 5, 6, 0, 0, 4, 6]
2256	GTGATGCCAAAAGGGTGGATATGGTTTTTTTT	[5, 5, 5, 6, 4, 5, 0, 0]
2257	TTTTTTTTATTTCTAGTGACCTGGTATAATGG	[5, 7, 0, 0, 6, 7, 6, 8]
2258	CGGCTCTGTTTTTTTTTGACCTGGTATAATGG	[0, 0, 5, 8, 6, 7, 6, 8]
2259	CGGCTCTGATTTCTAGTTTTTTTTTATAATGG	[5, 7, 5, 8, 0, 0, 6, 8]
2260	CGGCTCTGATTTCTAGTGACCTGGTTTTTTTT	[5, 7, 5, 8, 6, 7, 0, 0]
2261	TTTTTTTTCCTGACCTCAATCATACGTCCCAC	[5, 9, 0, 0, 4, 9, 4, 10]
2262	CGGAGCTATTTTTTTTTCAATCATACGTCCCAC	[0, 0, 5, 10, 4, 9, 4, 10]
2263	CGGAGCTACCTGACCTTTTTTTTTCGTCCCAC	[5, 9, 5, 10, 0, 0, 4, 10]
2264	CGGAGCTACCTGACCTCAATCATATTTTTTTT	[5, 9, 5, 10, 4, 9, 0, 0]
2265	TTTTTTTTTCATCCCCTTTAAGAATGATCGCA	[7, 1, 0, 0, 6, 1, 6, 2]
2266	GGAAGGATTTTTTTTTTTTTAAGAATGATCGCA	[0, 0, 7, 2, 6, 1, 6, 2]
2267	GGAAGGATTCATCCCCTTTTTTTTTGATCGCA	[7, 1, 7, 2, 0, 0, 6, 2]
2268	GGAAGGATTCATCCCCTTTAAGAATTTTTTTT	[7, 1, 7, 2, 6, 1, 0, 0]
2269	TTTTTTTTGAGATGTTGAACATCTTTTGGTTG	[7, 3, 0, 0, 8, 3, 8, 4]
2270	CAGTCTTTTTTTTTTTGAACATCTTTTGGTTG	[0, 0, 7, 4, 8, 3, 8, 4]
2271	CAGTCTTTGAGATGTTTTTTTTTTTTTGGTTG	[7, 3, 7, 4, 0, 0, 8, 4]
2272	CAGTCTTTGAGATGTTGAACATCTTTTTTTTT	[7, 3, 7, 4, 8, 3, 0, 0]
2273	TTTTTTTTATCTCGCATTCTGGTGCCAAAACT	[7, 5, 0, 0, 6, 5, 6, 6]
2274	GCGTAAAGTTTTTTTTTTCTGGTGCCAAAACT	[0, 0, 7, 6, 6, 5, 6, 6]
2275	GCGTAAAGATCTCGCATTTTTTTTTCCAAAACT	[7, 5, 7, 6, 0, 0, 6, 6]
2276	GCGTAAAGATCTCGCATTCTGGTGTTTTTTTT	[7, 5, 7, 6, 6, 5, 0, 0]
2277	TTTTTTTTGTTCAAGCACTATTATCTGGCTAT	[7, 7, 0, 0, 8, 7, 8, 8]
2278	GCCGACTCTTTTTTTTACTATTATCTGGCTAT	[0, 0, 7, 8, 8, 7, 8, 8]
2279	GCCGACTCGTTCAAGCTTTTTTTTCTGGCTAT	[7, 7, 7, 8, 0, 0, 8, 8]
2280	GCCGACTCGTTCAAGCACTATTATTTTTTTTT	[7, 7, 7, 8, 8, 7, 0, 0]
2281	TTTTTTTTCTGTCAGCCCAAGCTTAGCATAA	[7, 9, 0, 0, 6, 9, 6, 10]
2282	AAAAGATGTTTTTTTTCCCAAGCTTAGCATAA	[0, 0, 7, 10, 6, 9, 6, 10]
2283	AAAAGATGTCTGTCAGTTTTTTTTTAGCATAA	[7, 9, 7, 10, 0, 0, 6, 10]
2284	AAAAGATGTCTGTCAGCCCAAGCTTTTTTTTT	[7, 9, 7, 10, 6, 9, 0, 0]
2285	TTTTTTTTACGACCCCGCCGTGCGACGACTGA	[9, 1, 0, 0, 8, 1, 8, 2]
2286	GCGGCTGGTTTTTTTTGCCGTGCGACGACTGA	[0, 0, 9, 2, 8, 1, 8, 2]
2287	GCGGCTGGACGACCCCTTTTTTTTACGACTGA	[9, 1, 9, 2, 0, 0, 8, 2]
2288	GCGGCTGGACGACCCCGCCGTGCGTTTTTTTT	[9, 1, 9, 2, 8, 1, 0, 0]
2289	TTTTTTTTCATATCCTCGGCCCGCCAAATTAA	[9, 5, 0, 0, 8, 5, 8, 6]
2290	GACAAACGTTTTTTTTTCGGCCCGCCAAATTAA	[0, 0, 9, 6, 8, 5, 8, 6]
2291	GACAAACGCATATCCTTTTTTTTTCAAATTAA	[9, 5, 9, 6, 0, 0, 8, 6]
2292	GACAAACGCATATCCTCGGCCCGCTTTTTTTT	[9, 5, 9, 6, 8, 5, 0, 0]
2293	TTTTTTTTGTCCTTCCACGGTAATCGGGGGTG	[9, 9, 0, 0, 8, 9, 8, 10]
2294	GCCTAAAGTTTTTTTTACGGTAATCGGGGGTG	[0, 0, 9, 10, 8, 9, 8, 10]
2295	GCCTAAAGGTCCTTCCTTTTTTTTCGGGGGTG	[9, 9, 9, 10, 0, 0, 8, 10]
2296	GCCTAAAGGTCCTTCCACGGTAATTTTTTTTT	[9, 9, 9, 10, 8, 9, 0, 0]
2297	TTTTTTTTTCGAACGAGGACTGTTCTACATAG	[11, 1, 0, 0, 12, 1, 12, 2]
2298	ACGACTCGTTTTTTTTTGGACTGTTCTACATAG	[0, 0, 11, 2, 12, 1, 12, 2]
2299	ACGACTCGTCGAACGATTTTTTTTCTACATAG	[11, 1, 11, 2, 0, 0, 12, 2]
2300	ACGACTCGTCGAACGAGGACTGTTTTTTTTTT	[11, 1, 11, 2, 12, 1, 0, 0]
2301	TTTTTTTTACGAGGTTTCACTGGGCGCTATAC	[11, 3, 0, 0, 10, 3, 10, 4]
2302	TGACTTGGTTTTTTTTTCACTGGGCGCTATAC	[0, 0, 11, 4, 10, 3, 10, 4]
2303	TGACTTGGACGAGGTTTTTTTTTTCGCTATAC	[11, 3, 11, 4, 0, 0, 10, 4]
2304	TGACTTGGACGAGGTTTCACTGGGTTTTTTTT	[11, 3, 11, 4, 10, 3, 0, 0]
2305	TTTTTTTTCGAGGGGCTCCCTGTCTGTCGAGC	[11, 5, 0, 0, 12, 5, 12, 6]
2306	AGGAAACTTTTTTTTTTCCCTGTCTGTCGAGC	[0, 0, 11, 6, 12, 5, 12, 6]
2307	AGGAAACTCGAGGGGCTTTTTTTTTGTCGAGC	[11, 5, 11, 6, 0, 0, 12, 6]
2308	AGGAAACTCGAGGGGCTCCCTGTCTTTTTTTT	[11, 5, 11, 6, 12, 5, 0, 0]
2309	TTTTTTTTCACTTCTGGAGAAAGATGCGGTGG	[11, 7, 0, 0, 10, 7, 10, 8]
2310	CCAGCGACTTTTTTTTGAGAAAGATGCGGTGG	[0, 0, 11, 8, 10, 7, 10, 8]
2311	CCAGCGACCACTTCTGTTTTTTTTTGCGGTGG	[11, 7, 11, 8, 0, 0, 10, 8]
2312	CCAGCGACCACTTCTGGAGAAAGATTTTTTTT	[11, 7, 11, 8, 10, 7, 0, 0]
2313	TTTTTTTTGTGATTAGCTTGGGGGTGATATAC	[11, 9, 0, 0, 12, 9, 12, 10]
2314	CAGTAGTTTTTTTTTTCTTGGGGGTGATATAC	[0, 0, 11, 10, 12, 9, 12, 10]
2315	CAGTAGTTGTGATTAGTTTTTTTTTGATATAC	[11, 9, 11, 10, 0, 0, 12, 10]

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2316	CAGTAGTTGTGATTAGCTTGGGGGTTTTTTTT	[11, 9, 11, 10, 12, 9, 0, 0]
2317	TTTTTTTTACTCCTTCTAATGTGACTAAGCGT	[13, 1, 0, 0, 14, 1, 14, 2]
2318	CTCACTAATTTTTTTTTTAATGTGACTAAGCGT	[0, 0, 13, 2, 14, 1, 14, 2]
2319	CTCACTAAACTCCTTCTTTTTTTTCTAAGCGT	[13, 1, 13, 2, 0, 0, 14, 2]
2320	CTCACTAAACTCCTTCTAATGTGATTTTTTTT	[13, 1, 13, 2, 14, 1, 0, 0]
2321	TTTTTTTTAAGGAAACCAGCTATCCCATATTC	[13, 3, 0, 0, 12, 3, 12, 4]
2322	TAACTCCATTTTTTTTCAGCTATCCCATATTC	[0, 0, 13, 4, 12, 3, 12, 4]
2323	TAACTCCAAAGGAAACTTTTTTTTCCATATTC	[13, 3, 13, 4, 0, 0, 12, 4]
2324	TAACTCCAAAGGAAACCAGCTATCTTTTTTTT	[13, 3, 13, 4, 12, 3, 0, 0]
2325	TTTTTTTTCGGACATCTATGCGCCCGATATCC	[13, 5, 0, 0, 14, 5, 14, 6]
2326	GATGTAAGTTTTTTTTTTATGCGCCCGATATCC	[0, 0, 13, 6, 14, 5, 14, 6]
2327	GATGTAAGCGGACATCTTTTTTTTCGATATCC	[13, 5, 13, 6, 0, 0, 14, 6]
2328	GATGTAAGCGGACATCTATGCGCCTTTTTTTT	[13, 5, 13, 6, 14, 5, 0, 0]
2329	TTTTTTTTAGGGGGCTTCTGACCAAAGCTCA	[13, 7, 0, 0, 12, 7, 12, 8]
2330	GTTCAAACTTTTTTTTTTCTGACCAAAGCTCA	[0, 0, 13, 8, 12, 7, 12, 8]
2331	GTTCAAACTAGGGGGCTTTTTTTTAAAGCTCA	[13, 7, 13, 8, 0, 0, 12, 8]
2332	GTTCAAACTAGGGGGCTTCTGACCTTTTTTTT	[13, 7, 13, 8, 12, 7, 0, 0]
2333	TTTTTTTTGTAAACAGGAACAGCTTAGAGCAG	[13, 9, 0, 0, 14, 9, 14, 10]
2334	TGAGAATTTTTTTTTTGAACAGCTTAGAGCAG	[0, 0, 13, 10, 14, 9, 14, 10]
2335	TGAGAATTGTAAACAGTTTTTTTTTAGAGCAG	[13, 9, 13, 10, 0, 0, 14, 10]
2336	TGAGAATTGTAAACAGGAACAGCTTTTTTTTT	[13, 9, 13, 10, 14, 9, 0, 0]
2337	TTTTTTTTGGATACGCTACCTATGGACGGGGA	[15, 1, 0, 0, 16, 1, 16, 2]
2338	TCAAGTTCTTTTTTTTTTACCTATGGACGGGGA	[0, 0, 15, 2, 16, 1, 16, 2]
2339	TCAAGTTCGGATACGCTTTTTTTTGACGGGGA	[15, 1, 15, 2, 0, 0, 16, 2]
2340	TCAAGTTCGGATACGCTACCTATGTTTTTTTT	[15, 1, 15, 2, 16, 1, 0, 0]
2341	TTTTTTTTACCATGATCCGGATGAGTTATGAA	[15, 3, 0, 0, 14, 3, 14, 4]
2342	TATGCGACTTTTTTTTTCCGGATGAGTTATGAA	[0, 0, 15, 4, 14, 3, 14, 4]
2343	TATGCGACACCATGATTTTTTTTTGTTATGAA	[15, 3, 15, 4, 0, 0, 14, 4]
2344	TATGCGACACCATGATCCGGATGATTTTTTTT	[15, 3, 15, 4, 14, 3, 0, 0]
2345	TTTTTTTTTTGGGATATACAATCTCGAAGTAA	[15, 5, 0, 0, 16, 5, 16, 6]
2346	GATCGTCATTTTTTTTTTACAATCTCGAAGTAA	[0, 0, 15, 6, 16, 5, 16, 6]
2347	GATCGTCATTGGGATATTTTTTTTCGAAGTAA	[15, 5, 15, 6, 0, 0, 16, 6]
2348	GATCGTCATTGGGATATACAATCTTTTTTTTT	[15, 5, 15, 6, 16, 5, 0, 0]
2349	TTTTTTTTACCCTGCGAAGATAGGGTCACAGC	[15, 7, 0, 0, 14, 7, 14, 8]
2350	AGCATAGCTTTTTTTTAAGATAGGGTCACAGC	[0, 0, 15, 8, 14, 7, 14, 8]
2351	AGCATAGCACCCTGCGTTTTTTTTGTCACAGC	[15, 7, 15, 8, 0, 0, 14, 8]
2352	AGCATAGCACCCTGCGAAGATAGGTTTTTTTT	[15, 7, 15, 8, 14, 7, 0, 0]
2353	TTTTTTTTCTCTACCTTGTTGGACGTAAGCGT	[15, 9, 0, 0, 16, 9, 16, 10]
2354	AGTAATACTTTTTTTTTGTTGGACGTAAGCGT	[0, 0, 15, 10, 16, 9, 16, 10]
2355	AGTAATACCTCTACCTTTTTTTTTGTAAGCGT	[15, 9, 15, 10, 0, 0, 16, 10]
2356	AGTAATACCTCTACCTTGTTGGACTTTTTTTT	[15, 9, 15, 10, 16, 9, 0, 0]
2357	TTTTTTTTGACCAGAAAGCACGAGGATTATCA	[17, 1, 0, 0, 18, 1, 18, 2]
2358	GAAATAACTTTTTTTTTAGCACGAGGATTATCA	[0, 0, 17, 2, 18, 1, 18, 2]
2359	GAAATAACGACCAGAATTTTTTTTGATTATCA	[17, 1, 17, 2, 0, 0, 18, 2]
2360	GAAATAACGACCAGAAAGCACGAGTTTTTTTT	[17, 1, 17, 2, 18, 1, 0, 0]
2361	TTTTTTTTTCGAAATAATCGTTAGTTTCTCGA	[17, 3, 0, 0, 16, 3, 16, 4]
2362	CGTGTACCTTTTTTTTTATCGTTAGTTTCTCGA	[0, 0, 17, 4, 16, 3, 16, 4]
2363	CGTGTACCTCGAAATATTTTTTTTTTTTCTCGA	[17, 3, 17, 4, 0, 0, 16, 4]
2364	CGTGTACCTCGAAATAATCGTTAGTTTTTTTT	[17, 3, 17, 4, 16, 3, 0, 0]
2365	TTTTTTTTAAACAGGCAGCGGTAGCCTCCCAC	[17, 5, 0, 0, 18, 5, 18, 6]
2366	CTGTTCCGTTTTTTTTTAGCGGTAGCCTCCCAC	[0, 0, 17, 6, 18, 5, 18, 6]
2367	CTGTTCCGAAACAGGCTTTTTTTTCCTCCCAC	[17, 5, 17, 6, 0, 0, 18, 6]
2368	CTGTTCCGAAACAGGCAGCGGTAGTTTTTTTT	[17, 5, 17, 6, 18, 5, 0, 0]
2369	TTTTTTTTTGCCTTGGTAACTGATTTTCTCCT	[17, 7, 0, 0, 16, 7, 16, 8]
2370	TTAACCTATTTTTTTTTTAACTGATTTTCTCCT	[0, 0, 17, 8, 16, 7, 16, 8]
2371	TTAACCTATGCCTTGGTTTTTTTTTTTCTCCT	[17, 7, 17, 8, 0, 0, 16, 8]
2372	TTAACCTATGCCTTGGTAACTGATTTTTTTTT	[17, 7, 17, 8, 16, 7, 0, 0]
2373	TTTTTTTTTAGCTGATCTATGGTCCTTAATAT	[17, 9, 0, 0, 18, 9, 18, 10]
2374	GGTTCCGCTTTTTTTTTCTATGGTCCTTAATAT	[0, 0, 17, 10, 18, 9, 18, 10]
2375	GGTTCCGCTAGCTGATTTTTTTTTCTTAATAT	[17, 9, 17, 10, 0, 0, 18, 10]
2376	GGTTCCGCTAGCTGATCTATGGTCTTTTTTTT	[17, 9, 17, 10, 18, 9, 0, 0]
2377	TTTTTTTTGTGAAACAGGCCACCTGGCTCGGG	[19, 3, 0, 0, 18, 3, 18, 4]
2378	GGGAGAGGTTTTTTTTTGGCCACCTGGCTCGGG	[0, 0, 19, 4, 18, 3, 18, 4]
2379	GGGAGAGGGTGAAACATTTTTTTTGGCTCGGG	[19, 3, 19, 4, 0, 0, 18, 4]
2380	GGGAGAGGGTGAAACAGGCCACCTTTTTTTTT	[19, 3, 19, 4, 18, 3, 0, 0]
2381	TTTTTTTTGGTTATACTCGTCAAGCCTGCTTT	[19, 7, 0, 0, 18, 7, 18, 8]
2382	GCCGCCTCTTTTTTTTTCGTCAAGCCTGCTTT	[0, 0, 19, 8, 18, 7, 18, 8]
2383	GCCGCCTCGGTTATACTTTTTTTTCCTGCTTT	[19, 7, 19, 8, 0, 0, 18, 8]
2384	GCCGCCTCGGTTATACTCGTCAAGTTTTTTTT	[19, 7, 19, 8, 18, 7, 0, 0]
2385	TTTTTTTTGTGCCCGAGCGTCTGAGGTATGGT	[21, 1, 0, 0, 20, 1, 20, 2]
2386	ACGTGGGATTTTTTTTTGCGTCTGAGGTATGGT	[0, 0, 21, 2, 20, 1, 20, 2]
2387	ACGTGGGAGTGCCCGATTTTTTTTTGGTATGGT	[21, 1, 21, 2, 0, 0, 20, 2]
2388	ACGTGGGAGTGCCCGAGCGTCTGATTTTTTTT	[21, 1, 21, 2, 20, 1, 0, 0]
2389	TTTTTTTTTATGTTGTCTCAAGTGCTAACAGT	[21, 3, 0, 0, 22, 3, 22, 4]
2390	TTACCCACTTTTTTTTCTCAAGTGCTAACAGT	[0, 0, 21, 4, 22, 3, 22, 4]
2391	TTACCCACTATGTTGTTTTTTTTTCTAACAGT	[21, 3, 21, 4, 0, 0, 22, 4]
2392	TTACCCACTATGTTGTCTCAAGTGTTTTTTTT	[21, 3, 21, 4, 22, 3, 0, 0]
2393	TTTTTTTTTCCATAACTGTGCACGTCAGGGAT	[21, 5, 0, 0, 20, 5, 20, 6]
2394	ACTAATTATTTTTTTTTGTGCACGTCAGGGAT	[0, 0, 21, 6, 20, 5, 20, 6]
2395	ACTAATTATCCATAACTTTTTTTTTCAGGGAT	[21, 5, 21, 6, 0, 0, 20, 6]

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2396	ACTAATTATCCATAACTGTGCACGTTTTTTTT	[21, 5, 21, 6, 20, 5, 0, 0]
2397	TTTTTTTTGTGGCCGTTGCTACATCAGTTTCT	[21, 7, 0, 0, 22, 7, 22, 8]
2398	TCTCACCGTTTTTTTTTGCTACATCAGTTTCT	[0, 0, 21, 8, 22, 7, 22, 8]
2399	TCTCACCGGTGGCCGTTTTTTTTTCAGTTTCT	[21, 7, 21, 8, 0, 0, 22, 8]
2400	TCTCACCGGTGGCCGTTGCTACATTTTTTTTT	[21, 7, 21, 8, 22, 7, 0, 0]
2401	TTTTTTTTCTGGGGAAACTATACTTACGCACT	[21, 9, 0, 0, 20, 9, 20, 10]
2402	TTGCACTCTTTTTTTTACTATACTTACGCACT	[0, 0, 21, 10, 20, 9, 20, 10]
2403	TTGCACTCCTGGGGAATTTTTTTTTACGCACT	[21, 9, 21, 10, 0, 0, 20, 10]
2404	TTGCACTCCTGGGGAAACTATACTTTTTTTTT	[21, 9, 21, 10, 20, 9, 0, 0]
2405	TTTTTTTTGGGATTAGGCAATTGCTAGGTTGC	[23, 1, 0, 0, 22, 1, 22, 2]
2406	GGTTTGGATTTTTTTTGCAATTGCTAGGTTGC	[0, 0, 23, 2, 22, 1, 22, 2]
2407	GGTTTGGAGGGATTAGTTTTTTTTTAGGTTGC	[23, 1, 23, 2, 0, 0, 22, 2]
2408	GGTTTGGAGGGATTAGGCAATTGCTTTTTTTT	[23, 1, 23, 2, 22, 1, 0, 0]
2409	TTTTTTTTCACAATTTTTGATTCGATCACATA	[23, 3, 0, 0, 24, 3, 24, 4]
2410	ATTGTAGGTTTTTTTTTTGATTCGATCACATA	[0, 0, 23, 4, 24, 3, 24, 4]
2411	ATTGTAGGCACAATTTTTTTTTTTATCACATA	[23, 3, 23, 4, 0, 0, 24, 4]
2412	ATTGTAGGCACAATTTTTGATTCGTTTTTTTT	[23, 3, 23, 4, 24, 3, 0, 0]
2413	TTTTTTTTATAAAGCTGTAGCCTGAGGCGCGC	[23, 5, 0, 0, 22, 5, 22, 6]
2414	CATGGGCATTTTTTTTTGTAGCCTGAGGCGCGC	[0, 0, 23, 6, 22, 5, 22, 6]
2415	CATGGGCAATAAAGCTTTTTTTTTAGGCGCGC	[23, 5, 23, 6, 0, 0, 22, 6]
2416	CATGGGCAATAAAGCTGTAGCCTGTTTTTTTT	[23, 5, 23, 6, 22, 5, 0, 0]
2417	TTTTTTTTCGTGTCACCTTGATATTGAGGGAC	[23, 7, 0, 0, 24, 7, 24, 8]
2418	AGCTGCACTTTTTTTTCTTGATATTGAGGGAC	[0, 0, 23, 8, 24, 7, 24, 8]
2419	AGCTGCACCGTGTCACTTTTTTTTTGAGGGAC	[23, 7, 23, 8, 0, 0, 24, 8]
2420	AGCTGCACCGTGTCACCTTGATATTTTTTTTT	[23, 7, 23, 8, 24, 7, 0, 0]
2421	TTTTTTTTATTCGGATAAACCATACTGAGGGC	[23, 9, 0, 0, 22, 9, 22, 10]
2422	ACCTCGTCTTTTTTTTTAAACCATACTGAGGGC	[0, 0, 23, 10, 22, 9, 22, 10]
2423	ACCTCGTCATTCGGATTTTTTTTTCTGAGGGC	[23, 9, 23, 10, 0, 0, 22, 10]
2424	ACCTCGTCATTCGGATAAACCATATTTTTTTT	[23, 9, 23, 10, 22, 9, 0, 0]
2425	TTTTTTTTAGATCGGCTAATCATTAGTGCTCC	[25, 1, 0, 0, 24, 1, 24, 2]
2426	AGTGGGCGTTTTTTTTTAATCATTAGTGCTCC	[0, 0, 25, 2, 24, 1, 24, 2]
2427	AGTGGGCGAGATCGGCTTTTTTTTTAGTGCTCC	[25, 1, 25, 2, 0, 0, 24, 2]
2428	AGTGGGCGAGATCGGCTAATCATTTTTTTTTT	[25, 1, 25, 2, 24, 1, 0, 0]
2429	TTTTTTTTGTTCATAGTTCATTAGGGGCGGAA	[25, 3, 0, 0, 26, 3, 26, 4]
2430	CTTAGTTATTTTTTTTTTCATTAGGGGCGGAA	[0, 0, 25, 4, 26, 3, 26, 4]
2431	CTTAGTTAGTTCATAGTTTTTTTTGGGCGGAA	[25, 3, 25, 4, 0, 0, 26, 4]
2432	CTTAGTTAGTTCATAGTTCATTAGTTTTTTTT	[25, 3, 25, 4, 26, 3, 0, 0]
2433	TTTTTTTTGTGCCCCACGTACAGTAACCAACC	[25, 5, 0, 0, 24, 5, 24, 6]
2434	ATGGGCTGTTTTTTTTCGTACAGTAACCAACC	[0, 0, 25, 6, 24, 5, 24, 6]
2435	ATGGGCTGGTGCCCCATTTTTTTTAACCAACC	[25, 5, 25, 6, 0, 0, 24, 6]
2436	ATGGGCTGGTGCCCCACGTACAGTTTTTTTTT	[25, 5, 25, 6, 24, 5, 0, 0]
2437	TTTTTTTTTGTGGGTAGGGCCGAGCGCTGGGC	[25, 7, 0, 0, 26, 7, 26, 8]
2438	GGTGTACCTTTTTTTTTGGGCCGAGCGCTGGGC	[0, 0, 25, 8, 26, 7, 26, 8]
2439	GGTGTACCTGTGGGTATTTTTTTTTCGCTGGGC	[25, 7, 25, 8, 0, 0, 26, 8]
2440	GGTGTACCTGTGGGTAGGGCCGAGTTTTTTTT	[25, 7, 25, 8, 26, 7, 0, 0]
2441	TTTTTTTTGCAAGTGAAATATATGACTTGGTC	[25, 9, 0, 0, 24, 9, 24, 10]
2442	TTACATGTTTTTTTTTAATATATGACTTGGTC	[0, 0, 25, 10, 24, 9, 24, 10]
2443	TTACATGTGCAAGTGATTTTTTTTTACTTGGTC	[25, 9, 25, 10, 0, 0, 24, 10]
2444	TTACATGTGCAAGTGAAATATATGTTTTTTTT	[25, 9, 25, 10, 24, 9, 0, 0]
2445	TTTTTTTTCTGCTAGAAACCACCAACATCCTC	[27, 1, 0, 0, 26, 1, 26, 2]
2446	GACCAGATTTTTTTTTAACCACCAACATCCTC	[0, 0, 27, 2, 26, 1, 26, 2]
2447	GACCAGATCTGCTAGATTTTTTTTACATCCTC	[27, 1, 27, 2, 0, 0, 26, 2]
2448	GACCAGATCTGCTAGAAACCACCATTTTTTTT	[27, 1, 27, 2, 26, 1, 0, 0]
2449	TTTTTTTTCTTTCAATTTTTAGTAAACACCCA	[27, 3, 0, 0, 28, 3, 28, 4]
2450	CTTGACACTTTTTTTTTTTTAGTAAACACCCA	[0, 0, 27, 4, 28, 3, 28, 4]
2451	CTTGACACCTTTCAATTTTTTTTTAACACCCA	[27, 3, 27, 4, 0, 0, 28, 4]
2452	CTTGACACCTTTCAATTTTTAGTATTTTTTTT	[27, 3, 27, 4, 28, 3, 0, 0]
2453	TTTTTTTTGAACTTCCCATGGTCGTTCTACTG	[27, 5, 0, 0, 26, 5, 26, 6]
2454	ACAGAGCTTTTTTTTTTCATGGTCGTTCTACTG	[0, 0, 27, 6, 26, 5, 26, 6]
2455	ACAGAGCTGAACTTCCTTTTTTTTTTCTACTG	[27, 5, 27, 6, 0, 0, 26, 6]
2456	ACAGAGCTGAACTTCCCATGGTCGTTTTTTTT	[27, 5, 27, 6, 26, 5, 0, 0]
2457	TTTTTTTTTCATAGGATCAAACTAAATACAGC	[27, 7, 0, 0, 28, 7, 28, 8]
2458	TCGTATGATTTTTTTTTTCAAACTAAATACAGC	[0, 0, 27, 8, 28, 7, 28, 8]
2459	TCGTATGATCATAGGATTTTTTTTAATACAGC	[27, 7, 27, 8, 0, 0, 28, 8]
2460	TCGTATGATCATAGGATCAAACTATTTTTTTT	[27, 7, 27, 8, 28, 7, 0, 0]
2461	TTTTTTTTAGTTCTTGTCCTTATTGGCGATCG	[27, 9, 0, 0, 26, 9, 26, 10]
2462	GTACCGCCTTTTTTTTTCCTTATTGGCGATCG	[0, 0, 27, 10, 26, 9, 26, 10]
2463	GTACCGCCAGTTCTTGTTTTTTTTGGCGATCG	[27, 9, 27, 10, 0, 0, 26, 10]
2464	GTACCGCCAGTTCTTGTCCTTATTTTTTTTT	[27, 9, 27, 10, 26, 9, 0, 0]
2465	TTTTTTTTAATGTTTGATGGCCGCGTGGCTTA	[29, 1, 0, 0, 28, 1, 28, 2]
2466	TGCATTCCTTTTTTTTATGGCCGCGTGGCTTA	[0, 0, 29, 2, 28, 1, 28, 2]
2467	TGCATTCCAATGTTTGTTTTTTTTGTGGCTTA	[29, 1, 29, 2, 0, 0, 28, 2]
2468	TGCATTCCAATGTTTGATGGCCGCTTTTTTTT	[29, 1, 29, 2, 28, 1, 0, 0]
2469	TTTTTTTTAAAGTCGTCCGCCTCCGGTAGTCA	[29, 5, 0, 0, 28, 5, 28, 6]
2470	AACCACATTTTTTTTTCCGCCTCCGGTAGTCA	[0, 0, 29, 6, 28, 5, 28, 6]
2471	AACCACATAAAGTCGTTTTTTTTTGGTAGTCA	[29, 5, 29, 6, 0, 0, 28, 6]
2472	AACCACATAAAGTCGTCCGCCTCCTTTTTTTT	[29, 5, 29, 6, 28, 5, 0, 0]
2473	TTTTTTTTCTATACCCGACAAAAACAGATTTG	[29, 9, 0, 0, 28, 9, 28, 10]
2474	CAGAAAGTTTTTTTTTGACAAAAACAGATTTG	[0, 0, 29, 10, 28, 9, 28, 10]
2475	CAGAAAGTCTATACCCTTTTTTTTCAGATTTG	[29, 9, 29, 10, 0, 0, 28, 10]

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2476	CAGAAAGTCTATACCCGACAAAAATTTTTTTT	[29, 9, 29, 10, 28, 9, 0, 0]
2477	TTTTTTTTGCGGGGGGGTCGAGCGCTCCACT	[31, 1, 0, 0, 32, 1, 32, 2]
2478	TATACTCTTTTTTTTTGGTCGAGCGCTCCACT	[0, 0, 31, 2, 32, 1, 32, 2]
2479	TATACTCTTGCGGGGGGTTTTTTTTGCTCCACT	[31, 1, 31, 2, 0, 0, 32, 2]
2480	TATACTCTTGCGGGGGGGTCGAGCTTTTTTTT	[31, 1, 31, 2, 32, 1, 0, 0]
2481	TTTTTTTTCGGCCATCGTGGACTAGAAAGCGC	[31, 3, 0, 0, 30, 3, 30, 4]
2482	GTAGTGGCTTTTTTTTTGTGGACTAGAAAGCGC	[0, 0, 31, 4, 30, 3, 30, 4]
2483	GTAGTGGCCGGCCATCTTTTTTTTGAAAGCGC	[31, 3, 31, 4, 0, 0, 30, 4]
2484	GTAGTGGCCGGCCATCGTGGACTATTTTTTTT	[31, 3, 31, 4, 30, 3, 0, 0]
2485	TTTTTTTTTGAATATCGCTACCTCCGATACGC	[31, 5, 0, 0, 32, 5, 32, 6]
2486	CGGCAATCTTTTTTTTTGCTACCTCCGATACGC	[0, 0, 31, 6, 32, 5, 32, 6]
2487	CGGCAATCTGAATATCTTTTTTTTCGATACGC	[31, 5, 31, 6, 0, 0, 32, 6]
2488	CGGCAATCTGAATATCGCTACCTCTTTTTTTT	[31, 5, 31, 6, 32, 5, 0, 0]
2489	TTTTTTTTACCATTTAAGAGTAGGGGCAGTGC	[31, 7, 0, 0, 30, 7, 30, 8]
2490	GAACCAGATTTTTTTTTAGAGTAGGGGCAGTGC	[0, 0, 31, 8, 30, 7, 30, 8]
2491	GAACCAGAACCATTTATTTTTTTTGGCAGTGC	[31, 7, 31, 8, 0, 0, 30, 8]
2492	GAACCAGAACCATTTAAGAGTAGGTTTTTTTT	[31, 7, 31, 8, 30, 7, 0, 0]
2493	TTTTTTTTACAGTGGGACATCTCGGAAAGGTG	[31, 9, 0, 0, 32, 9, 32, 10]
2494	TCAGCCAATTTTTTTTACATCTCGGAAAGGTG	[0, 0, 31, 10, 32, 9, 32, 10]
2495	TCAGCCAAACAGTGGGTTTTTTTTGAAAGGTG	[31, 9, 31, 10, 0, 0, 32, 10]
2496	TCAGCCAAACAGTGGGACATCTCGTTTTTTTT	[31, 9, 31, 10, 32, 9, 0, 0]
2497	TTTTTTTTGCAAGTAAAAAAGGAATTATGAGA	[33, 1, 0, 0, 34, 1, 34, 2]
2498	TCCCAAGTTTTTTTTTAAAAAGGAATTATGAGA	[0, 0, 33, 2, 34, 1, 34, 2]
2499	TCCCAAGTGCAAGTAATTTTTTTTTTATGAGA	[33, 1, 33, 2, 0, 0, 34, 2]
2500	TCCCAAGTGCAAGTAAAAAAGGAATTTTTTTT	[33, 1, 33, 2, 34, 1, 0, 0]
2501	TTTTTTTTGATCCTAAAGTTTCTGGTAGACCT	[33, 3, 0, 0, 32, 3, 32, 4]
2502	TCATGTGGTTTTTTTTAGTTTCTGGTAGACCT	[0, 0, 33, 4, 32, 3, 32, 4]
2503	TCATGTGGGATCCTAATTTTTTTTGTAGACCT	[33, 3, 33, 4, 0, 0, 32, 4]
2504	TCATGTGGGATCCTAAAGTTTCTGTTTTTTTT	[33, 3, 33, 4, 32, 3, 0, 0]
2505	TTTTTTTTAGAGCGGTGATATCCACGGTACAT	[33, 5, 0, 0, 34, 5, 34, 6]
2506	CGTAGGCTTTTTTTTTGATATCCACGGTACAT	[0, 0, 33, 6, 34, 5, 34, 6]
2507	CGTAGGCTAGAGCGGTTTTTTTTTCGGTACAT	[33, 5, 33, 6, 0, 0, 34, 6]
2508	CGTAGGCTAGAGCGGTGATATCCATTTTTTTT	[33, 5, 33, 6, 34, 5, 0, 0]
2509	TTTTTTTTTGCACGGAACGAGAGTGCTGGCAT	[33, 7, 0, 0, 32, 7, 32, 8]
2510	TCGTTTACTTTTTTTTTACGAGAGTGCTGGCAT	[0, 0, 33, 8, 32, 7, 32, 8]
2511	TCGTTTACTGCACGGATTTTTTTTTGCTGGCAT	[33, 7, 33, 8, 0, 0, 32, 8]
2512	TCGTTTACTGCACGGAACGAGAGTTTTTTTTT	[33, 7, 33, 8, 32, 7, 0, 0]
2513	TTTTTTTTGAAACCTAACTTGGGGACTAAGAT	[33, 9, 0, 0, 34, 9, 34, 10]
2514	AAGCAAGATTTTTTTTTACTTGGGGACTAAGAT	[0, 0, 33, 10, 34, 9, 34, 10]
2515	AAGCAAGAGAAAACCTATTTTTTTTTACTAAGAT	[33, 9, 33, 10, 0, 0, 34, 10]
2516	AAGCAAGAGAAAACCTAACTTGGGGTTTTTTTT	[33, 9, 33, 10, 34, 9, 0, 0]
2517	TTTTTTTTATTTTCGCGCGATTCGCATGTAGC	[35, 1, 0, 0, 36, 1, 36, 2]
2518	CGTTGCGATTTTTTTTGCGATTCGCATGTAGC	[0, 0, 35, 2, 36, 1, 36, 2]
2519	CGTTGCGAATTTTCGCTTTTTTTTCATGTAGC	[35, 1, 35, 2, 0, 0, 36, 2]
2520	CGTTGCGAATTTTCGCGCGATTCGTTTTTTTT	[35, 1, 35, 2, 36, 1, 0, 0]
2521	TTTTTTTTATCGTCCTAGACGACGGATCTCCT	[35, 3, 0, 0, 34, 3, 34, 4]
2522	CGAACGAGTTTTTTTTAGACGACGGATCTCCT	[0, 0, 35, 4, 34, 3, 34, 4]
2523	CGAACGAGATCGTCCTTTTTTTTTGATCTCCT	[35, 3, 35, 4, 0, 0, 34, 4]
2524	CGAACGAGATCGTCCTAGACGACGTTTTTTTT	[35, 3, 35, 4, 34, 3, 0, 0]
2525	TTTTTTTTGTAGCACCGTCAAATATGCGTGCT	[35, 5, 0, 0, 36, 5, 36, 6]
2526	GCATGCCGTTTTTTTTTGTCAAATATGCGTGCT	[0, 0, 35, 6, 36, 5, 36, 6]
2527	GCATGCCGGTAGCACCTTTTTTTTTGCGTGCT	[35, 5, 35, 6, 0, 0, 36, 6]
2528	GCATGCCGGTAGCACCGTCAAATATTTTTTTT	[35, 5, 35, 6, 36, 5, 0, 0]
2529	TTTTTTTTTTTAGACCCAGCTTGACGCAAGAC	[35, 7, 0, 0, 34, 7, 34, 8]
2530	TTTAACGCTTTTTTTTTCAGCTTGACGCAAGAC	[0, 0, 35, 8, 34, 7, 34, 8]
2531	TTTAACGCTTTAGACCTTTTTTTTCGCAAGAC	[35, 7, 35, 8, 0, 0, 34, 8]
2532	TTTAACGCTTTAGACCCAGCTTGATTTTTTTT	[35, 7, 35, 8, 34, 7, 0, 0]
2533	TTTTTTTTCTGGGCAGGGTCCTAGGTTGCAGA	[35, 9, 0, 0, 36, 9, 36, 10]
2534	GCTAATCATTTTTTTTTGGTCCTAGGTTGCAGA	[0, 0, 35, 10, 36, 9, 36, 10]
2535	GCTAATCACTGGGCAGTTTTTTTTGTTGCAGA	[35, 9, 35, 10, 0, 0, 36, 10]
2536	GCTAATCACTGGGCAGGGTCCTAGTTTTTTTT	[35, 9, 35, 10, 36, 9, 0, 0]
2537	TTTTTTTTCCCTAAGCAGCGTAGTAAGGGTTA	[37, 1, 0, 0, 38, 1, 38, 2]
2538	AACCTACCTTTTTTTTTAGCGTAGTAAGGGTTA	[0, 0, 37, 2, 38, 1, 38, 2]
2539	AACCTACCCCCTAAGCTTTTTTTTAAGGGTTA	[37, 1, 37, 2, 0, 0, 38, 2]
2540	AACCTACCCCCTAAGCAGCGTAGTTTTTTTTT	[37, 1, 37, 2, 38, 1, 0, 0]
2541	TTTTTTTTTGCGGCGGCTGTACGAATGAGTCC	[37, 3, 0, 0, 36, 3, 36, 4]
2542	CAAGTTCCTTTTTTTTTCTGTACGAATGAGTCC	[0, 0, 37, 4, 36, 3, 36, 4]
2543	CAAGTTCCTGCGGCGGTTTTTTTTTATGAGTCC	[37, 3, 37, 4, 0, 0, 36, 4]
2544	CAAGTTCCTGCGGCGGCTGTACGATTTTTTTT	[37, 3, 37, 4, 36, 3, 0, 0]
2545	TTTTTTTTCATGACATTCTCCCACCCGTCCAA	[37, 5, 0, 0, 38, 5, 38, 6]
2546	GGCCTTGATTTTTTTTTCTCCCACCCGTCCAA	[0, 0, 37, 6, 38, 5, 38, 6]
2547	GGCCTTGACATGACATTTTTTTTTCCGTCCAA	[37, 5, 37, 6, 0, 0, 38, 6]
2548	GGCCTTGACATGACATTCTCCCACTTTTTTTT	[37, 5, 37, 6, 38, 5, 0, 0]
2549	TTTTTTTTGGATGTCGAGCCCACAACTTGACA	[37, 7, 0, 0, 36, 7, 36, 8]
2550	CACCAGCATTTTTTTTAGCCCACAACTTGACA	[0, 0, 37, 8, 36, 7, 36, 8]
2551	CACCAGCAGGATGTCGTTTTTTTTACTTGACA	[37, 7, 37, 8, 0, 0, 36, 8]
2552	CACCAGCAGGATGTCGAGCCCACATTTTTTTT	[37, 7, 37, 8, 36, 7, 0, 0]
2553	TTTTTTTTGTATCTTTTTTCATGGCGGCGATG	[37, 9, 0, 0, 38, 9, 38, 10]
2554	GTAGTACATTTTTTTTTTTCATGGCGGCGATG	[0, 0, 37, 10, 38, 9, 38, 10]
2555	GTAGTACAGTATCTTTTTTTTTTTCGGCGATG	[37, 9, 37, 10, 0, 0, 38, 10]

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2556	GTAGTACAGTATCTTTTTTCATGGTTTTTTTT	[37, 9, 37, 10, 38, 9, 0, 0]
2557	TTTTTTTTGCTTTTATATAGCGTAGACCGGAC	[39, 3, 0, 0, 38, 3, 38, 4]
2558	TGCGTACGTTTTTTTTATAGCGTAGACCGGAC	[0, 0, 39, 4, 38, 3, 38, 4]
2559	TGCGTACGGCTTTTATTTTTTTTTGACCGGAC	[39, 3, 39, 4, 0, 0, 38, 4]
2560	TGCGTACGGCTTTTATATAGCGTATTTTTTTT	[39, 3, 39, 4, 38, 3, 0, 0]
2561	TTTTTTTTATGCCCCCCGGTTCTGCTAGAGT	[39, 7, 0, 0, 38, 7, 38, 8]
2562	AGAGTCGTTTTTTTTTCCGGTTCTGCTAGAGT	[0, 0, 39, 8, 38, 7, 38, 8]
2563	AGAGTCGTTATGCCCCTTTTTTTTGCTAGAGT	[39, 7, 39, 8, 0, 0, 38, 8]
2564	AGAGTCGTTATGCCCCCCGGTTCTTTTTTTTT	[39, 7, 39, 8, 38, 7, 0, 0]
2565	TTTTTTTTCCAAGTAACGTATGTACGACGCGA	[41, 1, 0, 0, 40, 1, 40, 2]
2566	CGCGCTTATTTTTTTTTCGTATGTACGACGCGA	[0, 0, 41, 2, 40, 1, 40, 2]
2567	CGCGCTTACCAAGTAATTTTTTTTCGACGCGA	[41, 1, 41, 2, 0, 0, 40, 2]
2568	CGCGCTTACCAAGTAACGTATGTATTTTTTTT	[41, 1, 41, 2, 40, 1, 0, 0]
2569	TTTTTTTTAACGGGTGGATGAATTTCGTTCGG	[41, 3, 0, 0, 42, 3, 42, 4]
2570	TGCGAGTGTTTTTTTTTGATGAATTTCGTTCGG	[0, 0, 41, 4, 42, 3, 42, 4]
2571	TGCGAGTGAACGGGTGTTTTTTTTTCGTTCGG	[41, 3, 41, 4, 0, 0, 42, 4]
2572	TGCGAGTGAACGGGTGGATGAATTTTTTTTTT	[41, 3, 41, 4, 42, 3, 0, 0]
2573	TTTTTTTTGATCTAAGTCTGGCGCGTGAGGAC	[41, 5, 0, 0, 40, 5, 40, 6]
2574	GGCCAGGCTTTTTTTTTCTGGCGCGTGAGGAC	[0, 0, 41, 6, 40, 5, 40, 6]
2575	GGCCAGGCGATCTAAGTTTTTTTTGTGAGGAC	[41, 5, 41, 6, 0, 0, 40, 6]
2576	GGCCAGGCGATCTAAGTCTGGCGCTTTTTTTT	[41, 5, 41, 6, 40, 5, 0, 0]
2577	TTTTTTTTGAAGTAGGAAGCTTTTTCTAGCC	[41, 7, 0, 0, 42, 7, 42, 8]
2578	ACGTAAGTTTTTTTTTGAAGCTTTTTCTAGCC	[0, 0, 41, 8, 42, 7, 42, 8]
2579	ACGTAAGTTGAAGTAGTTTTTTTTTTCTAGCC	[41, 7, 41, 8, 0, 0, 42, 8]
2580	ACGTAAGTTGAAGTAGGAAGCTTTTTTTTTT	[41, 7, 41, 8, 42, 7, 0, 0]
2581	TTTTTTTTGACACTACGACCTGCTTTTCGACA	[41, 9, 0, 0, 40, 9, 40, 10]
2582	ATAGCATCTTTTTTTTGACCTGCTTTTCGACA	[0, 0, 41, 10, 40, 9, 40, 10]
2583	ATAGCATCGACACTACTTTTTTTTTTTCGACA	[41, 9, 41, 10, 0, 0, 40, 10]
2584	ATAGCATCGACACTACGACCTGCTTTTTTTTT	[41, 9, 41, 10, 40, 9, 0, 0]
2585	TTTTTTTTATTCTGGACAGTAACTGCATTAAC	[43, 1, 0, 0, 42, 1, 42, 2]
2586	CGGACTGCTTTTTTTTCAGTAACTGCATTAAC	[0, 0, 43, 2, 42, 1, 42, 2]
2587	CGGACTGCATTCTGGATTTTTTTTGCATTAAC	[43, 1, 43, 2, 0, 0, 42, 2]
2588	CGGACTGCATTCTGGACAGTAACTTTTTTTTT	[43, 1, 43, 2, 42, 1, 0, 0]
2589	TTTTTTTTCCCAACATAAGTGACGTCCTCAGC	[43, 3, 0, 0, 44, 3, 44, 4]
2590	TACGTGCTTTTTTTTTAAGTGACGTCCTCAGC	[0, 0, 43, 4, 44, 3, 44, 4]
2591	TACGTGCTCCCAACATTTTTTTTTTCCTCAGC	[43, 3, 43, 4, 0, 0, 44, 4]
2592	TACGTGCTCCCAACATAAGTGACGTTTTTTTT	[43, 3, 43, 4, 44, 3, 0, 0]
2593	TTTTTTTTATTATCTCGATAAGCAGAAGGACC	[43, 5, 0, 0, 42, 5, 42, 6]
2594	AGTTGAAATTTTTTTTGATAAGCAGAAGGACC	[0, 0, 43, 6, 42, 5, 42, 6]
2595	AGTTGAAAATTATCTCTTTTTTTTGAAGGACC	[43, 5, 43, 6, 0, 0, 42, 6]
2596	AGTTGAAAATTATCTCGATAAGCATTTTTTTT	[43, 5, 43, 6, 42, 5, 0, 0]
2597	TTTTTTTTTGGCAAGAGACAAGGCCGCTTCAG	[43, 7, 0, 0, 44, 7, 44, 8]
2598	TGTATAACTTTTTTTTGACAAGGCCGCTTCAG	[0, 0, 43, 8, 44, 7, 44, 8]
2599	TGTATAACTGGCAAGATTTTTTTTCGCTTCAG	[43, 7, 43, 8, 0, 0, 44, 8]
2600	TGTATAACTGGCAAGAGACAAGGCTTTTTTTT	[43, 7, 43, 8, 44, 7, 0, 0]
2601	TTTTTTTTGCCGGACCGTATTAATGCCGCGCC	[43, 9, 0, 0, 42, 9, 42, 10]
2602	AAAGGATATTTTTTTTGTATTAATGCCGCGCC	[0, 0, 43, 10, 42, 9, 42, 10]
2603	AAAGGATAGCCGGACCTTTTTTTTTGCCGCGCC	[43, 9, 43, 10, 0, 0, 42, 10]
2604	AAAGGATAGCCGGACCGTATTAATTTTTTTTT	[43, 9, 43, 10, 42, 9, 0, 0]
2605	TTTTTTTTCCCGGACCTAGTGTCTATCAAGTC	[45, 1, 0, 0, 44, 1, 44, 2]
2606	AACGGTTTTTTTTTTTTAGTGTCTATCAAGTC	[0, 0, 45, 2, 44, 1, 44, 2]
2607	AACGGTTTCCCGGACCTTTTTTTTATCAAGTC	[45, 1, 45, 2, 0, 0, 44, 2]
2608	AACGGTTTCCCGGACCTAGTGTCTTTTTTTTT	[45, 1, 45, 2, 44, 1, 0, 0]
2609	TTTTTTTTGAAACCATTCTCGGGTCGAGCGGG	[45, 3, 0, 0, 46, 3, 46, 4]
2610	TATTCTATTTTTTTTTTCTCGGGTCGAGCGGG	[0, 0, 45, 4, 46, 3, 46, 4]
2611	TATTCTATGAAACCATTTTTTTTTCGAGCGGG	[45, 3, 45, 4, 0, 0, 46, 4]
2612	TATTCTATGAAACCATTCTCGGGTTTTTTTTT	[45, 3, 45, 4, 46, 3, 0, 0]
2613	TTTTTTTTGTGACCTACGAGAAGCGTATAGAT	[45, 5, 0, 0, 44, 5, 44, 6]
2614	TCACTGTTTTTTTTTTCGAGAAGCGTATAGAT	[0, 0, 45, 6, 44, 5, 44, 6]
2615	TCACTGTTGTGACCTATTTTTTTTGTATAGAT	[45, 5, 45, 6, 0, 0, 44, 6]
2616	TCACTGTTGTGACCTACGAGAAGCTTTTTTTT	[45, 5, 45, 6, 44, 5, 0, 0]
2617	TTTTTTTTCGAATAGCTCACAGGCGAACTACG	[45, 7, 0, 0, 46, 7, 46, 8]
2618	GTTCCGCGTTTTTTTTTTCACAGGCGAACTACG	[0, 0, 45, 8, 46, 7, 46, 8]
2619	GTTCCGCGCGAATAGCTTTTTTTTGAACTACG	[45, 7, 45, 8, 0, 0, 46, 8]
2620	GTTCCGCGCGAATAGCTCACAGGCTTTTTTTT	[45, 7, 45, 8, 46, 7, 0, 0]
2621	TTTTTTTTGGTTTAAACGCTCCTCGGGAATTA	[45, 9, 0, 0, 44, 9, 44, 10]
2622	TATGAATTTTTTTTTTCGCTCCTCGGGAATTA	[0, 0, 45, 10, 44, 9, 44, 10]
2623	TATGAATTGGTTTAAATTTTTTTTGGGAATTA	[45, 9, 45, 10, 0, 0, 44, 10]
2624	TATGAATTGGTTTAAACGCTCCTCTTTTTTTT	[45, 9, 45, 10, 44, 9, 0, 0]
2625	TTTTTTTTGGTGGCAAACCACCTCCGATGTCA	[47, 1, 0, 0, 46, 1, 46, 2]
2626	ATACGACATTTTTTTTACCACCTCCGATGTCA	[0, 0, 47, 2, 46, 1, 46, 2]
2627	ATACGACAGGTGGCAATTTTTTTTCGATGTCA	[47, 1, 47, 2, 0, 0, 46, 2]
2628	ATACGACAGGTGGCAAACCACCTCTTTTTTTT	[47, 1, 47, 2, 46, 1, 0, 0]
2629	TTTTTTTTTACCCATTCACTGTGAATTTCCAC	[47, 3, 0, 0, 48, 3, 48, 4]
2630	GCGCCGCATTTTTTTTCACTGTGAATTTCCAC	[0, 0, 47, 4, 48, 3, 48, 4]
2631	GCGCCGCATACCCATTTTTTTTTTATTTCCAC	[47, 3, 47, 4, 0, 0, 48, 4]
2632	GCGCCGCATACCCATTCACTGTGATTTTTTTT	[47, 3, 47, 4, 48, 3, 0, 0]
2633	TTTTTTTTTCGCAGGTCCATGGGATTCACCA	[47, 5, 0, 0, 46, 5, 46, 6]
2634	ACCGAGGATTTTTTTTTCCATGGGATTCACCA	[0, 0, 47, 6, 46, 5, 46, 6]
2635	ACCGAGGATTCGCAGGTTTTTTTTATTCACCA	[47, 5, 47, 6, 0, 0, 46, 6]

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2636	ACCGAGGATTCGCAGGTCCATGGGTTTTTTTT	[47, 5, 47, 6, 46, 5, 0, 0]
2637	TTTTTTTTACACCCTGATTCTCCATGGCAGC	[47, 7, 0, 0, 48, 7, 48, 8]
2638	AGCTCGTATTTTTTTTGATTCTCCATGGCAGC	[0, 0, 47, 8, 48, 7, 48, 8]
2639	AGCTCGTATACACCCTTTTTTTTTATGGCAGC	[47, 7, 47, 8, 0, 0, 48, 8]
2640	AGCTCGTATACACCCTGATTCTCCTTTTTTTT	[47, 7, 47, 8, 48, 7, 0, 0]
2641	TTTTTTTTACAGGTCTGAACTGGTAGATCACC	[47, 9, 0, 0, 46, 9, 46, 10]
2642	GCTTCGGTTTTTTTTTGAACTGGTAGATCACC	[0, 0, 47, 10, 46, 9, 46, 10]
2643	GCTTCGGTACAGGTCTTTTTTTTTAGATCACC	[47, 9, 47, 10, 0, 0, 46, 10]
2644	GCTTCGGTACAGGTCTGAACTGGTTTTTTTTT	[47, 9, 47, 10, 46, 9, 0, 0]
2645	TTTTTTTTACCCAGCAGTTCGGCTCCCTTGTG	[49, 1, 0, 0, 48, 1, 48, 2]
2646	ATTAGTGTTTTTTTTTGTTCGGCTCCCTTGTG	[0, 0, 49, 2, 48, 1, 48, 2]
2647	ATTAGTGTACCCAGCATTTTTTTTCCCTTGTG	[49, 1, 49, 2, 0, 0, 48, 2]
2648	ATTAGTGTACCCAGCAGTTCGGCTTTTTTTTT	[49, 1, 49, 2, 48, 1, 0, 0]
2649	TTTTTTTTTAATGCTGTTCCGGGGTAAATCAA	[49, 5, 0, 0, 48, 5, 48, 6]
2650	TCGTCGTGTTTTTTTTTTTCCGGGGTAAATCAA	[0, 0, 49, 6, 48, 5, 48, 6]
2651	TCGTCGTGTAATGCTGTTTTTTTTTAAATCAA	[49, 5, 49, 6, 0, 0, 48, 6]
2652	TCGTCGTGTAATGCTGTTCCGGGGTTTTTTTT	[49, 5, 49, 6, 48, 5, 0, 0]
2653	TTTTTTTTTCCAAACTTTAGAGCCCGGCCGT	[49, 9, 0, 0, 48, 9, 48, 10]
2654	ACGCTCTGTTTTTTTTTTTTAGAGCCCGGCCGT	[0, 0, 49, 10, 48, 9, 48, 10]
2655	ACGCTCTGTTCCAAACTTTTTTTTCCGGCCGT	[49, 9, 49, 10, 0, 0, 48, 10]
2656	ACGCTCTGTTCCAAACTTTAGAGCTTTTTTTT	[49, 9, 49, 10, 48, 9, 0, 0]
2657	TTTTTTTTATACGAGCGTGGAGGGAAGTTATT	[51, 1, 0, 0, 52, 1, 52, 2]
2658	ACCCAATCTTTTTTTTTGTGGAGGGAAGTTATT	[0, 0, 51, 2, 52, 1, 52, 2]
2659	ACCCAATCATACGAGCTTTTTTTTAAGTTATT	[51, 1, 51, 2, 0, 0, 52, 2]
2660	ACCCAATCATACGAGCGTGGAGGGTTTTTTTT	[51, 1, 51, 2, 52, 1, 0, 0]
2661	TTTTTTTTGTTTTCATATATCAGAGAGCACAG	[51, 3, 0, 0, 50, 3, 50, 4]
2662	CTACTGGCTTTTTTTTATATCAGAGAGCACAG	[0, 0, 51, 4, 50, 3, 50, 4]
2663	CTACTGGCGTTTTCATTTTTTTTTGAGCACAG	[51, 3, 51, 4, 0, 0, 50, 4]
2664	CTACTGGCGTTTTCATATATCAGATTTTTTTT	[51, 3, 51, 4, 50, 3, 0, 0]
2665	TTTTTTTTAGCCCGGCGTATTATCGCGTCAAT	[51, 5, 0, 0, 52, 5, 52, 6]
2666	TAATTCGGTTTTTTTTGTATTATCGCGTCAAT	[0, 0, 51, 6, 52, 5, 52, 6]
2667	TAATTCGGAGCCCGGCTTTTTTTTGCGTCAAT	[51, 5, 51, 6, 0, 0, 52, 6]
2668	TAATTCGGAGCCCGGCGTATTATCTTTTTTTT	[51, 5, 51, 6, 52, 5, 0, 0]
2669	TTTTTTTTACACACCAGATTACGGCGGCTTAG	[51, 7, 0, 0, 50, 7, 50, 8]
2670	TCATATGGTTTTTTTTGATTACGGCGGCTTAG	[0, 0, 51, 8, 50, 7, 50, 8]
2671	TCATATGGACACACCATTTTTTTTTCGGCTTAG	[51, 7, 51, 8, 0, 0, 50, 8]
2672	TCATATGGACACACCAGATTACGGTTTTTTTT	[51, 7, 51, 8, 50, 7, 0, 0]
2673	TTTTTTTTAGTACAAGTGACGAAGAATACCGT	[51, 9, 0, 0, 52, 9, 52, 10]
2674	GGGAATTGTTTTTTTTTGACGAAGAATACCGT	[0, 0, 51, 10, 52, 9, 52, 10]
2675	GGGAATTGAGTACAAGTTTTTTTTTAATACCGT	[51, 9, 51, 10, 0, 0, 52, 10]
2676	GGGAATTGAGTACAAGTGACGAAGTTTTTTTT	[51, 9, 51, 10, 52, 9, 0, 0]
2677	TTTTTTTTTGGAGCTGTCAGGCTTCTCCGTCA	[53, 1, 0, 0, 54, 1, 54, 2]
2678	CCATCAGATTTTTTTTTCAGGCTTCTCCGTCA	[0, 0, 53, 2, 54, 1, 54, 2]
2679	CCATCAGATGGAGCTGTTTTTTTTCTCCGTCA	[53, 1, 53, 2, 0, 0, 54, 2]
2680	CCATCAGATGGAGCTGTCAGGCTTTTTTTTT	[53, 1, 53, 2, 54, 1, 0, 0]
2681	TTTTTTTTGCTGAGATTGATTGGTTTAGTGTA	[53, 3, 0, 0, 52, 3, 52, 4]
2682	AAATGTTGTTTTTTTTTGATTGGTTTAGTGTA	[0, 0, 53, 4, 52, 3, 52, 4]
2683	AAATGTTGGCTGAGATTTTTTTTTTTAGTGTA	[53, 3, 53, 4, 0, 0, 52, 4]
2684	AAATGTTGGCTGAGATTGATTGGTTTTTTTTT	[53, 3, 53, 4, 52, 3, 0, 0]
2685	TTTTTTTTAAGAGATATGTGGGAGGATCATTA	[53, 5, 0, 0, 54, 5, 54, 6]
2686	TAGCGAGTTTTTTTTTTGTGGGAGGATCATTA	[0, 0, 53, 6, 54, 5, 54, 6]
2687	TAGCGAGTAAGAGATATTTTTTTTGATCATTA	[53, 5, 53, 6, 0, 0, 54, 6]
2688	TAGCGAGTAAGAGATATGTGGGAGTTTTTTTT	[53, 5, 53, 6, 54, 5, 0, 0]
2689	TTTTTTTTAAGTTGACTAGCAGAATAATTTGC	[53, 7, 0, 0, 52, 7, 52, 8]
2690	CAGGATCATTTTTTTTTTAGCAGAATAATTTGC	[0, 0, 53, 8, 52, 7, 52, 8]
2691	CAGGATCAAAGTTGACTTTTTTTTTAATTTGC	[53, 7, 53, 8, 0, 0, 52, 8]
2692	CAGGATCAAAGTTGACTAGCAGAATTTTTTTT	[53, 7, 53, 8, 52, 7, 0, 0]
2693	TTTTTTTTAAGGTACGCAATTACTATTTGTAC	[53, 9, 0, 0, 54, 9, 54, 10]
2694	ATCCGAATTTTTTTTTTCAATTACTATTTGTAC	[0, 0, 53, 10, 54, 9, 54, 10]
2695	ATCCGAATAAGGTACGTTTTTTTTATTTGTAC	[53, 9, 53, 10, 0, 0, 54, 10]
2696	ATCCGAATAAGGTACGCAATTACTTTTTTTTT	[53, 9, 53, 10, 54, 9, 0, 0]
2697	TTTTTTTTAGGGCATACAGTAACGAAAAGCGA	[55, 1, 0, 0, 56, 1, 56, 2]
2698	CGAAAACATTTTTTTTTCAGTAACGAAAAGCGA	[0, 0, 55, 2, 56, 1, 56, 2]
2699	CGAAAACAAGGGCATATTTTTTTTAAAAGCGA	[55, 1, 55, 2, 0, 0, 56, 2]
2700	CGAAAACAAGGGCATACAGTAACGTTTTTTTT	[55, 1, 55, 2, 56, 1, 0, 0]
2701	TTTTTTTTCCACCTAGCACCTCCTGTTAGGGT	[55, 3, 0, 0, 54, 3, 54, 4]
2702	ACGAGCCATTTTTTTTTCACCTCCTGTTAGGGT	[0, 0, 55, 4, 54, 3, 54, 4]
2703	ACGAGCCACCACCTAGTTTTTTTTGTTAGGGT	[55, 3, 55, 4, 0, 0, 54, 4]
2704	ACGAGCCACCACCTAGCACCTCCTTTTTTTTT	[55, 3, 55, 4, 54, 3, 0, 0]
2705	TTTTTTTTGGATGGGTTGTTCATCGGTCACCC	[55, 5, 0, 0, 56, 5, 56, 6]
2706	GACACCCGTTTTTTTTTGTTCATCGGTCACCC	[0, 0, 55, 6, 56, 5, 56, 6]
2707	GACACCCGGGATGGGTTTTTTTTTGGTCACCC	[55, 5, 55, 6, 0, 0, 56, 6]
2708	GACACCCGGGATGGGTTGTTCATCTTTTTTTT	[55, 5, 55, 6, 56, 5, 0, 0]
2709	TTTTTTTTGCTTGAGGAATAGTCCAAGAAATG	[55, 7, 0, 0, 54, 7, 54, 8]
2710	CAGTTTTCTTTTTTTTAATAGTCCAAGAAATG	[0, 0, 55, 8, 54, 7, 54, 8]
2711	CAGTTTTCGCTTGAGGTTTTTTTTAAGAAATG	[55, 7, 55, 8, 0, 0, 54, 8]
2712	CAGTTTTCGCTTGAGGAATAGTCCTTTTTTTT	[55, 7, 55, 8, 54, 7, 0, 0]
2713	TTTTTTTTAAGTTGTGCCGCACTGGAATCTGA	[55, 9, 0, 0, 56, 9, 56, 10]
2714	CATGATAATTTTTTTTCCGCACTGGAATCTGA	[0, 0, 55, 10, 56, 9, 56, 10]
2715	CATGATAAAAGTTGTGTTTTTTTTGAATCTGA	[55, 9, 55, 10, 0, 0, 56, 10]

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2716	CATGATAAAAGTTGTGCCGCACTGTTTTTTTT	[55, 9, 55, 10, 56, 9, 0, 0]
2717	TTTTTTTTCGGTTCTCGAGACACTCATTTACT	[57, 1, 0, 0, 58, 1, 58, 2]
2718	AGATGCACTTTTTTTTGAGACACTCATTTACT	[0, 0, 57, 2, 58, 1, 58, 2]
2719	AGATGCACCGGTTCTCTTTTTTTTCATTTACT	[57, 1, 57, 2, 0, 0, 58, 2]
2720	AGATGCACCGGTTCTCGAGACACTTTTTTTTT	[57, 1, 57, 2, 58, 1, 0, 0]
2721	TTTTTTTTGACCATGTCTCCAGTATTGCCATT	[57, 3, 0, 0, 56, 3, 56, 4]
2722	GCTCGGTATTTTTTTTCTCCAGTATTGCCATT	[0, 0, 57, 4, 56, 3, 56, 4]
2723	GCTCGGTAGACCATGTTTTTTTTTTTGCCATT	[57, 3, 57, 4, 0, 0, 56, 4]
2724	GCTCGGTAGACCATGTCTCCAGTATTTTTTTT	[57, 3, 57, 4, 56, 3, 0, 0]
2725	TTTTTTTTAATACTTTTAATATAATGTCCGCG	[57, 5, 0, 0, 58, 5, 58, 6]
2726	TTCTAATTTTTTTTTTTAATATAATGTCCGCG	[0, 0, 57, 6, 58, 5, 58, 6]
2727	TTCTAATTAATACTTTTTTTTTTTTGTCCGCG	[57, 5, 57, 6, 0, 0, 58, 6]
2728	TTCTAATTAATACTTTTAATATAATTTTTTTT	[57, 5, 57, 6, 58, 5, 0, 0]
2729	TTTTTTTTAATTCGACACAATGGTATCTTTTG	[57, 7, 0, 0, 56, 7, 56, 8]
2730	GATCAGCGTTTTTTTTTACAATGGTATCTTTTG	[0, 0, 57, 8, 56, 7, 56, 8]
2731	GATCAGCGAATTCGACTTTTTTTTATCTTTTG	[57, 7, 57, 8, 0, 0, 56, 8]
2732	GATCAGCGAATTCGACACAATGGTTTTTTTTT	[57, 7, 57, 8, 56, 7, 0, 0]
2733	TTTTTTTTGTAAACCGCTTGCCTGGGCCAATA	[57, 9, 0, 0, 58, 9, 58, 10]
2734	AAGCGCACTTTTTTTTTCTTGCCTGGGCCAATA	[0, 0, 57, 10, 58, 9, 58, 10]
2735	AAGCGCACGTAAACCGTTTTTTTTGGCCAATA	[57, 9, 57, 10, 0, 0, 58, 10]
2736	AAGCGCACGTAAACCGCTTGCCTGTTTTTTTT	[57, 9, 57, 10, 58, 9, 0, 0]
2737	TTTTTTTTCTGACACCCAGCTCCCAGGTAAGT	[59, 3, 0, 0, 58, 3, 58, 4]
2738	ATATAGGTTTTTTTTTCAGCTCCCAGGTAAGT	[0, 0, 59, 4, 58, 3, 58, 4]
2739	ATATAGGTCTGACACCTTTTTTTTAGGTAAGT	[59, 3, 59, 4, 0, 0, 58, 4]
2740	ATATAGGTCTGACACCCAGCTCCCTTTTTTTT	[59, 3, 59, 4, 58, 3, 0, 0]
2741	TTTTTTTTACAATATGTATTAAGTTTTCGCCG	[59, 7, 0, 0, 58, 7, 58, 8]
2742	AATGGTCGTTTTTTTTTTATTAAGTTTTCGCCG	[0, 0, 59, 8, 58, 7, 58, 8]
2743	AATGGTCGACAATATGTTTTTTTTTTTCGCCG	[59, 7, 59, 8, 0, 0, 58, 8]
2744	AATGGTCGACAATATGTATTAAGTTTTTTTTT	[59, 7, 59, 8, 58, 7, 0, 0]
2745	TTTTTTTTTCTTAATGTATAATTCATCCTGTG	[61, 1, 0, 0, 60, 1, 60, 2]
2746	CTTCTACCTTTTTTTTTTATAATTCATCCTGTG	[0, 0, 61, 2, 60, 1, 60, 2]
2747	CTTCTACCTCTTAATGTTTTTTTTATCCTGTG	[61, 1, 61, 2, 0, 0, 60, 2]
2748	CTTCTACCTCTTAATGTATAATTCTTTTTTTT	[61, 1, 61, 2, 60, 1, 0, 0]
2749	TTTTTTTTCAGAGTTCCCATCGGCAAAATTGA	[61, 3, 0, 0, 62, 3, 62, 4]
2750	CATGGAAGTTTTTTTTCCATCGGCAAAATTGA	[0, 0, 61, 4, 62, 3, 62, 4]
2751	CATGGAAGCAGAGTTCTTTTTTTTAAAATTGA	[61, 3, 61, 4, 0, 0, 62, 4]
2752	CATGGAAGCAGAGTTCCCATCGGCTTTTTTTT	[61, 3, 61, 4, 62, 3, 0, 0]
2753	TTTTTTTTTATAATTAAGAACATTCGGGTTCG	[61, 5, 0, 0, 60, 5, 60, 6]
2754	GTTACCGCTTTTTTTTTAGAACATTCGGGTTCG	[0, 0, 61, 6, 60, 5, 60, 6]
2755	GTTACCGCTATAATTATTTTTTTTCGGGTTCG	[61, 5, 61, 6, 0, 0, 60, 6]
2756	GTTACCGCTATAATTAAGAACATTTTTTTTTT	[61, 5, 61, 6, 60, 5, 0, 0]
2757	TTTTTTTTTATGTGATCGCCTAGGCTAACCTC	[61, 7, 0, 0, 62, 7, 62, 8]
2758	ACGTGGTCTTTTTTTTCGCCTAGGCTAACCTC	[0, 0, 61, 8, 62, 7, 62, 8]
2759	ACGTGGTCTATGTGATTTTTTTTTCTAACCTC	[61, 7, 61, 8, 0, 0, 62, 8]
2760	ACGTGGTCTATGTGATCGCCTAGGTTTTTTTT	[61, 7, 61, 8, 62, 7, 0, 0]
2761	TTTTTTTTAGGAGAGGGTGAGCTCCTACGTGG	[61, 9, 0, 0, 60, 9, 60, 10]
2762	ATGACTCCTTTTTTTTGTGAGCTCCTACGTGG	[0, 0, 61, 10, 60, 9, 60, 10]
2763	ATGACTCCAGGAGAGGTTTTTTTTCTACGTGG	[61, 9, 61, 10, 0, 0, 60, 10]
2764	ATGACTCCAGGAGAGGGTGAGCTCTTTTTTTT	[61, 9, 61, 10, 60, 9, 0, 0]
2765	TTTTTTTTATGCCGAGATCTAACTTGATTTTT	[63, 1, 0, 0, 62, 1, 62, 2]
2766	AAGTGTTATTTTTTTTATCTAACTTGATTTTT	[0, 0, 63, 2, 62, 1, 62, 2]
2767	AAGTGTTAATGCCGAGTTTTTTTTTGATTTTT	[63, 1, 63, 2, 0, 0, 62, 2]
2768	AAGTGTTAATGCCGAGATCTAACTTTTTTTTT	[63, 1, 63, 2, 62, 1, 0, 0]
2769	TTTTTTTTTCGAGACCTTGCTCTTGGACGTCT	[63, 3, 0, 0, 64, 3, 64, 4]
2770	ATTCAGAATTTTTTTTTTGCTCTTGGACGTCT	[0, 0, 63, 4, 64, 3, 64, 4]
2771	ATTCAGAATCGAGACCTTTTTTTTGGACGTCT	[63, 3, 63, 4, 0, 0, 64, 4]
2772	ATTCAGAATCGAGACCTTGCTCTTTTTTTTTT	[63, 3, 63, 4, 64, 3, 0, 0]
2773	TTTTTTTTAGCCCGCGGTTACTAGGCGCCTTG	[63, 5, 0, 0, 62, 5, 62, 6]
2774	CATTCTATTTTTTTTTGTTACTAGGCGCCTTG	[0, 0, 63, 6, 62, 5, 62, 6]
2775	CATTCTATAGCCCGCGTTTTTTTTGCGCCTTG	[63, 5, 63, 6, 0, 0, 62, 6]
2776	CATTCTATAGCCCGCGGTTACTAGTTTTTTTT	[63, 5, 63, 6, 62, 5, 0, 0]
2777	TTTTTTTTCTCAATAGTGAACCCTTACTATCG	[63, 7, 0, 0, 64, 7, 64, 8]
2778	CTCCTACGTTTTTTTTTGAACCCTTACTATCG	[0, 0, 63, 8, 64, 7, 64, 8]
2779	CTCCTACGCTCAATAGTTTTTTTTTACTATCG	[63, 7, 63, 8, 0, 0, 64, 8]
2780	CTCCTACGCTCAATAGTGAACCCTTTTTTTTT	[63, 7, 63, 8, 64, 7, 0, 0]
2781	TTTTTTTTTAGGTCAAAATAAACGATACTTAA	[63, 9, 0, 0, 62, 9, 62, 10]
2782	CGACAGGATTTTTTTTTAATAAACGATACTTAA	[0, 0, 63, 10, 62, 9, 62, 10]
2783	CGACAGGATAGGTCAATTTTTTTTTATACTTAA	[63, 9, 63, 10, 0, 0, 62, 10]
2784	CGACAGGATAGGTCAAAATAAACGTTTTTTTT	[63, 9, 63, 10, 62, 9, 0, 0]
2785	TTTTTTTTAGGGGAACCGTAGACTTCACATAA	[65, 1, 0, 0, 64, 1, 64, 2]
2786	AGCTCTAGTTTTTTTTCGTAGACTTCACATAA	[0, 0, 65, 2, 64, 1, 64, 2]
2787	AGCTCTAGAGGGGAACTTTTTTTTTCACATAA	[65, 1, 65, 2, 0, 0, 64, 2]
2788	AGCTCTAGAGGGGAACCGTAGACTTTTTTTTT	[65, 1, 65, 2, 64, 1, 0, 0]
2789	TTTTTTTTCGGCGAGTGTTCTAGGGAGCGGGG	[65, 3, 0, 0, 66, 3, 66, 4]
2790	AAAACACTTTTTTTTTGTTCTAGGGAGCGGGG	[0, 0, 65, 4, 66, 3, 66, 4]
2791	AAAACACTCGGCGAGTTTTTTTTTGAGCGGGG	[65, 3, 65, 4, 0, 0, 66, 4]
2792	AAAACACTCGGCGAGTGTTCTAGGTTTTTTTT	[65, 3, 65, 4, 66, 3, 0, 0]
2793	TTTTTTTTCCCAGCATTCCTTCAGTCCGCCTA	[65, 5, 0, 0, 64, 5, 64, 6]
2794	ATGGTACATTTTTTTTTCCTTCAGTCCGCCTA	[0, 0, 65, 6, 64, 5, 64, 6]
2795	ATGGTACACCCAGCATTTTTTTTTTCCGCCTA	[65, 5, 65, 6, 0, 0, 64, 6]

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2796	ATGGTACACCCAGCATTCCTTCAGTTTTTTTT	[65, 5, 65, 6, 64, 5, 0, 0]
2797	TTTTTTTTCTTTGATATTCTCCCAAATGGATA	[65, 7, 0, 0, 66, 7, 66, 8]
2798	CTCATGATTTTTTTTTTTCTCCCAAATGGATA	[0, 0, 65, 8, 66, 7, 66, 8]
2799	CTCATGATCTTTGATATTTTTTTTAATGGATA	[65, 7, 65, 8, 0, 0, 66, 8]
2800	CTCATGATCTTTGATATTCTCCCATTTTTTTT	[65, 7, 65, 8, 66, 7, 0, 0]
2801	TTTTTTTTACAAAAAACTTGCCTATCGTGCCC	[65, 9, 0, 0, 64, 9, 64, 10]
2802	GGGCGTAATTTTTTTTCTTGCCTATCGTGCCC	[0, 0, 65, 10, 64, 9, 64, 10]
2803	GGGCGTAAACAAAAAATTTTTTTTTCGTGCCC	[65, 9, 65, 10, 0, 0, 64, 10]
2804	GGGCGTAAACAAAAAACTTGCCTATTTTTTTT	[65, 9, 65, 10, 64, 9, 0, 0]
2805	TTTTTTTTCATTGTCTACCACCTATGTTCTTA	[67, 1, 0, 0, 66, 1, 66, 2]
2806	TCATACAGTTTTTTTTACCACCTATGTTCTTA	[0, 0, 67, 2, 66, 1, 66, 2]
2807	TCATACAGCATTGTCTTTTTTTTTTGTTCTTA	[67, 1, 67, 2, 0, 0, 66, 2]
2808	TCATACAGCATTGTCTACCACCTATTTTTTTT	[67, 1, 67, 2, 66, 1, 0, 0]
2809	TTTTTTTTACATAGATCGTCGGGCGACCTTCG	[67, 3, 0, 0, 68, 3, 68, 4]
2810	TGCTGTTATTTTTTTTTCGTCGGGCGACCTTCG	[0, 0, 67, 4, 68, 3, 68, 4]
2811	TGCTGTTAACATAGATTTTTTTTTGACCTTCG	[67, 3, 67, 4, 0, 0, 68, 4]
2812	TGCTGTTAACATAGATCGTCGGGCTTTTTTTT	[67, 3, 67, 4, 68, 3, 0, 0]
2813	TTTTTTTTGGCCGACCACCGACCAAGGCGCTA	[67, 5, 0, 0, 66, 5, 66, 6]
2814	TAAGGTGGTTTTTTTTACCGACCAAGGCGCTA	[0, 0, 67, 6, 66, 5, 66, 6]
2815	TAAGGTGGGGCCGACCTTTTTTTTAGGCGCTA	[67, 5, 67, 6, 0, 0, 66, 6]
2816	TAAGGTGGGGCCGACCACCGACCATTTTTTTT	[67, 5, 67, 6, 66, 5, 0, 0]
2817	TTTTTTTTACTCGTAAGCGATATCTGAATGCG	[67, 7, 0, 0, 68, 7, 68, 8]
2818	TAGGGTATTTTTTTTTGCGATATCTGAATGCG	[0, 0, 67, 8, 68, 7, 68, 8]
2819	TAGGGTATACTCGTAATTTTTTTTTGAATGCG	[67, 7, 67, 8, 0, 0, 68, 8]
2820	TAGGGTATACTCGTAAGCGATATCTTTTTTTT	[67, 7, 67, 8, 68, 7, 0, 0]
2821	TTTTTTTTAACGACAAAAAATACCTTCGCCGG	[67, 9, 0, 0, 66, 9, 66, 10]
2822	TAATACGATTTTTTTTAAAATACCTTCGCCGG	[0, 0, 67, 10, 66, 9, 66, 10]
2823	TAATACGAAACGACAATTTTTTTTTTCGCCGG	[67, 9, 67, 10, 0, 0, 66, 10]
2824	TAATACGAAACGACAAAAAATACCTTTTTTTT	[67, 9, 67, 10, 66, 9, 0, 0]
2825	TTTTTTTTTTGGAGCCCACGAACCAACGCATC	[69, 1, 0, 0, 68, 1, 68, 2]
2826	TCCGTCCGTTTTTTTTCACGAACCAACGCATC	[0, 0, 69, 2, 68, 1, 68, 2]
2827	TCCGTCCGTTGGAGCCTTTTTTTTAACGCATC	[69, 1, 69, 2, 0, 0, 68, 2]
2828	TCCGTCCGTTGGAGCCCACGAACCTTTTTTTT	[69, 1, 69, 2, 68, 1, 0, 0]
2829	TTTTTTTTCGGAGGCGCATTAGGTCTATTATA	[69, 5, 0, 0, 68, 5, 68, 6]
2830	ACCATTACTTTTTTTTCATTAGGTCTATTATA	[0, 0, 69, 6, 68, 5, 68, 6]
2831	ACCATTACCGGAGGCGTTTTTTTTCTATTATA	[69, 5, 69, 6, 0, 0, 68, 6]
2832	ACCATTACCGGAGGCGCATTAGGTTTTTTTTT	[69, 5, 69, 6, 68, 5, 0, 0]
2833	TTTTTTTTTATAAAATGGCACTGTCACGGCGC	[69, 9, 0, 0, 68, 9, 68, 10]
2834	TATCGTTCTTTTTTTTGGCACTGTCACGGCGC	[0, 0, 69, 10, 68, 9, 68, 10]
2835	TATCGTTCTATAAAATTTTTTTTTCACGGCGC	[69, 9, 69, 10, 0, 0, 68, 10]
2836	TATCGTTCTATAAAATGGCACTGTTTTTTTTT	[69, 9, 69, 10, 68, 9, 0, 0]
2837	TTTTTTTTACAATGTGTCTGACCCTTCACAT	[71, 1, 0, 0, 72, 1, 72, 2]
2838	ATATCATCTTTTTTTTGTCTGACCCTTCACAT	[0, 0, 71, 2, 72, 1, 72, 2]
2839	ATATCATCTACAATGTTTTTTTTTCTTCACAT	[71, 1, 71, 2, 0, 0, 72, 2]
2840	ATATCATCTACAATGTGTCTGACCTTTTTTTT	[71, 1, 71, 2, 72, 1, 0, 0]
2841	TTTTTTTTGGATTACCCTTCAATAAGTTGTAG	[71, 3, 0, 0, 70, 3, 70, 4]
2842	TAATATGGTTTTTTTTCTTCAATAAGTTGTAG	[0, 0, 71, 4, 70, 3, 70, 4]
2843	TAATATGGGGATTACCTTTTTTTTTAGTTGTAG	[71, 3, 71, 4, 0, 0, 70, 4]
2844	TAATATGGGGATTACCCTTCAATATTTTTTTT	[71, 3, 71, 4, 70, 3, 0, 0]
2845	TTTTTTTTTGGCAGGTGCCATCCTACCCGCTT	[71, 5, 0, 0, 72, 5, 72, 6]
2846	GCATCAGCTTTTTTTTTGCCATCCTACCCGCTT	[0, 0, 71, 6, 72, 5, 72, 6]
2847	GCATCAGCTGGCAGGTTTTTTTTTACCCGCTT	[71, 5, 71, 6, 0, 0, 72, 6]
2848	GCATCAGCTGGCAGGTGCCATCCTTTTTTTTT	[71, 5, 71, 6, 72, 5, 0, 0]
2849	TTTTTTTTGAAGCAGGATGTGTAATGGTGGGC	[71, 7, 0, 0, 70, 7, 70, 8]
2850	TCTCATGCTTTTTTTTTATGTGTAATGGTGGGC	[0, 0, 71, 8, 70, 7, 70, 8]
2851	TCTCATGCGAAGCAGGTTTTTTTTTGGTGGGC	[71, 7, 71, 8, 0, 0, 70, 8]
2852	TCTCATGCGAAGCAGGATGTGTAATTTTTTTT	[71, 7, 71, 8, 70, 7, 0, 0]
2853	TTTTTTTTTCTGCGCCAGCGCCACGTCCCCAA	[71, 9, 0, 0, 72, 9, 72, 10]
2854	GGACGATATTTTTTTTTAGCGCCACGTCCCCAA	[0, 0, 71, 10, 72, 9, 72, 10]
2855	GGACGATATCTGCGCCTTTTTTTTGTCCCCAA	[71, 9, 71, 10, 0, 0, 72, 10]
2856	GGACGATATCTGCGCCAGCGCCACTTTTTTTT	[71, 9, 71, 10, 72, 9, 0, 0]
2857	TTTTTTTTACCTGTCATTGGAGTGATGAACAA	[73, 1, 0, 0, 74, 1, 74, 2]
2858	TTGTCGGGTTTTTTTTTTGGAGTGATGAACAA	[0, 0, 73, 2, 74, 1, 74, 2]
2859	TTGTCGGGACCTGTCATTTTTTTTATGAACAA	[73, 1, 73, 2, 0, 0, 74, 2]
2860	TTGTCGGGACCTGTCATTGGAGTGTTTTTTTT	[73, 1, 73, 2, 74, 1, 0, 0]
2861	TTTTTTTTCTGCTGCCGCCCTTTGGGGTTCAC	[73, 3, 0, 0, 72, 3, 72, 4]
2862	CCTGGGTCTTTTTTTTGCCCTTTGGGGTTCAC	[0, 0, 73, 4, 72, 3, 72, 4]
2863	CCTGGGTCCTGCTGCCTTTTTTTTGGGTTCAC	[73, 3, 73, 4, 0, 0, 72, 4]
2864	CCTGGGTCCTGCTGCCGCCCTTTGTTTTTTTT	[73, 3, 73, 4, 72, 3, 0, 0]
2865	TTTTTTTTATAACCTAAGTAATGTCTAGTGCC	[73, 5, 0, 0, 74, 5, 74, 6]
2866	GCCCGCGCTTTTTTTTAGTAATGTCTAGTGCC	[0, 0, 73, 6, 74, 5, 74, 6]
2867	GCCCGCGCATAACCTATTTTTTTTCTAGTGCC	[73, 5, 73, 6, 0, 0, 74, 6]
2868	GCCCGCGCATAACCTAAGTAATGTTTTTTTTT	[73, 5, 73, 6, 74, 5, 0, 0]
2869	TTTTTTTTAAGAGTCAAGCGTAAAGTCTTGAC	[73, 7, 0, 0, 72, 7, 72, 8]
2870	GTATGTGATTTTTTTTAGCGTAAAGTCTTGAC	[0, 0, 73, 8, 72, 7, 72, 8]
2871	GTATGTGAAAGAGTCATTTTTTTTTGTCTTGAC	[73, 7, 73, 8, 0, 0, 72, 8]
2872	GTATGTGAAAGAGTCAAGCGTAAATTTTTTTT	[73, 7, 73, 8, 72, 7, 0, 0]
2873	TTTTTTTTTCCAGCTGACGGTATGGAAAGAAG	[73, 9, 0, 0, 74, 9, 74, 10]
2874	GTATTCCATTTTTTTTTACGGTATGGAAAGAAG	[0, 0, 73, 10, 74, 9, 74, 10]
2875	GTATTCCATCCAGCTGTTTTTTTTGAAAGAAG	[73, 9, 73, 10, 0, 0, 74, 10]

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2876	GTATTCCATCCAGCTGACGGTATGTTTTTTTT	[73, 9, 73, 10, 74, 9, 0, 0]
2877	TTTTTTTTCTCGAGTCTACAGCAGAGCTACGC	[75, 1, 0, 0, 76, 1, 76, 2]
2878	CGAAGGGGTTTTTTTTTACAGCAGAGCTACGC	[0, 0, 75, 2, 76, 1, 76, 2]
2879	CGAAGGGGCTCGAGTCTTTTTTTTAGCTACGC	[75, 1, 75, 2, 0, 0, 76, 2]
2880	CGAAGGGGCTCGAGTCTACAGCAGTTTTTTTT	[75, 1, 75, 2, 76, 1, 0, 0]
2881	TTTTTTTTTCTTTAAATGTCCCGTGTTAGGGC	[75, 3, 0, 0, 74, 3, 74, 4]
2882	GTCCCACGTTTTTTTTTGTCCCGTGTTAGGGC	[0, 0, 75, 4, 74, 3, 74, 4]
2883	GTCCCACGTCTTTAAATTTTTTTTGTTAGGGC	[75, 3, 75, 4, 0, 0, 74, 4]
2884	GTCCCACGTCTTTAAATGTCCCGTTTTTTTTT	[75, 3, 75, 4, 74, 3, 0, 0]
2885	TTTTTTTTCGTGGAATCCATTCAGTTCACAGG	[75, 5, 0, 0, 76, 5, 76, 6]
2886	TCGCATCTTTTTTTTTTCCATTCAGTTCACAGG	[0, 0, 75, 6, 76, 5, 76, 6]
2887	TCGCATCTCGTGGAATTTTTTTTTTTCACAGG	[75, 5, 75, 6, 0, 0, 76, 6]
2888	TCGCATCTCGTGGAATCCATTCAGTTTTTTTT	[75, 5, 75, 6, 76, 5, 0, 0]
2889	TTTTTTTTCGTACAAAGCGTTACTGACCCGCT	[75, 7, 0, 0, 74, 7, 74, 8]
2890	CCCTTAGCTTTTTTTTTGCGTTACTGACCCGCT	[0, 0, 75, 8, 74, 7, 74, 8]
2891	CCCTTAGCCGTACAAATTTTTTTTGACCCGCT	[75, 7, 75, 8, 0, 0, 74, 8]
2892	CCCTTAGCCGTACAAAGCGTTACTTTTTTTTT	[75, 7, 75, 8, 74, 7, 0, 0]
2893	TTTTTTTTATGCAAAACTATGTCTTTCTGAGG	[75, 9, 0, 0, 76, 9, 76, 10]
2894	GCAGGTAATTTTTTTTCTATGTCTTTCTGAGG	[0, 0, 75, 10, 76, 9, 76, 10]
2895	GCAGGTAAATGCAAAATTTTTTTTTTCTGAGG	[75, 9, 75, 10, 0, 0, 76, 10]
2896	GCAGGTAAATGCAAAACTATGTCTTTTTTTTT	[75, 9, 75, 10, 76, 9, 0, 0]
2897	TTTTTTTTTTGGGTCTACGGCACCGAGGCCT	[77, 1, 0, 0, 78, 1, 78, 2]
2898	AGGAGCAGTTTTTTTTTTACGGCACCGAGGCCT	[0, 0, 77, 2, 78, 1, 78, 2]
2899	AGGAGCAGTTTGGGTCTTTTTTTTCGAGGCCT	[77, 1, 77, 2, 0, 0, 78, 2]
2900	AGGAGCAGTTTGGGTCTACGGCACTTTTTTTT	[77, 1, 77, 2, 78, 1, 0, 0]
2901	TTTTTTTTGACCCTAAGAGTCCCCGAAGAATA	[77, 3, 0, 0, 76, 3, 76, 4]
2902	AATCCGATTTTTTTTTTGAGTCCCCGAAGAATA	[0, 0, 77, 4, 76, 3, 76, 4]
2903	AATCCGATGACCCTAATTTTTTTTGAAGAATA	[77, 3, 77, 4, 0, 0, 76, 4]
2904	AATCCGATGACCCTAAGAGTCCCCTTTTTTTT	[77, 3, 77, 4, 76, 3, 0, 0]
2905	TTTTTTTTTCCGCCGGCAAGTAAGCAGGGCGT	[77, 5, 0, 0, 78, 5, 78, 6]
2906	GGATATTCTTTTTTTTTCAAGTAAGCAGGGCGT	[0, 0, 77, 6, 78, 5, 78, 6]
2907	GGATATTCTCCGCCGGTTTTTTTTCAGGGCGT	[77, 5, 77, 6, 0, 0, 78, 6]
2908	GGATATTCTCCGCCGGCAAGTAAGTTTTTTTT	[77, 5, 77, 6, 78, 5, 0, 0]
2909	TTTTTTTTTCAACCGGCGACGAGTAACGGCAT	[77, 7, 0, 0, 76, 7, 76, 8]
2910	AAAAGCAGTTTTTTTTCGACGAGTAACGGCAT	[0, 0, 77, 8, 76, 7, 76, 8]
2911	AAAAGCAGTCAACCGGTTTTTTTTAACGGCAT	[77, 7, 77, 8, 0, 0, 76, 8]
2912	AAAAGCAGTCAACCGGCGACGAGTTTTTTTTT	[77, 7, 77, 8, 76, 7, 0, 0]
2913	TTTTTTTTTTTTATAACTGCTGGGTGGGCGC	[77, 9, 0, 0, 78, 9, 78, 10]
2914	CTTCCGACTTTTTTTTACTGCTGGGTGGGCGC	[0, 0, 77, 10, 78, 9, 78, 10]
2915	CTTCCGACTTTTTATATTTTTTTTGTGGGCGC	[77, 9, 77, 10, 0, 0, 78, 10]
2916	CTTCCGACTTTTTATAACTGCTGGTTTTTTTT	[77, 9, 77, 10, 78, 9, 0, 0]
2917	TTTTTTTTGGACGTTTGAGCAATAGAAATTGA	[79, 3, 0, 0, 78, 3, 78, 4]
2918	CACTGTGTTTTTTTTTGAGCAATAGAAATTGA	[0, 0, 79, 4, 78, 3, 78, 4]
2919	CACTGTGTGGACGTTTTTTTTTTTGAAATTGA	[79, 3, 79, 4, 0, 0, 78, 4]
2920	CACTGTGTGGACGTTTGAGCAATATTTTTTTT	[79, 3, 79, 4, 78, 3, 0, 0]
2921	TTTTTTTTAAGACGTAGAATGAGCGACGCACC	[79, 7, 0, 0, 78, 7, 78, 8]
2922	ATCGGCTCTTTTTTTTGAATGAGCGACGCACC	[0, 0, 79, 8, 78, 7, 78, 8]
2923	ATCGGCTCAAGACGTATTTTTTTTGACGCACC	[79, 7, 79, 8, 0, 0, 78, 8]
2924	ATCGGCTCAAGACGTAGAATGAGCTTTTTTTT	[79, 7, 79, 8, 78, 7, 0, 0]
2925	TTTTTTTTACAACATGACTACAGTTGACCGGG	[81, 1, 0, 0, 80, 1, 80, 2]
2926	TGTCCAAGTTTTTTTTACTACAGTTGACCGGG	[0, 0, 81, 2, 80, 1, 80, 2]
2927	TGTCCAAGACAACATGTTTTTTTTTGACCGGG	[81, 1, 81, 2, 0, 0, 80, 2]
2928	TGTCCAAGACAACATGACTACAGTTTTTTTTT	[81, 1, 81, 2, 80, 1, 0, 0]
2929	TTTTTTTTAAGCGCAACGGCGCCGATTGATCA	[81, 3, 0, 0, 82, 3, 82, 4]
2930	GGTGCAAATTTTTTTTCGGCGCCGATTGATCA	[0, 0, 81, 4, 82, 3, 82, 4]
2931	GGTGCAAAAAGCGCAATTTTTTTTATTGATCA	[81, 3, 81, 4, 0, 0, 82, 4]
2932	GGTGCAAAAAGCGCAACGGCGCCGTTTTTTTT	[81, 3, 81, 4, 82, 3, 0, 0]
2933	TTTTTTTTGTATAGGTCCTTGTTACGATGGCA	[81, 5, 0, 0, 80, 5, 80, 6]
2934	ATGGTTAATTTTTTTTCCTTGTTACGATGGCA	[0, 0, 81, 6, 80, 5, 80, 6]
2935	ATGGTTAAGTATAGGTTTTTTTTCGATGGCA	[81, 5, 81, 6, 0, 0, 80, 6]
2936	ATGGTTAAGTATAGGTCCTTGTTATTTTTTTT	[81, 5, 81, 6, 80, 5, 0, 0]
2937	TTTTTTTTCGGACCTTCCACCGGGTCTGTTCC	[81, 7, 0, 0, 82, 7, 82, 8]
2938	GCAATATTTTTTTTTTCCACCGGGTCTGTTCC	[0, 0, 81, 8, 82, 7, 82, 8]
2939	GCAATATTCGGACCTTTTTTTTTTCTGTTCC	[81, 7, 81, 8, 0, 0, 82, 8]
2940	GCAATATTCGGACCTTCCACCGGGTTTTTTTT	[81, 7, 81, 8, 82, 7, 0, 0]
2941	TTTTTTTTGGAATACTCAGCCTTCACCGCGGG	[81, 9, 0, 0, 80, 9, 80, 10]
2942	ATTGAGCATTTTTTTTCAGCCTTCACCGCGGG	[0, 0, 81, 10, 80, 9, 80, 10]
2943	ATTGAGCAGGAATACTTTTTTTTTACCGCGGG	[81, 9, 81, 10, 0, 0, 80, 10]
2944	ATTGAGCAGGAATACTCAGCCTTCTTTTTTTT	[81, 9, 81, 10, 80, 9, 0, 0]
2945	TTTTTTTTGTACACATCTCTGGCTTTACCAAG	[83, 1, 0, 0, 82, 1, 82, 2]
2946	TCTCTATCTTTTTTTTCTCTGGCTTTACCAAG	[0, 0, 83, 2, 82, 1, 82, 2]
2947	TCTCTATCGTACACATTTTTTTTTTTACCAAG	[83, 1, 83, 2, 0, 0, 82, 2]
2948	TCTCTATCGTACACATCTCTGGCTTTTTTTT	[83, 1, 83, 2, 82, 1, 0, 0]
2949	TTTTTTTTGGGACAGTCGGAACATGCACGATG	[83, 3, 0, 0, 84, 3, 84, 4]
2950	CCACTAACTTTTTTTTCGGAACATGCACGATG	[0, 0, 83, 4, 84, 3, 84, 4]
2951	CCACTAACGGGACAGTTTTTTTTTGCACGATG	[83, 3, 83, 4, 0, 0, 84, 4]
2952	CCACTAACGGGACAGTCGGAACATTTTTTTTT	[83, 3, 83, 4, 84, 3, 0, 0]
2953	TTTTTTTTGGGTGCCACCGCAACCTTTACGTG	[83, 5, 0, 0, 82, 5, 82, 6]
2954	TCCGGGATTTTTTTTTCCGCAACCTTTACGTG	[0, 0, 83, 6, 82, 5, 82, 6]
2955	TCCGGGATGGGTGCCATTTTTTTTTTTACGTG	[83, 5, 83, 6, 0, 0, 82, 6]

Strand	Sequence	Voxel
2956	TCCGGGATGGGTGCCACCGCAACCTTTTTTTT	[83, 5, 83, 6, 82, 5, 0, 0]
2957	TTTTTTTTATACAAGATTCAGCAGCCTTACTC	[83, 7, 0, 0, 84, 7, 84, 8]
2958	TTTAGGGATTTTTTTTTTCAGCAGCCTTACTC	[0, 0, 83, 8, 84, 7, 84, 8]
2959	TTTAGGGAATACAAGATTTTTTTTCCTTACTC	[83, 7, 83, 8, 0, 0, 84, 8]
2960	TTTAGGGAATACAAGATTCAGCAGTTTTTTTT	[83, 7, 83, 8, 84, 7, 0, 0]
2961	TTTTTTTTCACGGACAGGAACAACGGGTGTCA	[83, 9, 0, 0, 82, 9, 82, 10]
2962	AGCAATATTTTTTTTTGGAACAACGGGTGTCA	[0, 0, 83, 10, 82, 9, 82, 10]
2963	AGCAATATCACGGACATTTTTTTTGGGTGTCA	[83, 9, 83, 10, 0, 0, 82, 10]
2964	AGCAATATCACGGACAGGAACAACTTTTTTTT	[83, 9, 83, 10, 82, 9, 0, 0]
2965	TTTTTTTTAAGGGCAATCGTATTTGATGCCCG	[85, 1, 0, 0, 84, 1, 84, 2]
2966	GTCCAAGTTTTTTTTTTCGTATTTGATGCCCG	[0, 0, 85, 2, 84, 1, 84, 2]
2967	GTCCAAGTAAGGGCAATTTTTTTTGATGCCCG	[85, 1, 85, 2, 0, 0, 84, 2]
2968	GTCCAAGTAAGGGCAATCGTATTTTTTTTTTT	[85, 1, 85, 2, 84, 1, 0, 0]
2969	TTTTTTTTCTCACTTTTCTGGCGCCGGCTTAG	[85, 3, 0, 0, 86, 3, 86, 4]
2970	TGTGTATGTTTTTTTTTCTGGCGCCGGCTTAG	[0, 0, 85, 4, 86, 3, 86, 4]
2971	TGTGTATGCTCACTTTTTTTTTTCGGCTTAG	[85, 3, 85, 4, 0, 0, 86, 4]
2972	TGTGTATGCTCACTTTTCTGGCGCTTTTTTTT	[85, 3, 85, 4, 86, 3, 0, 0]
2973	TTTTTTTTCATTGTGGTTCGCCGCGTCGTTTT	[85, 5, 0, 0, 84, 5, 84, 6]
2974	CCGTCACGTTTTTTTTTTCGCCGCGTCGTTTT	[0, 0, 85, 6, 84, 5, 84, 6]
2975	CCGTCACGCATTGTGGTTTTTTTTGTCGTTTT	[85, 5, 85, 6, 0, 0, 84, 6]
2976	CCGTCACGCATTGTGGTTCGCCGCTTTTTTTT	[85, 5, 85, 6, 84, 5, 0, 0]
2977	TTTTTTTTAAGATTCAACAGGACGATGTTCTC	[85, 7, 0, 0, 86, 7, 86, 8]
2978	CTCAGTTTTTTTTTTTACAGGACGATGTTCTC	[0, 0, 85, 8, 86, 7, 86, 8]
2979	CTCAGTTTAAGATTCATTTTTTTTATGTTCTC	[85, 7, 85, 8, 0, 0, 86, 8]
2980	CTCAGTTTAAGATTCAACAGGACGTTTTTTTT	[85, 7, 85, 8, 86, 7, 0, 0]
2981	TTTTTTTTAGGTCTTAATTTTGGCGGAACGGG	[85, 9, 0, 0, 84, 9, 84, 10]
2982	ACCTCTTCTTTTTTTTTATTTTGGCGGAACGGG	[0, 0, 85, 10, 84, 9, 84, 10]
2983	ACCTCTTCAGGTCTTATTTTTTTTGGAACGGG	[85, 9, 85, 10, 0, 0, 84, 10]
2984	ACCTCTTCAGGTCTTAATTTTGGCTTTTTTTT	[85, 9, 85, 10, 84, 9, 0, 0]
2985	TTTTTTTTCGTCCTTGGCATCCGCTCGCATGG	[87, 1, 0, 0, 86, 1, 86, 2]
2986	AAGCATCGTTTTTTTTGCATCCGCTCGCATGG	[0, 0, 87, 2, 86, 1, 86, 2]
2987	AAGCATCGCGTCCTTGTTTTTTTTTCGCATGG	[87, 1, 87, 2, 0, 0, 86, 2]
2988	AAGCATCGCGTCCTTGGCATCCGCTTTTTTTT	[87, 1, 87, 2, 86, 1, 0, 0]
2989	TTTTTTTTTGTGGCAATACAATATAGTTATAT	[87, 3, 0, 0, 88, 3, 88, 4]
2990	TTAAGATGTTTTTTTTTACAATATAGTTATAT	[0, 0, 87, 4, 88, 3, 88, 4]
2991	TTAAGATGTGTGGCAATTTTTTTTAGTTATAT	[87, 3, 87, 4, 0, 0, 88, 4]
2992	TTAAGATGTGTGGCAATACAATATTTTTTTTT	[87, 3, 87, 4, 88, 3, 0, 0]
2993	TTTTTTTTAACGGTCGTATCCGCCTATCTCGC	[87, 5, 0, 0, 86, 5, 86, 6]

Strand	Sequence	Voxel
2994	CCTCATGTTTTTTTTTTATCCGCCTATCTCGC	[0, 0, 87, 6, 86, 5, 86, 6]
2995	CCTCATGTAACGGTCGTTTTTTTTTATCTCGC	[87, 5, 87, 6, 0, 0, 86, 6]
2996	CCTCATGTAACGGTCGTATCCGCCTTTTTTTT	[87, 5, 87, 6, 86, 5, 0, 0]
2997	TTTTTTTTACCAGCCAAGAGAGTCGCAGCCCT	[87, 7, 0, 0, 88, 7, 88, 8]
2998	AGAGTTCTTTTTTTTTTAGAGAGTCGCAGCCCT	[0, 0, 87, 8, 88, 7, 88, 8]
2999	AGAGTTCTACCAGCCATTTTTTTTTGCAGCCCT	[87, 7, 87, 8, 0, 0, 88, 8]
3000	AGAGTTCTACCAGCCAAGAGAGTCTTTTTTTT	[87, 7, 87, 8, 88, 7, 0, 0]
3001	TTTTTTTTGGACATCACATCTCTGCCTCGACG	[87, 9, 0, 0, 86, 9, 86, 10]
3002	TCATCGTATTTTTTTTTCATCTCTGCCTCGACG	[0, 0, 87, 10, 86, 9, 86, 10]
3003	TCATCGTAGGACATCATTTTTTTTTCCTCGACG	[87, 9, 87, 10, 0, 0, 86, 10]
3004	TCATCGTAGGACATCACATCTCTGTTTTTTTT	[87, 9, 87, 10, 86, 9, 0, 0]
3005	TTTTTTTTCAATGGAGGTGGGCGCAAACCGTT	[89, 1, 0, 0, 88, 1, 88, 2]
3006	TACGCGGGTTTTTTTTTGTGGGCGCAAACCGTT	[0, 0, 89, 2, 88, 1, 88, 2]
3007	TACGCGGGCAATGGAGTTTTTTTTAAACCGTT	[89, 1, 89, 2, 0, 0, 88, 2]
3008	TACGCGGGCAATGGAGGTGGGCGCTTTTTTTT	[89, 1, 89, 2, 88, 1, 0, 0]
3009	TTTTTTTTTTAAACAGTTGAAGGTTTGAACCA	[89, 5, 0, 0, 88, 5, 88, 6]
3010	TTCAACTTTTTTTTTTTTGAAGGTTTGAACCA	[0, 0, 89, 6, 88, 5, 88, 6]
3011	TTCAACTTTTAAACAGTTTTTTTTTGAACCA	[89, 5, 89, 6, 0, 0, 88, 6]
3012	TTCAACTTTTAAACAGTTGAAGGTTTTTTTTT	[89, 5, 89, 6, 88, 5, 0, 0]
3013	TTTTTTTTTTCCCAGGTTATTGAGACCTATCT	[89, 9, 0, 0, 88, 9, 88, 10]
3014	TTCCTTGATTTTTTTTTTATTGAGACCTATCT	[0, 0, 89, 10, 88, 9, 88, 10]
3015	TTCCTTGATTCCCAGGTTTTTTTTACCTATCT	[89, 9, 89, 10, 0, 0, 88, 10]
3016	TTCCTTGATTCCCAGGTTATTGAGTTTTTTTT	[89, 9, 89, 10, 88, 9, 0, 0]
3017	TTTTTTTTCTACAGCACCGTGATGAGACTTCG	[91, 1, 0, 0, 92, 1, 92, 2]
3018	ATCACGCTTTTTTTTTTCCGTGATGAGACTTCG	[0, 0, 91, 2, 92, 1, 92, 2]
3019	ATCACGCTCTACAGCATTTTTTTTAGACTTCG	[91, 1, 91, 2, 0, 0, 92, 2]
3020	ATCACGCTCTACAGCACCGTGATGTTTTTTTT	[91, 1, 91, 2, 92, 1, 0, 0]
3021	TTTTTTTTACGCCTGCTTCCGTGGCCCCGCAA	[91, 3, 0, 0, 90, 3, 90, 4]
3022	TGCGTTCGTTTTTTTTTTCCGTGGCCCCGCAA	[0, 0, 91, 4, 90, 3, 90, 4]
3023	TGCGTTCGACGCCTGCTTTTTTTTCCCCGCAA	[91, 3, 91, 4, 0, 0, 90, 4]
3024	TGCGTTCGACGCCTGCTTCCGTGGTTTTTTTT	[91, 3, 91, 4, 90, 3, 0, 0]
3025	TTTTTTTTCTGAGGGGGAGGGGATAGCATACC	[91, 5, 0, 0, 92, 5, 92, 6]
3026	CCGCATCGTTTTTTTTGAGGGGATAGCATACC	[0, 0, 91, 6, 92, 5, 92, 6]
3027	CCGCATCGCTGAGGGGTTTTTTTTTAGCATACC	[91, 5, 91, 6, 0, 0, 92, 6]
3028	CCGCATCGCTGAGGGGGAGGGGATTTTTTTTT	[91, 5, 91, 6, 92, 5, 0, 0]
3029	TTTTTTTTACCCTCGCGGGTGATCGGCCGTTA	[91, 7, 0, 0, 90, 7, 90, 8]
3030	CAGCACAATTTTTTTTGGGTGATCGGCCGTTA	[0, 0, 91, 8, 90, 7, 90, 8]
3031	CAGCACAAACCCTCGCTTTTTTTTGGCCGTTA	[91, 7, 91, 8, 0, 0, 90, 8]
3032	CAGCACAAACCCTCGCGGGTGATCTTTTTTTT	[91, 7, 91, 8, 90, 7, 0, 0]
3033	TTTTTTTTGTGCTGTGTTCTATCGATCTCCTT	[91, 9, 0, 0, 92, 9, 92, 10]
3034	GTCGTAATTTTTTTTTTTCTATCGATCTCCTT	[0, 0, 91, 10, 92, 9, 92, 10]
3035	GTCGTAATGTGCTGTGTTTTTTTTATCTCCTT	[91, 9, 91, 10, 0, 0, 92, 10]
3036	GTCGTAATGTGCTGTGTTCTATCGTTTTTTTT	[91, 9, 91, 10, 92, 9, 0, 0]
3037	TTTTTTTTAATGCAAAACCATGTTGAAATTGT	[93, 1, 0, 0, 94, 1, 94, 2]
3038	CGCAACAATTTTTTTTTACCATGTTGAAATTGT	[0, 0, 93, 2, 94, 1, 94, 2]
3039	CGCAACAAAATGCAAATTTTTTTTGAAATTGT	[93, 1, 93, 2, 0, 0, 94, 2]
3040	CGCAACAAAATGCAAAACCATGTTTTTTTTTT	[93, 1, 93, 2, 94, 1, 0, 0]
3041	TTTTTTTTCACGAGGCACACGGCGTCAGCGAT	[93, 3, 0, 0, 92, 3, 92, 4]
3042	GCTGCCGATTTTTTTTACACGGCGTCAGCGAT	[0, 0, 93, 4, 92, 3, 92, 4]
3043	GCTGCCGACACGAGGCTTTTTTTTTCAGCGAT	[93, 3, 93, 4, 0, 0, 92, 4]
3044	GCTGCCGACACGAGGCACACGGCGTTTTTTTT	[93, 3, 93, 4, 92, 3, 0, 0]
3045	TTTTTTTTCCTAGCAATAAGACAAGTAGAACA	[93, 5, 0, 0, 94, 5, 94, 6]
3046	CGCATCTATTTTTTTTTTAAGACAAGTAGAACA	[0, 0, 93, 6, 94, 5, 94, 6]
3047	CGCATCTACCTAGCAATTTTTTTTGTAGAACA	[93, 5, 93, 6, 0, 0, 94, 6]
3048	CGCATCTACCTAGCAATAAGACAATTTTTTTT	[93, 5, 93, 6, 94, 5, 0, 0]
3049	TTTTTTTTGGTGTAGTGGATTCATTTAACTAC	[93, 7, 0, 0, 92, 7, 92, 8]
3050	TTGTGTTGTTTTTTTTTGGATTCATTTAACTAC	[0, 0, 93, 8, 92, 7, 92, 8]
3051	TTGTGTTGGGTGTAGTTTTTTTTTTTAACTAC	[93, 7, 93, 8, 0, 0, 92, 8]
3052	TTGTGTTGGGTGTAGTGGATTCATTTTTTTTT	[93, 7, 93, 8, 92, 7, 0, 0]
3053	TTTTTTTTTTACCTAATACCATGAGGAGCAGG	[93, 9, 0, 0, 94, 9, 94, 10]
3054	CGATGTTATTTTTTTTTTACCATGAGGAGCAGG	[0, 0, 93, 10, 94, 9, 94, 10]
3055	CGATGTTATTACCTAATTTTTTTTTGGAGCAGG	[93, 9, 93, 10, 0, 0, 94, 10]
3056	CGATGTTATTACCTAATACCATGATTTTTTTT	[93, 9, 93, 10, 94, 9, 0, 0]
3057	TTTTTTTTAATACATTTATGAATCCAGACACG	[95, 1, 0, 0, 96, 1, 96, 2]
3058	GATTGACTTTTTTTTTTTATGAATCCAGACACG	[0, 0, 95, 2, 96, 1, 96, 2]
3059	GATTGACTAATACATTTTTTTTTTCAGACACG	[95, 1, 95, 2, 0, 0, 96, 2]
3060	GATTGACTAATACATTTATGAATCTTTTTTTT	[95, 1, 95, 2, 96, 1, 0, 0]
3061	TTTTTTTTTCCGGGGAGTAGTCTGTAGGGTGA	[95, 3, 0, 0, 94, 3, 94, 4]
3062	AGGTACACTTTTTTTTTGTAGTCTGTAGGGTGA	[0, 0, 95, 4, 94, 3, 94, 4]
3063	AGGTACACTCCGGGGATTTTTTTTTTAGGGTGA	[95, 3, 95, 4, 0, 0, 94, 4]
3064	AGGTACACTCCGGGGAGTAGTCTGTTTTTTTT	[95, 3, 95, 4, 94, 3, 0, 0]
3065	TTTTTTTTGCAAGCTCGTCAAGTGGTATAGCC	[95, 5, 0, 0, 96, 5, 96, 6]
3066	TATACCCGTTTTTTTTTGTCAAGTGGTATAGCC	[0, 0, 95, 6, 96, 5, 96, 6]
3067	TATACCCGGCAAGCTCTTTTTTTTTGTATAGCC	[95, 5, 95, 6, 0, 0, 96, 6]
3068	TATACCCGGCAAGCTCGTCAAGTGTTTTTTTT	[95, 5, 95, 6, 96, 5, 0, 0]
3069	TTTTTTTTTACGCTCCAAATACTGCCCACGGT	[95, 7, 0, 0, 94, 7, 94, 8]
3070	CGCAGCACTTTTTTTTTAAATACTGCCCACGGT	[0, 0, 95, 8, 94, 7, 94, 8]
3071	CGCAGCACTACGCTCCTTTTTTTTCCCACGGT	[95, 7, 95, 8, 0, 0, 94, 8]
3072	CGCAGCACTACGCTCCAAATACTGTTTTTTTT	[95, 7, 95, 8, 94, 7, 0, 0]
3073	TTTTTTTTCTCCATAAAGGCGTCTCAGGAAGT	[95, 9, 0, 0, 96, 9, 96, 10]

Strand	Sequence	Voxel
3074	ATTAGGCATTTTTTTTAGGCGTCTCAGGAAGT	[0, 0, 95, 10, 96, 9, 96, 10]
3075	ATTAGGCACTCCATAATTTTTTTTCAGGAAGT	[95, 9, 95, 10, 0, 0, 96, 10]
3076	ATTAGGCACTCCATAAAGGCGTCTTTTTTTTT	[95, 9, 95, 10, 96, 9, 0, 0]
3077	TTTTTTTTCTCGACAATACCCTCCCTCTGCGG	[97, 1, 0, 0, 98, 1, 98, 2]
3078	GTTTTGTGTTTTTTTTTACCCTCCCTCTGCGG	[0, 0, 97, 2, 98, 1, 98, 2]
3079	GTTTTGTGCTCGACAATTTTTTTTCTCTGCGG	[97, 1, 97, 2, 0, 0, 98, 2]
3080	GTTTTGTGCTCGACAATACCCTCCTTTTTTTT	[97, 1, 97, 2, 98, 1, 0, 0]
3081	TTTTTTTTCATTGGCACTATAAGACTACTCCA	[97, 3, 0, 0, 96, 3, 96, 4]
3082	CGCGACCATTTTTTTTTCTATAAGACTACTCCA	[0, 0, 97, 4, 96, 3, 96, 4]
3083	CGCGACCACATTGGCATTTTTTTTCTACTCCA	[97, 3, 97, 4, 0, 0, 96, 4]
3084	CGCGACCACATTGGCACTATAAGATTTTTTTT	[97, 3, 97, 4, 96, 3, 0, 0]
3085	TTTTTTTTTTGACCGATCCAGAGCTAAGAAAA	[97, 5, 0, 0, 98, 5, 98, 6]
3086	ACCACCTGTTTTTTTTTTCCAGAGCTAAGAAAA	[0, 0, 97, 6, 98, 5, 98, 6]
3087	ACCACCTGTTGACCGATTTTTTTTTAAGAAAA	[97, 5, 97, 6, 0, 0, 98, 6]
3088	ACCACCTGTTGACCGATCCAGAGCTTTTTTTT	[97, 5, 97, 6, 98, 5, 0, 0]
3089	TTTTTTTTTATCAGAGGTCGTAACTCGGTCGC	[97, 7, 0, 0, 96, 7, 96, 8]
3090	CCTCGTGATTTTTTTTTGTCGTAACTCGGTCGC	[0, 0, 97, 8, 96, 7, 96, 8]
3091	CCTCGTGATATCAGAGTTTTTTTTTCGGTCGC	[97, 7, 97, 8, 0, 0, 96, 8]
3092	CCTCGTGATATCAGAGGTCGTAACTTTTTTTT	[97, 7, 97, 8, 96, 7, 0, 0]
3093	TTTTTTTTTTGGCTCAAAACGTCTAGTATTTC	[97, 9, 0, 0, 98, 9, 98, 10]
3094	GGTATGCATTTTTTTTTAAACGTCTAGTATTTC	[0, 0, 97, 10, 98, 9, 98, 10]
3095	GGTATGCATTGGCTCATTTTTTTTAGTATTTC	[97, 9, 97, 10, 0, 0, 98, 10]
3096	GGTATGCATTGGCTCAAAACGTCTTTTTTTTT	[97, 9, 97, 10, 98, 9, 0, 0]
3097	TTTTTTTTGCGTGAGGTATGGGCCTCATCCCC	[99, 3, 0, 0, 98, 3, 98, 4]
3098	TAGACTCATTTTTTTTTTATGGGCCTCATCCCC	[0, 0, 99, 4, 98, 3, 98, 4]
3099	TAGACTCAGCGTGAGGTTTTTTTTTCATCCCC	[99, 3, 99, 4, 0, 0, 98, 4]
3100	TAGACTCAGCGTGAGGTATGGGCCTTTTTTTT	[99, 3, 99, 4, 98, 3, 0, 0]
3101	TTTTTTTTCATGTATGTACTCATCAGCACCTA	[99, 7, 0, 0, 98, 7, 98, 8]
3102	TGACGCAGTTTTTTTTTACTCATCAGCACCTA	[0, 0, 99, 8, 98, 7, 98, 8]
3103	TGACGCAGCATGTATGTTTTTTTTTAGCACCTA	[99, 7, 99, 8, 0, 0, 98, 8]
3104	TGACGCAGCATGTATGTACTCATCTTTTTTTT	[99, 7, 99, 8, 98, 7, 0, 0]
3105	TTTTTTTTCCATCCCTCGAGGGTTTGTTTCAC	[0, 2, 0, 0, 19, 2, 19, 3]
3106	TAACCTGGTTTTTTTTCGAGGGTTTGTTTCAC	[0, 0, 0, 3, 19, 2, 19, 3]
3107	TAACCTGGCCATCCCTTTTTTTTTTGTTTCAC	[0, 2, 0, 3, 0, 0, 19, 3]
3108	TAACCTGGCCATCCCTCGAGGGTTTTTTTTTT	[0, 2, 0, 3, 19, 2, 0, 0]
3109	TTTTTTTTTCCGGTTTGGGCACTCGTATAACC	[0, 6, 0, 0, 19, 6, 19, 7]
3110	GTATGATTTTTTTTTTGGGCACTCGTATAACC	[0, 0, 0, 7, 19, 6, 19, 7]
3111	GTATGATTTCCGGTTTTTTTTTTTGTATAACC	[0, 6, 0, 7, 0, 0, 19, 7]
3112	GTATGATTTCCGGTTTGGGCACTCTTTTTTTT	[0, 6, 0, 7, 19, 6, 0, 0]
3113	TTTTTTTTGCGGCCATGTTATTTCTATTTCGA	[2, 2, 0, 0, 17, 2, 17, 3]
3114	ACCCGAGCTTTTTTTTTGTTATTTCTATTTCGA	[0, 0, 2, 3, 17, 2, 17, 3]
3115	ACCCGAGCGCGGCCATTTTTTTTTTTATTTCGA	[2, 2, 2, 3, 0, 0, 17, 3]
3116	ACCCGAGCGCGGCCATGTTATTTCTTTTTTTT	[2, 2, 2, 3, 17, 2, 0, 0]
3117	TTTTTTTTCGCTCAGCCGGAACAGCCAAGGCA	[2, 6, 0, 0, 17, 6, 17, 7]
3118	CACTGAGTTTTTTTTTCGGAACAGCCAAGGCA	[0, 0, 2, 7, 17, 6, 17, 7]
3119	CACTGAGTCGCTCAGCTTTTTTTTCCAAGGCA	[2, 6, 2, 7, 0, 0, 17, 7]
3120	CACTGAGTCGCTCAGCCGGAACAGTTTTTTTT	[2, 6, 2, 7, 17, 6, 0, 0]
3121	TTTTTTTTACAGCTAAGAACTTGAATCATGGT	[4, 2, 0, 0, 15, 2, 15, 3]
3122	ACAGGCGGTTTTTTTTGAACTTGAATCATGGT	[0, 0, 4, 3, 15, 2, 15, 3]
3123	ACAGGCGGACAGCTAATTTTTTTTATCATGGT	[4, 2, 4, 3, 0, 0, 15, 3]
3124	ACAGGCGGACAGCTAAGAACTTGATTTTTTTT	[4, 2, 4, 3, 15, 2, 0, 0]
3125	TTTTTTTTTCCAGCTTGACGATCCGCAGGGT	[4, 6, 0, 0, 15, 6, 15, 7]
3126	TCAGAAACTTTTTTTTTGACGATCCGCAGGGT	[0, 0, 4, 7, 15, 6, 15, 7]
3127	TCAGAAACTTCCAGCTTTTTTTTCGCAGGGT	[4, 6, 4, 7, 0, 0, 15, 7]
3128	TCAGAAACTTCCAGCTTGACGATCTTTTTTTT	[4, 6, 4, 7, 15, 6, 0, 0]
3129	TTTTTTTTTGCGATCATTAGTGAGGTTTCCTT	[6, 2, 0, 0, 13, 2, 13, 3]
3130	GAGGGAACTTTTTTTTTTTAGTGAGGTTTCCTT	[0, 0, 6, 3, 13, 2, 13, 3]
3131	GAGGGAACTGCGATCATTTTTTTTTGTTTCCTT	[6, 2, 6, 3, 0, 0, 13, 3]
3132	GAGGGAACTGCGATCATTAGTGAGTTTTTTTT	[6, 2, 6, 3, 13, 2, 0, 0]
3133	TTTTTTTTAGTTTTGGCTTACATCGCCCCCTA	[6, 6, 0, 0, 13, 6, 13, 7]
3134	CCAGGTCATTTTTTTTCTTACATCGCCCCCTA	[0, 0, 6, 7, 13, 6, 13, 7]
3135	CCAGGTCAAGTTTTGGTTTTTTTTGCCCCCTA	[6, 6, 6, 7, 0, 0, 13, 7]
3136	CCAGGTCAAGTTTTGGCTTACATCTTTTTTTT	[6, 6, 6, 7, 13, 6, 0, 0]
3137	TTTTTTTTTCAGTCGTCGAGTCGTAACCTCGT	[8, 2, 0, 0, 11, 2, 11, 3]
3138	AGATGTTCTTTTTTTTTCGAGTCGTAACCTCGT	[0, 0, 8, 3, 11, 2, 11, 3]
3139	AGATGTTCTCAGTCGTTTTTTTTTAACCTCGT	[8, 2, 8, 3, 0, 0, 11, 3]
3140	AGATGTTCTCAGTCGTCGAGTCGTTTTTTTTT	[8, 2, 8, 3, 11, 2, 0, 0]
3141	TTTTTTTTTAATTTGAGTTTCCTCAGAAGTG	[8, 6, 0, 0, 11, 6, 11, 7]
3142	ATAATAGTTTTTTTTTAGTTTCCTCAGAAGTG	[0, 0, 8, 7, 11, 6, 11, 7]
3143	ATAATAGTTTAATTTGTTTTTTTTCAGAAGTG	[8, 6, 8, 7, 0, 0, 11, 7]
3144	ATAATAGTTTAATTTGAGTTTCCTTTTTTTTT	[8, 6, 8, 7, 11, 6, 0, 0]
3145	TTTTTTTTCCAAGGAGGGAATGCAACACCGGC	[10, 2, 0, 0, 29, 2, 29, 3]
3146	CCCAGTGATTTTTTTTGGAATGCAACACCGGC	[0, 0, 10, 3, 29, 2, 29, 3]
3147	CCCAGTGACCAAGGAGTTTTTTTTTACACCGGC	[10, 2, 10, 3, 0, 0, 29, 3]
3148	CCCAGTGACCAAGGAGGGAATGCATTTTTTTTT	[10, 2, 10, 3, 29, 2, 0, 0]
3149	TTTTTTTTGTATAGCGCTCGACGGAGGATATG	[10, 4, 0, 0, 9, 4, 9, 5]
3150	CTAATATATTTTTTTTCTCGACGGAGGATATG	[0, 0, 10, 5, 9, 4, 9, 5]
3151	CTAATATAGTATAGCGTTTTTTTTAGGATATG	[10, 4, 10, 5, 0, 0, 9, 5]
3152	CTAATATAGTATAGCGCTCGACGGTTTTTTTT	[10, 4, 10, 5, 9, 4, 0, 0]
3153	TTTTTTTTTGGGTAAGATGTGGTTCCATTACG	[10, 6, 0, 0, 29, 6, 29, 7]

Strand	Sequence	Voxel
3154	TCTTTCTCTTTTTTTTATGTGGTTCCATTACG	[0, 0, 10, 7, 29, 6, 29, 7]
3155	TCTTTCTCTGGGTAAGTTTTTTTTCCATTACG	[10, 6, 10, 7, 0, 0, 29, 7]
3156	TCTTTCTCTGGGTAAGATGTGGTTTTTTTTTT	[10, 6, 10, 7, 29, 6, 0, 0]
3157	TTTTTTTTCCACCGCAATCGACTAGGAAGGAC	[10, 8, 0, 0, 9, 8, 9, 9]
3158	CACGCGAGTTTTTTTTATCGACTAGGAAGGAC	[0, 0, 10, 9, 9, 8, 9, 9]
3159	CACGCGAGCCACCGCATTTTTTTTTGGAAGGAC	[10, 8, 10, 9, 0, 0, 9, 9]
3160	CACGCGAGCCACCGCAATCGACTATTTTTTTT	[10, 8, 10, 9, 9, 8, 0, 0]
3161	TTTTTTTTCTATGTAGATCTGGTCATTGAAAG	[12, 2, 0, 0, 27, 2, 27, 3]
3162	GATAGCTGTTTTTTTTATCTGGTCATTGAAAG	[0, 0, 12, 3, 27, 2, 27, 3]
3163	GATAGCTGCTATGTAGTTTTTTTTTATTGAAAG	[12, 2, 12, 3, 0, 0, 27, 3]
3164	GATAGCTGCTATGTAGATCTGGTCTTTTTTTT	[12, 2, 12, 3, 27, 2, 0, 0]
3165	TTTTTTTTGAATATGGAAAGACTGTGCGAGAT	[12, 4, 0, 0, 7, 4, 7, 5]
3166	GACAGGGATTTTTTTTAAAGACTGTGCGAGAT	[0, 0, 12, 5, 7, 4, 7, 5]
3167	GACAGGGAGAATATGGTTTTTTTTTGCGAGAT	[12, 4, 12, 5, 0, 0, 7, 5]
3168	GACAGGGAGAATATGGAAAGACTGTTTTTTTTT	[12, 4, 12, 5, 7, 4, 0, 0]
3169	TTTTTTTTGCTCGACAAGCTCTGTTCCTATGA	[12, 6, 0, 0, 27, 6, 27, 7]
3170	GGTCAGAATTTTTTTTAGCTCTGTTCCTATGA	[0, 0, 12, 7, 27, 6, 27, 7]
3171	GGTCAGAAGCTCGACATTTTTTTTTCCTATGA	[12, 6, 12, 7, 0, 0, 27, 7]
3172	GGTCAGAAGCTCGACAAGCTCTGTTTTTTTTT	[12, 6, 12, 7, 27, 6, 0, 0]
3173	TTTTTTTTTGAGCTTTGAGTCGGCCTGACAGA	[12, 8, 0, 0, 7, 8, 7, 9]
3174	CCCCCAAGTTTTTTTTGAGTCGGCCTGACAGA	[0, 0, 12, 9, 7, 8, 7, 9]
3175	CCCCCAAGTGAGCTTTTTTTTTTCTGACAGA	[12, 8, 12, 9, 0, 0, 7, 9]
3176	CCCCCAAGTGAGCTTTGAGTCGGCTTTTTTTT	[12, 8, 12, 9, 7, 8, 0, 0]
3177	TTTTTTTTACGCTTAGCGCCCACTCTATGAAC	[14, 2, 0, 0, 25, 2, 25, 3]
3178	TCATCCGGTTTTTTTTCGCCCACTCTATGAAC	[0, 0, 14, 3, 25, 2, 25, 3]
3179	TCATCCGGACGCTTAGTTTTTTTTCTATGAAC	[14, 2, 14, 3, 0, 0, 25, 3]
3180	TCATCCGGACGCTTAGCGCCCACTTTTTTTTT	[14, 2, 14, 3, 25, 2, 0, 0]
3181	TTTTTTTTTTCATAACACACTGACACCCTTTT	[14, 4, 0, 0, 5, 4, 5, 5]
3182	GGCGCATATTTTTTTTACACTGACACCCTTTT	[0, 0, 14, 5, 5, 4, 5, 5]
3183	GGCGCATATTCATAACTTTTTTTTACCCTTTT	[14, 4, 14, 5, 0, 0, 5, 5]
3184	GGCGCATATTCATAACACACTGACTTTTTTTT	[14, 4, 14, 5, 5, 4, 0, 0]
3185	TTTTTTTTGGATATCGCAGCCCATTACCCACA	[14, 6, 0, 0, 25, 6, 25, 7]
3186	CCTATCTTTTTTTTTTCAGCCCATTACCCACA	[0, 0, 14, 7, 25, 6, 25, 7]
3187	CCTATCTTGGATATCGTTTTTTTTTTACCCACA	[14, 6, 14, 7, 0, 0, 25, 7]
3188	CCTATCTTGGATATCGCAGCCCATTTTTTTTT	[14, 6, 14, 7, 25, 6, 0, 0]
3189	TTTTTTTTGCTGTGACCAGAGCCGAGGTCAGG	[14, 8, 0, 0, 5, 8, 5, 9]
3190	AGCTGTTCTTTTTTTTCAGAGCCGAGGTCAGG	[0, 0, 14, 9, 5, 8, 5, 9]
3191	AGCTGTTCGCTGTGACTTTTTTTTAGGTCAGG	[14, 8, 14, 9, 0, 0, 5, 9]
3192	AGCTGTTCGCTGTGACCAGAGCCGTTTTTTTT	[14, 8, 14, 9, 5, 8, 0, 0]
3193	TTTTTTTTCCCCGTCTCCAAACCAAATTGTG	[16, 2, 0, 0, 23, 2, 23, 3]
3194	CTAACGATTTTTTTTTTCCAAACCAAATTGTG	[0, 0, 16, 3, 23, 2, 23, 3]
3195	CTAACGATTCCCCGTCTTTTTTTTAAATTGTG	[16, 2, 16, 3, 0, 0, 23, 3]
3196	CTAACGATTCCCCGTCTCCAAACCTTTTTTTT	[16, 2, 16, 3, 23, 2, 0, 0]
3197	TTTTTTTTTCGAGAAAGCACCGAAAAAAGCCC	[16, 4, 0, 0, 3, 4, 3, 5]
3198	AGATTGTATTTTTTTTTGCACCGAAAAAAGCCC	[0, 0, 16, 5, 3, 4, 3, 5]
3199	AGATTGTATCGAGAAATTTTTTTTAAAAGCCC	[16, 4, 16, 5, 0, 0, 3, 5]
3200	AGATTGTATCGAGAAAGCACCGAATTTTTTTT	[16, 4, 16, 5, 3, 4, 0, 0]
3201	TTTTTTTTTTACTTCGTGCCCATGGTGACACG	[16, 6, 0, 0, 23, 6, 23, 7]
3202	ATCAGTTATTTTTTTTTGCCCATGGTGACACG	[0, 0, 16, 7, 23, 6, 23, 7]
3203	ATCAGTTATTACTTCGTTTTTTTTGTGACACG	[16, 6, 16, 7, 0, 0, 23, 7]
3204	ATCAGTTATTACTTCGTGCCCATGTTTTTTTT	[16, 6, 16, 7, 23, 6, 0, 0]
3205	TTTTTTTTAGGAGAAAAACAGCATGGCTTCAT	[16, 8, 0, 0, 3, 8, 3, 9]
3206	GTCCAACATTTTTTTTAACAGCATGGCTTCAT	[0, 0, 16, 9, 3, 8, 3, 9]
3207	GTCCAACAAGGAGAAATTTTTTTTGGCTTCAT	[16, 8, 16, 9, 0, 0, 3, 9]
3208	GTCCAACAAGGAGAAAAACAGCATTTTTTTTT	[16, 8, 16, 9, 3, 8, 0, 0]
3209	TTTTTTTTTGATAATCTCCCACGTACAACATA	[18, 2, 0, 0, 21, 2, 21, 3]
3210	AGGTGGCCTTTTTTTTTTCCCACGTACAACATA	[0, 0, 18, 3, 21, 2, 21, 3]
3211	AGGTGGCCTGATAATCTTTTTTTTTACAACATA	[18, 2, 18, 3, 0, 0, 21, 3]
3212	AGGTGGCCTGATAATCTCCCACGTTTTTTTTT	[18, 2, 18, 3, 21, 2, 0, 0]
3213	TTTTTTTTCCCGAGCCAGTTCGTATATGCTCT	[18, 4, 0, 0, 1, 4, 1, 5]
3214	CTACCGCTTTTTTTTTTAGTTCGTATATGCTCT	[0, 0, 18, 5, 1, 4, 1, 5]
3215	CTACCGCTCCCGAGCCTTTTTTTTTATGCTCT	[18, 4, 18, 5, 0, 0, 1, 5]
3216	CTACCGCTCCCGAGCCAGTTCGTATTTTTTTT	[18, 4, 18, 5, 1, 4, 0, 0]
3217	TTTTTTTTGTGGGAGGTAATTAGTACGGCCAC	[18, 6, 0, 0, 21, 6, 21, 7]
3218	CTTGACGATTTTTTTTTTAATTAGTACGGCCAC	[0, 0, 18, 7, 21, 6, 21, 7]
3219	CTTGACGAGTGGGAGGTTTTTTTTTACGGCCAC	[18, 6, 18, 7, 0, 0, 21, 7]
3220	CTTGACGAGTGGGAGGTAATTAGTTTTTTTTT	[18, 6, 18, 7, 21, 6, 0, 0]
3221	TTTTTTTTAAAGCAGGGATACTTTGAAAAGGC	[18, 8, 0, 0, 1, 8, 1, 9]
3222	GACCATAGTTTTTTTTGATACTTTGAAAAGGC	[0, 0, 18, 9, 1, 8, 1, 9]
3223	GACCATAGAAAGCAGGTTTTTTTTGAAAAGGC	[18, 8, 18, 9, 0, 0, 1, 9]
3224	GACCATAGAAAGCAGGGATACTTTTTTTTTTT	[18, 8, 18, 9, 1, 8, 0, 0]
3225	TTTTTTTTACCATACCAACGGCGAATAAAAGC	[20, 2, 0, 0, 39, 2, 39, 3]
3226	AATGCACATTTTTTTTAACGGCGAATAAAAGC	[0, 0, 20, 3, 39, 2, 39, 3]
3227	AATGCACAACCATACCTTTTTTTTATAAAAGC	[20, 2, 20, 3, 0, 0, 39, 3]
3228	AATGCACAACCATACCAACGGCGATTTTTTTT	[20, 2, 20, 3, 39, 2, 0, 0]
3229	TTTTTTTTTCACGTGGCCTCTCCCTGCCGAGG	[20, 4, 0, 0, 19, 4, 19, 5]
3230	CGTGCACATTTTTTTTCCTCTCCCTGCCGAGG	[0, 0, 20, 5, 19, 4, 19, 5]
3231	CGTGCACATCACGTGGTTTTTTTTTGCCGAGG	[20, 4, 20, 5, 0, 0, 19, 5]
3232	CGTGCACATCACGTGGCCTCTCCCTTTTTTTT	[20, 4, 20, 5, 19, 4, 0, 0]
3233	TTTTTTTTATCCCTGAACGGGGTTGGGGCATA	[20, 6, 0, 0, 39, 6, 39, 7]

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3234	AGTACGACTTTTTTTTACGGGGTTGGGGCATA	[0, 0, 20, 7, 39, 6, 39, 7]
3235	AGTACGACATCCCTGATTTTTTTTGGGGCATA	[20, 6, 20, 7, 0, 0, 39, 7]
3236	AGTACGACATCCCTGAACGGGGTTTTTTTTTT	[20, 6, 20, 7, 39, 6, 0, 0]
3237	TTTTTTTTTTGCTTTAGAGGCGGCATCGGGTT	[20, 8, 0, 0, 19, 8, 19, 9]
3238	AGTATAGTTTTTTTTTGAGGCGGCATCGGGTT	[0, 0, 20, 9, 19, 8, 19, 9]
3239	AGTATAGTTTGCTTTATTTTTTTTATCGGGTT	[20, 8, 20, 9, 0, 0, 19, 9]
3240	AGTATAGTTTGCTTTAGAGGCGGCTTTTTTTT	[20, 8, 20, 9, 19, 8, 0, 0]
3241	TTTTTTTTGCAACCTAGGTAGGTTCCGCCGCA	[22, 2, 0, 0, 37, 2, 37, 3]
3242	CACTTGAGTTTTTTTTGGTAGGTTCCGCCGCA	[0, 0, 22, 3, 37, 2, 37, 3]
3243	CACTTGAGGCAACCTATTTTTTTTCCGCCGCA	[22, 2, 22, 3, 0, 0, 37, 3]
3244	CACTTGAGGCAACCTAGGTAGGTTTTTTTTTT	[22, 2, 22, 3, 37, 2, 0, 0]
3245	TTTTTTTTACTGTTAGGGTACACGGCCTGTTT	[22, 4, 0, 0, 17, 4, 17, 5]
3246	CAGGCTACTTTTTTTTTGGTACACGGCCTGTTT	[0, 0, 22, 5, 17, 4, 17, 5]
3247	CAGGCTACACTGTTAGTTTTTTTTGCCTGTTT	[22, 4, 22, 5, 0, 0, 17, 5]
3248	CAGGCTACACTGTTAGGGTACACGTTTTTTTT	[22, 4, 22, 5, 17, 4, 0, 0]
3249	TTTTTTTTGCGCGCCTTCAAGGCCCGACATCC	[22, 6, 0, 0, 37, 6, 37, 7]
3250	ATGTAGCATTTTTTTTTCAAGGCCCGACATCC	[0, 0, 22, 7, 37, 6, 37, 7]
3251	ATGTAGCAGCGCGCCTTTTTTTTTCGACATCC	[22, 6, 22, 7, 0, 0, 37, 7]
3252	ATGTAGCAGCGCGCCTTCAAGGCCTTTTTTTT	[22, 6, 22, 7, 37, 6, 0, 0]
3253	TTTTTTTTAGAAACTGTAGGTTAAATCAGCTA	[22, 8, 0, 0, 17, 8, 17, 9]
3254	TATGGTTTTTTTTTTTTAGGTTAAATCAGCTA	[0, 0, 22, 9, 17, 8, 17, 9]
3255	TATGGTTTAGAAACTGTTTTTTTTATCAGCTA	[22, 8, 22, 9, 0, 0, 17, 9]
3256	TATGGTTTAGAAACTGTAGGTTAATTTTTTTT	[22, 8, 22, 9, 17, 8, 0, 0]
3257	TTTTTTTTGGAGCACTTCGCAACGAGGACGAT	[24, 2, 0, 0, 35, 2, 35, 3]
3258	CGAATCAATTTTTTTTTCGCAACGAGGACGAT	[0, 0, 24, 3, 35, 2, 35, 3]
3259	CGAATCAAGGAGCACTTTTTTTTTAGGACGAT	[24, 2, 24, 3, 0, 0, 35, 3]
3260	CGAATCAAGGAGCACTTCGCAACGTTTTTTTT	[24, 2, 24, 3, 35, 2, 0, 0]
3261	TTTTTTTTTATGTGATGTCGCATATATCCCAA	[24, 4, 0, 0, 15, 4, 15, 5]
3262	ACTGTACGTTTTTTTTGTCGCATATATCCCAA	[0, 0, 24, 5, 15, 4, 15, 5]
3263	ACTGTACGTATGTGATTTTTTTTTTATCCCAA	[24, 4, 24, 5, 0, 0, 15, 5]
3264	ACTGTACGTATGTGATGTCGCATATTTTTTTT	[24, 4, 24, 5, 15, 4, 0, 0]
3265	TTTTTTTTGGTTGGTTCGGCATGCGGTCTAAA	[24, 6, 0, 0, 35, 6, 35, 7]
3266	ATATCAAGTTTTTTTTCGGCATGCGGTCTAAA	[0, 0, 24, 7, 35, 6, 35, 7]
3267	ATATCAAGGGTTGGTTTTTTTTTTGGTCTAAA	[24, 6, 24, 7, 0, 0, 35, 7]
3268	ATATCAAGGGTTGGTTCGGCATGCTTTTTTTT	[24, 6, 24, 7, 35, 6, 0, 0]
3269	TTTTTTTTGTCCCTCAGCTATGCTAGGTAGAG	[24, 8, 0, 0, 15, 8, 15, 9]
3270	CATATATTTTTTTTTTGCTATGCTAGGTAGAG	[0, 0, 24, 9, 15, 8, 15, 9]
3271	CATATATTGTCCCTCATTTTTTTTAGGTAGAG	[24, 8, 24, 9, 0, 0, 15, 9]
3272	CATATATTGTCCCTCAGCTATGCTTTTTTTT	[24, 8, 24, 9, 15, 8, 0, 0]
3273	TTTTTTTTGAGGATGTACTTGGGATTAGGATC	[26, 2, 0, 0, 33, 2, 33, 3]
3274	CTAATGAATTTTTTTTACTTGGGATTAGGATC	[0, 0, 26, 3, 33, 2, 33, 3]
3275	CTAATGAAGAGGATGTTTTTTTTTTTAGGATC	[26, 2, 26, 3, 0, 0, 33, 3]
3276	CTAATGAAGAGGATGTACTTGGGATTTTTTTT	[26, 2, 26, 3, 33, 2, 0, 0]
3277	TTTTTTTTTTCCGCCCTGGAGTTAGATGTCCG	[26, 4, 0, 0, 13, 4, 13, 5]
3278	CGACCATGTTTTTTTTTGGAGTTAGATGTCCG	[0, 0, 26, 5, 13, 4, 13, 5]
3279	CGACCATGTTCCGCCCTTTTTTTTGATGTCCG	[26, 4, 26, 5, 0, 0, 13, 5]
3280	CGACCATGTTCCGCCCTGGAGTTATTTTTTTT	[26, 4, 26, 5, 13, 4, 0, 0]
3281	TTTTTTTTCAGTAGAAAGCCTACGTCCGTGCA	[26, 6, 0, 0, 33, 6, 33, 7]
3282	CTCGGCCCTTTTTTTTAGCCTACGTCCGTGCA	[0, 0, 26, 7, 33, 6, 33, 7]
3283	CTCGGCCCCAGTAGAATTTTTTTTCCGTGCA	[26, 6, 26, 7, 0, 0, 33, 7]
3284	CTCGGCCCCAGTAGAAAGCCTACGTTTTTTTT	[26, 6, 26, 7, 33, 6, 0, 0]
3285	TTTTTTTTGCCCAGCGGTTTGAACCTGTTTAC	[26, 8, 0, 0, 13, 8, 13, 9]
3286	AATAAGGATTTTTTTTTGTTTGAACCTGTTTAC	[0, 0, 26, 9, 13, 8, 13, 9]
3287	AATAAGGAGCCCAGCGTTTTTTTTCTGTTTAC	[26, 8, 26, 9, 0, 0, 13, 9]
3288	AATAAGGAGCCCAGCGGTTTGAACTTTTTTTT	[26, 8, 26, 9, 13, 8, 0, 0]
3289	TTTTTTTTTAAGCCACAGAGTATAGATGGCCG	[28, 2, 0, 0, 31, 2, 31, 3]
3290	TACTAAAATTTTTTTTTAGAGTATAGATGGCCG	[0, 0, 28, 3, 31, 2, 31, 3]
3291	TACTAAAATAAGCCACTTTTTTTTGATGGCCG	[28, 2, 28, 3, 0, 0, 31, 3]
3292	TACTAAAATAAGCCACAGAGTATATTTTTTTT	[28, 2, 28, 3, 31, 2, 0, 0]
3293	TTTTTTTTTGGGTGTTCCAAGTCAGCCCCTCG	[28, 4, 0, 0, 11, 4, 11, 5]
3294	GGAGGCGGTTTTTTTTTCCAAGTCAGCCCCTCG	[0, 0, 28, 5, 11, 4, 11, 5]
3295	GGAGGCGGTGGGTGTTTTTTTTTTGCCCCTCG	[28, 4, 28, 5, 0, 0, 11, 5]
3296	GGAGGCGGTGGGTGTTCCAAGTCATTTTTTTT	[28, 4, 28, 5, 11, 4, 0, 0]
3297	TTTTTTTTTGACTACCGATTGCCGTAAATGGT	[28, 6, 0, 0, 31, 6, 31, 7]
3298	TAGTTTGATTTTTTTTGATTGCCGTAAATGGT	[0, 0, 28, 7, 31, 6, 31, 7]
3299	TAGTTTGATGACTACCTTTTTTTTTAAATGGT	[28, 6, 28, 7, 0, 0, 31, 7]
3300	TAGTTTGATGACTACCGATTGCCGTTTTTTTT	[28, 6, 28, 7, 31, 6, 0, 0]
3301	TTTTTTTTGCTGTATTGTCGCTGGCTAATCAC	[28, 8, 0, 0, 11, 8, 11, 9]
3302	TTTTTGTCTTTTTTTTGTCGCTGGCTAATCAC	[0, 0, 28, 9, 11, 8, 11, 9]
3303	TTTTTGTCGCTGTATTTTTTTTTTCTAATCAC	[28, 8, 28, 9, 0, 0, 11, 9]
3304	TTTTTGTCGCTGTATTGTCGCTGGTTTTTTTT	[28, 8, 28, 9, 11, 8, 0, 0]
3305	TTTTTTTTGCTGTTCAACACTAATCCGGGTAT	[30, 2, 0, 0, 49, 2, 49, 3]
3306	TAGTCCACTTTTTTTTACACTAATCCGGGTAT	[0, 0, 30, 3, 49, 2, 49, 3]
3307	TAGTCCACGCTGTTCATTTTTTTTCCGGGTAT	[30, 2, 30, 3, 0, 0, 49, 3]
3308	TAGTCCACGCTGTTCAACACTAATTTTTTTTT	[30, 2, 30, 3, 49, 2, 0, 0]
3309	TTTTTTTTGCGCTTTCCGTCTTAAACGACTTT	[30, 4, 0, 0, 29, 4, 29, 5]
3310	CCGCACGTTTTTTTTTCGTCTTAAACGACTTT	[0, 0, 30, 5, 29, 4, 29, 5]
3311	CCGCACGTGCGCTTTCTTTTTTTTACGACTTT	[30, 4, 30, 5, 0, 0, 29, 5]
3312	CCGCACGTGCGCTTTCCGTCTTAATTTTTTTT	[30, 4, 30, 5, 29, 4, 0, 0]
3313	TTTTTTTTAGGAGAAGCACGACGACGGGAATT	[30, 6, 0, 0, 49, 6, 49, 7]

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3314	CCTACTCTTTTTTTTTCACGACGACGGGAATT	[0, 0, 30, 7, 49, 6, 49, 7]
3315	CCTACTCTAGGAGAAGTTTTTTTTCGGGAATT	[30, 6, 30, 7, 0, 0, 49, 7]
3316	CCTACTCTAGGAGAAGCACGACGATTTTTTTT	[30, 6, 30, 7, 49, 6, 0, 0]
3317	TTTTTTTTGCACTGCCTTCCGCGTGGGTATAG	[30, 8, 0, 0, 29, 8, 29, 9]
3318	GGCGATACTTTTTTTTTTCCGCGTGGGTATAG	[0, 0, 30, 9, 29, 8, 29, 9]
3319	GGCGATACGCACTGCCTTTTTTTTTGGGTATAG	[30, 8, 30, 9, 0, 0, 29, 9]
3320	GGCGATACGCACTGCCTTCCGCGTTTTTTTTT	[30, 8, 30, 9, 29, 8, 0, 0]
3321	TTTTTTTTAGTGGAGCTGTCGTATAATGGGTA	[32, 2, 0, 0, 47, 2, 47, 3]
3322	CAGAAACTTTTTTTTTTGTCGTATAATGGGTA	[0, 0, 32, 3, 47, 2, 47, 3]
3323	CAGAAACTAGTGGAGCTTTTTTTTAATGGGTA	[32, 2, 32, 3, 0, 0, 47, 3]
3324	CAGAAACTAGTGGAGCTGTCGTATTTTTTTTT	[32, 2, 32, 3, 47, 2, 0, 0]
3325	TTTTTTTTAGGTCTACGTGTCAAGGGAAGTTC	[32, 4, 0, 0, 27, 4, 27, 5]
3326	GAGGTAGCTTTTTTTTTGTGTCAAGGGAAGTTC	[0, 0, 32, 5, 27, 4, 27, 5]
3327	GAGGTAGCAGGTCTACTTTTTTTTGGAAGTTC	[32, 4, 32, 5, 0, 0, 27, 5]
3328	GAGGTAGCAGGTCTACGTGTCAAGTTTTTTTT	[32, 4, 32, 5, 27, 4, 0, 0]
3329	TTTTTTTTGCGTATCGTCCTCGGTAGGGTGTA	[32, 6, 0, 0, 47, 6, 47, 7]
3330	ACTCTCGTTTTTTTTTTCCTCGGTAGGGTGTA	[0, 0, 32, 7, 47, 6, 47, 7]
3331	ACTCTCGTGCGTATCGTTTTTTTTAGGGTGTA	[32, 6, 32, 7, 0, 0, 47, 7]
3332	ACTCTCGTGCGTATCGTCCTCGGTTTTTTTTT	[32, 6, 32, 7, 47, 6, 0, 0]
3333	TTTTTTTTATGCCAGCTCATACGACAAGAACT	[32, 8, 0, 0, 27, 8, 27, 9]
3334	CGAGATGTTTTTTTTTTCATACGACAAGAACT	[0, 0, 32, 9, 27, 8, 27, 9]
3335	CGAGATGTATGCCAGCTTTTTTTTCAAGAACT	[32, 8, 32, 9, 0, 0, 27, 9]
3336	CGAGATGTATGCCAGCTCATACGATTTTTTTT	[32, 8, 32, 9, 27, 8, 0, 0]
3337	TTTTTTTTTCTCATAAAAACCGTTATGGTTTC	[34, 2, 0, 0, 45, 2, 45, 3]
3338	CGTCGTCTTTTTTTTTAAACCGTTATGGTTTC	[0, 0, 34, 3, 45, 2, 45, 3]
3339	CGTCGTCTTCTCATAATTTTTTTTATGGTTTC	[34, 2, 34, 3, 0, 0, 45, 3]
3340	CGTCGTCTTCTCATAAAAACCGTTTTTTTTTT	[34, 2, 34, 3, 45, 2, 0, 0]
3341	TTTTTTTTAGGAGATCTAACTAAGTGGGGCAC	[34, 4, 0, 0, 25, 4, 25, 5]
3342	TGGATATCTTTTTTTTTAACTAAGTGGGGCAC	[0, 0, 34, 5, 25, 4, 25, 5]
3343	TGGATATCAGGAGATCTTTTTTTTTGGGGCAC	[34, 4, 34, 5, 0, 0, 25, 5]
3344	TGGATATCAGGAGATCTAACTAAGTTTTTTTT	[34, 4, 34, 5, 25, 4, 0, 0]
3345	TTTTTTTTATGTACCGAACAGTGAGCTATTCG	[34, 6, 0, 0, 45, 6, 45, 7]
3346	TCAAGCTGTTTTTTTTAACAGTGAGCTATTCG	[0, 0, 34, 7, 45, 6, 45, 7]
3347	TCAAGCTGATGTACCGTTTTTTTTGCTATTCG	[34, 6, 34, 7, 0, 0, 45, 7]
3348	TCAAGCTGATGTACCGAACAGTGATTTTTTTT	[34, 6, 34, 7, 45, 6, 0, 0]
3349	TTTTTTTTGTCTTGCGGGTACACCTCACTTGC	[34, 8, 0, 0, 25, 8, 25, 9]
3350	CCCCAAGTTTTTTTTTGGTACACCTCACTTGC	[0, 0, 34, 9, 25, 8, 25, 9]
3351	CCCCAAGTGTCTTGCGTTTTTTTTTCACTTGC	[34, 8, 34, 9, 0, 0, 25, 9]
3352	CCCCAAGTGTCTTGCGGGTACACCTTTTTTTT	[34, 8, 34, 9, 25, 8, 0, 0]
3353	TTTTTTTTGCTACATGGCAGTCCGATGTTGGG	[36, 2, 0, 0, 43, 2, 43, 3]
3354	TCGTACAGTTTTTTTTGCAGTCCGATGTTGGG	[0, 0, 36, 3, 43, 2, 43, 3]
3355	TCGTACAGGCTACATGTTTTTTTTATGTTGGG	[36, 2, 36, 3, 0, 0, 43, 3]
3356	TCGTACAGGCTACATGGCAGTCCGTTTTTTTT	[36, 2, 36, 3, 43, 2, 0, 0]
3357	TTTTTTTTGGACTCATCCTACAATAGCTTTAT	[36, 4, 0, 0, 23, 4, 23, 5]
3358	TATTTGACTTTTTTTTCCTACAATAGCTTTAT	[0, 0, 36, 5, 23, 4, 23, 5]
3359	TATTTGACGGACTCATTTTTTTTTAGCTTTAT	[36, 4, 36, 5, 0, 0, 23, 5]
3360	TATTTGACGGACTCATCCTACAATTTTTTTTT	[36, 4, 36, 5, 23, 4, 0, 0]
3361	TTTTTTTTAGCACGCATTTCAACTTCTTGCCA	[36, 6, 0, 0, 43, 6, 43, 7]
3362	TGTGGGCTTTTTTTTTTTTCAACTTCTTGCCA	[0, 0, 36, 7, 43, 6, 43, 7]
3363	TGTGGGCTAGCACGCATTTTTTTTTCTTGCCA	[36, 6, 36, 7, 0, 0, 43, 7]
3364	TGTGGGCTAGCACGCATTTCAACTTTTTTTTT	[36, 6, 36, 7, 43, 6, 0, 0]
3365	TTTTTTTTTGTCAAGTGTGCAGCTATCCGAAT	[36, 8, 0, 0, 23, 8, 23, 9]
3366	CTAGGACCTTTTTTTTTGTGCAGCTATCCGAAT	[0, 0, 36, 9, 23, 8, 23, 9]
3367	CTAGGACCTGTCAAGTTTTTTTTTATCCGAAT	[36, 8, 36, 9, 0, 0, 23, 9]
3368	CTAGGACCTGTCAAGTGTGCAGCTTTTTTTTT	[36, 8, 36, 9, 23, 8, 0, 0]
3369	TTTTTTTTTAACCCTTTAAGCGCGCACCCGTT	[38, 2, 0, 0, 41, 2, 41, 3]
3370	TACGCTATTTTTTTTTTTAAGCGCGCACCCGTT	[0, 0, 38, 3, 41, 2, 41, 3]
3371	TACGCTATTAACCCTTTTTTTTTTCACCCGTT	[38, 2, 38, 3, 0, 0, 41, 3]
3372	TACGCTATTAACCCTTTAAGCGCGTTTTTTTT	[38, 2, 38, 3, 41, 2, 0, 0]
3373	TTTTTTTTGTCCGGTCGTGGGTAAGTTATGGA	[38, 4, 0, 0, 21, 4, 21, 5]
3374	GTGGGAGATTTTTTTTTGTGGGTAAGTTATGGA	[0, 0, 38, 5, 21, 4, 21, 5]
3375	GTGGGAGAGTCCGGTCTTTTTTTTGTTATGGA	[38, 4, 38, 5, 0, 0, 21, 5]
3376	GTGGGAGAGTCCGGTCGTGGGTAATTTTTTTTT	[38, 4, 38, 5, 21, 4, 0, 0]
3377	TTTTTTTTTTGGACGGGCCTGGCCCTACTTCA	[38, 6, 0, 0, 41, 6, 41, 7]
3378	AGAACCGGTTTTTTTTTGCCTGGCCCTACTTCA	[0, 0, 38, 7, 41, 6, 41, 7]
3379	AGAACCGGTTGGACGGTTTTTTTTCTACTTCA	[38, 6, 38, 7, 0, 0, 41, 7]
3380	AGAACCGGTTGGACGGGCCTGGCCTTTTTTTT	[38, 6, 38, 7, 41, 6, 0, 0]
3381	TTTTTTTTACTCTAGCCGGTGAGATTCCCCAG	[38, 8, 0, 0, 21, 8, 21, 9]
3382	CCATGAAATTTTTTTTCGGTGAGATTCCCCAG	[0, 0, 38, 9, 21, 8, 21, 9]
3383	CCATGAAAACTCTAGCTTTTTTTTTCCCCAG	[38, 8, 38, 9, 0, 0, 21, 9]
3384	CCATGAAAACTCTAGCCGGTGAGATTTTTTTT	[38, 8, 38, 9, 21, 8, 0, 0]
3385	TTTTTTTTTCGCGTCGCCACAAAGGGTGTCAG	[40, 2, 0, 0, 59, 2, 59, 3]
3386	TACTTGAATTTTTTTTCCACAAAGGGTGTCAG	[0, 0, 40, 3, 59, 2, 59, 3]
3387	TACTTGAATCGCGTCGTTTTTTTTGGTGTCAG	[40, 2, 40, 3, 0, 0, 59, 3]
3388	TACTTGAATCGCGTCGCCACAAAGTTTTTTTT	[40, 2, 40, 3, 59, 2, 0, 0]
3389	TTTTTTTTTCACCGAACGTACGCATACGATTT	[40, 4, 0, 0, 39, 4, 39, 5]
3390	GCGCCAGATTTTTTTTCGTACGCATACGATTT	[0, 0, 40, 5, 39, 4, 39, 5]
3391	GCGCCAGATCACCGAATTTTTTTTTACGATTT	[40, 4, 40, 5, 0, 0, 39, 5]
3392	GCGCCAGATCACCGAACGTACGCATTTTTTTT	[40, 4, 40, 5, 39, 4, 0, 0]
3393	TTTTTTTTGTCCTCACCTCTCCGCCATATTGT	[40, 6, 0, 0, 59, 6, 59, 7]

Strand	Sequence	Voxel
3394	CGGGGAGGTTTTTTTTCTCTCCGCCATATTGT	[0, 0, 40, 7, 59, 6, 59, 7]
3395	CGGGGAGGGTCCTCACTTTTTTTTCATATTGT	[40, 6, 40, 7, 0, 0, 59, 7]
3396	CGGGGAGGGTCCTCACCTCTCCGCTTTTTTTT	[40, 6, 40, 7, 59, 6, 0, 0]
3397	TTTTTTTTTTGTAATGACGACTCTCATCTGAT	[40, 8, 0, 0, 39, 8, 39, 9]
3398	AGCAGGTCTTTTTTTTTACGACTCTCATCTGAT	[0, 0, 40, 9, 39, 8, 39, 9]
3399	AGCAGGTCTTGTAATGTTTTTTTTTCATCTGAT	[40, 8, 40, 9, 0, 0, 39, 9]
3400	AGCAGGTCTTGTAATGACGACTCTTTTTTTTT	[40, 8, 40, 9, 39, 8, 0, 0]
3401	TTTTTTTTGTTAATGCGTGCATCTACATGGTC	[42, 2, 0, 0, 57, 2, 57, 3]
3402	AATTCATCTTTTTTTTTGTGCATCTACATGGTC	[0, 0, 42, 3, 57, 2, 57, 3]
3403	AATTCATCGTTAATGCTTTTTTTTTACATGGTC	[42, 2, 42, 3, 0, 0, 57, 3]
3404	AATTCATCGTTAATGCGTGCATCTTTTTTTTT	[42, 2, 42, 3, 57, 2, 0, 0]
3405	TTTTTTTTCCGAACGAGGAACTTGATGTCATG	[42, 4, 0, 0, 37, 4, 37, 5]
3406	TGCTTATCTTTTTTTTTGGAACTTGATGTCATG	[0, 0, 42, 5, 37, 4, 37, 5]
3407	TGCTTATCCCGAACGATTTTTTTTATGTCATG	[42, 4, 42, 5, 0, 0, 37, 5]
3408	TGCTTATCCCGAACGAGGAACTTGTTTTTTTT	[42, 4, 42, 5, 37, 4, 0, 0]
3409	TTTTTTTTGGTCCTTCAATTAGAAGTCGAATT	[42, 6, 0, 0, 57, 6, 57, 7]
3410	AAAGCTTCTTTTTTTTTAATTAGAAGTCGAATT	[0, 0, 42, 7, 57, 6, 57, 7]
3411	AAAGCTTCGGTCCTTCTTTTTTTTGTCGAATT	[42, 6, 42, 7, 0, 0, 57, 7]
3412	AAAGCTTCGGTCCTTCAATTAGAATTTTTTTT	[42, 6, 42, 7, 57, 6, 0, 0]
3413	TTTTTTTTGGCTAGAATGCTGGTGAAAGATAC	[42, 8, 0, 0, 37, 8, 37, 9]
3414	ATTAATACTTTTTTTTTTGCTGGTGAAAGATAC	[0, 0, 42, 9, 37, 8, 37, 9]
3415	ATTAATACGGCTAGAATTTTTTTTTAAAGATAC	[42, 8, 42, 9, 0, 0, 37, 9]
3416	ATTAATACGGCTAGAATGCTGGTGTTTTTTTT	[42, 8, 42, 9, 37, 8, 0, 0]
3417	TTTTTTTTGACTTGATTGTTTTCGCTAGGTGG	[44, 2, 0, 0, 55, 2, 55, 3]
3418	CGTCACTTTTTTTTTTTGTTTTCGCTAGGTGG	[0, 0, 44, 3, 55, 2, 55, 3]
3419	CGTCACTTGACTTGATTTTTTTTTCTAGGTGG	[44, 2, 44, 3, 0, 0, 55, 3]
3420	CGTCACTTGACTTGATTGTTTTCGTTTTTTTT	[44, 2, 44, 3, 55, 2, 0, 0]
3421	TTTTTTTTGCTGAGGACTCGTTCGGGTGCTAC	[44, 4, 0, 0, 35, 4, 35, 5]
3422	GCTTCTCGTTTTTTTTCTCGTTCGGGTGCTAC	[0, 0, 44, 5, 35, 4, 35, 5]
3423	GCTTCTCGGCTGAGGATTTTTTTTGGTGCTAC	[44, 4, 44, 5, 0, 0, 35, 5]
3424	GCTTCTCGGCTGAGGACTCGTTCGTTTTTTTT	[44, 4, 44, 5, 35, 4, 0, 0]
3425	TTTTTTTTATCTATACCGGGTGTCCCTCAAGC	[44, 6, 0, 0, 55, 6, 55, 7]
3426	GCCTTGTCTTTTTTTTCGGGTGTCCCTCAAGC	[0, 0, 44, 7, 55, 6, 55, 7]
3427	GCCTTGTCATCTATACTTTTTTTTCCTCAAGC	[44, 6, 44, 7, 0, 0, 55, 7]
3428	GCCTTGTCATCTATACCGGGTGTCTTTTTTTT	[44, 6, 44, 7, 55, 6, 0, 0]
3429	TTTTTTTTCTGAAGCGGCGTTAAACTGCCCAG	[44, 8, 0, 0, 35, 8, 35, 9]
3430	GAGGAGCGTTTTTTTTTGCGTTAAACTGCCCAG	[0, 0, 44, 9, 35, 8, 35, 9]
3431	GAGGAGCGCTGAAGCGTTTTTTTTCTGCCCAG	[44, 8, 44, 9, 0, 0, 35, 9]
3432	GAGGAGCGCTGAAGCGGCGTTAAATTTTTTTT	[44, 8, 44, 9, 35, 8, 0, 0]
3433	TTTTTTTTTGACATCGTCTGATGGATCTCAGC	[46, 2, 0, 0, 53, 2, 53, 3]
3434	ACCCGAGATTTTTTTTTCTGATGGATCTCAGC	[0, 0, 46, 3, 53, 2, 53, 3]
3435	ACCCGAGATGACATCGTTTTTTTTTATCTCAGC	[46, 2, 46, 3, 0, 0, 53, 3]
3436	ACCCGAGATGACATCGTCTGATGGTTTTTTTT	[46, 2, 46, 3, 53, 2, 0, 0]
3437	TTTTTTTTCCCGCTCGCCACATGAACCGCTCT	[46, 4, 0, 0, 33, 4, 33, 5]
3438	CCCATGGATTTTTTTTCCACATGAACCGCTCT	[0, 0, 46, 5, 33, 4, 33, 5]
3439	CCCATGGACCCGCTCGTTTTTTTTACCGCTCT	[46, 4, 46, 5, 0, 0, 33, 5]
3440	CCCATGGACCCGCTCGCCACATGATTTTTTTT	[46, 4, 46, 5, 33, 4, 0, 0]
3441	TTTTTTTTTGGTGAATACTCGCTAGTCAACTT	[46, 6, 0, 0, 53, 6, 53, 7]
3442	GCCTGTGATTTTTTTTACTCGCTAGTCAACTT	[0, 0, 46, 7, 53, 6, 53, 7]
3443	GCCTGTGATGGTGAATTTTTTTTTGTCAACTT	[46, 6, 46, 7, 0, 0, 53, 7]
3444	GCCTGTGATGGTGAATACTCGCTATTTTTTTT	[46, 6, 46, 7, 53, 6, 0, 0]
3445	TTTTTTTTCGTAGTTCGTAAACGATAGGTTTC	[46, 8, 0, 0, 33, 8, 33, 9]
3446	ACCAGTTCTTTTTTTTTGTAAACGATAGGTTTC	[0, 0, 46, 9, 33, 8, 33, 9]
3447	ACCAGTTCCGTAGTTCTTTTTTTTTAGGTTTC	[46, 8, 46, 9, 0, 0, 33, 9]
3448	ACCAGTTCCGTAGTTCGTAAACGATTTTTTTT	[46, 8, 46, 9, 33, 8, 0, 0]
3449	TTTTTTTTCACAAGGGGATTGGGTATGAAAAC	[48, 2, 0, 0, 51, 2, 51, 3]
3450	TCACAGTGTTTTTTTTTGATTGGGTATGAAAAC	[0, 0, 48, 3, 51, 2, 51, 3]
3451	TCACAGTGCACAAGGGTTTTTTTTATGAAAAC	[48, 2, 48, 3, 0, 0, 51, 3]
3452	TCACAGTGCACAAGGGGATTGGGTTTTTTTTT	[48, 2, 48, 3, 51, 2, 0, 0]
3453	TTTTTTTTGTGGAAATGCCACTACGATATTCA	[48, 4, 0, 0, 31, 4, 31, 5]
3454	CCCCGGAATTTTTTTTGCCACTACGATATTCA	[0, 0, 48, 5, 31, 4, 31, 5]
3455	CCCCGGAAGTGGAAATTTTTTTTTGATATTCA	[48, 4, 48, 5, 0, 0, 31, 5]
3456	CCCCGGAAGTGGAAATGCCACTACTTTTTTTT	[48, 4, 48, 5, 31, 4, 0, 0]
3457	TTTTTTTTTGATTTACCGAATTATGGTGTGT	[48, 6, 0, 0, 51, 6, 51, 7]
3458	GGAGAATCTTTTTTTTCCGAATTATGGTGTGT	[0, 0, 48, 7, 51, 6, 51, 7]
3459	GGAGAATCTTGATTTATTTTTTTTTGGTGTGT	[48, 6, 48, 7, 0, 0, 51, 7]
3460	GGAGAATCTTGATTTACCGAATTATTTTTTTT	[48, 6, 48, 7, 51, 6, 0, 0]
3461	TTTTTTTTGCTGCCATTCTGGTTCCCCACTGT	[48, 8, 0, 0, 31, 8, 31, 9]
3462	GCTCTAAATTTTTTTTTCTGGTTCCCCACTGT	[0, 0, 48, 9, 31, 8, 31, 9]
3463	GCTCTAAAGCTGCCATTTTTTTTTCCCACTGT	[48, 8, 48, 9, 0, 0, 31, 9]
3464	GCTCTAAAGCTGCCATTCTGGTTCTTTTTTTT	[48, 8, 48, 9, 31, 8, 0, 0]
3465	TTTTTTTTTAAGGAATCGGACGGAAAACTACA	[50, 2, 0, 0, 69, 2, 69, 3]
3466	TCTGATATTTTTTTTTCGGACGGAAAACTACA	[0, 0, 50, 3, 69, 2, 69, 3]
3467	TCTGATATTAAGGAATTTTTTTTTAAACTACA	[50, 2, 50, 3, 0, 0, 69, 3]
3468	TCTGATATTAAGGAATCGGACGGATTTTTTTT	[50, 2, 50, 3, 69, 2, 0, 0]
3469	TTTTTTTTCTGTGCTCCCCGAGTCCAGCATTA	[50, 4, 0, 0, 49, 4, 49, 5]
3470	CTGGTTTTTTTTTTTTCCCGAGTCCAGCATTA	[0, 0, 50, 5, 49, 4, 49, 5]
3471	CTGGTTTTCTGTGCTCTTTTTTTTCAGCATTA	[50, 4, 50, 5, 0, 0, 49, 5]
3472	CTGGTTTTCTGTGCTCCCCGAGTCTTTTTTTT	[50, 4, 50, 5, 49, 4, 0, 0]
3473	TTTTTTTTGATTGCGCGTAATGGTCGTAGTGG	[50, 6, 0, 0, 69, 6, 69, 7]

Strand	Sequence	Voxel
3474	CCGTAATCTTTTTTTTGTAATGGTCGTAGTGG	[0, 0, 50, 7, 69, 6, 69, 7]
3475	CCGTAATCGATTGCGCTTTTTTTTCGTAGTGG	[50, 6, 50, 7, 0, 0, 69, 7]
3476	CCGTAATCGATTGCGCGTAATGGTTTTTTTTT	[50, 6, 50, 7, 69, 6, 0, 0]
3477	TTTTTTTTCTAAGCCGTATAAAGCGTTTGGAA	[50, 8, 0, 0, 49, 8, 49, 9]
3478	TGCCATGATTTTTTTTTATAAAGCGTTTGGAA	[0, 0, 50, 9, 49, 8, 49, 9]
3479	TGCCATGACTAAGCCGTTTTTTTTTGTTTGGAA	[50, 8, 50, 9, 0, 0, 49, 9]
3480	TGCCATGACTAAGCCGTATAAAGCTTTTTTTT	[50, 8, 50, 9, 49, 8, 0, 0]
3481	TTTTTTTTAATAACTTCTGTATGAATCTATGT	[52, 2, 0, 0, 67, 2, 67, 3]
3482	ACCAATCATTTTTTTTCTGTATGAATCTATGT	[0, 0, 52, 3, 67, 2, 67, 3]
3483	ACCAATCAAATAACTTTTTTTTTTATCTATGT	[52, 2, 52, 3, 0, 0, 67, 3]
3484	ACCAATCAAATAACTTCTGTATGATTTTTTTT	[52, 2, 52, 3, 67, 2, 0, 0]
3485	TTTTTTTTTACACTAATGCGGCGCCCTGCGAA	[52, 4, 0, 0, 47, 4, 47, 5]
3486	GATAATACTTTTTTTTTGCGGCGCCCTGCGAA	[0, 0, 52, 5, 47, 4, 47, 5]
3487	GATAATACTACACTAATTTTTTTTCCTGCGAA	[52, 4, 52, 5, 0, 0, 47, 5]
3488	GATAATACTACACTAATGCGGCGCTTTTTTTT	[52, 4, 52, 5, 47, 4, 0, 0]
3489	TTTTTTTTATTGACGCCCACCTTATTACGAGT	[52, 6, 0, 0, 67, 6, 67, 7]
3490	TTCTGCTATTTTTTTTCCACCTTATTACGAGT	[0, 0, 52, 7, 67, 6, 67, 7]
3491	TTCTGCTAATTGACGCTTTTTTTTTTACGAGT	[52, 6, 52, 7, 0, 0, 67, 7]
3492	TTCTGCTAATTGACGCCCACCTTATTTTTTTT	[52, 6, 52, 7, 67, 6, 0, 0]
3493	TTTTTTTTGCAAATTATACGAGCTAGACCTGT	[52, 8, 0, 0, 47, 8, 47, 9]
3494	CTTCGTCATTTTTTTTTTACGAGCTAGACCTGT	[0, 0, 52, 9, 47, 8, 47, 9]
3495	CTTCGTCAGCAAATTATTTTTTTTAGACCTGT	[52, 8, 52, 9, 0, 0, 47, 9]
3496	CTTCGTCAGCAAATTATACGAGCTTTTTTTTT	[52, 8, 52, 9, 47, 8, 0, 0]
3497	TTTTTTTTTGACGGAGCTAGAGCTACTCGCCG	[54, 2, 0, 0, 65, 2, 65, 3]
3498	AGGAGGTGTTTTTTTTTCTAGAGCTACTCGCCG	[0, 0, 54, 3, 65, 2, 65, 3]
3499	AGGAGGTGTGACGGAGTTTTTTTTACTCGCCG	[54, 2, 54, 3, 0, 0, 65, 3]
3500	AGGAGGTGTGACGGAGCTAGAGCTTTTTTTTT	[54, 2, 54, 3, 65, 2, 0, 0]
3501	TTTTTTTTACCCTAACATAGAATATAGGTCAC	[54, 4, 0, 0, 45, 4, 45, 5]
3502	CTCCCACATTTTTTTTATAGAATATAGGTCAC	[0, 0, 54, 5, 45, 4, 45, 5]
3503	CTCCCACAACCCTAACTTTTTTTTTTAGGTCAC	[54, 4, 54, 5, 0, 0, 45, 5]
3504	CTCCCACAACCCTAACATAGAATATTTTTTTT	[54, 4, 54, 5, 45, 4, 0, 0]
3505	TTTTTTTTTAATGATCTGTACCATTATCAAAG	[54, 6, 0, 0, 65, 6, 65, 7]
3506	GGACTATTTTTTTTTTTGTACCATTATCAAAG	[0, 0, 54, 7, 65, 6, 65, 7]
3507	GGACTATTTAATGATCTTTTTTTTTTATCAAAG	[54, 6, 54, 7, 0, 0, 65, 7]
3508	GGACTATTTAATGATCTGTACCATTTTTTTTT	[54, 6, 54, 7, 65, 6, 0, 0]
3509	TTTTTTTTCATTTCTTCGCGGAACTTTAAACC	[54, 8, 0, 0, 45, 8, 45, 9]
3510	AGTAATTGTTTTTTTTCGCGGAACTTTAAACC	[0, 0, 54, 9, 45, 8, 45, 9]
3511	AGTAATTGCATTTCTTTTTTTTTTTTTAAACC	[54, 8, 54, 9, 0, 0, 45, 9]
3512	AGTAATTGCATTTCTTCGCGGAACTTTTTTTT	[54, 8, 54, 9, 45, 8, 0, 0]
3513	TTTTTTTTTCGCTTTTTAACACTTGGTCTCGA	[56, 2, 0, 0, 63, 2, 63, 3]
3514	TACTGGAGTTTTTTTTTAACACTTGGTCTCGA	[0, 0, 56, 3, 63, 2, 63, 3]
3515	TACTGGAGTCGCTTTTTTTTTTTTGGTCTCGA	[56, 2, 56, 3, 0, 0, 63, 3]
3516	TACTGGAGTCGCTTTTTAACACTTTTTTTTT	[56, 2, 56, 3, 63, 2, 0, 0]
3517	TTTTTTTTAATGGCAAAGCACGTAGAGATAAT	[56, 4, 0, 0, 43, 4, 43, 5]
3518	GATGAACATTTTTTTTAGCACGTAGAGATAAT	[0, 0, 56, 5, 43, 4, 43, 5]
3519	GATGAACAAATGGCAATTTTTTTTGAGATAAT	[56, 4, 56, 5, 0, 0, 43, 5]
3520	GATGAACAAATGGCAAAGCACGTATTTTTTTT	[56, 4, 56, 5, 43, 4, 0, 0]
3521	TTTTTTTTGGGTGACCATAGAATGCTATTGAG	[56, 6, 0, 0, 63, 6, 63, 7]
3522	ACCATTGTTTTTTTTTATAGAATGCTATTGAG	[0, 0, 56, 7, 63, 6, 63, 7]
3523	ACCATTGTGGGTGACCTTTTTTTTCTATTGAG	[56, 6, 56, 7, 0, 0, 63, 7]
3524	ACCATTGTGGGTGACCATAGAATGTTTTTTTT	[56, 6, 56, 7, 63, 6, 0, 0]
3525	TTTTTTTTCAAAAGATGTTATACAGGTCCGGC	[56, 8, 0, 0, 43, 8, 43, 9]
3526	CAGTGCGGTTTTTTTTGTTATACAGGTCCGGC	[0, 0, 56, 9, 43, 8, 43, 9]
3527	CAGTGCGGCAAAAGATTTTTTTTTGGTCCGGC	[56, 8, 56, 9, 0, 0, 43, 9]
3528	CAGTGCGGCAAAAGATGTTATACATTTTTTTT	[56, 8, 56, 9, 43, 8, 0, 0]
3529	TTTTTTTTAGTAAATGGGTAGAAGGAACTCTG	[58, 2, 0, 0, 61, 2, 61, 3]
3530	GGGAGCTGTTTTTTTTTGGTAGAAGGAACTCTG	[0, 0, 58, 3, 61, 2, 61, 3]
3531	GGGAGCTGAGTAAATGTTTTTTTTGAACTCTG	[58, 2, 58, 3, 0, 0, 61, 3]
3532	GGGAGCTGAGTAAATGGGTAGAAGTTTTTTTT	[58, 2, 58, 3, 61, 2, 0, 0]
3533	TTTTTTTTACTTACCTCACTCGCACTTAGATC	[58, 4, 0, 0, 41, 4, 41, 5]
3534	TTATATTATTTTTTTTCACTCGCACTTAGATC	[0, 0, 58, 5, 41, 4, 41, 5]
3535	TTATATTAACTTACCTTTTTTTTTCTTAGATC	[58, 4, 58, 5, 0, 0, 41, 5]
3536	TTATATTAACTTACCTCACTCGCATTTTTTTT	[58, 4, 58, 5, 41, 4, 0, 0]
3537	TTTTTTTTCGCGGACAGCGGTAACATCACATA	[58, 6, 0, 0, 61, 6, 61, 7]
3538	ACTTAATATTTTTTTTTGCGGTAACATCACATA	[0, 0, 58, 7, 61, 6, 61, 7]
3539	ACTTAATACGCGGACATTTTTTTTTATCACATA	[58, 6, 58, 7, 0, 0, 61, 7]
3540	ACTTAATACGCGGACAGCGGTAACTTTTTTTT	[58, 6, 58, 7, 61, 6, 0, 0]
3541	TTTTTTTTCGGCGAAAACTTACGTGTAGTGTC	[58, 8, 0, 0, 41, 8, 41, 9]
3542	CAGGCAAGTTTTTTTTTACTTACGTGTAGTGTC	[0, 0, 58, 9, 41, 8, 41, 9]
3543	CAGGCAAGCGGCGAAATTTTTTTTGTAGTGTC	[58, 8, 58, 9, 0, 0, 41, 9]
3544	CAGGCAAGCGGCGAAAACTTACGTTTTTTTTT	[58, 8, 58, 9, 41, 8, 0, 0]
3545	TTTTTTTTCACAGGATCTGGTCTCAAACGTCC	[60, 2, 0, 0, 79, 2, 79, 3]
3546	ATTACTGGTTTTTTTTCTGGTCTCAAACGTCC	[0, 0, 60, 3, 79, 2, 79, 3]
3547	ATTACTGGCACAGGATTTTTTTTTAAACGTCC	[60, 2, 60, 3, 0, 0, 79, 3]
3548	ATTACTGGCACAGGATCTGGTCTCTTTTTTTT	[60, 2, 60, 3, 79, 2, 0, 0]
3549	TTTTTTTTTTCAGGCTACCTATATAGCCATTT	[60, 4, 0, 0, 59, 4, 59, 5]
3550	AATGTTCTTTTTTTTTACCTATATAGCCATTT	[0, 0, 60, 5, 59, 4, 59, 5]
3551	AATGTTCTTTCAGGCTTTTTTTTTAGCCATTT	[60, 4, 60, 5, 0, 0, 59, 5]
3552	AATGTTCTTTCAGGCTACCTATATTTTTTTTT	[60, 4, 60, 5, 59, 4, 0, 0]
3553	TTTTTTTTCGAACCCGAACTCATATACGTCTT	[60, 6, 0, 0, 79, 6, 79, 7]

Strand	Sequence	Voxel
3554	GCAGGGTGTTTTTTTTAACTCATATACGTCTT	[0, 0, 60, 7, 79, 6, 79, 7]
3555	GCAGGGTGCGAACCCGTTTTTTTTTACGTCTT	[60, 6, 60, 7, 0, 0, 79, 7]
3556	GCAGGGTGCGAACCCGAACTCATATTTTTTTT	[60, 6, 60, 7, 79, 6, 0, 0]
3557	TTTTTTTCCGTCGATCGACCATTGGTCATTG	[60, 8, 0, 0, 59, 8, 59, 9]
3558	GAGCTCACTTTTTTTTCGACCATTGGTCATTG	[0, 0, 60, 9, 59, 8, 59, 9]
3559	GAGCTCACCCGTCGATTTTTTTTTGGTCATTG	[60, 8, 60, 9, 0, 0, 59, 9]
3560	GAGCTCACCCGTCGATCGACCATTTTTTTTTT	[60, 8, 60, 9, 59, 8, 0, 0]
3561	TTTTTTTTAAAAATCACTGCTCCTTTAGGGTC	[62, 2, 0, 0, 77, 2, 77, 3]
3562	GCCGATGGTTTTTTTTCTGCTCCTTTAGGGTC	[0, 0, 62, 3, 77, 2, 77, 3]
3563	GCCGATGGAAAAATCATTTTTTTTTTAGGGTC	[62, 2, 62, 3, 0, 0, 77, 3]
3564	GCCGATGGAAAAATCACTGCTCCTTTTTTTTT	[62, 2, 62, 3, 77, 2, 0, 0]
3565	TTTTTTTTTCAATTTTTACCGAGCAAAGTATT	[62, 4, 0, 0, 57, 4, 57, 5]
3566	CTAGTAACTTTTTTTTTACCGAGCAAAGTATT	[0, 0, 62, 5, 57, 4, 57, 5]
3567	CTAGTAACTCAATTTTTTTTTTTAAAGTATT	[62, 4, 62, 5, 0, 0, 57, 5]
3568	CTAGTAACTCAATTTTTACCGAGCTTTTTTTT	[62, 4, 62, 5, 57, 4, 0, 0]
3569	TTTTTTTTCAAGGCGCGAATATCCCCGGTTGA	[62, 6, 0, 0, 77, 6, 77, 7]
3570	CCTAGGCGTTTTTTTTGAATATCCCCGGTTGA	[0, 0, 62, 7, 77, 6, 77, 7]
3571	CCTAGGCGCAAGGCGCTTTTTTTTCCGGTTGA	[62, 6, 62, 7, 0, 0, 77, 7]
3572	CCTAGGCGCAAGGCGCGAATATCCTTTTTTTT	[62, 6, 62, 7, 77, 6, 0, 0]
3573	TTTTTTTTGAGGTTAGCGCTGATCCGGTTTAC	[62, 8, 0, 0, 57, 8, 57, 9]
3574	CGTTTATTTTTTTTTTCGCTGATCCGGTTTAC	[0, 0, 62, 9, 57, 8, 57, 9]
3575	CGTTTATTGAGGTTAGTTTTTTTTCGGTTTAC	[62, 8, 62, 9, 0, 0, 57, 9]
3576	CGTTTATTGAGGTTAGCGCTGATCTTTTTTTT	[62, 8, 62, 9, 57, 8, 0, 0]
3577	TTTTTTTTTTATGTGACCCCTTCGTTTAAAGA	[64, 2, 0, 0, 75, 2, 75, 3]
3578	AAGAGCAATTTTTTTTCCCCTTCGTTTAAAGA	[0, 0, 64, 3, 75, 2, 75, 3]
3579	AAGAGCAATTATGTGATTTTTTTTTTTAAAGA	[64, 2, 64, 3, 0, 0, 75, 3]
3580	AAGAGCAATTATGTGACCCCTTCGTTTTTTTT	[64, 2, 64, 3, 75, 2, 0, 0]
3581	TTTTTTTTAGACGTCCTGGCTCGTACCCATCC	[64, 4, 0, 0, 55, 4, 55, 5]
3582	CTGAAGGATTTTTTTTTGGCTCGTACCCATCC	[0, 0, 64, 5, 55, 4, 55, 5]
3583	CTGAAGGAAGACGTCCTTTTTTTTTACCCATCC	[64, 4, 64, 5, 0, 0, 55, 5]
3584	CTGAAGGAAGACGTCCTGGCTCGTTTTTTTTT	[64, 4, 64, 5, 55, 4, 0, 0]
3585	TTTTTTTTTAGGCGGAAGATGCGATTTGTACG	[64, 6, 0, 0, 75, 6, 75, 7]
3586	AGGGTTCATTTTTTTTAGATGCGATTTGTACG	[0, 0, 64, 7, 75, 6, 75, 7]
3587	AGGGTTCATAGGCGGATTTTTTTTTTTTGTACG	[64, 6, 64, 7, 0, 0, 75, 7]
3588	AGGGTTCATAGGCGGAAGATGCGATTTTTTTT	[64, 6, 64, 7, 75, 6, 0, 0]
3589	TTTTTTTTCGATAGTAGAAAACTGCACAACTT	[64, 8, 0, 0, 55, 8, 55, 9]
3590	TAGGCAAGTTTTTTTTGAAAACTGCACAACTT	[0, 0, 64, 9, 55, 8, 55, 9]
3591	TAGGCAAGCGATAGTATTTTTTTTCACAACTT	[64, 8, 64, 9, 0, 0, 55, 9]
3592	TAGGCAAGCGATAGTAGAAAACTGTTTTTTTT	[64, 8, 64, 9, 55, 8, 0, 0]
3593	TTTTTTTTTAAGAACACCCGACAAGGCAGCAG	[66, 2, 0, 0, 73, 2, 73, 3]
3594	CCTAGAACTTTTTTTTCCCGACAAGGCAGCAG	[0, 0, 66, 3, 73, 2, 73, 3]
3595	CCTAGAACTAAGAACATTTTTTTTTGGCAGCAG	[66, 2, 66, 3, 0, 0, 73, 3]
3596	CCTAGAACTAAGAACACCCGACAATTTTTTTT	[66, 2, 66, 3, 73, 2, 0, 0]
3597	TTTTTTTTCCCCGCTCCAACATTTTATCTCTT	[66, 4, 0, 0, 53, 4, 53, 5]
3598	TGGTCGGTTTTTTTTTCAACATTTTATCTCTT	[0, 0, 66, 5, 53, 4, 53, 5]
3599	TGGTCGGTCCCCGCTCTTTTTTTTTATCTCTT	[66, 4, 66, 5, 0, 0, 53, 5]
3600	TGGTCGGTCCCCGCTCCAACATTTTTTTTTT	[66, 4, 66, 5, 53, 4, 0, 0]
3601	TTTTTTTTTAGCGCCTGCGCGGGCTGACTCTT	[66, 6, 0, 0, 73, 6, 73, 7]
3602	TGGGAGAATTTTTTTTGCGCGGGCTGACTCTT	[0, 0, 66, 7, 73, 6, 73, 7]
3603	TGGGAGAATAGCGCCTTTTTTTTTTGACTCTT	[66, 6, 66, 7, 0, 0, 73, 7]
3604	TGGGAGAATAGCGCCTGCGCGGGGCTTTTTTTT	[66, 6, 66, 7, 73, 6, 0, 0]
3605	TTTTTTTTTATCCATTTGATCCTGCGTACCTT	[66, 8, 0, 0, 53, 8, 53, 9]
3606	GGTATTTTTTTTTTTTTGATCCTGCGTACCTT	[0, 0, 66, 9, 53, 8, 53, 9]
3607	GGTATTTTTATCCATTTTTTTTTTCGTACCTT	[66, 8, 66, 9, 0, 0, 53, 9]
3608	GGTATTTTTATCCATTTGATCCTGTTTTTTTT	[66, 8, 66, 9, 53, 8, 0, 0]
3609	TTTTTTTTGATGCGTTGATGATATGGTAATCC	[68, 2, 0, 0, 71, 2, 71, 3]
3610	GCCCGACGTTTTTTTTTGATGATATGGTAATCC	[0, 0, 68, 3, 71, 2, 71, 3]
3611	GCCCGACGGATGCGTTTTTTTTTTTGGTAATCC	[68, 2, 68, 3, 0, 0, 71, 3]
3612	GCCCGACGGATGCGTTGATGATATTTTTTTTT	[68, 2, 68, 3, 71, 2, 0, 0]
3613	TTTTTTTTCGAAGGTCGCCAGTAGGCCGGGCT	[68, 4, 0, 0, 51, 4, 51, 5]
3614	ACCTAATGTTTTTTTTTGCCAGTAGGCCGGGCT	[0, 0, 68, 5, 51, 4, 51, 5]
3615	ACCTAATGCGAAGGTCTTTTTTTTTGCCGGGCT	[68, 4, 68, 5, 0, 0, 51, 5]
3616	ACCTAATGCGAAGGTCGCCAGTAGTTTTTTTT	[68, 4, 68, 5, 51, 4, 0, 0]
3617	TTTTTTTTTATAATAGGCTGATGCCCTGCTTC	[68, 6, 0, 0, 71, 6, 71, 7]
3618	GATATCGCTTTTTTTTTGCTGATGCCCTGCTTC	[0, 0, 68, 7, 71, 6, 71, 7]
3619	GATATCGCTATAATAGTTTTTTTTTCCTGCTTC	[68, 6, 68, 7, 0, 0, 71, 7]
3620	GATATCGCTATAATAGGCTGATGCTTTTTTTT	[68, 6, 68, 7, 71, 6, 0, 0]
3621	TTTTTTTTCGCATTCACCATATGACTTGTACT	[68, 8, 0, 0, 51, 8, 51, 9]
3622	ACAGTGCCTTTTTTTTTCCATATGACTTGTACT	[0, 0, 68, 9, 51, 8, 51, 9]
3623	ACAGTGCCCGCATTCATTTTTTTTTCTTGTACT	[68, 8, 68, 9, 0, 0, 51, 9]
3624	ACAGTGCCCGCATTCACCATATGATTTTTTTT	[68, 8, 68, 9, 51, 8, 0, 0]
3625	TTTTTTTTACACTCACCCCGCGTATCGGGACA	[70, 2, 0, 0, 89, 2, 89, 3]
3626	TATTGAAGTTTTTTTTCCCGCGTATCGGGACA	[0, 0, 70, 3, 89, 2, 89, 3]
3627	TATTGAAGACACTCACTTTTTTTTTCGGGACA	[70, 2, 70, 3, 0, 0, 89, 3]
3628	TATTGAAGACACTCACCCCGCGTATTTTTTTT	[70, 2, 70, 3, 89, 2, 0, 0]
3629	TTTTTTTTCTACAACTGCACTAAGCGCCTCCG	[70, 4, 0, 0, 69, 4, 69, 5]
3630	AGGTCATCTTTTTTTTGCACTAAGCGCCTCCG	[0, 0, 70, 5, 69, 4, 69, 5]
3631	AGGTCATCCTACAACTTTTTTTTTCGCCTCCG	[70, 4, 70, 5, 0, 0, 69, 5]
3632	AGGTCATCCTACAACTGCACTAAGTTTTTTTT	[70, 4, 70, 5, 69, 4, 0, 0]
3633	TTTTTTTTAGGCTGCGAAGTTGAATCGTCTAC	[70, 6, 0, 0, 89, 6, 89, 7]

Strand	Sequence	Voxel
3634	TTACACATTTTTTTTTAAGTTGAATCGTCTAC	[0, 0, 70, 7, 89, 6, 89, 7]
3635	TTACACATAGGCTGCGTTTTTTTTTCGTCTAC	[70, 6, 70, 7, 0, 0, 89, 7]
3636	TTACACATAGGCTGCGAAGTTGAATTTTTTTT	[70, 6, 70, 7, 89, 6, 0, 0]
3637	TTTTTTTTGCCCACCACGTCCCATATTTTATA	[70, 8, 0, 0, 69, 8, 69, 9]
3638	GCTGTGCCTTTTTTTTCGTCCCATATTTTATA	[0, 0, 70, 9, 69, 8, 69, 9]
3639	GCTGTGCCGCCCACCATTTTTTTTATTTTATA	[70, 8, 70, 9, 0, 0, 69, 9]
3640	GCTGTGCCGCCCACCACGTCCCATTTTTTTTT	[70, 8, 70, 9, 69, 8, 0, 0]
3641	TTTTTTTTATGTGAAGCGATGCTTTTGCCACA	[72, 2, 0, 0, 87, 2, 87, 3]
3642	CAAAGGGCTTTTTTTTCGATGCTTTTGCCACA	[0, 0, 72, 3, 87, 2, 87, 3]
3643	CAAAGGGCATGTGAAGTTTTTTTTTTGCCACA	[72, 2, 72, 3, 0, 0, 87, 3]
3644	CAAAGGGCATGTGAAGCGATGCTTTTTTTTTT	[72, 2, 72, 3, 87, 2, 0, 0]
3645	TTTTTTTTGTGAACCCTAACAGCAGGTCGGCC	[72, 4, 0, 0, 67, 4, 67, 5]
3646	AGGATGGCTTTTTTTTTAACAGCAGGTCGGCC	[0, 0, 72, 5, 67, 4, 67, 5]
3647	AGGATGGCGTGAACCCTTTTTTTTGGTCGGCC	[72, 4, 72, 5, 0, 0, 67, 5]
3648	AGGATGGCGTGAACCCTAACAGCATTTTTTTT	[72, 4, 72, 5, 67, 4, 0, 0]
3649	TTTTTTTTAAGCGGGTACATGAGGTGGCTGGT	[72, 6, 0, 0, 87, 6, 87, 7]
3650	TTTACGCTTTTTTTTTACATGAGGTGGCTGGT	[0, 0, 72, 7, 87, 6, 87, 7]
3651	TTTACGCTAAGCGGGTTTTTTTTTGGCTGGT	[72, 6, 72, 7, 0, 0, 87, 7]
3652	TTTACGCTAAGCGGGTACATGAGGTTTTTTTT	[72, 6, 72, 7, 87, 6, 0, 0]
3653	TTTTTTTTGTCAAGACATACCCTATTGTCGTT	[72, 8, 0, 0, 67, 8, 67, 9]
3654	GTGGCGCTTTTTTTTTATACCCTATTGTCGTT	[0, 0, 72, 9, 67, 8, 67, 9]
3655	GTGGCGCTGTCAAGACTTTTTTTTTTGTCGTT	[72, 8, 72, 9, 0, 0, 67, 9]
3656	GTGGCGCTGTCAAGACATACCCTATTTTTTTT	[72, 8, 72, 9, 67, 8, 0, 0]
3657	TTTTTTTTTTGTTCATACTTGGACAAAGTGAG	[74, 2, 0, 0, 85, 2, 85, 3]
3658	ACGGGACATTTTTTTTTACTTGGACAAAGTGAG	[0, 0, 74, 3, 85, 2, 85, 3]
3659	ACGGGACATTGTTCATTTTTTTTTAAAGTGAG	[74, 2, 74, 3, 0, 0, 85, 3]
3660	ACGGGACATTGTTCATACTTGGACTTTTTTTT	[74, 2, 74, 3, 85, 2, 0, 0]
3661	TTTTTTTTGCCCTAACAGTGTTTTATGCTGGG	[74, 4, 0, 0, 65, 4, 65, 5]
3662	ACATTACTTTTTTTTTAGTGTTTTATGCTGGG	[0, 0, 74, 5, 65, 4, 65, 5]
3663	ACATTACTGCCCTAACTTTTTTTTATGCTGGG	[74, 4, 74, 5, 0, 0, 65, 5]
3664	ACATTACTGCCCTAACAGTGTTTTTTTTTTT	[74, 4, 74, 5, 65, 4, 0, 0]
3665	TTTTTTTTGGCACTAGCGTGACGGTGAATCTT	[74, 6, 0, 0, 85, 6, 85, 7]
3666	AGTAACGCTTTTTTTTCGTGACGGTGAATCTT	[0, 0, 74, 7, 85, 6, 85, 7]
3667	AGTAACGCGGCACTAGTTTTTTTTTGAATCTT	[74, 6, 74, 7, 0, 0, 85, 7]
3668	AGTAACGCGGCACTAGCGTGACGGTTTTTTTT	[74, 6, 74, 7, 85, 6, 0, 0]
3669	TTTTTTTTAGCGGGTCATCATGAGTTTTTTGT	[74, 8, 0, 0, 65, 8, 65, 9]
3670	CATACCGTTTTTTTTTATCATGAGTTTTTTGT	[0, 0, 74, 9, 65, 8, 65, 9]
3671	CATACCGTAGCGGGTCTTTTTTTTTTTTTGT	[74, 8, 74, 9, 0, 0, 65, 9]
3672	CATACCGTAGCGGGTCATCATGAGTTTTTTTT	[74, 8, 74, 9, 65, 8, 0, 0]
3673	TTTTTTTTGCGTAGCTGATAGAGAACTGTCCC	[76, 2, 0, 0, 83, 2, 83, 3]
3674	GGGGACTCTTTTTTTTGATAGAGAACTGTCCC	[0, 0, 76, 3, 83, 2, 83, 3]
3675	GGGGACTCGCGTAGCTTTTTTTTTACTGTCCC	[76, 2, 76, 3, 0, 0, 83, 3]
3676	GGGGACTCGCGTAGCTGATAGAGATTTTTTTT	[76, 2, 76, 3, 83, 2, 0, 0]
3677	TTTTTTTTTATTCTTCTTCTGAATCGCGGGCT	[76, 4, 0, 0, 63, 4, 63, 5]
3678	CTGAATGGTTTTTTTTTTCTGAATCGCGGGCT	[0, 0, 76, 5, 63, 4, 63, 5]
3679	CTGAATGGTATTCTTCTTTTTTTTCGCGGGCT	[76, 4, 76, 5, 0, 0, 63, 5]
3680	CTGAATGGTATTCTTCTTCTGAATTTTTTTTT	[76, 4, 76, 5, 63, 4, 0, 0]
3681	TTTTTTTTCCTGTGAAATCCCGGATCTTGTAT	[76, 6, 0, 0, 83, 6, 83, 7]
3682	ACTCGTCGTTTTTTTTATCCCGGATCTTGTAT	[0, 0, 76, 7, 83, 6, 83, 7]
3683	ACTCGTCGCCTGTGAATTTTTTTTTCTTGTAT	[76, 6, 76, 7, 0, 0, 83, 7]
3684	ACTCGTCGCCTGTGAAATCCCGGATTTTTTTT	[76, 6, 76, 7, 83, 6, 0, 0]
3685	TTTTTTTTATGCCGTTCGTAGGAGTTGACCTA	[76, 8, 0, 0, 63, 8, 63, 9]
3686	AGACATAGTTTTTTTTCGTAGGAGTTGACCTA	[0, 0, 76, 9, 63, 8, 63, 9]
3687	AGACATAGATGCCGTTTTTTTTTTTTGACCTA	[76, 8, 76, 9, 0, 0, 63, 9]
3688	AGACATAGATGCCGTTCGTAGGAGTTTTTTTT	[76, 8, 76, 9, 63, 8, 0, 0]
3689	TTTTTTTTAGGCCTCGCTTGGACATTGCGCTT	[78, 2, 0, 0, 81, 2, 81, 3]
3690	TATTGCTCTTTTTTTTTCTTGGACATTGCGCTT	[0, 0, 78, 3, 81, 2, 81, 3]
3691	TATTGCTCAGGCCTCGTTTTTTTTTTGCGCTT	[78, 2, 78, 3, 0, 0, 81, 3]
3692	TATTGCTCAGGCCTCGCTTGGACATTTTTTTT	[78, 2, 78, 3, 81, 2, 0, 0]
3693	TTTTTTTTTCAATTTCCTTCCATGTAATTATA	[78, 4, 0, 0, 61, 4, 61, 5]
3694	CTTACTTGTTTTTTTTTCTTCCATGTAATTATA	[0, 0, 78, 5, 61, 4, 61, 5]
3695	CTTACTTGTCAATTTCTTTTTTTTTAATTATA	[78, 4, 78, 5, 0, 0, 61, 5]
3696	CTTACTTGTCAATTTCCTTCCATGTTTTTTTT	[78, 4, 78, 5, 61, 4, 0, 0]
3697	TTTTTTTTACGCCCTGTTAACCATAAGGTCCG	[78, 6, 0, 0, 81, 6, 81, 7]
3698	GCTCATTCTTTTTTTTTTAACCATAAGGTCCG	[0, 0, 78, 7, 81, 6, 81, 7]
3699	GCTCATTCACGCCCTGTTTTTTTTTAAGGTCCG	[78, 6, 78, 7, 0, 0, 81, 7]
3700	GCTCATTCACGCCCTGTTAACCATTTTTTTTT	[78, 6, 78, 7, 81, 6, 0, 0]
3701	TTTTTTTTGGTGCGTCGACCACGTCCTCTCCT	[78, 8, 0, 0, 61, 8, 61, 9]
3702	CCAGCAGTTTTTTTTTGACCACGTCCTCTCCT	[0, 0, 78, 9, 61, 8, 61, 9]
3703	CCAGCAGTGGTGCGTCTTTTTTTTCCTCTCCT	[78, 8, 78, 9, 0, 0, 61, 9]
3704	CCAGCAGTGGTGCGTCGACCACGTTTTTTTTT	[78, 8, 78, 9, 61, 8, 0, 0]
3705	TTTTTTTTCCCGGTCACGCGAGACCCTCACGC	[80, 2, 0, 0, 99, 2, 99, 3]
3706	CTCCGCATTTTTTTTTCGCGAGACCCTCACGC	[0, 0, 80, 3, 99, 2, 99, 3]
3707	CTCCGCATCCCGGTCATTTTTTTTCCTCACGC	[80, 2, 80, 3, 0, 0, 99, 3]
3708	CTCCGCATCCCGGTCACGCGAGACTTTTTTTT	[80, 2, 80, 3, 99, 2, 0, 0]
3709	TTTTTTTTGCCTACCTACACAGTGTGCAGGGT	[80, 4, 0, 0, 79, 4, 79, 5]
3710	TAACAAGGTTTTTTTTACACAGTGTGCAGGGT	[0, 0, 80, 5, 79, 4, 79, 5]
3711	TAACAAGGGCCTACCTTTTTTTTTTGCAGGGT	[80, 4, 80, 5, 0, 0, 79, 5]
3712	TAACAAGGGCCTACCTACACAGTGTTTTTTTT	[80, 4, 80, 5, 79, 4, 0, 0]
3713	TTTTTTTTTGCCATCGTTTTAACACATACATG	[80, 6, 0, 0, 99, 6, 99, 7]

Strand	Sequence	Voxel
3714	GCGACGCTTTTTTTTTTTTTAACACATACATG	[0, 0, 80, 7, 99, 6, 99, 7]
3715	GCGACGCTTGCCATCGTTTTTTTTCATACATG	[80, 6, 80, 7, 0, 0, 99, 7]
3716	GCGACGCTTGCCATCGTTTTAACATTTTTTTT	[80, 6, 80, 7, 99, 6, 0, 0]
3717	TTTTTTTTCACTTTAAGAGCCGATGGAGTGTT	[80, 8, 0, 0, 79, 8, 79, 9]
3718	GAAGGCTGTTTTTTTTGAGCCGATGGAGTGTT	[0, 0, 80, 9, 79, 8, 79, 9]
3719	GAAGGCTGCACTTTAATTTTTTTTGGAGTGTT	[80, 8, 80, 9, 0, 0, 79, 9]
3720	GAAGGCTGCACTTTAAGAGCCGATTTTTTTTT	[80, 8, 80, 9, 79, 8, 0, 0]
3721	TTTTTTTTCTTGGTAACACAAAACTGCCAATG	[82, 2, 0, 0, 97, 2, 97, 3]
3722	CGGCGCCGTTTTTTTTTCACAAAACTGCCAATG	[0, 0, 82, 3, 97, 2, 97, 3]
3723	CGGCGCCGCTTGGTAATTTTTTTTTGCCAATG	[82, 2, 82, 3, 0, 0, 97, 3]
3724	CGGCGCCGCTTGGTAACACAAAACTTTTTTTT	[82, 2, 82, 3, 97, 2, 0, 0]
3725	TTTTTTTTTGATCAATATCGGATTCCGGCGGA	[82, 4, 0, 0, 77, 4, 77, 5]
3726	GGTTGCGGTTTTTTTTTATCGGATTCCGGCGGA	[0, 0, 82, 5, 77, 4, 77, 5]
3727	GGTTGCGGTGATCAATTTTTTTTTCCGGCGGA	[82, 4, 82, 5, 0, 0, 77, 5]
3728	GGTTGCGGTGATCAATATCGGATTTTTTTTTT	[82, 4, 82, 5, 77, 4, 0, 0]
3729	TTTTTTTTCACGTAAACAGGTGGTCTCTGATA	[82, 6, 0, 0, 97, 6, 97, 7]
3730	CCCGGTGGTTTTTTTTCAGGTGGTCTCTGATA	[0, 0, 82, 7, 97, 6, 97, 7]
3731	CCCGGTGGCACGTAAATTTTTTTTCTCTGATA	[82, 6, 82, 7, 0, 0, 97, 7]
3732	CCCGGTGGCACGTAAACAGGTGGTTTTTTTTT	[82, 6, 82, 7, 97, 6, 0, 0]
3733	TTTTTTTTGGAACAGACTGCTTTTTATAAAAA	[82, 8, 0, 0, 77, 8, 77, 9]
3734	GTTGTTCCTTTTTTTTTCTGCTTTTTATAAAAA	[0, 0, 82, 9, 77, 8, 77, 9]
3735	GTTGTTCCGGAACAGATTTTTTTTTATAAAAA	[82, 8, 82, 9, 0, 0, 77, 9]
3736	GTTGTTCCGGAACAGACTGCTTTTTTTTTTTT	[82, 8, 82, 9, 77, 8, 0, 0]
3737	TTTTTTTTCGGGCATCAGTCAATCTCCCCGGA	[84, 2, 0, 0, 95, 2, 95, 3]
3738	ATGTTCCGTTTTTTTTTAGTCAATCTCCCCGGA	[0, 0, 84, 3, 95, 2, 95, 3]
3739	ATGTTCCGCGGGCATCTTTTTTTTTCCCCGGA	[84, 2, 84, 3, 0, 0, 95, 3]
3740	ATGTTCCGCGGGCATCAGTCAATCTTTTTTTT	[84, 2, 84, 3, 95, 2, 0, 0]
3741	TTTTTTTTCATCGTGCCGTGGGACATTCCACG	[84, 4, 0, 0, 75, 4, 75, 5]
3742	GCGGCGAATTTTTTTTCGTGGGACATTCCACG	[0, 0, 84, 5, 75, 4, 75, 5]
3743	GCGGCGAACATCGTGCTTTTTTTTTATTCCACG	[84, 4, 84, 5, 0, 0, 75, 5]
3744	GCGGCGAACATCGTGCCGTGGGACTTTTTTTT	[84, 4, 84, 5, 75, 4, 0, 0]
3745	TTTTTTTTAAAACGACCGGGTATAGGAGCGTA	[84, 6, 0, 0, 95, 6, 95, 7]
3746	CTGCTGAATTTTTTTTCGGGTATAGGAGCGTA	[0, 0, 84, 7, 95, 6, 95, 7]
3747	CTGCTGAAAAAAACGACTTTTTTTTGGAGCGTA	[84, 6, 84, 7, 0, 0, 95, 7]
3748	CTGCTGAAAAAACGACCGGGTATATTTTTTTT	[84, 6, 84, 7, 95, 6, 0, 0]
3749	TTTTTTTTGAGTAAGGGCTAAGGGTTTTGCAT	[84, 8, 0, 0, 75, 8, 75, 9]
3750	GCCAAAATTTTTTTTTGCTAAGGGTTTTGCAT	[0, 0, 84, 9, 75, 8, 75, 9]
3751	GCCAAAATGAGTAAGGTTTTTTTTTTTTGCAT	[84, 8, 84, 9, 0, 0, 75, 9]
3752	GCCAAAATGAGTAAGGGCTAAGGGTTTTTTTT	[84, 8, 84, 9, 75, 8, 0, 0]
3753	TTTTTTTTCCATGCGATTGTTGCGGCCTCGTG	[86, 2, 0, 0, 93, 2, 93, 3]
3754	GCGCCAGATTTTTTTTTTGTTGCGGCCTCGTG	[0, 0, 86, 3, 93, 2, 93, 3]
3755	GCGCCAGACCATGCGATTTTTTTTGCCTCGTG	[86, 2, 86, 3, 0, 0, 93, 3]
3756	GCGCCAGACCATGCGATTGTTGCGTTTTTTTT	[86, 2, 86, 3, 93, 2, 0, 0]
3757	TTTTTTTTCTAAGCCGGACCCAGGTAGGTTAT	[86, 4, 0, 0, 73, 4, 73, 5]
3758	GGCGGATATTTTTTTTGACCCAGGTAGGTTAT	[0, 0, 86, 5, 73, 4, 73, 5]
3759	GGCGGATACTAAGCCGTTTTTTTTTAGGTTAT	[86, 4, 86, 5, 0, 0, 73, 5]
3760	GGCGGATACTAAGCCGGACCCAGGTTTTTTTT	[86, 4, 86, 5, 73, 4, 0, 0]
3761	TTTTTTTTGCGAGATATAGATGCGACTACACC	[86, 6, 0, 0, 93, 6, 93, 7]
3762	CGTCCTGTTTTTTTTTTAGATGCGACTACACC	[0, 0, 86, 7, 93, 6, 93, 7]
3763	CGTCCTGTGCGAGATATTTTTTTTACTACACC	[86, 6, 86, 7, 0, 0, 93, 7]
3764	CGTCCTGTGCGAGATATAGATGCGTTTTTTTT	[86, 6, 86, 7, 93, 6, 0, 0]
3765	TTTTTTTTGAGAACATTCACATACCAGCTGGA	[86, 8, 0, 0, 73, 8, 73, 9]
3766	CAGAGATGTTTTTTTTTCACATACCAGCTGGA	[0, 0, 86, 9, 73, 8, 73, 9]
3767	CAGAGATGGAGAACATTTTTTTTTCAGCTGGA	[86, 8, 86, 9, 0, 0, 73, 9]
3768	CAGAGATGGAGAACATTCACATACTTTTTTTT	[86, 8, 86, 9, 73, 8, 0, 0]
3769	TTTTTTTTAACGGTTTAGCGTGATGCAGGCGT	[88, 2, 0, 0, 91, 2, 91, 3]
3770	ATATTGTATTTTTTTTTAGCGTGATGCAGGCGT	[0, 0, 88, 3, 91, 2, 91, 3]
3771	ATATTGTAAACGGTTTTTTTTTTTGCAGGCGT	[88, 2, 88, 3, 0, 0, 91, 3]
3772	ATATTGTAAACGGTTTAGCGTGATTTTTTTTT	[88, 2, 88, 3, 91, 2, 0, 0]
3773	TTTTTTTTATATAACTCCATATTAACCTGCCA	[88, 4, 0, 0, 71, 4, 71, 5]
3774	ACCTTCAATTTTTTTTTCCATATTAACCTGCCA	[0, 0, 88, 5, 71, 4, 71, 5]
3775	ACCTTCAAATATAACTTTTTTTTTACCTGCCA	[88, 4, 88, 5, 0, 0, 71, 5]
3776	ACCTTCAAATATAACTCCATATTATTTTTTTT	[88, 4, 88, 5, 71, 4, 0, 0]
3777	TTTTTTTTTGGTTCAACGATGCGGGCGAGGGT	[88, 6, 0, 0, 91, 6, 91, 7]
3778	GACTCTCTTTTTTTTTTCGATGCGGGCGAGGGT	[0, 0, 88, 7, 91, 6, 91, 7]
3779	GACTCTCTTGGTTCAATTTTTTTTTGCGAGGGT	[88, 6, 88, 7, 0, 0, 91, 7]
3780	GACTCTCTTGGTTCAACGATGCGGTTTTTTTT	[88, 6, 88, 7, 91, 6, 0, 0]
3781	TTTTTTTTAGGGCTGCGCATGAGAGGCGCAGA	[88, 8, 0, 0, 71, 8, 71, 9]
3782	CTCAATAATTTTTTTTTGCATGAGAGGCGCAGA	[0, 0, 88, 9, 71, 8, 71, 9]
3783	CTCAATAAAGGGCTGCTTTTTTTTGGCGCAGA	[88, 8, 88, 9, 0, 0, 71, 9]
3784	CTCAATAAAGGGCTGCGCATGAGATTTTTTTT	[88, 8, 88, 9, 71, 8, 0, 0]
3785	TTTTTTTTTTGCGGGGAGTGTGGTCTGTTTAA	[90, 4, 0, 0, 89, 4, 89, 5]
3786	TTGTGAACTTTTTTTTAGTGTGGTCTGTTTAA	[0, 0, 90, 5, 89, 4, 89, 5]
3787	TTGTGAACTTGCGGGGTTTTTTTTCTGTTTAA	[90, 4, 90, 5, 0, 0, 89, 5]
3788	TTGTGAACTTGCGGGGAGTGTGGTTTTTTTTT	[90, 4, 90, 5, 89, 4, 0, 0]
3789	TTTTTTTTTAACGGCCGACTCTACCCTGGGAA	[90, 8, 0, 0, 89, 8, 89, 9]
3790	CTGTACTATTTTTTTTGACTCTACCCTGGGAA	[0, 0, 90, 9, 89, 8, 89, 9]
3791	CTGTACTATAACGGCCTTTTTTTTCCTGGGAA	[90, 8, 90, 9, 0, 0, 89, 9]
3792	CTGTACTATAACGGCCGACTCTACTTTTTTTT	[90, 8, 90, 9, 89, 8, 0, 0]
3793	TTTTTTTTATCGCTGACATCTTAACGACCGTT	[92, 4, 0, 0, 87, 4, 87, 5]

Strand	Sequence	Voxel
3794	ATCCCCTCTTTTTTTTCATCTTAACGACCGTT	[0, 0, 92, 5, 87, 4, 87, 5]
3795	ATCCCCTCATCGCTGATTTTTTTTCGACCGTT	[92, 4, 92, 5, 0, 0, 87, 5]
3796	ATCCCCTCATCGCTGACATCTTAATTTTTTTT	[92, 4, 92, 5, 87, 4, 0, 0]
3797	TTTTTTTTGTAGTTAAAGAACTCTTGATGTCC	[92, 8, 0, 0, 87, 8, 87, 9]
3798	CGATAGAATTTTTTTTAGAACTCTTGATGTCC	[0, 0, 92, 9, 87, 8, 87, 9]
3799	CGATAGAAGTAGTTAATTTTTTTTTTGATGTCC	[92, 8, 92, 9, 0, 0, 87, 9]
3800	CGATAGAAGTAGTTAAAGAACTCTTTTTTTTT	[92, 8, 92, 9, 87, 8, 0, 0]
3801	TTTTTTTTTCACCCTACATACACACCACAATG	[94, 4, 0, 0, 85, 4, 85, 5]
3802	TTGTCTTATTTTTTTTCATACACACCACAATG	[0, 0, 94, 5, 85, 4, 85, 5]
3803	TTGTCTTATCACCCTATTTTTTTTCCACAATG	[94, 4, 94, 5, 0, 0, 85, 5]
3804	TTGTCTTATCACCCTACATACACATTTTTTTT	[94, 4, 94, 5, 85, 4, 0, 0]
3805	TTTTTTTTACCGTGGGAAACTGAGTAAGACCT	[94, 8, 0, 0, 85, 8, 85, 9]
3806	TCATGGTATTTTTTTTAAACTGAGTAAGACCT	[0, 0, 94, 9, 85, 8, 85, 9]
3807	TCATGGTAACCGTGGGTTTTTTTTAAGACCT	[94, 8, 94, 9, 0, 0, 85, 9]
3808	TCATGGTAACCGTGGGAAACTGAGTTTTTTTT	[94, 8, 94, 9, 85, 8, 0, 0]
3809	TTTTTTTTTGGAGTAGGTTAGTGGTGGCACCC	[96, 4, 0, 0, 83, 4, 83, 5]
3810	CACTTGACTTTTTTTTGTTAGTGGTGGCACCC	[0, 0, 96, 5, 83, 4, 83, 5]
3811	CACTTGACTGGAGTAGTTTTTTTTTGGCACCC	[96, 4, 96, 5, 0, 0, 83, 5]
3812	CACTTGACTGGAGTAGGTTAGTGGTTTTTTTT	[96, 4, 96, 5, 83, 4, 0, 0]
3813	TTTTTTTTGCGACCGATCCCTAAATGTCCGTG	[96, 8, 0, 0, 83, 8, 83, 9]
3814	AGACGCCTTTTTTTTTTCCCTAAATGTCCGTG	[0, 0, 96, 9, 83, 8, 83, 9]
3815	AGACGCCTGCGACCGATTTTTTTTTGTCCGTG	[96, 8, 96, 9, 0, 0, 83, 9]
3816	AGACGCCTGCGACCGATCCCTAAATTTTTTTT	[96, 8, 96, 9, 83, 8, 0, 0]
3817	TTTTTTTTGGGGATGATTTGCACCACCTATAC	[98, 4, 0, 0, 81, 4, 81, 5]
3818	GCTCTGGATTTTTTTTTTTGCACCACCTATAC	[0, 0, 98, 5, 81, 4, 81, 5]
3819	GCTCTGGAGGGGATGATTTTTTTTACCTATAC	[98, 4, 98, 5, 0, 0, 81, 5]
3820	GCTCTGGAGGGGATGATTTGCACCTTTTTTTT	[98, 4, 98, 5, 81, 4, 0, 0]
3821	TTTTTTTTTAGGTGCTAATATTGCAGTATTCC	[98, 8, 0, 0, 81, 8, 81, 9]
3822	AGACGTTTTTTTTTTTAATATTGCAGTATTCC	[0, 0, 98, 9, 81, 8, 81, 9]
3823	AGACGTTTTAGGTGCTTTTTTTTTAGTATTCC	[98, 8, 98, 9, 0, 0, 81, 9]
3824	AGACGTTTTAGGTGCTAATATTGCTTTTTTTT	[98, 8, 98, 9, 81, 8, 0, 0]
3825	AACTGTTGTGTCCTATGTTTACTTAGGGATGGCCAGGTTAAGTGGCTC	[1, 1, 1, 2, 0, 1, 0, 2, 0, 3, 0, 4]
3826	GAAGATAGAGAGCATAAATTCGCTAAACCGGAAATCATACTCACGGTT	[1, 5, 1, 6, 0, 5, 0, 6, 0, 7, 0, 8]
3827	TACGAACTCAACGCACAACTGTTGTGTCCTATGTTTACTTAGGGATGG	[1, 3, 1, 4, 1, 1, 1, 2, 0, 1, 0, 2]
3828	GTGTTCATTCAGAGTAGCGGAAATATGGCCGCGCTCGGGTAGTCTCAA	[3, 1, 3, 2, 2, 1, 2, 2, 2, 3, 2, 4]
3829	GAAGATAGAGAGCATATACGAACTCAACGCACGCTCGGGTAGTCTCAA	[1, 5, 1, 6, 1, 3, 1, 4, 2, 3, 2, 4]
3830	AAAGTATCCGCATCTCGAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 7, 1, 8, 1, 5, 1, 6, 0, 5, 0, 6]
3831	ATCAGCCCGGGCTTTTGCTAATACGCTGAGCGACTCAGTGATCGAGTA	[3, 5, 3, 6, 2, 5, 2, 6, 2, 7, 2, 8]
3832	TTCATGTCGCCTTTTCAAAGTATCCGCATCTCACTCAGTGATCGAGTA	[1, 9, 1, 10, 1, 7, 1, 8, 2, 7, 2, 8]
3833	TTCGGTGCGCAGCGGGGTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 3, 3, 4, 3, 1, 3, 2, 2, 1, 2, 2]
3834	TCTGATGCACCGGGAGCCAGCCACTTAGCTGTCCGCCTGTAACGCTTA	[5, 1, 5, 2, 4, 1, 4, 2, 4, 3, 4, 4]
3835	TACGAACTCAACGCACGCTCGGGTAGTCTCAAGCTAATACGCTGAGCG	[1, 3, 1, 4, 2, 3, 2, 4, 2, 5, 2, 6]
3836	ATCAGCCCGGGCTTTTTTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 5, 3, 6, 3, 3, 3, 4, 4, 3, 4, 4]
3837	ATGCTGTTGTTGCGGGATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 7, 3, 8, 3, 5, 3, 6, 2, 5, 2, 6]
3838	GTGATGCCAAAAGGGTGGATATGGAGCTGGAAGTTTCTGAACCGGAAC	[5, 5, 5, 6, 4, 5, 4, 6, 4, 7, 4, 8]
3839	AAAGTATCCGCATCTCACTCAGTGATCGAGTAGTGACCCCAGAGACTG	[1, 7, 1, 8, 2, 7, 2, 8, 2, 9, 2, 10]
3840	CCGGGCTAATGAAGCCATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[3, 9, 3, 10, 3, 7, 3, 8, 4, 7, 4, 8]
3841	GTCAGTGTGATCGCGATCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[5, 3, 5, 4, 5, 1, 5, 2, 4, 1, 4, 2]
3842	GGAAGGATTCATCCCCTTTAAGAATGATCGCAGTTCCCTCTAGCTAGG	[7, 1, 7, 2, 6, 1, 6, 2, 6, 3, 6, 4]
3843	TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTAGGATATGGAGCTGGAA	[3, 3, 3, 4, 4, 3, 4, 4, 4, 5, 4, 6]
3844	GTGATGCCAAAAGGGTGTCAGTGTGATCGCGAGTTCCCTCTAGCTAGG	[5, 5, 5, 6, 5, 3, 5, 4, 6, 3, 6, 4]
3845	CGGCTCTGATTTCTAGGTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[5, 7, 5, 8, 5, 5, 5, 6, 4, 5, 4, 6]
3846	GCGTAAAGATCTCGCATTCTGGTGCCAAAACTTGACCTGGTATAATGG	[7, 5, 7, 6, 6, 5, 6, 6, 6, 7, 6, 8]
3847	ATGCTGTTGTTGCGGGGTTTCTGAACCGGAACCAATCATACGTCCCAC	[3, 7, 3, 8, 4, 7, 4, 8, 4, 9, 4, 10]
3848	CGGAGCTACCTGACCTCGGCTCTGATTTCTAGTGACCTGGTATAATGG	[5, 9, 5, 10, 5, 7, 5, 8, 6, 7, 6, 8]
3849	CAGTCTTTGAGATGTTGGAAGGATTCATCCCCTTTAAGAATGATCGCA	[7, 3, 7, 4, 7, 1, 7, 2, 6, 1, 6, 2]
3850	GCGGCTGGACGACCCCGCCGTGCGACGACTGAGAACATCTTTTGGTTG	[9, 1, 9, 2, 8, 1, 8, 2, 8, 3, 8, 4]
3851	GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGTTCTGGTGCCAAAACT	[5, 3, 5, 4, 6, 3, 6, 4, 6, 5, 6, 6]
3852	GCGTAAAGATCTCGCACAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[7, 5, 7, 6, 7, 3, 7, 4, 8, 3, 8, 4]
3853	GCCGACTCGTTCAAGCGCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[7, 7, 7, 8, 7, 5, 7, 6, 6, 5, 6, 6]
3854	GACAAACGCATATCCTCGGCCCGCCAAATTAAACTATTATCTGGCTAT	[9, 5, 9, 6, 8, 5, 8, 6, 8, 7, 8, 8]
3855	CGGCTCTGATTTCTAGTGACCTGGTATAATGGCCCAAGCTTAGCATAA	[5, 7, 5, 8, 6, 7, 6, 8, 6, 9, 6, 10]
3856	AAAAGATGTCTGTCAGGCCGACTCGTTCAAGCACTATTATCTGGCTAT	[7, 9, 7, 10, 7, 7, 7, 8, 8, 7, 8, 8]
3857	CCGTCGAGCCCTGCGCGCGGCTGGACGACCCCGCCGTGCGACGACTGA	[9, 3, 9, 4, 9, 1, 9, 2, 8, 1, 8, 2]
3858	CAGTCTTTGAGATGTTGAACATCTTTTGGTTGCGGCCCGCCAAATTAA	[7, 3, 7, 4, 8, 3, 8, 4, 8, 5, 8, 6]
3859	TAGTCGATTACGCTTCGACAAACGCATATCCTCGGCCCGCCAAATTAA	[9, 7, 9, 8, 9, 5, 9, 6, 8, 5, 8, 6]
3860	GCCGACTCGTTCAAGCACTATTATCTGGCTATACGGTAATCGGGGGTG	[7, 7, 7, 8, 8, 7, 8, 8, 8, 9, 8, 10]
3861	TGACTTGGACGAGGTTTCACTGGGCGCTATACTATATTAGCTTACCCA	[11, 3, 11, 4, 10, 3, 10, 4, 10, 5, 10, 6]
3862	CCAGCGACCACTTCTGGAGAAAGATGCGGTGGCTCGCGTGGCACGTCT	[11, 7, 11, 8, 10, 7, 10, 8, 10, 9, 10, 10]
3863	TGACTTGGACGAGGTTACGACTCGTCGAACGAGGACTGTTCTACATAG	[11, 3, 11, 4, 11, 1, 11, 2, 12, 1, 12, 2]
3864	AGGAAACTCGAGGGGCTGACTTGGACGAGGTTTCACTGGGCGCTATAC	[11, 5, 11, 6, 11, 3, 11, 4, 10, 3, 10, 4]
3865	TAACTCCAAAGGAAACCAGCTATCCCATATTCTCCCTGTCTGTCGAGC	[13, 3, 13, 4, 12, 3, 12, 4, 12, 5, 12, 6]
3866	CCAGCGACCACTTCTGAGGAAACTCGAGGGGCTCCCTGTCTGTCGAGC	[11, 7, 11, 8, 11, 5, 11, 6, 12, 5, 12, 6]
3867	CAGTAGTTGTGATTAGCCAGCGACCACTTCTGGAGAAAGATGCGGTGG	[11, 9, 11, 10, 11, 7, 11, 8, 10, 7, 10, 8]
3868	GTTCAAACTAGGGGGCTTCTGACCAAAGCTCACTTGGGGGTGATATAC	[13, 7, 13, 8, 12, 7, 12, 8, 12, 9, 12, 10]
3869	ACGACTCGTCGAACGAGGACTGTTCTACATAGCAGCTATCCCATATTC	[11, 1, 11, 2, 12, 1, 12, 2, 12, 3, 12, 4]
3870	TAACTCCAAAGGAAACCTCACTAAACTCCTTCTAATGTGACTAAGCGT	[13, 3, 13, 4, 13, 1, 13, 2, 14, 1, 14, 2]
3871	GATGTAAGCGGACATCTAACTCCAAAGGAAACCAGCTATCCCATATTC	[13, 5, 13, 6, 13, 3, 13, 4, 12, 3, 12, 4]
3872	TATGCGACACCATGATCCGGATGAGTTATGAATATGCGCCCGATATCC	[15, 3, 15, 4, 14, 3, 14, 4, 14, 5, 14, 6]
3873	AGGAAACTCGAGGGGCTCCCTGTCTGTCGAGCTTCTGACCAAAGCTCA	[11, 5, 11, 6, 12, 5, 12, 6, 12, 7, 12, 8]

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3874	GTTCAAACTAGGGGGCGATGTAAGCGGACATCTATGCGCCCGATATCC	[13, 7, 13, 8, 13, 5, 13, 6, 14, 5, 14, 6]
3875	TGAGAATTGTAAACAGGTTCAAACTAGGGGGCTTCTGACCAAAGCTCA	[13, 9, 13, 10, 13, 7, 13, 8, 12, 7, 12, 8]
3876	AGCATAGCACCCTGCGAAGATAGGGTCACAGCGAACAGCTTAGAGCAG	[15, 7, 15, 8, 14, 7, 14, 8, 14, 9, 14, 10]
3877	CTCACTAAACTCCTTCTAATGTGACTAAGCGTCCGGATGAGTTATGAA	[13, 1, 13, 2, 14, 1, 14, 2, 14, 3, 14, 4]
3878	TATGCGACACCATGATTCAAGTTCGGATACGCTACCTATGGACGGGGA	[15, 3, 15, 4, 15, 1, 15, 2, 16, 1, 16, 2]
3879	GATCGTCATTGGGATATATGCGACACCATGATCCGGATGAGTTATGAA	[15, 5, 15, 6, 15, 3, 15, 4, 14, 3, 14, 4]
3880	CGTGTACCTCGAAATAATCGTTAGTTTCTCGATACAATCTCGAAGTAA	[17, 3, 17, 4, 16, 3, 16, 4, 16, 5, 16, 6]
3881	GATGTAAGCGGACATCTATGCGCCCGATATCCAAGATAGGGTCACAGC	[13, 5, 13, 6, 14, 5, 14, 6, 14, 7, 14, 8]
3882	AGCATAGCACCCTGCGGATCGTCATTGGGATATACAATCTCGAAGTAA	[15, 7, 15, 8, 15, 5, 15, 6, 16, 5, 16, 6]
3883	AGTAATACCTCTACCTAGCATAGCACCCTGCGAAGATAGGGTCACAGC	[15, 9, 15, 10, 15, 7, 15, 8, 14, 7, 14, 8]
3884	TTAACCTATGCCTTGGTAACTGATTTTCTCCTTGTTGGACGTAAGCGT	[17, 7, 17, 8, 16, 7, 16, 8, 16, 9, 16, 10]
3885	TCAAGTTCGGATACGCTACCTATGGACGGGGAATCGTTAGTTTCTCGA	[15, 1, 15, 2, 16, 1, 16, 2, 16, 3, 16, 4]
3886	CGTGTACCTCGAAATAGAAATAACGACCAGAAAGCACGAGGATTATCA	[17, 3, 17, 4, 17, 1, 17, 2, 18, 1, 18, 2]
3887	CTGTTCCGAAACAGGCCGTGTACCTCGAAATAATCGTTAGTTTCTCGA	[17, 5, 17, 6, 17, 3, 17, 4, 16, 3, 16, 4]
3888	GGGAGAGGGTGAAACAGGCCACCTGGCTCGGGAGCGGTAGCCTCCCAC	[19, 3, 19, 4, 18, 3, 18, 4, 18, 5, 18, 6]
3889	GATCGTCATTGGGATATACAATCTCGAAGTAATAACTGATTTTCTCCT	[15, 5, 15, 6, 16, 5, 16, 6, 16, 7, 16, 8]
3890	TTAACCTATGCCTTGGCTGTTCCGAAACAGGCAGCGGTAGCCTCCCAC	[17, 7, 17, 8, 17, 5, 17, 6, 18, 5, 18, 6]
3891	GGTTCCGCTAGCTGATTTAACCTATGCCTTGGTAACTGATTTTCTCCT	[17, 9, 17, 10, 17, 7, 17, 8, 16, 7, 16, 8]
3892	GCCGCCTCGGTTATACTCGTCAAGCCTGCTTTCTATGGTCCTTAATAT	[19, 7, 19, 8, 18, 7, 18, 8, 18, 9, 18, 10]
3893	GAAATAACGACCAGAAAGCACGAGGATTATCAGGCCACCTGGCTCGGG	[17, 1, 17, 2, 18, 1, 18, 2, 18, 3, 18, 4]
3894	GAGTGCCCCCTCGGCAGGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[19, 5, 19, 6, 19, 3, 19, 4, 18, 3, 18, 4]
3895	CTGTTCCGAAACAGGCAGCGGTAGCCTCCCACTCGTCAAGCCTGCTTT	[17, 5, 17, 6, 18, 5, 18, 6, 18, 7, 18, 8]
3896	CCATAGCTAACCCGATGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[19, 9, 19, 10, 19, 7, 19, 8, 18, 7, 18, 8]
3897	ACGTGGGAGTGCCCGAGCGTCTGAGGTATGGTTGTGCATTCCACGTGA	[21, 1, 21, 2, 20, 1, 20, 2, 20, 3, 20, 4]
3898	ACTAATTATCCATAACTGTGCACGTCAGGGATGTCGTACTTAAAGCAA	[21, 5, 21, 6, 20, 5, 20, 6, 20, 7, 20, 8]
3899	TTACCCACTATGTTGTACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[21, 3, 21, 4, 21, 1, 21, 2, 20, 1, 20, 2]
3900	GGTTTGGAGGGATTAGGCAATTGCTAGGTTGCCTCAAGTGCTAACAGT	[23, 1, 23, 2, 22, 1, 22, 2, 22, 3, 22, 4]
3901	ACTAATTATCCATAACTTACCCACTATGTTGTCTCAAGTGCTAACAGT	[21, 5, 21, 6, 21, 3, 21, 4, 22, 3, 22, 4]
3902	TCTCACCGGTGGCCGTACTAATTATCCATAACTGTGCACGTCAGGGAT	[21, 7, 21, 8, 21, 5, 21, 6, 20, 5, 20, 6]
3903	CATGGGCAATAAAGCTGTAGCCTGAGGCGCGCTGCTACATCAGTTTCT	[23, 5, 23, 6, 22, 5, 22, 6, 22, 7, 22, 8]
3904	TTGCACTCCTGGGGAATCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[21, 9, 21, 10, 21, 7, 21, 8, 22, 7, 22, 8]
3905	ATTGTAGGCACAATTTGGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[23, 3, 23, 4, 23, 1, 23, 2, 22, 1, 22, 2]
3906	AGTGGGCGAGATCGGCTAATCATTAGTGCTCCTTGATTCGATCACATA	[25, 1, 25, 2, 24, 1, 24, 2, 24, 3, 24, 4]
3907	TTACCCACTATGTTGTCTCAAGTGCTAACAGTGTAGCCTGAGGCGCGC	[21, 3, 21, 4, 22, 3, 22, 4, 22, 5, 22, 6]
3908	CATGGGCAATAAAGCTATTGTAGGCACAATTTTTGATTCGATCACATA	[23, 5, 23, 6, 23, 3, 23, 4, 24, 3, 24, 4]
3909	AGCTGCACCGTGTCACCATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[23, 7, 23, 8, 23, 5, 23, 6, 22, 5, 22, 6]
3910	ATGGGCTGGTGCCCCACGTACAGTAACCAACCCTTGATATTGAGGGAC	[25, 5, 25, 6, 24, 5, 24, 6, 24, 7, 24, 8]
3911	TCTCACCGGTGGCCGTTGCTACATCAGTTTCTAAACCATACTGAGGGC	[21, 7, 21, 8, 22, 7, 22, 8, 22, 9, 22, 10]
3912	ACCTCGTCATTCGGATAGCTGCACCGTGTCACCTTGATATTGAGGGAC	[23, 9, 23, 10, 23, 7, 23, 8, 24, 7, 24, 8]
3913	CTTAGTTAGTTCATAGAGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[25, 3, 25, 4, 25, 1, 25, 2, 24, 1, 24, 2]
3914	GACCAGATCTGCTAGAAACCACCAACATCCTCTTCATTAGGGGCGGAA	[27, 1, 27, 2, 26, 1, 26, 2, 26, 3, 26, 4]
3915	ATTGTAGGCACAATTTTTGATTCGATCACATACGTACAGTAACCAACC	[23, 3, 23, 4, 24, 3, 24, 4, 24, 5, 24, 6]
3916	ATGGGCTGGTGCCCCACTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[25, 5, 25, 6, 25, 3, 25, 4, 26, 3, 26, 4]
3917	GGTGTACCTGTGGGTAATGGGCTGGTGCCCCACGTACAGTAACCAACC	[25, 7, 25, 8, 25, 5, 25, 6, 24, 5, 24, 6]
3918	ACAGAGCTGAACTTCCCATGGTCGTTCTACTGGGGCCGAGCGCTGGGC	[27, 5, 27, 6, 26, 5, 26, 6, 26, 7, 26, 8]
3919	AGCTGCACCGTGTCACCTTGATATTGAGGGACAATATATGACTTGGTC	[23, 7, 23, 8, 24, 7, 24, 8, 24, 9, 24, 10]
3920	TTACATGTGCAAGTGAGGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[25, 9, 25, 10, 25, 7, 25, 8, 26, 7, 26, 8]
3921	CTTGACACCTTTCAATGACCAGATCTGCTAGAAACCACCAACATCCTC	[27, 3, 27, 4, 27, 1, 27, 2, 26, 1, 26, 2]
3922	TGCATTCCAATGTTTGATGGCCGCGTGGCTTATTTTAGTAAACACCCA	[29, 1, 29, 2, 28, 1, 28, 2, 28, 3, 28, 4]
3923	CTTAGTTAGTTCATAGTTCATTAGGGGCGGAACATGGTCGTTCTACTG	[25, 3, 25, 4, 26, 3, 26, 4, 26, 5, 26, 6]
3924	ACAGAGCTGAACTTCCCTTGACACCTTTCAATTTTTAGTAAACACCCA	[27, 5, 27, 6, 27, 3, 27, 4, 28, 3, 28, 4]
3925	TCGTATGATCATAGGAACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[27, 7, 27, 8, 27, 5, 27, 6, 26, 5, 26, 6]
3926	AACCACATAAAGTCGTCCGCCTCCGGTAGTCATCAAACTAAATACAGC	[29, 5, 29, 6, 28, 5, 28, 6, 28, 7, 28, 8]
3927	GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGCTCCTTATTGGCGATCG	[25, 7, 25, 8, 26, 7, 26, 8, 26, 9, 26, 10]
3928	GTACCGCCAGTTCTTGTCGTATGATCATAGGATCAAACTAAATACAGC	[27, 9, 27, 10, 27, 7, 27, 8, 28, 7, 28, 8]
3929	TTAAGACGGCCGGTGTTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[29, 3, 29, 4, 29, 1, 29, 2, 28, 1, 28, 2]
3930	CTTGACACCTTTCAATTTTTAGTAAACACCCACCGCCTCCGGTAGTCA	[27, 3, 27, 4, 28, 3, 28, 4, 28, 5, 28, 6]
3931	ACGCGGAACGTAATGGAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[29, 7, 29, 8, 29, 5, 29, 6, 28, 5, 28, 6]
3932	TCGTATGATCATAGGATCAAACTAAATACAGCGACAAAAACAGATTTG	[27, 7, 27, 8, 28, 7, 28, 8, 28, 9, 28, 10]
3933	GTAGTGGCCGGCCATCGTGGACTAGAAAGCGCACGTGCGGCTTCTCCT	[31, 3, 31, 4, 30, 3, 30, 4, 30, 5, 30, 6]
3934	GAACCAGAACCATTTAAGAGTAGGGGCAGTGCGTATCGCCTTGTGTAT	[31, 7, 31, 8, 30, 7, 30, 8, 30, 9, 30, 10]
3935	GTAGTGGCCGGCCATCTATACTCTTGCGGGGGGGTCGAGCGCTCCACT	[31, 3, 31, 4, 31, 1, 31, 2, 32, 1, 32, 2]
3936	CGGCAATCTGAATATCGTAGTGGCCGGCCATCGTGGACTAGAAAGCGC	[31, 5, 31, 6, 31, 3, 31, 4, 30, 3, 30, 4]
3937	TCATGTGGGATCCTAAAGTTTCTGGTAGACCTGCTACCTCCGATACGC	[33, 3, 33, 4, 32, 3, 32, 4, 32, 5, 32, 6]
3938	GAACCAGAACCATTTACGGCAATCTGAATATCGCTACCTCCGATACGC	[31, 7, 31, 8, 31, 5, 31, 6, 32, 5, 32, 6]
3939	TCAGCCAAACAGTGGGGAACCAGAACCATTTAAGAGTAGGGGCAGTGC	[31, 9, 31, 10, 31, 7, 31, 8, 30, 7, 30, 8]
3940	TCGTTTACTGCACGGAACGAGAGTGCTGGCATACATCTCGGAAAGGTG	[33, 7, 33, 8, 32, 7, 32, 8, 32, 9, 32, 10]
3941	TATACTCTTGCGGGGGGGTCGAGCGCTCCACTAGTTTCTGGTAGACCT	[31, 1, 31, 2, 32, 1, 32, 2, 32, 3, 32, 4]
3942	TCATGTGGGATCCTAATCCCAAGTGCAAGTAAAAAAGGAATTATGAGA	[33, 3, 33, 4, 33, 1, 33, 2, 34, 1, 34, 2]
3943	CGTAGGCTAGAGCGGTTCATGTGGGATCCTAAAGTTTCTGGTAGACCT	[33, 5, 33, 6, 33, 3, 33, 4, 32, 3, 32, 4]
3944	CGAACGAGATCGTCCTAGACGACGGATCTCCTGATATCCACGGTACAT	[35, 3, 35, 4, 34, 3, 34, 4, 34, 5, 34, 6]
3945	CGGCAATCTGAATATCGCTACCTCCGATACGCACGAGAGTGCTGGCAT	[31, 5, 31, 6, 32, 5, 32, 6, 32, 7, 32, 8]
3946	TCGTTTACTGCACGGACGTAGGCTAGAGCGGTGATATCCACGGTACAT	[33, 7, 33, 8, 33, 5, 33, 6, 34, 5, 34, 6]
3947	AAGCAAGAGAAACCTATCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[33, 9, 33, 10, 33, 7, 33, 8, 32, 7, 32, 8]
3948	TTTAACGCTTTAGACCCAGCTTGACGCAAGACACTTGGGGACTAAGAT	[35, 7, 35, 8, 34, 7, 34, 8, 34, 9, 34, 10]
3949	TCCCAAGTGCAAGTAAAAAAGGAATTATGAGAAGACGACGGATCTCCT	[33, 1, 33, 2, 34, 1, 34, 2, 34, 3, 34, 4]
3950	CGAACGAGATCGTCCTCGTTGCGAATTTTCGCGCGATTCGCATGTAGC	[35, 3, 35, 4, 35, 1, 35, 2, 36, 1, 36, 2]
3951	GCATGCCGGTAGCACCCGAACGAGATCGTCCTAGACGACGGATCTCCT	[35, 5, 35, 6, 35, 3, 35, 4, 34, 3, 34, 4]
3952	CAAGTTCCTGCGGCGGCTGTACGAATGAGTCCGTCAAATATGCGTGCT	[37, 3, 37, 4, 36, 3, 36, 4, 36, 5, 36, 6]
3953	CGTAGGCTAGAGCGGTGATATCCACGGTACATCAGCTTGACGCAAGAC	[33, 5, 33, 6, 34, 5, 34, 6, 34, 7, 34, 8]

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3954	TTTAACGCTTTAGACCGCATGCCGGTAGCACCGTCAAATATGCGTGCT	[35, 7, 35, 8, 35, 5, 35, 6, 36, 5, 36, 6]
3955	GCTAATCACTGGGCAGTTTAACGCTTTAGACCCAGCTTGACGCAAGAC	[35, 9, 35, 10, 35, 7, 35, 8, 34, 7, 34, 8]
3956	CACCAGCAGGATGTCGAGCCCACAACTTGACAGGTCCTAGGTTGCAGA	[37, 7, 37, 8, 36, 7, 36, 8, 36, 9, 36, 10]
3957	CGTTGCGAATTTTCGCGCGATTCGCATGTAGCCTGTACGAATGAGTCC	[35, 1, 35, 2, 36, 1, 36, 2, 36, 3, 36, 4]
3958	CAAGTTCCTGCGGCGGAACCTACCCCCTAAGCAGCGTAGTAAGGGTTA	[37, 3, 37, 4, 37, 1, 37, 2, 38, 1, 38, 2]
3959	GGCCTTGACATGACATCAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	[37, 5, 37, 6, 37, 3, 37, 4, 36, 3, 36, 4]
3960	TGCGTACGGCTTTTATATAGCGTAGACCGGACTCTCCCACCCGTCCAA	[39, 3, 39, 4, 38, 3, 38, 4, 38, 5, 38, 6]
3961	GCATGCCGGTAGCACCGTCAAATATGCGTGCTAGCCCACAACTTGACA	[35, 5, 35, 6, 36, 5, 36, 6, 36, 7, 36, 8]
3962	CACCAGCAGGATGTCGGGCCTTGACATGACATTCTCCCACCCGTCCAA	[37, 7, 37, 8, 37, 5, 37, 6, 38, 5, 38, 6]
3963	GTAGTACAGTATCTTTCACCAGCAGGATGTCGAGCCCACAACTTGACA	[37, 9, 37, 10, 37, 7, 37, 8, 36, 7, 36, 8]
3964	AGAGTCGTTATGCCCCCCGGTTCTGCTAGAGTTTTCATGGCGGCGATG	[39, 7, 39, 8, 38, 7, 38, 8, 38, 9, 38, 10]
3965	AACCTACCCCCTAAGCAGCGTAGTAAGGGTTAATAGCGTAGACCGGAC	[37, 1, 37, 2, 38, 1, 38, 2, 38, 3, 38, 4]
3966	AACCCCGTAAATCGTATGCGTACGGCTTTTATATAGCGTAGACCGGAC	[39, 5, 39, 6, 39, 3, 39, 4, 38, 3, 38, 4]
3967	GGCCTTGACATGACATTCTCCCACCCGTCCAACCGGTTCTGCTAGAGT	[37, 5, 37, 6, 38, 5, 38, 6, 38, 7, 38, 8]
3968	GGGACTGGATCAGATGAGAGTCGTTATGCCCCCCGGTTCTGCTAGAGT	[39, 9, 39, 10, 39, 7, 39, 8, 38, 7, 38, 8]
3969	CGCGCTTACCAAGTAACGTATGTACGACGCGATTCAAGTATTCGGTGA	[41, 1, 41, 2, 40, 1, 40, 2, 40, 3, 40, 4]
3970	GGCCAGGCGATCTAAGTCTGGCGCGTGAGGACCCTCCCCGCATTACAA	[41, 5, 41, 6, 40, 5, 40, 6, 40, 7, 40, 8]
3971	TGCGAGTGAACGGGTGCGCGCTTACCAAGTAACGTATGTACGACGCGA	[41, 3, 41, 4, 41, 1, 41, 2, 40, 1, 40, 2]
3972	CGGACTGCATTCTGGACAGTAACTGCATTAACGATGAATTTCGTTCGG	[43, 1, 43, 2, 42, 1, 42, 2, 42, 3, 42, 4]
3973	GGCCAGGCGATCTAAGTGCGAGTGAACGGGTGGATGAATTTCGTTCGG	[41, 5, 41, 6, 41, 3, 41, 4, 42, 3, 42, 4]
3974	ACGTAAGTTGAAGTAGGGCCAGGCGATCTAAGTCTGGCGCGTGAGGAC	[41, 7, 41, 8, 41, 5, 41, 6, 40, 5, 40, 6]
3975	AGTTGAAAATTATCTCGATAAGCAGAAGGACCGAAGCTTTTTCTAGCC	[43, 5, 43, 6, 42, 5, 42, 6, 42, 7, 42, 8]
3976	ATAGCATCGACACTACACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCC	[41, 9, 41, 10, 41, 7, 41, 8, 42, 7, 42, 8]
3977	TACGTGCTCCCAACATCGGACTGCATTCTGGACAGTAACTGCATTAAC	[43, 3, 43, 4, 43, 1, 43, 2, 42, 1, 42, 2]
3978	AACGGTTTCCCGGACCTAGTGTCTATCAAGTCAAGTGACGTCCTCAGC	[45, 1, 45, 2, 44, 1, 44, 2, 44, 3, 44, 4]
3979	TGCGAGTGAACGGGTGGATGAATTTCGTTCGGGATAAGCAGAAGGACC	[41, 3, 41, 4, 42, 3, 42, 4, 42, 5, 42, 6]
3980	AGTTGAAAATTATCTCTACGTGCTCCCAACATAAGTGACGTCCTCAGC	[43, 5, 43, 6, 43, 3, 43, 4, 44, 3, 44, 4]
3981	TGTATAACTGGCAAGAAGTTGAAAATTATCTCGATAAGCAGAAGGACC	[43, 7, 43, 8, 43, 5, 43, 6, 42, 5, 42, 6]
3982	TCACTGTTGTGACCTACGAGAAGCGTATAGATGACAAGGCCGCTTCAG	[45, 5, 45, 6, 44, 5, 44, 6, 44, 7, 44, 8]
3983	ACGTAAGTTGAAGTAGGAAGCTTTTTCTAGCCGTATTAATGCCGCGCC	[41, 7, 41, 8, 42, 7, 42, 8, 42, 9, 42, 10]
3984	AAAGGATAGCCGGACCTGTATAACTGGCAAGAGACAAGGCCGCTTCAG	[43, 9, 43, 10, 43, 7, 43, 8, 44, 7, 44, 8]
3985	TATTCTATGAAACCATAACGGTTTCCCGGACCTAGTGTCTATCAAGTC	[45, 3, 45, 4, 45, 1, 45, 2, 44, 1, 44, 2]
3986	ATACGACAGGTGGCAAACCACCTCCGATGTCATCTCGGGTCGAGCGGG	[47, 1, 47, 2, 46, 1, 46, 2, 46, 3, 46, 4]
3987	TACGTGCTCCCAACATAAGTGACGTCCTCAGCCGAGAAGCGTATAGAT	[43, 3, 43, 4, 44, 3, 44, 4, 44, 5, 44, 6]
3988	TCACTGTTGTGACCTATATTCTATGAAACCATTCTCGGGTCGAGCGGG	[45, 5, 45, 6, 45, 3, 45, 4, 46, 3, 46, 4]
3989	GTTCCGCGCGAATAGCTCACTGTTGTGACCTACGAGAAGCGTATAGAT	[45, 7, 45, 8, 45, 5, 45, 6, 44, 5, 44, 6]
3990	ACCGAGGATTCGCAGGTCCATGGGATTCACCATCACAGGCGAACTACG	[47, 5, 47, 6, 46, 5, 46, 6, 46, 7, 46, 8]
3991	TGTATAACTGGCAAGAGACAAGGCCGCTTCAGCGCTCCTCGGGAATTA	[43, 7, 43, 8, 44, 7, 44, 8, 44, 9, 44, 10]

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3992	TATGAATTGGTTTAAAGTTCCGCGCGAATAGCTCACAGGCGAACTACG	[45, 9, 45, 10, 45, 7, 45, 8, 46, 7, 46, 8]
3993	GCGCCGCATACCCATTATACGACAGGTGGCAAACCACCTCCGATGTCA	[47, 3, 47, 4, 47, 1, 47, 2, 46, 1, 46, 2]
3994	ATTAGTGTACCCAGCAGTTCGGCTCCCTTGTGCACTGTGAATTTCCAC	[49, 1, 49, 2, 48, 1, 48, 2, 48, 3, 48, 4]
3995	TATTCTATGAAACCATTCTCGGGTCGAGCGGGTCCATGGGATTCACCA	[45, 3, 45, 4, 46, 3, 46, 4, 46, 5, 46, 6]
3996	ACCGAGGATTCGCAGGGCGCCGCATACCCATTCACTGTGAATTTCCAC	[47, 5, 47, 6, 47, 3, 47, 4, 48, 3, 48, 4]
3997	AGCTCGTATACACCCTACCGAGGATTCGCAGGTCCATGGGATTCACCA	[47, 7, 47, 8, 47, 5, 47, 6, 46, 5, 46, 6]
3998	TCGTCGTGTAATGCTGTTCCGGGGTAAATCAAGATTCTCCATGGCAGC	[49, 5, 49, 6, 48, 5, 48, 6, 48, 7, 48, 8]
3999	GTTCCGCGCGAATAGCTCACAGGCGAACTACGGAACTGGTAGATCACC	[45, 7, 45, 8, 46, 7, 46, 8, 46, 9, 46, 10]
4000	GCTTCGGTACAGGTCTAGCTCGTATACACCCTGATTCTCCATGGCAGC	[47, 9, 47, 10, 47, 7, 47, 8, 48, 7, 48, 8]
4001	GACTCGGGATACCCGGATTAGTGTACCCAGCAGTTCGGCTCCCTTGTG	[49, 3, 49, 4, 49, 1, 49, 2, 48, 1, 48, 2]
4002	GCGCCGCATACCCATTCACTGTGAATTTCCACTTCCGGGGTAAATCAA	[47, 3, 47, 4, 48, 3, 48, 4, 48, 5, 48, 6]
4003	GCTTTATAAATTCCCGTCGTCGTGTAATGCTGTTCCGGGGTAAATCAA	[49, 7, 49, 8, 49, 5, 49, 6, 48, 5, 48, 6]
4004	AGCTCGTATACACCCTGATTCTCCATGGCAGCTTTAGAGCCCGGCCGT	[47, 7, 47, 8, 48, 7, 48, 8, 48, 9, 48, 10]
4005	CTACTGGCGTTTTCATATATCAGAGAGCACAGAAAACCAGGCGCAATC	[51, 3, 51, 4, 50, 3, 50, 4, 50, 5, 50, 6]
4006	TCATATGGACACACCAGATTACGGCGGCTTAGTCATGGCATAAACGAA	[51, 7, 51, 8, 50, 7, 50, 8, 50, 9, 50, 10]
4007	CTACTGGCGTTTTCATACCCAATCATACGAGCGTGGAGGGAAGTTATT	[51, 3, 51, 4, 51, 1, 51, 2, 52, 1, 52, 2]
4008	TAATTCGGAGCCCGGCCTACTGGCGTTTTCATATATCAGAGAGCACAG	[51, 5, 51, 6, 51, 3, 51, 4, 50, 3, 50, 4]
4009	AAATGTTGGCTGAGATTGATTGGTTTAGTGTAGTATTATCGCGTCAAT	[53, 3, 53, 4, 52, 3, 52, 4, 52, 5, 52, 6]
4010	TCATATGGACACACCATAATTCGGAGCCCGGCGTATTATCGCGTCAAT	[51, 7, 51, 8, 51, 5, 51, 6, 52, 5, 52, 6]
4011	GGGAATTGAGTACAAGTCATATGGACACACCAGATTACGGCGGCTTAG	[51, 9, 51, 10, 51, 7, 51, 8, 50, 7, 50, 8]
4012	CAGGATCAAAGTTGACTAGCAGAATAATTTGCTGACGAAGAATACCGT	[53, 7, 53, 8, 52, 7, 52, 8, 52, 9, 52, 10]
4013	ACCCAATCATACGAGCGTGGAGGGAAGTTATTTGATTGGTTTAGTGTA	[51, 1, 51, 2, 52, 1, 52, 2, 52, 3, 52, 4]
4014	AAATGTTGGCTGAGATCCATCAGATGGAGCTGTCAGGCTTCTCCGTCA	[53, 3, 53, 4, 53, 1, 53, 2, 54, 1, 54, 2]
4015	TAGCGAGTAAGAGATAAAATGTTGGCTGAGATTGATTGGTTTAGTGTA	[53, 5, 53, 6, 53, 3, 53, 4, 52, 3, 52, 4]
4016	ACGAGCCACCACCTAGCACCTCCTGTTAGGGTTGTGGGAGGATCATTA	[55, 3, 55, 4, 54, 3, 54, 4, 54, 5, 54, 6]
4017	TAATTCGGAGCCCGGCGTATTATCGCGTCAATTAGCAGAATAATTTGC	[51, 5, 51, 6, 52, 5, 52, 6, 52, 7, 52, 8]
4018	CAGGATCAAAGTTGACTAGCGAGTAAGAGATATGTGGGAGGATCATTA	[53, 7, 53, 8, 53, 5, 53, 6, 54, 5, 54, 6]
4019	ATCCGAATAAGGTACGCAGGATCAAAGTTGACTAGCAGAATAATTTGC	[53, 9, 53, 10, 53, 7, 53, 8, 52, 7, 52, 8]
4020	CAGTTTTCGCTTGAGGAATAGTCCAAGAAATGCAATTACTATTTGTAC	[55, 7, 55, 8, 54, 7, 54, 8, 54, 9, 54, 10]
4021	CCATCAGATGGAGCTGTCAGGCTTCTCCGTCACACCTCCTGTTAGGGT	[53, 1, 53, 2, 54, 1, 54, 2, 54, 3, 54, 4]
4022	ACGAGCCACCACCTAGCGAAAACAAGGGCATACAGTAACGAAAAGCGA	[55, 3, 55, 4, 55, 1, 55, 2, 56, 1, 56, 2]
4023	GACACCCGGGATGGGTACGAGCCACCACCTAGCACCTCCTGTTAGGGT	[55, 5, 55, 6, 55, 3, 55, 4, 54, 3, 54, 4]
4024	GCTCGGTAGACCATGTCTCCAGTATTGCCATTTGTTCATCGGTCACCC	[57, 3, 57, 4, 56, 3, 56, 4, 56, 5, 56, 6]
4025	TAGCGAGTAAGAGATATGTGGGAGGATCATTAAATAGTCCAAGAAATG	[53, 5, 53, 6, 54, 5, 54, 6, 54, 7, 54, 8]
4026	CAGTTTTCGCTTGAGGGACACCCGGGATGGGTTGTTCATCGGTCACCC	[55, 7, 55, 8, 55, 5, 55, 6, 56, 5, 56, 6]
4027	CATGATAAAAGTTGTGCAGTTTTCGCTTGAGGAATAGTCCAAGAAATG	[55, 9, 55, 10, 55, 7, 55, 8, 54, 7, 54, 8]
4028	GATCAGCGAATTCGACACAATGGTATCTTTTGCCGCACTGGAATCTGA	[57, 7, 57, 8, 56, 7, 56, 8, 56, 9, 56, 10]
4029	CGAAAACAAGGGCATACAGTAACGAAAAGCGACTCCAGTATTGCCATT	[55, 1, 55, 2, 56, 1, 56, 2, 56, 3, 56, 4]
4030	GCTCGGTAGACCATGTAGATGCACCGGTTCTCGAGACACTCATTTACT	[57, 3, 57, 4, 57, 1, 57, 2, 58, 1, 58, 2]
4031	TTCTAATTAATACTTTGCTCGGTAGACCATGTCTCCAGTATTGCCATT	[57, 5, 57, 6, 57, 3, 57, 4, 56, 3, 56, 4]
4032	ATATAGGTCTGACACCCAGCTCCCAGGTAAGTTAATATAATGTCCGCG	[59, 3, 59, 4, 58, 3, 58, 4, 58, 5, 58, 6]
4033	GACACCCGGGATGGGTTGTTCATCGGTCACCCACAATGGTATCTTTTG	[55, 5, 55, 6, 56, 5, 56, 6, 56, 7, 56, 8]
4034	GATCAGCGAATTCGACTTCTAATTAATACTTTTAATATAATGTCCGCG	[57, 7, 57, 8, 57, 5, 57, 6, 58, 5, 58, 6]
4035	AAGCGCACGTAAACCGGATCAGCGAATTCGACACAATGGTATCTTTTG	[57, 9, 57, 10, 57, 7, 57, 8, 56, 7, 56, 8]
4036	AATGGTCGACAATATGTATTAAGTTTTCGCCGCTTGCCTGGGCCAATA	[59, 7, 59, 8, 58, 7, 58, 8, 58, 9, 58, 10]
4037	AGATGCACCGGTTCTCGAGACACTCATTTACTCAGCTCCCAGGTAAGT	[57, 1, 57, 2, 58, 1, 58, 2, 58, 3, 58, 4]
4038	GCGGAGAGAAATGGCTATATAGGTCTGACACCCAGCTCCCAGGTAAGT	[59, 5, 59, 6, 59, 3, 59, 4, 58, 3, 58, 4]
4039	TTCTAATTAATACTTTTAATATAATGTCCGCGTATTAAGTTTTCGCCG	[57, 5, 57, 6, 58, 5, 58, 6, 58, 7, 58, 8]
4040	TGAGCGATCAATGACCAATGGTCGACAATATGTATTAAGTTTTCGCCG	[59, 9, 59, 10, 59, 7, 59, 8, 58, 7, 58, 8]
4041	CTTCTACCTCTTAATGTATAATTCATCCTGTGCCAGTAATAGCCTGAA	[61, 1, 61, 2, 60, 1, 60, 2, 60, 3, 60, 4]
4042	GTTACCGCTATAATTAAGAACATTCGGGTTCGCACCCTGCATCGACGG	[61, 5, 61, 6, 60, 5, 60, 6, 60, 7, 60, 8]
4043	CATGGAAGCAGAGTTCCTTCTACCTCTTAATGTATAATTCATCCTGTG	[61, 3, 61, 4, 61, 1, 61, 2, 60, 1, 60, 2]
4044	AAGTGTTAATGCCGAGATCTAACTTGATTTTTCCATCGGCAAAATTGA	[63, 1, 63, 2, 62, 1, 62, 2, 62, 3, 62, 4]
4045	GTTACCGCTATAATTACATGGAAGCAGAGTTCCCATCGGCAAAATTGA	[61, 5, 61, 6, 61, 3, 61, 4, 62, 3, 62, 4]
4046	ACGTGGTCTATGTGATGTTACCGCTATAATTAAGAACATTCGGGTTCG	[61, 7, 61, 8, 61, 5, 61, 6, 60, 5, 60, 6]
4047	CATTCTATAGCCCGCGGTTACTAGGCGCCTTGCGCCTAGGCTAACCTC	[63, 5, 63, 6, 62, 5, 62, 6, 62, 7, 62, 8]
4048	ATGACTCCAGGAGAGGACGTGGTCTATGTGATCGCCTAGGCTAACCTC	[61, 9, 61, 10, 61, 7, 61, 8, 62, 7, 62, 8]
4049	ATTCAGAATCGAGACCAAGTGTTAATGCCGAGATCTAACTTGATTTTT	[63, 3, 63, 4, 63, 1, 63, 2, 62, 1, 62, 2]
4050	AGCTCTAGAGGGGAACCGTAGACTTCACATAATTGCTCTTGGACGTCT	[65, 1, 65, 2, 64, 1, 64, 2, 64, 3, 64, 4]
4051	CATGGAAGCAGAGTTCCCATCGGCAAAATTGAGTTACTAGGCGCCTTG	[61, 3, 61, 4, 62, 3, 62, 4, 62, 5, 62, 6]
4052	CATTCTATAGCCCGCGATTCAGAATCGAGACCTTGCTCTTGGACGTCT	[63, 5, 63, 6, 63, 3, 63, 4, 64, 3, 64, 4]
4053	CTCCTACGCTCAATAGCATTCTATAGCCCGCGGTTACTAGGCGCCTTG	[63, 7, 63, 8, 63, 5, 63, 6, 62, 5, 62, 6]
4054	ATGGTACACCCAGCATTCCTTCAGTCCGCCTATGAACCCTTACTATCG	[65, 5, 65, 6, 64, 5, 64, 6, 64, 7, 64, 8]
4055	ACGTGGTCTATGTGATCGCCTAGGCTAACCTCAATAAACGATACTTAA	[61, 7, 61, 8, 62, 7, 62, 8, 62, 9, 62, 10]
4056	CGACAGGATAGGTCAACTCCTACGCTCAATAGTGAACCCTTACTATCG	[63, 9, 63, 10, 63, 7, 63, 8, 64, 7, 64, 8]
4057	AAAACACTCGGCGAGTAGCTCTAGAGGGGAACCGTAGACTTCACATAA	[65, 3, 65, 4, 65, 1, 65, 2, 64, 1, 64, 2]
4058	TCATACAGCATTGTCTACCACCTATGTTCTTAGTTCTAGGGAGCGGGG	[67, 1, 67, 2, 66, 1, 66, 2, 66, 3, 66, 4]
4059	ATTCAGAATCGAGACCTTGCTCTTGGACGTCTTCCTTCAGTCCGCCTA	[63, 3, 63, 4, 64, 3, 64, 4, 64, 5, 64, 6]
4060	ATGGTACACCCAGCATAAAACACTCGGCGAGTGTTCTAGGGAGCGGGG	[65, 5, 65, 6, 65, 3, 65, 4, 66, 3, 66, 4]
4061	CTCATGATCTTTGATAATGGTACACCCAGCATTCCTTCAGTCCGCCTA	[65, 7, 65, 8, 65, 5, 65, 6, 64, 5, 64, 6]
4062	TAAGGTGGGGCCGACCACCGACCAAGGCGCTATTCTCCCAAATGGATA	[67, 5, 67, 6, 66, 5, 66, 6, 66, 7, 66, 8]
4063	CTCCTACGCTCAATAGTGAACCCTTACTATCGCTTGCCTATCGTGCCC	[63, 7, 63, 8, 64, 7, 64, 8, 64, 9, 64, 10]
4064	GGGCGTAAACAAAAAACTCATGATCTTTGATATTCTCCCAAATGGATA	[65, 9, 65, 10, 65, 7, 65, 8, 66, 7, 66, 8]
4065	TGCTGTTAACATAGATTCATACAGCATTGTCTACCACCTATGTTCTTA	[67, 3, 67, 4, 67, 1, 67, 2, 66, 1, 66, 2]
4066	TCCGTCCGTTGGAGCCCACGAACCAACGCATCCGTCGGGCGACCTTCG	[69, 1, 69, 2, 68, 1, 68, 2, 68, 3, 68, 4]
4067	AAAACACTCGGCGAGTGTTCTAGGGAGCGGGGACCGACCAAGGCGCTA	[65, 3, 65, 4, 66, 3, 66, 4, 66, 5, 66, 6]
4068	TAAGGTGGGGCCGACCTGCTGTTAACATAGATCGTCGGGCGACCTTCG	[67, 5, 67, 6, 67, 3, 67, 4, 68, 3, 68, 4]
4069	TAGGGTATACTCGTAATAAGGTGGGGCCGACCACCGACCAAGGCGCTA	[67, 7, 67, 8, 67, 5, 67, 6, 66, 5, 66, 6]
4070	ACCATTACCGGAGGCGCATTAGGTCTATTATAGCGATATCTGAATGCG	[69, 5, 69, 6, 68, 5, 68, 6, 68, 7, 68, 8]
4071	CTCATGATCTTTGATATTCTCCCAAATGGATAAAAATACCTTCGCCGG	[65, 7, 65, 8, 66, 7, 66, 8, 66, 9, 66, 10]

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4072	TAATACGAAACGACAATAGGGTATACTCGTAAGCGATATCTGAATGCG	[67, 9, 67, 10, 67, 7, 67, 8, 68, 7, 68, 8]
4073	CTTAGTGCTGTAGTTTTCCGTCCGTTGGAGCCCACGAACCAACGCATC	[69, 3, 69, 4, 69, 1, 69, 2, 68, 1, 68, 2]
4074	TGCTGTTAACATAGATCGTCGGGCGACCTTCGCATTAGGTCTATTATA	[67, 3, 67, 4, 68, 3, 68, 4, 68, 5, 68, 6]
4075	ATGGGACGCCACTACGACCATTACCGGAGGCGCATTAGGTCTATTATA	[69, 7, 69, 8, 69, 5, 69, 6, 68, 5, 68, 6]
4076	TAGGGTATACTCGTAAGCGATATCTGAATGCGGGCACTGTCACGGCGC	[67, 7, 67, 8, 68, 7, 68, 8, 68, 9, 68, 10]
4077	TAATATGGGGATTACCCTTCAATAAGTTGTAGGATGACCTCGCAGCCT	[71, 3, 71, 4, 70, 3, 70, 4, 70, 5, 70, 6]
4078	TCTCATGCGAAGCAGGATGTGTAATGGTGGGCGGCACAGCTTGGCGAT	[71, 7, 71, 8, 70, 7, 70, 8, 70, 9, 70, 10]
4079	TAATATGGGGATTACCATATCATCTACAATGTGTCTGACCCTTCACAT	[71, 3, 71, 4, 71, 1, 71, 2, 72, 1, 72, 2]
4080	GCATCAGCTGGCAGGTTAATATGGGGATTACCCTTCAATAAGTTGTAG	[71, 5, 71, 6, 71, 3, 71, 4, 70, 3, 70, 4]
4081	CCTGGGTCCTGCTGCCGCCCTTTGGGGTTCACGCCATCCTACCCGCTT	[73, 3, 73, 4, 72, 3, 72, 4, 72, 5, 72, 6]
4082	TCTCATGCGAAGCAGGGCATCAGCTGGCAGGTGCCATCCTACCCGCTT	[71, 7, 71, 8, 71, 5, 71, 6, 72, 5, 72, 6]
4083	GGACGATATCTGCGCCTCTCATGCGAAGCAGGATGTGTAATGGTGGGC	[71, 9, 71, 10, 71, 7, 71, 8, 70, 7, 70, 8]
4084	GTATGTGAAAGAGTCAAGCGTAAAGTCTTGACAGCGCCACGTCCCCAA	[73, 7, 73, 8, 72, 7, 72, 8, 72, 9, 72, 10]
4085	ATATCATCTACAATGTGTCTGACCCTTCACATGCCCTTTGGGGTTCAC	[71, 1, 71, 2, 72, 1, 72, 2, 72, 3, 72, 4]
4086	CCTGGGTCCTGCTGCCTTGTCGGGACCTGTCATTGGAGTGATGAACAA	[73, 3, 73, 4, 73, 1, 73, 2, 74, 1, 74, 2]
4087	GCCCGCGCATAACCTACCTGGGTCCTGCTGCCGCCCTTTGGGGTTCAC	[73, 5, 73, 6, 73, 3, 73, 4, 72, 3, 72, 4]
4088	GTCCCACGTCTTTAAATGTCCCGTGTTAGGGCAGTAATGTCTAGTGCC	[75, 3, 75, 4, 74, 3, 74, 4, 74, 5, 74, 6]
4089	GCATCAGCTGGCAGGTGCCATCCTACCCGCTTAGCGTAAAGTCTTGAC	[71, 5, 71, 6, 72, 5, 72, 6, 72, 7, 72, 8]
4090	GTATGTGAAAGAGTCAGCCCGCGCATAACCTAAGTAATGTCTAGTGCC	[73, 7, 73, 8, 73, 5, 73, 6, 74, 5, 74, 6]
4091	GTATTCCATCCAGCTGGTATGTGAAAGAGTCAAGCGTAAAGTCTTGAC	[73, 9, 73, 10, 73, 7, 73, 8, 72, 7, 72, 8]
4092	CCCTTAGCCGTACAAAGCGTTACTGACCCGCTACGGTATGGAAAGAAG	[75, 7, 75, 8, 74, 7, 74, 8, 74, 9, 74, 10]
4093	TTGTCGGGACCTGTCATTGGAGTGATGAACAATGTCCCGTGTTAGGGC	[73, 1, 73, 2, 74, 1, 74, 2, 74, 3, 74, 4]
4094	GTCCCACGTCTTTAAACGAAGGGGCTCGAGTCTACAGCAGAGCTACGC	[75, 3, 75, 4, 75, 1, 75, 2, 76, 1, 76, 2]
4095	TCGCATCTCGTGGAATGTCCCACGTCTTTAAATGTCCCGTGTTAGGGC	[75, 5, 75, 6, 75, 3, 75, 4, 74, 3, 74, 4]
4096	AATCCGATGACCCTAAGAGTCCCCGAAGAATACCATTCAGTTCACAGG	[77, 3, 77, 4, 76, 3, 76, 4, 76, 5, 76, 6]
4097	GCCCGCGCATAACCTAAGTAATGTCTAGTGCCGCGTTACTGACCCGCT	[73, 5, 73, 6, 74, 5, 74, 6, 74, 7, 74, 8]
4098	CCCTTAGCCGTACAAATCGCATCTCGTGGAATCCATTCAGTTCACAGG	[75, 7, 75, 8, 75, 5, 75, 6, 76, 5, 76, 6]
4099	GCAGGTAAATGCAAAACCCTTAGCCGTACAAAGCGTTACTGACCCGCT	[75, 9, 75, 10, 75, 7, 75, 8, 74, 7, 74, 8]
4100	AAAAGCAGTCAACCGGCGACGAGTAACGGCATCTATGTCTTTCTGAGG	[77, 7, 77, 8, 76, 7, 76, 8, 76, 9, 76, 10]
4101	CGAAGGGGCTCGAGTCTACAGCAGAGCTACGCGAGTCCCCGAAGAATA	[75, 1, 75, 2, 76, 1, 76, 2, 76, 3, 76, 4]
4102	AATCCGATGACCCTAAAGGAGCAGTTTGGGTCTACGGCACCGAGGCCT	[77, 3, 77, 4, 77, 1, 77, 2, 78, 1, 78, 2]
4103	GGATATTCTCCGCCGGAATCCGATGACCCTAAGAGTCCCCGAAGAATA	[77, 5, 77, 6, 77, 3, 77, 4, 76, 3, 76, 4]
4104	CACTGTGTGGACGTTTGAGCAATAGAAATTGACAAGTAAGCAGGGCGT	[79, 3, 79, 4, 78, 3, 78, 4, 78, 5, 78, 6]
4105	TCGCATCTCGTGGAATCCATTCAGTTCACAGGCGACGAGTAACGGCAT	[75, 5, 75, 6, 76, 5, 76, 6, 76, 7, 76, 8]
4106	AAAAGCAGTCAACCGGGGATATTCTCCGCCGGCAAGTAAGCAGGGCGT	[77, 7, 77, 8, 77, 5, 77, 6, 78, 5, 78, 6]
4107	CTTCCGACTTTTTATAAAAAAGCAGTCAACCGGCGACGAGTAACGGCAT	[77, 9, 77, 10, 77, 7, 77, 8, 76, 7, 76, 8]
4108	ATCGGCTCAAGACGTAGAATGAGCGACGCACCACTGCTGGGTGGGCGC	[79, 7, 79, 8, 78, 7, 78, 8, 78, 9, 78, 10]
4109	AGGAGCAGTTTGGGTCTACGGCACCGAGGCCTGAGCAATAGAAATTGA	[77, 1, 77, 2, 78, 1, 78, 2, 78, 3, 78, 4]
4110	TATGAGTTACCCTGCACACTGTGTGGACGTTTGAGCAATAGAAATTGA	[79, 5, 79, 6, 79, 3, 79, 4, 78, 3, 78, 4]
4111	GGATATTCTCCGCCGGCAAGTAAGCAGGGCGTGAATGAGCGACGCACC	[77, 5, 77, 6, 78, 5, 78, 6, 78, 7, 78, 8]
4112	TGATAATTAACACTCCATCGGCTCAAGACGTAGAATGAGCGACGCACC	[79, 9, 79, 10, 79, 7, 79, 8, 78, 7, 78, 8]
4113	TGTCCAAGACAACATGACTACAGTTGACCGGGATGCGGAGAGGTAGGC	[81, 1, 81, 2, 80, 1, 80, 2, 80, 3, 80, 4]
4114	ATGGTTAAGTATAGGTCCTTGTTACGATGGCAAGCGTCGCTTAAAGTG	[81, 5, 81, 6, 80, 5, 80, 6, 80, 7, 80, 8]
4115	GGTGCAAAAAGCGCAATGTCCAAGACAACATGACTACAGTTGACCGGG	[81, 3, 81, 4, 81, 1, 81, 2, 80, 1, 80, 2]
4116	TCTCTATCGTACACATCTCTGGCTTTACCAAGCGGCGCCGATTGATCA	[83, 1, 83, 2, 82, 1, 82, 2, 82, 3, 82, 4]
4117	ATGGTTAAGTATAGGTGGTGCAAAAAGCGCAACGGCGCCGATTGATCA	[81, 5, 81, 6, 81, 3, 81, 4, 82, 3, 82, 4]
4118	GCAATATTCGGACCTTATGGTTAAGTATAGGTCCTTGTTACGATGGCA	[81, 7, 81, 8, 81, 5, 81, 6, 80, 5, 80, 6]
4119	TCCGGGATGGGTGCCACCGCAACCTTTACGTGCCACCGGGTCTGTTCC	[83, 5, 83, 6, 82, 5, 82, 6, 82, 7, 82, 8]
4120	ATTGAGCAGGAATACTGCAATATTCGGACCTTCCACCGGGTCTGTTCC	[81, 9, 81, 10, 81, 7, 81, 8, 82, 7, 82, 8]
4121	CCACTAACGGGACAGTTCTCTATCGTACACATCTCTGGCTTTACCAAG	[83, 3, 83, 4, 83, 1, 83, 2, 82, 1, 82, 2]
4122	GTCCAAGTAAGGGCAATCGTATTTGATGCCCGCGGAACATGCACGATG	[85, 1, 85, 2, 84, 1, 84, 2, 84, 3, 84, 4]
4123	GGTGCAAAAAGCGCAACGGCGCCGATTGATCACCGCAACCTTTACGTG	[81, 3, 81, 4, 82, 3, 82, 4, 82, 5, 82, 6]
4124	TCCGGGATGGGTGCCACCACTAACGGGACAGTCGGAACATGCACGATG	[83, 5, 83, 6, 83, 3, 83, 4, 84, 3, 84, 4]
4125	TTTAGGGAATACAAGATCCGGGATGGGTGCCACCGCAACCTTTACGTG	[83, 7, 83, 8, 83, 5, 83, 6, 82, 5, 82, 6]
4126	CCGTCACGCATTGTGGTTCGCCGCGTCGTTTTTTCAGCAGCCTTACTC	[85, 5, 85, 6, 84, 5, 84, 6, 84, 7, 84, 8]
4127	GCAATATTCGGACCTTCCACCGGGTCTGTTCCGGAACAACGGGTGTCA	[81, 7, 81, 8, 82, 7, 82, 8, 82, 9, 82, 10]
4128	AGCAATATCACGGACATTTAGGGAATACAAGATTCAGCAGCCTTACTC	[83, 9, 83, 10, 83, 7, 83, 8, 84, 7, 84, 8]
4129	TGTGTATGCTCACTTTGTCCAAGTAAGGGCAATCGTATTTGATGCCCG	[85, 3, 85, 4, 85, 1, 85, 2, 84, 1, 84, 2]
4130	AAGCATCGCGTCCTTGGCATCCGCTCGCATGGTCTGGCGCCGGCTTAG	[87, 1, 87, 2, 86, 1, 86, 2, 86, 3, 86, 4]
4131	CCACTAACGGGACAGTCGGAACATGCACGATGTTCGCCGCGTCGTTTT	[83, 3, 83, 4, 84, 3, 84, 4, 84, 5, 84, 6]
4132	CCGTCACGCATTGTGGTGTGTATGCTCACTTTTCTGGCGCCGGCTTAG	[85, 5, 85, 6, 85, 3, 85, 4, 86, 3, 86, 4]
4133	CTCAGTTTAAGATTCACCGTCACGCATTGTGGTTCGCCGCGTCGTTTT	[85, 7, 85, 8, 85, 5, 85, 6, 84, 5, 84, 6]
4134	CCTCATGTAACGGTCGTATCCGCCTATCTCGCACAGGACGATGTTCTC	[87, 5, 87, 6, 86, 5, 86, 6, 86, 7, 86, 8]
4135	TTTAGGGAATACAAGATTCAGCAGCCTTACTCATTTTGGCGGAACGGG	[83, 7, 83, 8, 84, 7, 84, 8, 84, 9, 84, 10]
4136	ACCTCTTCAGGTCTTACTCAGTTTAAGATTCAACAGGACGATGTTCTC	[85, 9, 85, 10, 85, 7, 85, 8, 86, 7, 86, 8]
4137	TTAAGATGTGTGGCAAAAGCATCGCGTCCTTGGCATCCGCTCGCATGG	[87, 3, 87, 4, 87, 1, 87, 2, 86, 1, 86, 2]
4138	TACGCGGGCAATGGAGGTGGGCGCAAACCGTTTACAATATAGTTATAT	[89, 1, 89, 2, 88, 1, 88, 2, 88, 3, 88, 4]
4139	TGTGTATGCTCACTTTTCTGGCGCCGGCTTAGTATCCGCCTATCTCGC	[85, 3, 85, 4, 86, 3, 86, 4, 86, 5, 86, 6]
4140	CCTCATGTAACGGTCGTTAAGATGTGTGGCAATACAATATAGTTATAT	[87, 5, 87, 6, 87, 3, 87, 4, 88, 3, 88, 4]
4141	AGAGTTCTACCAGCCACCTCATGTAACGGTCGTATCCGCCTATCTCGC	[87, 7, 87, 8, 87, 5, 87, 6, 86, 5, 86, 6]
4142	TTCAACTTTTAAACAGTTGAAGGTTTGAACCAAGAGAGTCGCAGCCCT	[89, 5, 89, 6, 88, 5, 88, 6, 88, 7, 88, 8]
4143	CTCAGTTTAAGATTCAACAGGACGATGTTCTCCATCTCTGCCTCGACG	[85, 7, 85, 8, 86, 7, 86, 8, 86, 9, 86, 10]
4144	TCATCGTAGGACATCAAGAGTTCTACCAGCCAAGAGAGTCGCAGCCCT	[87, 9, 87, 10, 87, 7, 87, 8, 88, 7, 88, 8]
4145	ACCACACTTGTCCCGATACGCGGGCAATGGAGGTGGGCGCAAACCGTT	[89, 3, 89, 4, 89, 1, 89, 2, 88, 1, 88, 2]
4146	TTAAGATGTGTGGCAATACAATATAGTTATATTTGAAGGTTTGAACCA	[87, 3, 87, 4, 88, 3, 88, 4, 88, 5, 88, 6]
4147	GTAGAGTCGTAGACGATTCAACTTTTAAACAGTTGAAGGTTTGAACCA	[89, 7, 89, 8, 89, 5, 89, 6, 88, 5, 88, 6]
4148	AGAGTTCTACCAGCCAAGAGAGTCGCAGCCCTTTATTGAGACCTATCT	[87, 7, 87, 8, 88, 7, 88, 8, 88, 9, 88, 10]
4149	TGCGTTCGACGCCTGCTTCCGTGGCCCCGCAAGTTCACAAGCTGGCTA	[91, 3, 91, 4, 90, 3, 90, 4, 90, 5, 90, 6]
4150	CAGCACAAACCCTCGCGGGTGATCGGCCGTTATAGTACAGTGGGAGTG	[91, 7, 91, 8, 90, 7, 90, 8, 90, 9, 90, 10]
4151	TGCGTTCGACGCCTGCATCACGCTCTACAGCACCGTGATGAGACTTCG	[91, 3, 91, 4, 91, 1, 91, 2, 92, 1, 92, 2]

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4152	CCGCATCGCTGAGGGGTGCGTTCGACGCCTGCTTCCGTGGCCCCGCAA	[91, 5, 91, 6, 91, 3, 91, 4, 90, 3, 90, 4]
4153	GCTGCCGACACGAGGCACACGGCGTCAGCGATGAGGGGATAGCATACC	[93, 3, 93, 4, 92, 3, 92, 4, 92, 5, 92, 6]
4154	CAGCACAAACCCTCGCCCGCATCGCTGAGGGGGAGGGGATAGCATACC	[91, 7, 91, 8, 91, 5, 91, 6, 92, 5, 92, 6]
4155	GTCGTAATGTGCTGTGCAGCACAAACCCTCGCGGGTGATCGGCCGTTA	[91, 9, 91, 10, 91, 7, 91, 8, 90, 7, 90, 8]
4156	TTGTGTTGGGTGTAGTGGATTCATTTAACTACTTCTATCGATCTCCTT	[93, 7, 93, 8, 92, 7, 92, 8, 92, 9, 92, 10]
4157	ATCACGCTCTACAGCACCGTGATGAGACTTCGACACGGCGTCAGCGAT	[91, 1, 91, 2, 92, 1, 92, 2, 92, 3, 92, 4]
4158	GCTGCCGACACGAGGCCGCAACAAAATGCAAAACCATGTTGAAATTGT	[93, 3, 93, 4, 93, 1, 93, 2, 94, 1, 94, 2]
4159	CGCATCTACCTAGCAAGCTGCCGACACGAGGCACACGGCGTCAGCGAT	[93, 5, 93, 6, 93, 3, 93, 4, 92, 3, 92, 4]
4160	AGGTACACTCCGGGGAGTAGTCTGTAGGGTGATAAGACAAGTAGAACA	[95, 3, 95, 4, 94, 3, 94, 4, 94, 5, 94, 6]
4161	CCGCATCGCTGAGGGGGAGGGGATAGCATACCGGATTCATTTAACTAC	[91, 5, 91, 6, 92, 5, 92, 6, 92, 7, 92, 8]
4162	TTGTGTTGGGTGTAGTCGCATCTACCTAGCAATAAGACAAGTAGAACA	[93, 7, 93, 8, 93, 5, 93, 6, 94, 5, 94, 6]
4163	CGATGTTATTACCTAATTGTGTTGGGTGTAGTGGATTCATTTAACTAC	[93, 9, 93, 10, 93, 7, 93, 8, 92, 7, 92, 8]
4164	CGCAGCACTACGCTCCAAATACTGCCCACGGTTACCATGAGGAGCAGG	[95, 7, 95, 8, 94, 7, 94, 8, 94, 9, 94, 10]
4165	CGCAACAAAATGCAAAACCATGTTGAAATTGTGTAGTCTGTAGGGTGA	[93, 1, 93, 2, 94, 1, 94, 2, 94, 3, 94, 4]
4166	AGGTACACTCCGGGGAGATTGACTAATACATTTATGAATCCAGACACG	[95, 3, 95, 4, 95, 1, 95, 2, 96, 1, 96, 2]
4167	TATACCCGGCAAGCTCAGGTACACTCCGGGGAGTAGTCTGTAGGGTGA	[95, 5, 95, 6, 95, 3, 95, 4, 94, 3, 94, 4]
4168	CGCGACCACATTGGCACTATAAGACTACTCCAGTCAAGTGGTATAGCC	[97, 3, 97, 4, 96, 3, 96, 4, 96, 5, 96, 6]
4169	CGCATCTACCTAGCAATAAGACAAGTAGAACAAAATACTGCCCACGGT	[93, 5, 93, 6, 94, 5, 94, 6, 94, 7, 94, 8]
4170	CGCAGCACTACGCTCCTATACCCGGCAAGCTCGTCAAGTGGTATAGCC	[95, 7, 95, 8, 95, 5, 95, 6, 96, 5, 96, 6]
4171	ATTAGGCACTCCATAACGCAGCACTACGCTCCAAATACTGCCCACGGT	[95, 9, 95, 10, 95, 7, 95, 8, 94, 7, 94, 8]
4172	CCTCGTGATATCAGAGGTCGTAACTCGGTCGCAGGCGTCTCAGGAAGT	[97, 7, 97, 8, 96, 7, 96, 8, 96, 9, 96, 10]
4173	GATTGACTAATACATTTATGAATCCAGACACGCTATAAGACTACTCCA	[95, 1, 95, 2, 96, 1, 96, 2, 96, 3, 96, 4]
4174	CGCGACCACATTGGCAGTTTTGTGCTCGACAATACCCTCCCTCTGCGG	[97, 3, 97, 4, 97, 1, 97, 2, 98, 1, 98, 2]
4175	ACCACCTGTTGACCGACGCGACCACATTGGCACTATAAGACTACTCCA	[97, 5, 97, 6, 97, 3, 97, 4, 96, 3, 96, 4]
4176	TAGACTCAGCGTGAGGTATGGGCCTCATCCCCTCCAGAGCTAAGAAAA	[99, 3, 99, 4, 98, 3, 98, 4, 98, 5, 98, 6]
4177	TATACCCGGCAAGCTCGTCAAGTGGTATAGCCGTCGTAACTCGGTCGC	[95, 5, 95, 6, 96, 5, 96, 6, 96, 7, 96, 8]
4178	CCTCGTGATATCAGAGACCACCTGTTGACCGATCCAGAGCTAAGAAAA	[97, 7, 97, 8, 97, 5, 97, 6, 98, 5, 98, 6]
4179	GGTATGCATTGGCTCACCTCGTGATATCAGAGGTCGTAACTCGGTCGC	[97, 9, 97, 10, 97, 7, 97, 8, 96, 7, 96, 8]
4180	TGACGCAGCATGTATGTACTCATCAGCACCTAAAACGTCTAGTATTTC	[99, 7, 99, 8, 98, 7, 98, 8, 98, 9, 98, 10]
4181	GTTTTGTGCTCGACAATACCCTCCCTCTGCGGTATGGGCCTCATCCCC	[97, 1, 97, 2, 98, 1, 98, 2, 98, 3, 98, 4]
4182	TGTTAAAACCCACAGGTAGACTCAGCGTGAGGTATGGGCCTCATCCCC	[99, 5, 99, 6, 99, 3, 99, 4, 98, 3, 98, 4]
4183	ACCACCTGTTGACCGATCCAGAGCTAAGAAAATACTCATCAGCACCTA	[97, 5, 97, 6, 98, 5, 98, 6, 98, 7, 98, 8]
4184	AACTTCGGGGCGCATTTGACGCAGCATGTATGTACTCATCAGCACCTA	[99, 9, 99, 10, 99, 7, 99, 8, 98, 7, 98, 8]
4185	AGCGAATTGAGCCACTTAACCTGGCCATCCCTCGAGGGTTTGTTTCAC	[0, 4, 0, 5, 0, 2, 0, 3, 19, 2, 19, 3]
4186	CGTGCACATCACGTGGCCTCTCCCTGCCGAGGGGGCACTCGTATAACC	[20, 4, 20, 5, 19, 4, 19, 5, 19, 6, 19, 7]
4187	CACCGTTCAACCGTGAGTATGATTTCCGGTTTGGGCACTCGTATAACC	[0, 8, 0, 9, 0, 6, 0, 7, 19, 6, 19, 7]
4188	CTACCGCTCCCGAGCCAGTTCGTATATGCTCTCTATCTTCGAGATGCG	[18, 4, 18, 5, 1, 4, 1, 5, 1, 6, 1, 7]
4189	GTATTAGCTTGAGACTACCCGAGCGCGGCCATGTTATTTCTATTTCGA	[2, 4, 2, 5, 2, 2, 2, 3, 17, 2, 17, 3]
4190	CAGGCTACACTGTTAGGGTACACGGCCTGTTTCGGAACAGCCAAGGCA	[22, 4, 22, 5, 17, 4, 17, 5, 17, 6, 17, 7]
4191	GGGGTCACTACTCGATCACTGAGTCGCTCAGCCGGAACAGCCAAGGCA	[2, 8, 2, 9, 2, 6, 2, 7, 17, 6, 17, 7]
4192	AGATTGTATCGAGAAAGCACCGAAAAAAGCCCGGGCTGATCCCGCAAC	[16, 4, 16, 5, 3, 4, 3, 5, 3, 6, 3, 7]
4193	CCATATCCTAAGCGTTACAGGCGGACAGCTAAGAACTTGAATCATGGT	[4, 4, 4, 5, 4, 2, 4, 3, 15, 2, 15, 3]
4194	ACTGTACGTATGTGATGTCGCATATATCCCAATGACGATCCGCAGGGT	[24, 4, 24, 5, 15, 4, 15, 5, 15, 6, 15, 7]
4195	TATGATTGGTTCCGGTTCAGAAACTTCCAGCTTGACGATCCGCAGGGT	[4, 8, 4, 9, 4, 6, 4, 7, 15, 6, 15, 7]
4196	GGCGCATATTCATAACACACTGACACCCTTTTGGCATCACCTAGAAAT	[14, 4, 14, 5, 5, 4, 5, 5, 5, 6, 5, 7]
4197	CACCAGAACCTAGCTAGAGGGAACTGCGATCATTAGTGAGGTTTCCTT	[6, 4, 6, 5, 6, 2, 6, 3, 13, 2, 13, 3]
4198	CGACCATGTTCCGCCCTGGAGTTAGATGTCCGCTTACATCGCCCCCTA	[26, 4, 26, 5, 13, 4, 13, 5, 13, 6, 13, 7]
4199	AGCTTGGGCCATTATACCAGGTCAAGTTTTGGCTTACATCGCCCCCTA	[6, 8, 6, 9, 6, 6, 6, 7, 13, 6, 13, 7]
4200	GACAGGGAGAATATGGAAAGACTGTGCGAGATCTTTACGCGCTTGAAC	[12, 4, 12, 5, 7, 4, 7, 5, 7, 6, 7, 7]
4201	GCGGGCCGCAACCAAAAGATGTTCTCAGTCGTCGAGTCGTAACCTCGT	[8, 4, 8, 5, 8, 2, 8, 3, 11, 2, 11, 3]
4202	GGAGGCGGTGGGTGTTCCAAGTCAGCCCCTCGAGTTTCCTCAGAAGTG	[28, 4, 28, 5, 11, 4, 11, 5, 11, 6, 11, 7]
4203	ATTACCGTATAGCCAGATAATAGTTTAATTTGAGTTTCCTCAGAAGTG	[8, 8, 8, 9, 8, 6, 8, 7, 11, 6, 11, 7]
4204	CTAATATAGTATAGCGCTCGACGGAGGATATGCGTTTGTCGAAGCGTA	[10, 4, 10, 5, 9, 4, 9, 5, 9, 6, 9, 7]
4205	CTAATATAGTATAGCGCCCAGTGACCAAGGAGGGAATGCAACACCGGC	[10, 4, 10, 5, 10, 2, 10, 3, 29, 2, 29, 3]
4206	TCTTTCTCTGGGTAAGCTAATATAGTATAGCGCTCGACGGAGGATATG	[10, 6, 10, 7, 10, 4, 10, 5, 9, 4, 9, 5]
4207	CCGCACGTGCGCTTTCCGTCTTAAACGACTTTATGTGGTTCCATTACG	[30, 4, 30, 5, 29, 4, 29, 5, 29, 6, 29, 7]
4208	CACGCGAGCCACCGCATCTTTCTCTGGGTAAGATGTGGTTCCATTACG	[10, 8, 10, 9, 10, 6, 10, 7, 29, 6, 29, 7]
4209	GACAGGGAGAATATGGGATAGCTGCTATGTAGATCTGGTCATTGAAAG	[12, 4, 12, 5, 12, 2, 12, 3, 27, 2, 27, 3]
4210	GGTCAGAAGCTCGACAGACAGGGAGAATATGGAAAGACTGTGCGAGAT	[12, 6, 12, 7, 12, 4, 12, 5, 7, 4, 7, 5]
4211	GAGGTAGCAGGTCTACGTGTCAAGGGAAGTTCAGCTCTGTTCCTATGA	[32, 4, 32, 5, 27, 4, 27, 5, 27, 6, 27, 7]
4212	CCCCCAAGTGAGCTTTGGTCAGAAGCTCGACAAGCTCTGTTCCTATGA	[12, 8, 12, 9, 12, 6, 12, 7, 27, 6, 27, 7]
4213	GGCGCATATTCATAACTCATCCGGACGCTTAGCGCCCACTCTATGAAC	[14, 4, 14, 5, 14, 2, 14, 3, 25, 2, 25, 3]
4214	CCTATCTTGGATATCGGGCGCATATTCATAACACACTGACACCCTTTT	[14, 6, 14, 7, 14, 4, 14, 5, 5, 4, 5, 5]
4215	TGGATATCAGGAGATCTAACTAAGTGGGGCACCAGCCCATTACCCACA	[34, 4, 34, 5, 25, 4, 25, 5, 25, 6, 25, 7]
4216	AGCTGTTCGCTGTGACCCTATCTTGGATATCGCAGCCCATTACCCACA	[14, 8, 14, 9, 14, 6, 14, 7, 25, 6, 25, 7]
4217	AGATTGTATCGAGAAACTAACGATTCCCCGTCTCCAAACCAAATTGTG	[16, 4, 16, 5, 16, 2, 16, 3, 23, 2, 23, 3]
4218	ATCAGTTATTACTTCGAGATTGTATCGAGAAAGCACCGAAAAAAGCCC	[16, 6, 16, 7, 16, 4, 16, 5, 3, 4, 3, 5]
4219	TATTTGACGGACTCATCCTACAATAGCTTTATTGCCCATGGTGACACG	[36, 4, 36, 5, 23, 4, 23, 5, 23, 6, 23, 7]
4220	GTCCAACAAGGAGAAAATCAGTTATTACTTCGTGCCCATGGTGACACG	[16, 8, 16, 9, 16, 6, 16, 7, 23, 6, 23, 7]
4221	CTACCGCTCCCGAGCCAGGTGGCCTGATAATCTCCCACGTACAACATA	[18, 4, 18, 5, 18, 2, 18, 3, 21, 2, 21, 3]
4222	CTTGACGAGTGGGAGGCTACCGCTCCCGAGCCAGTTCGTATATGCTCT	[18, 6, 18, 7, 18, 4, 18, 5, 1, 4, 1, 5]
4223	GTGGGAGAGTCCGGTCGTGGGTAAGTTATGGATAATTAGTACGGCCAC	[38, 4, 38, 5, 21, 4, 21, 5, 21, 6, 21, 7]
4224	GACCATAGAAAGCAGGCTTGACGAGTGGGAGGTAATTAGTACGGCCAC	[18, 8, 18, 9, 18, 6, 18, 7, 21, 6, 21, 7]
4225	TAACCTGGCCATCCCTCGAGGGTTTGTTTCACCCTCTCCCTGCCGAGG	[0, 2, 0, 3, 19, 2, 19, 3, 19, 4, 19, 5]
4226	CGTGCACATCACGTGGAATGCACAACCATACCAACGGCGAATAAAAGC	[20, 4, 20, 5, 20, 2, 20, 3, 39, 2, 39, 3]
4227	AGTACGACATCCCTGACGTGCACATCACGTGGCCTCTCCCTGCCGAGG	[20, 6, 20, 7, 20, 4, 20, 5, 19, 4, 19, 5]
4228	GCGCCAGATCACCGAACGTACGCATACGATTTACGGGGTTGGGGCATA	[40, 4, 40, 5, 39, 4, 39, 5, 39, 6, 39, 7]
4229	GTATGATTTCCGGTTTGGGCACTCGTATAACCGAGGCGGCATCGGGTT	[0, 6, 0, 7, 19, 6, 19, 7, 19, 8, 19, 9]
4230	AGTATAGTTTGCTTTAAGTACGACATCCCTGAACGGGGTTGGGGCATA	[20, 8, 20, 9, 20, 6, 20, 7, 39, 6, 39, 7]
4231	ACCCGAGCGCGGCCATGTTATTTCTATTTCGAGGTACACGGCCTGTTT	[2, 2, 2, 3, 17, 2, 17, 3, 17, 4, 17, 5]

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4232	CAGGCTACACTGTTAGCACTTGAGGCAACCTAGGTAGGTTCCGCCGCA	[22, 4, 22, 5, 22, 2, 22, 3, 37, 2, 37, 3]
4233	ATGTAGCAGCGCGCCTCAGGCTACACTGTTAGGGTACACGGCCTGTTT	[22, 6, 22, 7, 22, 4, 22, 5, 17, 4, 17, 5]
4234	TGCTTATCCCGAACGAGGAACTTGATGTCATGTCAAGGCCCGACATCC	[42, 4, 42, 5, 37, 4, 37, 5, 37, 6, 37, 7]
4235	CACTGAGTCGCTCAGCCGGAACAGCCAAGGCATAGGTTAAATCAGCTA	[2, 6, 2, 7, 17, 6, 17, 7, 17, 8, 17, 9]
4236	TATGGTTTAGAAACTGATGTAGCAGCGCGCCTTCAAGGCCCGACATCC	[22, 8, 22, 9, 22, 6, 22, 7, 37, 6, 37, 7]
4237	ACAGGCGGACAGCTAAGAACTTGAATCATGGTGTCGCATATATCCCAA	[4, 2, 4, 3, 15, 2, 15, 3, 15, 4, 15, 5]
4238	ACTGTACGTATGTGATCGAATCAAGGAGCACTTCGCAACGAGGACGAT	[24, 4, 24, 5, 24, 2, 24, 3, 35, 2, 35, 3]
4239	ATATCAAGGGTTGGTTACTGTACGTATGTGATGTCGCATATATCCCAA	[24, 6, 24, 7, 24, 4, 24, 5, 15, 4, 15, 5]
4240	GCTTCTCGGCTGAGGACTCGTTCGGGTGCTACCGGCATGCGGTCTAAA	[44, 4, 44, 5, 35, 4, 35, 5, 35, 6, 35, 7]
4241	TCAGAAACTTCCAGCTTGACGATCCGCAGGGTGCTATGCTAGGTAGAG	[4, 6, 4, 7, 15, 6, 15, 7, 15, 8, 15, 9]
4242	CATATATTGTCCCTCAATATCAAGGGTTGGTTCGGCATGCGGTCTAAA	[24, 8, 24, 9, 24, 6, 24, 7, 35, 6, 35, 7]
4243	GAGGGAACTGCGATCATTAGTGAGGTTTCCTTTGGAGTTAGATGTCCG	[6, 2, 6, 3, 13, 2, 13, 3, 13, 4, 13, 5]
4244	CGACCATGTTCCGCCCCTAATGAAGAGGATGTACTTGGGATTAGGATC	[26, 4, 26, 5, 26, 2, 26, 3, 33, 2, 33, 3]
4245	CTCGGCCCCAGTAGAACGACCATGTTCCGCCCTGGAGTTAGATGTCCG	[26, 6, 26, 7, 26, 4, 26, 5, 13, 4, 13, 5]
4246	CCCATGGACCCGCTCGCCACATGAACCGCTCTAGCCTACGTCCGTGCA	[46, 4, 46, 5, 33, 4, 33, 5, 33, 6, 33, 7]
4247	CCAGGTCAAGTTTTGGCTTACATCGCCCCCTAGTTTGAACCTGTTTAC	[6, 6, 6, 7, 13, 6, 13, 7, 13, 8, 13, 9]
4248	AATAAGGAGCCCAGCGCTCGGCCCCAGTAGAAAGCCTACGTCCGTGCA	[26, 8, 26, 9, 26, 6, 26, 7, 33, 6, 33, 7]
4249	AGATGTTCTCAGTCGTCGAGTCGTAACCTCGTCCAAGTCAGCCCCTCG	[8, 2, 8, 3, 11, 2, 11, 3, 11, 4, 11, 5]
4250	GGAGGCGGTGGGTGTTTACTAAAATAAGCCACAGAGTATAGATGGCCG	[28, 4, 28, 5, 28, 2, 28, 3, 31, 2, 31, 3]
4251	TAGTTTGATGACTACCGGAGGCGGTGGGTGTTCCAAGTCAGCCCCTCG	[28, 6, 28, 7, 28, 4, 28, 5, 11, 4, 11, 5]
4252	CCCCGGAAGTGGAAATGCCACTACGATATTCAGATTGCCGTAAATGGT	[48, 4, 48, 5, 31, 4, 31, 5, 31, 6, 31, 7]
4253	ATAATAGTTTAATTTGAGTTTCCTCAGAAGTGGTCGCTGGCTAATCAC	[8, 6, 8, 7, 11, 6, 11, 7, 11, 8, 11, 9]
4254	TTTTTGTCGCTGTATTTAGTTTGATGACTACCGATTGCCGTAAATGGT	[28, 8, 28, 9, 28, 6, 28, 7, 31, 6, 31, 7]
4255	CCCAGTGACCAAGGAGGGAATGCAACACCGGCCGTCTTAAACGACTTT	[10, 2, 10, 3, 29, 2, 29, 3, 29, 4, 29, 5]
4256	CCGCACGTGCGCTTTCTAGTCCACGCTGTTCAACACTAATCCGGGTAT	[30, 4, 30, 5, 30, 2, 30, 3, 49, 2, 49, 3]
4257	CCTACTCTAGGAGAAGCCGCACGTGCGCTTTCCGTCTTAAACGACTTT	[30, 6, 30, 7, 30, 4, 30, 5, 29, 4, 29, 5]
4258	CTGGTTTTCTGTGCTCCCCGAGTCCAGCATTACACGACGACGGGAATT	[50, 4, 50, 5, 49, 4, 49, 5, 49, 6, 49, 7]
4259	TCTTTCTCTGGGTAAGATGTGGTTCCATTACGTTCCGCGTGGGTATAG	[10, 6, 10, 7, 29, 6, 29, 7, 29, 8, 29, 9]
4260	GGCGATACGCACTGCCCCTACTCTAGGAGAAGCACGACGACGGGAATT	[30, 8, 30, 9, 30, 6, 30, 7, 49, 6, 49, 7]
4261	GATAGCTGCTATGTAGATCTGGTCATTGAAAGGTGTCAAGGGAAGTTC	[12, 2, 12, 3, 27, 2, 27, 3, 27, 4, 27, 5]
4262	GAGGTAGCAGGTCTACCAGAAACTAGTGGAGCTGTCGTATAATGGGTA	[32, 4, 32, 5, 32, 2, 32, 3, 47, 2, 47, 3]
4263	ACTCTCGTGCGTATCGGAGGTAGCAGGTCTACGTGTCAAGGGAAGTTC	[32, 6, 32, 7, 32, 4, 32, 5, 27, 4, 27, 5]
4264	GATAATACTACACTAATGCGGCGCCCTGCGAATCCTCGGTAGGGTGTA	[52, 4, 52, 5, 47, 4, 47, 5, 47, 6, 47, 7]
4265	GGTCAGAAGCTCGACAAGCTCTGTTCCTATGATCATACGACAAGAACT	[12, 6, 12, 7, 27, 6, 27, 7, 27, 8, 27, 9]
4266	CGAGATGTATGCCAGCACTCTCGTGCGTATCGTCCTCGGTAGGGTGTA	[32, 8, 32, 9, 32, 6, 32, 7, 47, 6, 47, 7]
4267	TCATCCGGACGCTTAGCGCCCACTCTATGAACTAACTAAGTGGGGCAC	[14, 2, 14, 3, 25, 2, 25, 3, 25, 4, 25, 5]
4268	TGGATATCAGGAGATCCGTCGTCTTCTCATAAAAACCGTTATGGTTTC	[34, 4, 34, 5, 34, 2, 34, 3, 45, 2, 45, 3]
4269	TCAAGCTGATGTACCGTGGATATCAGGAGATCTAACTAAGTGGGGCAC	[34, 6, 34, 7, 34, 4, 34, 5, 25, 4, 25, 5]
4270	CTCCCACAACCCTAACATAGAATATAGGTCACAACAGTGAGCTATTCG	[54, 4, 54, 5, 45, 4, 45, 5, 45, 6, 45, 7]
4271	CCTATCTTGGATATCGCAGCCCATTACCCACAGGTACACCTCACTTGC	[14, 6, 14, 7, 25, 6, 25, 7, 25, 8, 25, 9]
4272	CCCCAAGTGTCTTGCGTCAAGCTGATGTACCGAACAGTGAGCTATTCG	[34, 8, 34, 9, 34, 6, 34, 7, 45, 6, 45, 7]
4273	CTAACGATTCCCCGTCTCCAAACCAAATTGTGCCTACAATAGCTTTAT	[16, 2, 16, 3, 23, 2, 23, 3, 23, 4, 23, 5]
4274	TATTTGACGGACTCATTCGTACAGGCTACATGGCAGTCCGATGTTGGG	[36, 4, 36, 5, 36, 2, 36, 3, 43, 2, 43, 3]
4275	TGTGGGCTAGCACGCATATTTGACGGACTCATCCTACAATAGCTTTAT	[36, 6, 36, 7, 36, 4, 36, 5, 23, 4, 23, 5]
4276	GATGAACAAATGGCAAAGCACGTAGAGATAATTTTCAACTTCTTGCCA	[56, 4, 56, 5, 43, 4, 43, 5, 43, 6, 43, 7]
4277	ATCAGTTATTACTTCGTGCCCATGGTGACACGGTGCAGCTATCCGAAT	[16, 6, 16, 7, 23, 6, 23, 7, 23, 8, 23, 9]
4278	CTAGGACCTGTCAAGTTGTGGGCTAGCACGCATTTCAACTTCTTGCCA	[36, 8, 36, 9, 36, 6, 36, 7, 43, 6, 43, 7]
4279	AGGTGGCCTGATAATCTCCCACGTACAACATAGTGGGTAAGTTATGGA	[18, 2, 18, 3, 21, 2, 21, 3, 21, 4, 21, 5]
4280	GTGGGAGAGTCCGGTCTACGCTATTAACCCTTTAAGCGCGCACCCGTT	[38, 4, 38, 5, 38, 2, 38, 3, 41, 2, 41, 3]
4281	AGAACCGGTTGGACGGGTGGGAGAGTCCGGTCGTGGGTAAGTTATGGA	[38, 6, 38, 7, 38, 4, 38, 5, 21, 4, 21, 5]
4282	TTATATTAACTTACCTCACTCGCACTTAGATCGCCTGGCCCTACTTCA	[58, 4, 58, 5, 41, 4, 41, 5, 41, 6, 41, 7]
4283	CTTGACGAGTGGGAGGTAATTAGTACGGCCACCGGTGAGATTCCCCAG	[18, 6, 18, 7, 21, 6, 21, 7, 21, 8, 21, 9]
4284	CCATGAAAACTCTAGCAGAACCGGTTGGACGGGCCTGGCCCTACTTCA	[38, 8, 38, 9, 38, 6, 38, 7, 41, 6, 41, 7]
4285	AATGCACAACCATACCAACGGCGAATAAAAGCCGTACGCATACGATTT	[20, 2, 20, 3, 39, 2, 39, 3, 39, 4, 39, 5]
4286	GCGCCAGATCACCGAATACTTGAATCGCGTCGCCACAAAGGGTGTCAG	[40, 4, 40, 5, 40, 2, 40, 3, 59, 2, 59, 3]
4287	CGGGGAGGGTCCTCACGCGCCAGATCACCGAACGTACGCATACGATTT	[40, 6, 40, 7, 40, 4, 40, 5, 39, 4, 39, 5]
4288	AATGTTCTTTCAGGCTACCTATATAGCCATTTCTCTCCGCCATATTGT	[60, 4, 60, 5, 59, 4, 59, 5, 59, 6, 59, 7]
4289	AGTACGACATCCCTGAACGGGGTTGGGGCATAACGACTCTCATCTGAT	[20, 6, 20, 7, 39, 6, 39, 7, 39, 8, 39, 9]
4290	AGCAGGTCTTGTAATGCGGGGAGGGTCCTCACCTCTCCGCCATATTGT	[40, 8, 40, 9, 40, 6, 40, 7, 59, 6, 59, 7]
4291	CACTTGAGGCAACCTAGGTAGGTTCCGCCGCAGGAACTTGATGTCATG	[22, 2, 22, 3, 37, 2, 37, 3, 37, 4, 37, 5]
4292	TGCTTATCCCGAACGAAATTCATCGTTAATGCGTGCATCTACATGGTC	[42, 4, 42, 5, 42, 2, 42, 3, 57, 2, 57, 3]
4293	AAAGCTTCGGTCCTTCTGCTTATCCCGAACGAGGAACTTGATGTCATG	[42, 6, 42, 7, 42, 4, 42, 5, 37, 4, 37, 5]
4294	CTAGTAACTCAATTTTTACCGAGCAAAGTATTAATTAGAAGTCGAATT	[62, 4, 62, 5, 57, 4, 57, 5, 57, 6, 57, 7]
4295	ATGTAGCAGCGCGCCTTCAAGGCCCGACATCCTGCTGGTGAAAGATAC	[22, 6, 22, 7, 37, 6, 37, 7, 37, 8, 37, 9]
4296	ATTAATACGGCTAGAAAAAGCTTCGGTCCTTCAATTAGAAGTCGAATT	[42, 8, 42, 9, 42, 6, 42, 7, 57, 6, 57, 7]
4297	CGAATCAAGGAGCACTTCGCAACGAGGACGATCTCGTTCGGGTGCTAC	[24, 2, 24, 3, 35, 2, 35, 3, 35, 4, 35, 5]
4298	GCTTCTCGGCTGAGGACGTCACTTGACTTGATTGTTTTCGCTAGGTGG	[44, 4, 44, 5, 44, 2, 44, 3, 55, 2, 55, 3]
4299	GCCTTGTCATCTATACGCTTCTCGGCTGAGGACTCGTTCGGGTGCTAC	[44, 6, 44, 7, 44, 4, 44, 5, 35, 4, 35, 5]
4300	CTGAAGGAAGACGTCCTGGCTCGTACCCATCCCGGGTGTCCCTCAAGC	[64, 4, 64, 5, 55, 4, 55, 5, 55, 6, 55, 7]
4301	ATATCAAGGGTTGGTTCGGCATGCGGTCTAAAGCGTTAAACTGCCCAG	[24, 6, 24, 7, 35, 6, 35, 7, 35, 8, 35, 9]
4302	GAGGAGCGCTGAAGCGGCCTTGTCATCTATACCGGGTGTCCCTCAAGC	[44, 8, 44, 9, 44, 6, 44, 7, 55, 6, 55, 7]
4303	CTAATGAAGAGGATGTACTTGGGATTAGGATCCCACATGAACCGCTCT	[26, 2, 26, 3, 33, 2, 33, 3, 33, 4, 33, 5]
4304	CCCATGGACCCGCTCGACCCGAGATGACATCGTCTGATGGATCTCAGC	[46, 4, 46, 5, 46, 2, 46, 3, 53, 2, 53, 3]
4305	GCCTGTGATGGTGAATCCCATGGACCCGCTCGCCACATGAACCGCTCT	[46, 6, 46, 7, 46, 4, 46, 5, 33, 4, 33, 5]
4306	TGGTCGGTCCCCGCTCCAACATTTTATCTCTTACTCGCTAGTCAACTT	[66, 4, 66, 5, 53, 4, 53, 5, 53, 6, 53, 7]
4307	CTCGGCCCCAGTAGAAAGCCTACGTCCGTGCAGTAAACGATAGGTTTC	[26, 6, 26, 7, 33, 6, 33, 7, 33, 8, 33, 9]
4308	ACCAGTTCCGTAGTTCGCCTGTGATGGTGAATACTCGCTAGTCAACTT	[46, 8, 46, 9, 46, 6, 46, 7, 53, 6, 53, 7]
4309	TACTAAAATAAGCCACAGAGTATAGATGGCCGGCCACTACGATATTCA	[28, 2, 28, 3, 31, 2, 31, 3, 31, 4, 31, 5]
4310	CCCCGGAAGTGGAAATTCACAGTGCACAAGGGGATTGGGTATGAAAAC	[48, 4, 48, 5, 48, 2, 48, 3, 51, 2, 51, 3]
4311	GGAGAATCTTGATTTACCCCGGAAGTGGAAATGCCACTACGATATTCA	[48, 6, 48, 7, 48, 4, 48, 5, 31, 4, 31, 5]

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4312	ACCTAATGCGAAGGTCGCCAGTAGGCCGGGCTCCGAATTATGGTGTGT	[68, 4, 68, 5, 51, 4, 51, 5, 51, 6, 51, 7]
4313	TAGTTTGATGACTACCGATTGCCGTAAATGGTTCTGGTTCCCCACTGT	[28, 6, 28, 7, 31, 6, 31, 7, 31, 8, 31, 9]
4314	GCTCTAAAGCTGCCATGGAGAATCTTGATTTACCGAATTATGGTGTGT	[48, 8, 48, 9, 48, 6, 48, 7, 51, 6, 51, 7]
4315	TAGTCCACGCTGTTCAACACTAATCCGGGTATCCCGAGTCCAGCATTA	[30, 2, 30, 3, 49, 2, 49, 3, 49, 4, 49, 5]
4316	CTGGTTTTCTGTGCTCTCTGATATTAAGGAATCGGACGGAAAACTACA	[50, 4, 50, 5, 50, 2, 50, 3, 69, 2, 69, 3]
4317	CCGTAATCGATTGCGCCTGGTTTTCTGTGCTCCCCGAGTCCAGCATTA	[50, 6, 50, 7, 50, 4, 50, 5, 49, 4, 49, 5]
4318	AGGTCATCCTACAACTGCACTAAGCGCCTCCGGTAATGGTCGTAGTGG	[70, 4, 70, 5, 69, 4, 69, 5, 69, 6, 69, 7]
4319	CCTACTCTAGGAGAAGCACGACGACGGGAATTTATAAAGCGTTTGGAA	[30, 6, 30, 7, 49, 6, 49, 7, 49, 8, 49, 9]
4320	TGCCATGACTAAGCCGCCGTAATCGATTGCGCGTAATGGTCGTAGTGG	[50, 8, 50, 9, 50, 6, 50, 7, 69, 6, 69, 7]
4321	CAGAAACTAGTGGAGCTGTCGTATAATGGGTATGCGGCGCCCTGCGAA	[32, 2, 32, 3, 47, 2, 47, 3, 47, 4, 47, 5]
4322	GATAATACTACACTAAACCAATCAAATAACTTCTGTATGAATCTATGT	[52, 4, 52, 5, 52, 2, 52, 3, 67, 2, 67, 3]
4323	TTCTGCTAATTGACGCGATAATACTACACTAATGCGGCGCCCTGCGAA	[52, 6, 52, 7, 52, 4, 52, 5, 47, 4, 47, 5]
4324	AGGATGGCGTGAACCCTAACAGCAGGTCGGCCCCACCTTATTACGAGT	[72, 4, 72, 5, 67, 4, 67, 5, 67, 6, 67, 7]
4325	ACTCTCGTGCGTATCGTCCTCGGTAGGGTGTATACGAGCTAGACCTGT	[32, 6, 32, 7, 47, 6, 47, 7, 47, 8, 47, 9]
4326	CTTCGTCAGCAAATTATTCTGCTAATTGACGCCCACCTTATTACGAGT	[52, 8, 52, 9, 52, 6, 52, 7, 67, 6, 67, 7]
4327	CGTCGTCTTCTCATAAAAACCGTTATGGTTTCATAGAATATAGGTCAC	[34, 2, 34, 3, 45, 2, 45, 3, 45, 4, 45, 5]
4328	CTCCCACAACCCTAACAGGAGGTGTGACGGAGCTAGAGCTACTCGCCG	[54, 4, 54, 5, 54, 2, 54, 3, 65, 2, 65, 3]
4329	GGACTATTTAATGATCCTCCCACAACCCTAACATAGAATATAGGTCAC	[54, 6, 54, 7, 54, 4, 54, 5, 45, 4, 45, 5]
4330	ACATTACTGCCCTAACAGTGTTTTATGCTGGGTGTACCATTATCAAAG	[74, 4, 74, 5, 65, 4, 65, 5, 65, 6, 65, 7]
4331	TCAAGCTGATGTACCGAACAGTGAGCTATTCGCGCGGAACTTTAAACC	[34, 6, 34, 7, 45, 6, 45, 7, 45, 8, 45, 9]
4332	AGTAATTGCATTTCTTGGACTATTTAATGATCTGTACCATTATCAAAG	[54, 8, 54, 9, 54, 6, 54, 7, 65, 6, 65, 7]
4333	TCGTACAGGCTACATGGCAGTCCGATGTTGGGAGCACGTAGAGATAAT	[36, 2, 36, 3, 43, 2, 43, 3, 43, 4, 43, 5]
4334	GATGAACAAATGGCAATACTGGAGTCGCTTTTTAACACTTGGTCTCGA	[56, 4, 56, 5, 56, 2, 56, 3, 63, 2, 63, 3]
4335	ACCATTGTGGGTGACCGATGAACAAATGGCAAAGCACGTAGAGATAAT	[56, 6, 56, 7, 56, 4, 56, 5, 43, 4, 43, 5]
4336	CTGAATGGTATTCTTCTTCTGAATCGCGGGCTATAGAATGCTATTGAG	[76, 4, 76, 5, 63, 4, 63, 5, 63, 6, 63, 7]
4337	TGTGGGCTAGCACGCATTTCAACTTCTTGCCAGTTATACAGGTCCGGC	[36, 6, 36, 7, 43, 6, 43, 7, 43, 8, 43, 9]
4338	CAGTGCGGCAAAAGATACCATTGTGGGTGACCATAGAATGCTATTGAG	[56, 8, 56, 9, 56, 6, 56, 7, 63, 6, 63, 7]
4339	TACGCTATTAACCCTTTAAGCGCGCACCCGTTCACTCGCACTTAGATC	[38, 2, 38, 3, 41, 2, 41, 3, 41, 4, 41, 5]
4340	TTATATTAACTTACCTGGGAGCTGAGTAAATGGGTAGAAGGAACTCTG	[58, 4, 58, 5, 58, 2, 58, 3, 61, 2, 61, 3]
4341	ACTTAATACGCGGACATTATATTAACTTACCTCACTCGCACTTAGATC	[58, 6, 58, 7, 58, 4, 58, 5, 41, 4, 41, 5]
4342	CTTACTTGTCAATTTCCTTCCATGTAATTATAGCGGTAACATCACATA	[78, 4, 78, 5, 61, 4, 61, 5, 61, 6, 61, 7]
4343	AGAACCGGTTGGACGGGCCTGGCCCTACTTCAACTTACGTGTAGTGTC	[38, 6, 38, 7, 41, 6, 41, 7, 41, 8, 41, 9]
4344	CAGGCAAGCGGCGAAAACTTAATACGCGGACAGCGGTAACATCACATA	[58, 8, 58, 9, 58, 6, 58, 7, 61, 6, 61, 7]
4345	TACTTGAATCGCGTCGCCACAAAGGGTGTCAGACCTATATAGCCATTT	[40, 2, 40, 3, 59, 2, 59, 3, 59, 4, 59, 5]
4346	AATGTTCTTTCAGGCTATTACTGGCACAGGATCTGGTCTCAAACGTCC	[60, 4, 60, 5, 60, 2, 60, 3, 79, 2, 79, 3]
4347	GCAGGGTGCGAACCCGAATGTTCTTTCAGGCTACCTATATAGCCATTT	[60, 6, 60, 7, 60, 4, 60, 5, 59, 4, 59, 5]
4348	TAACAAGGGCCTACCTACACAGTGTGCAGGGTAACTCATATACGTCTT	[80, 4, 80, 5, 79, 4, 79, 5, 79, 6, 79, 7]
4349	CGGGGAGGGTCCTCACCTCTCCGCCATATTGTCGACCATTGGTCATTG	[40, 6, 40, 7, 59, 6, 59, 7, 59, 8, 59, 9]
4350	GAGCTCACCCGTCGATGCAGGGTGCGAACCCGAACTCATATACGTCTT	[60, 8, 60, 9, 60, 6, 60, 7, 79, 6, 79, 7]
4351	AATTCATCGTTAATGCGTGCATCTACATGGTCTACCGAGCAAAGTATT	[42, 2, 42, 3, 57, 2, 57, 3, 57, 4, 57, 5]
4352	CTAGTAACTCAATTTTGCCGATGGAAAAATCACTGCTCCTTTAGGGTC	[62, 4, 62, 5, 62, 2, 62, 3, 77, 2, 77, 3]
4353	CCTAGGCGCAAGGCGCCTAGTAACTCAATTTTTACCGAGCAAAGTATT	[62, 6, 62, 7, 62, 4, 62, 5, 57, 4, 57, 5]
4354	GGTTGCGGTGATCAATATCGGATTCCGGCGGAGAATATCCCCGGTTGA	[82, 4, 82, 5, 77, 4, 77, 5, 77, 6, 77, 7]
4355	AAAGCTTCGGTCCTTCAATTAGAAGTCGAATTCGCTGATCCGGTTTAC	[42, 6, 42, 7, 57, 6, 57, 7, 57, 8, 57, 9]
4356	CGTTTATTGAGGTTAGCCTAGGCGCAAGGCGCGAATATCCCCGGTTGA	[62, 8, 62, 9, 62, 6, 62, 7, 77, 6, 77, 7]
4357	CGTCACTTGACTTGATTGTTTTCGCTAGGTGGTGGCTCGTACCCATCC	[44, 2, 44, 3, 55, 2, 55, 3, 55, 4, 55, 5]
4358	CTGAAGGAAGACGTCCAAGAGCAATTATGTGACCCCTTCGTTTAAAGA	[64, 4, 64, 5, 64, 2, 64, 3, 75, 2, 75, 3]
4359	AGGGTTCATAGGCGGACTGAAGGAAGACGTCCTGGCTCGTACCCATCC	[64, 6, 64, 7, 64, 4, 64, 5, 55, 4, 55, 5]
4360	GCGGCGAACATCGTGCCGTGGGACATTCCACGAGATGCGATTTGTACG	[84, 4, 84, 5, 75, 4, 75, 5, 75, 6, 75, 7]
4361	GCCTTGTCATCTATACCGGGTGTCCCTCAAGCGAAAACTGCACAACTT	[44, 6, 44, 7, 55, 6, 55, 7, 55, 8, 55, 9]
4362	TAGGCAAGCGATAGTAAGGGTTCATAGGCGGAAGATGCGATTTGTACG	[64, 8, 64, 9, 64, 6, 64, 7, 75, 6, 75, 7]
4363	ACCCGAGATGACATCGTCTGATGGATCTCAGCCAACATTTTATCTCTT	[46, 2, 46, 3, 53, 2, 53, 3, 53, 4, 53, 5]
4364	TGGTCGGTCCCCGCTCCCTAGAACTAAGAACACCCGACAAGGCAGCAG	[66, 4, 66, 5, 66, 2, 66, 3, 73, 2, 73, 3]
4365	TGGGAGAATAGCGCCTTGGTCGGTCCCCGCTCCAACATTTTATCTCTT	[66, 6, 66, 7, 66, 4, 66, 5, 53, 4, 53, 5]
4366	GGCGGATACTAAGCCGGACCCAGGTAGGTTATGCGCGGGCTGACTCTT	[86, 4, 86, 5, 73, 4, 73, 5, 73, 6, 73, 7]
4367	GCCTGTGATGGTGAATACTCGCTAGTCAACTTTGATCCTGCGTACCTT	[46, 6, 46, 7, 53, 6, 53, 7, 53, 8, 53, 9]
4368	GGTATTTTTATCCATTTGGGAGAATAGCGCCTGCGCGGGCTGACTCTT	[66, 8, 66, 9, 66, 6, 66, 7, 73, 6, 73, 7]
4369	TCACAGTGCACAAGGGGATTGGGTATGAAAACGCCAGTAGGCCGGGCT	[48, 2, 48, 3, 51, 2, 51, 3, 51, 4, 51, 5]
4370	ACCTAATGCGAAGGTCGCCCGACGGATGCGTTGATGATATGGTAATCC	[68, 4, 68, 5, 68, 2, 68, 3, 71, 2, 71, 3]
4371	GATATCGCTATAATAGACCTAATGCGAAGGTCGCCAGTAGGCCGGGCT	[68, 6, 68, 7, 68, 4, 68, 5, 51, 4, 51, 5]
4372	ACCTTCAAATATAACTCCATATTAACCTGCCAGCTGATGCCCTGCTTC	[88, 4, 88, 5, 71, 4, 71, 5, 71, 6, 71, 7]
4373	GGAGAATCTTGATTTACCGAATTATGGTGTGTCCATATGACTTGTACT	[48, 6, 48, 7, 51, 6, 51, 7, 51, 8, 51, 9]
4374	ACAGTGCCCGCATTCAGATATCGCTATAATAGGCTGATGCCCTGCTTC	[68, 8, 68, 9, 68, 6, 68, 7, 71, 6, 71, 7]
4375	TCTGATATTAAGGAATCGGACGGAAAACTACAGCACTAAGCGCCTCCG	[50, 2, 50, 3, 69, 2, 69, 3, 69, 4, 69, 5]
4376	AGGTCATCCTACAACTTATTGAAGACACTCACCCCGCGTATCGGGACA	[70, 4, 70, 5, 70, 2, 70, 3, 89, 2, 89, 3]
4377	TTACACATAGGCTGCGAGGTCATCCTACAACTGCACTAAGCGCCTCCG	[70, 6, 70, 7, 70, 4, 70, 5, 69, 4, 69, 5]
4378	TTGTGAACTTGCGGGGAGTGTGGTCTGTTTAAAAGTTGAATCGTCTAC	[90, 4, 90, 5, 89, 4, 89, 5, 89, 6, 89, 7]
4379	CCGTAATCGATTGCGCGTAATGGTCGTAGTGGCGTCCCATATTTTATA	[50, 6, 50, 7, 69, 6, 69, 7, 69, 8, 69, 9]
4380	GCTGTGCCGCCCACCATTACACATAGGCTGCGAAGTTGAATCGTCTAC	[70, 8, 70, 9, 70, 6, 70, 7, 89, 6, 89, 7]
4381	ACCAATCAAATAACTTCTGTATGAATCTATGTTAACAGCAGGTCGGCC	[52, 2, 52, 3, 67, 2, 67, 3, 67, 4, 67, 5]
4382	AGGATGGCGTGAACCCCAAAGGGCATGTGAAGCGATGCTTTTGCCACA	[72, 4, 72, 5, 72, 2, 72, 3, 87, 2, 87, 3]
4383	TTTACGCTAAGCGGGTAGGATGGCGTGAACCCTAACAGCAGGTCGGCC	[72, 6, 72, 7, 72, 4, 72, 5, 67, 4, 67, 5]
4384	ATCCCCTCATCGCTGACATCTTAACGACCGTTACATGAGGTGGCTGGT	[92, 4, 92, 5, 87, 4, 87, 5, 87, 6, 87, 7]
4385	TTCTGCTAATTGACGCCCACCTTATTACGAGTATACCCTATTGTCGTT	[52, 6, 52, 7, 67, 6, 67, 7, 67, 8, 67, 9]
4386	GTGGCGCTGTCAAGACTTTACGCTAAGCGGGTACATGAGGTGGCTGGT	[72, 8, 72, 9, 72, 6, 72, 7, 87, 6, 87, 7]
4387	AGGAGGTGTGACGGAGCTAGAGCTACTCGCCGAGTGTTTTATGCTGGG	[54, 2, 54, 3, 65, 2, 65, 3, 65, 4, 65, 5]
4388	ACATTACTGCCCTAACACGGGACATTGTTCATACTTGGACAAAGTGAG	[74, 4, 74, 5, 74, 2, 74, 3, 85, 2, 85, 3]
4389	AGTAACGCGGCACTAGACATTACTGCCCTAACAGTGTTTTATGCTGGG	[74, 6, 74, 7, 74, 4, 74, 5, 65, 4, 65, 5]
4390	TTGTCTTATCACCCTACATACACACCACAATGCGTGACGGTGAATCTT	[94, 4, 94, 5, 85, 4, 85, 5, 85, 6, 85, 7]
4391	GGACTATTTAATGATCTGTACCATTATCAAAGATCATGAGTTTTTTGT	[54, 6, 54, 7, 65, 6, 65, 7, 65, 8, 65, 9]

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4392	CATACCGTAGCGGGTCAGTAACGCGGCACTAGCGTGACGGTGAATCTT	[74, 8, 74, 9, 74, 6, 74, 7, 85, 6, 85, 7]
4393	TACTGGAGTCGCTTTTTAACACTTGGTCTCGATTCTGAATCGCGGGCT	[56, 2, 56, 3, 63, 2, 63, 3, 63, 4, 63, 5]
4394	CTGAATGGTATTCTTCGGGGACTCGCGTAGCTGATAGAGAACTGTCCC	[76, 4, 76, 5, 76, 2, 76, 3, 83, 2, 83, 3]
4395	ACTCGTCGCCTGTGAACTGAATGGTATTCTTCTTCTGAATCGCGGGCT	[76, 6, 76, 7, 76, 4, 76, 5, 63, 4, 63, 5]
4396	CACTTGACTGGAGTAGGTTAGTGGTGGCACCCATCCCGGATCTTGTAT	[96, 4, 96, 5, 83, 4, 83, 5, 83, 6, 83, 7]
4397	ACCATTGTGGGTGACCATAGAATGCTATTGAGCGTAGGAGTTGACCTA	[56, 6, 56, 7, 63, 6, 63, 7, 63, 8, 63, 9]
4398	AGACATAGATGCCGTTACTCGTCGCCTGTGAAATCCCGGATCTTGTAT	[76, 8, 76, 9, 76, 6, 76, 7, 83, 6, 83, 7]
4399	GGGAGCTGAGTAAATGGGTAGAAGGAACTCTGCTTCCATGTAATTATA	[58, 2, 58, 3, 61, 2, 61, 3, 61, 4, 61, 5]
4400	CTTACTTGTCAATTTCTATTGCTCAGGCCTCGCTTGGACATTGCGCTT	[78, 4, 78, 5, 78, 2, 78, 3, 81, 2, 81, 3]
4401	GCTCATTCACGCCCTGCTTACTTGTCAATTTCCTTCCATGTAATTATA	[78, 6, 78, 7, 78, 4, 78, 5, 61, 4, 61, 5]
4402	GCTCTGGAGGGGATGATTTGCACCACCTATACTTAACCATAAGGTCCG	[98, 4, 98, 5, 81, 4, 81, 5, 81, 6, 81, 7]
4403	ACTTAATACGCGGACAGCGGTAACATCACATAGACCACGTCCTCTCCT	[58, 6, 58, 7, 61, 6, 61, 7, 61, 8, 61, 9]
4404	CCAGCAGTGGTGCGTCGCTCATTCACGCCCTGTTAACCATAAGGTCCG	[78, 8, 78, 9, 78, 6, 78, 7, 81, 6, 81, 7]
4405	ATTACTGGCACAGGATCTGGTCTCAAACGTCCACACAGTGTGCAGGGT	[60, 2, 60, 3, 79, 2, 79, 3, 79, 4, 79, 5]
4406	TAACAAGGGCCTACCTCTCCGCATCCCGGTCACGCGAGACCCTCACGC	[80, 4, 80, 5, 80, 2, 80, 3, 99, 2, 99, 3]
4407	GCGACGCTTGCCATCGTAACAAGGGCCTACCTACACAGTGTGCAGGGT	[80, 6, 80, 7, 80, 4, 80, 5, 79, 4, 79, 5]
4408	GCAGGGTGCGAACCCGAACTCATATACGTCTTGAGCCGATGGAGTGTT	[60, 6, 60, 7, 79, 6, 79, 7, 79, 8, 79, 9]
4409	GAAGGCTGCACTTTAAGCGACGCTTGCCATCGTTTTAACACATACATG	[80, 8, 80, 9, 80, 6, 80, 7, 99, 6, 99, 7]
4410	GCCGATGGAAAAATCACTGCTCCTTTAGGGTCATCGGATTCCGGCGGA	[62, 2, 62, 3, 77, 2, 77, 3, 77, 4, 77, 5]
4411	GGTTGCGGTGATCAATCGGCGCCGCTTGGTAACACAAAACTGCCAATG	[82, 4, 82, 5, 82, 2, 82, 3, 97, 2, 97, 3]
4412	CCCGGTGGCACGTAAAGGTTGCGGTGATCAATATCGGATTCCGGCGGA	[82, 6, 82, 7, 82, 4, 82, 5, 77, 4, 77, 5]
4413	CCTAGGCGCAAGGCGCGAATATCCCCGGTTGACTGCTTTTTATAAAAA	[62, 6, 62, 7, 77, 6, 77, 7, 77, 8, 77, 9]
4414	GTTGTTCCGGAACAGACCCGGTGGCACGTAAACAGGTGGTCTCTGATA	[82, 8, 82, 9, 82, 6, 82, 7, 97, 6, 97, 7]
4415	AAGAGCAATTATGTGACCCCTTCGTTTAAAGACGTGGGACATTCCACG	[64, 2, 64, 3, 75, 2, 75, 3, 75, 4, 75, 5]
4416	GCGGCGAACATCGTGCATGTTCCGCGGGCATCAGTCAATCTCCCCGGA	[84, 4, 84, 5, 84, 2, 84, 3, 95, 2, 95, 3]
4417	CTGCTGAAAAAACGACGCGGCGAACATCGTGCCGTGGGACATTCCACG	[84, 6, 84, 7, 84, 4, 84, 5, 75, 4, 75, 5]
4418	AGGGTTCATAGGCGGAAGATGCGATTTGTACGGCTAAGGGTTTTGCAT	[64, 6, 64, 7, 75, 6, 75, 7, 75, 8, 75, 9]
4419	GCCAAAATGAGTAAGGCTGCTGAAAAAACGACCGGGTATAGGAGCGTA	[84, 8, 84, 9, 84, 6, 84, 7, 95, 6, 95, 7]
4420	CCTAGAACTAAGAACACCCGACAAGGCAGCAGGACCCAGGTAGGTTAT	[66, 2, 66, 3, 73, 2, 73, 3, 73, 4, 73, 5]
4421	GGCGGATACTAAGCCGGCGCCAGACCATGCGATTGTTGCGGCCTCGTG	[86, 4, 86, 5, 86, 2, 86, 3, 93, 2, 93, 3]
4422	CGTCCTGTGCGAGATAGGCGGATACTAAGCCGGACCCAGGTAGGTTAT	[86, 6, 86, 7, 86, 4, 86, 5, 73, 4, 73, 5]
4423	TGGGAGAATAGCGCCTGCGCGGGCTGACTCTTTCACATACCAGCTGGA	[66, 6, 66, 7, 73, 6, 73, 7, 73, 8, 73, 9]
4424	CAGAGATGGAGAACATCGTCCTGTGCGAGATATAGATGCGACTACACC	[86, 8, 86, 9, 86, 6, 86, 7, 93, 6, 93, 7]
4425	GCCCGACGGATGCGTTGATGATATGGTAATCCCCATATTAACCTGCCA	[68, 2, 68, 3, 71, 2, 71, 3, 71, 4, 71, 5]
4426	ACCTTCAAATATAACTATATTGTAAACGGTTTAGCGTGATGCAGGCGT	[88, 4, 88, 5, 88, 2, 88, 3, 91, 2, 91, 3]
4427	GACTCTCTTGGTTCAAACCTTCAAATATAACTCCATATTAACCTGCCA	[88, 6, 88, 7, 88, 4, 88, 5, 71, 4, 71, 5]
4428	GATATCGCTATAATAGGCTGATGCCCTGCTTCGCATGAGAGGCGCAGA	[68, 6, 68, 7, 71, 6, 71, 7, 71, 8, 71, 9]
4429	CTCAATAAAGGGCTGCGACTCTCTTGGTTCAACGATGCGGGCGAGGGT	[88, 8, 88, 9, 88, 6, 88, 7, 91, 6, 91, 7]
4430	TATTGAAGACACTCACCCCGCGTATCGGGACAAGTGTGGTCTGTTTAA	[70, 2, 70, 3, 89, 2, 89, 3, 89, 4, 89, 5]
4431	GATCACCCTAGCCAGCTTGTGAACTTGCGGGGAGTGTGGTCTGTTTAA	[90, 6, 90, 7, 90, 4, 90, 5, 89, 4, 89, 5]
4432	TTACACATAGGCTGCGAAGTTGAATCGTCTACGACTCTACCCTGGGAA	[70, 6, 70, 7, 89, 6, 89, 7, 89, 8, 89, 9]
4433	ATATTGTAAACGGTTTAGCGTGATGCAGGCGTCGAACGCACCCCTCAG	[88, 2, 88, 3, 91, 2, 91, 3, 91, 4, 91, 5]
4434	GACTCTCTTGGTTCAACGATGCGGGCGAGGGTTTGTGCTGCACAGCAC	[88, 6, 88, 7, 91, 6, 91, 7, 91, 8, 91, 9]
4435	CAAAGGGCATGTGAAGCGATGCTTTTGCCACACATCTTAACGACCGTT	[72, 2, 72, 3, 87, 2, 87, 3, 87, 4, 87, 5]
4436	ATGAATCCGGTATGCTATCCCCTCATCGCTGACATCTTAACGACCGTT	[92, 6, 92, 7, 92, 4, 92, 5, 87, 4, 87, 5]
4437	TTTACGCTAAGCGGGTACATGAGGTGGCTGGTAGAACTCTTGATGTCC	[72, 6, 72, 7, 87, 6, 87, 7, 87, 8, 87, 9]
4438	GCGCCAGACCATGCGATTGTTGCGGCCTCGTGTCGGCAGCTTGCTAGG	[86, 2, 86, 3, 93, 2, 93, 3, 93, 4, 93, 5]
4439	CGTCCTGTGCGAGATATAGATGCGACTACACCCAACACAATTAGGTAA	[86, 6, 86, 7, 93, 6, 93, 7, 93, 8, 93, 9]
4440	ACGGGACATTGTTCATACTTGGACAAAGTGAGCATACACACCACAATG	[74, 2, 74, 3, 85, 2, 85, 3, 85, 4, 85, 5]
4441	CAGTATTTTGTTCTACTTGTCTTATCACCCTACATACACACCACAATG	[94, 6, 94, 7, 94, 4, 94, 5, 85, 4, 85, 5]
4442	AGTAACGCGGCACTAGCGTGACGGTGAATCTTAAACTGAGTAAGACCT	[74, 6, 74, 7, 85, 6, 85, 7, 85, 8, 85, 9]
4443	ATGTTCCGCGGGCATCAGTCAATCTCCCCGGAGTGTACCTGAGCTTGC	[84, 2, 84, 3, 95, 2, 95, 3, 95, 4, 95, 5]
4444	CTGCTGAAAAAACGACCGGGTATAGGAGCGTAGTGCTGCGTTATGGAG	[84, 6, 84, 7, 95, 6, 95, 7, 95, 8, 95, 9]
4445	GGGGACTCGCGTAGCTGATAGAGAACTGTCCCGTTAGTGGTGGCACCC	[76, 2, 76, 3, 83, 2, 83, 3, 83, 4, 83, 5]
4446	GTTACGACGGCTATACCACTTGACTGGAGTAGGTTAGTGGTGGCACCC	[96, 6, 96, 7, 96, 4, 96, 5, 83, 4, 83, 5]
4447	ACTCGTCGCCTGTGAAATCCCGGATCTTGTATTCCCTAAATGTCCGTG	[76, 6, 76, 7, 83, 6, 83, 7, 83, 8, 83, 9]
4448	CGGCGCCGCTTGGTAACACAAAACTGCCAATGTGGTCGCGTCGGTCAA	[82, 2, 82, 3, 97, 2, 97, 3, 97, 4, 97, 5]
4449	CCCGGTGGCACGTAAACAGGTGGTCTCTGATATCACGAGGTGAGCCAA	[82, 6, 82, 7, 97, 6, 97, 7, 97, 8, 97, 9]
4450	TATTGCTCAGGCCTCGCTTGGACATTGCGCTTTTTGCACCACCTATAC	[78, 2, 78, 3, 81, 2, 81, 3, 81, 4, 81, 5]
4451	GATGAGTATTTTCTTAGCTCTGGAGGGGATGATTTGCACCACCTATAC	[98, 6, 98, 7, 98, 4, 98, 5, 81, 4, 81, 5]
4452	GCTCATTCACGCCCTGTTAACCATAAGGTCCGAATATTGCAGTATTCC	[78, 6, 78, 7, 81, 6, 81, 7, 81, 8, 81, 9]
4453	CTCCGCATCCCGGTCACGCGAGACCCTCACGCTGAGTCTACCTGTGGG	[80, 2, 80, 3, 99, 2, 99, 3, 99, 4, 99, 5]
4454	GCGACGCTTGCCATCGTTTTAACACATACATGCTGCGTCAAATGCGCC	[80, 6, 80, 7, 99, 6, 99, 7, 99, 8, 99, 9]

Table S15. List of strands for making each shape.

Shape, total number of strands, list of strands

1,517,[1, 3, 6, 7, 8, 11, 12, 13, 16, 17, 18, 23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 67, 68, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 91, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 112, 113, 115, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 136, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 157, 158, 160, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 181, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 202, 205, 206, 209, 210, 211, 214, 215, 216, 219, 220, 221, 227, 230, 233, 236, 239, 240, 241, 243, 244, 245, 246, 247, 249, 250, 251, 252, 253, 255, 256, 257, 258, 259, 261, 262, 263, 264, 265, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 452, 454, 455, 456, 458, 460, 461, 462, 464, 466, 467, 468, 470, 472, 473, 474, 476, 478, 479, 480, 483, 485, 486, 488, 489, 491, 492, 494, 2207, 2221, 2227, 2241, 2247, 2261, 2267, 2281, 2287, 2293, 3018, 3036, 3038, 3056, 3058, 3076, 3078, 3096, 3707, 3789, 1305, 1307, 1309, 1312, 1319, 1322, 1329, 1332, 1339, 1342, 1349, 1357, 1361, 1365, 1369, 1373, 1375, 1379, 1383, 1387, 1391, 1393, 3826, 3859, 3861, 3862, 3894, 3896, 3897, 3898, 3929, 3931, 3933, 3934, 3966, 3968, 3969, 3970, 4001, 4003, 4005, 4006, 4038, 4040, 4041, 4042, 4073, 4075, 4077, 4078, 4110, 4112, 4113, 4114, 4145, 4147, 4149, 4182, 4184, 4185, 4187, 4188, 4189, 4191, 4192, 4193, 4195, 4196, 4197, 4199, 4200, 4201, 4203, 4204, 4431, 4433, 4434, 4436, 4438, 4439, 4441, 4443, 4444, 4446, 4448, 4449, 4451, 4454]

2,504,[1, 3, 6, 7, 8, 11, 12, 13, 16, 17, 18, 23, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 67, 68, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 112, 113, 115, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 129, 131, 132, 136, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 157, 158, 160, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 181, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 202, 205, 206, 209, 210, 211, 214, 215, 216, 219, 220, 221, 227, 230, 233, 236, 239, 240, 241, 243, 244, 245, 246, 247, 249, 250, 251, 252, 253, 255, 256, 257, 258, 259, 261, 262, 263, 264, 265, 267, 268, 269, 270, 272, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 452, 454, 455, 456, 458, 460, 461, 462, 464, 466, 467, 468, 470, 472, 473, 474, 476, 478, 479, 480, 483, 485, 486, 488, 489, 491, 492, 494, 2207, 2221, 2227, 2241, 2247, 2261, 2267, 2281, 2287, 2293, 2747, 3018, 3036, 3038, 3056, 3058, 3076, 3078, 3096, 3227, 3707, 3789, 675, 1088, 1305, 1307, 1309, 1312, 1319, 1329, 1335, 1339, 1342, 1349, 1357, 1361, 1365, 1369, 1373, 1375, 1379, 1383, 1387, 1391, 1393, 3973, 3976, 4037, 4039, 4289, 4346, 4350, 3826, 3859, 3861, 3862, 3894, 3896, 3897, 3898, 3929, 3931, 3933, 3934, 3966, 3968, 4001, 4003, 4005, 4006, 4042, 4073, 4075, 4077, 4078, 4110, 4112, 4113, 4114, 4145, 4147, 4149, 4182, 4184, 4185, 4187, 4188, 4189, 4191, 4192, 4193, 4195, 4196, 4197, 4199, 4200, 4201, 4203, 4204, 4431, 4433, 4434, 4436, 4438, 4439, 4441, 4443, 4444, 4446, 4448, 4449, 4451, 4454]

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Table S16. Sequences of 30H × 1H × 126B.

Sequence	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTA	[1, 23]
TGTTTACTTAGGGATGGTACGAACTCAACG	[1, 39]
CACGCTCGGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCTAAACC	[1, 55]
GGAAAAGTATCCGCATCTCACTCAGTGATCGA	[1, 71]
GTATTCATGTCGCCTTTTCGAACGGTGACACACTTGTGTTCATTCAG	[1, 87]
AGTAGCGGAAATATGGCCGCTTCGGTGCGC	[1, 103]
AGCGGGCCGCCTGTAACGCTTAATCAGCCCGGGCTTTTGCTAATACGC	[1, 119]
TGAGCGATGCTGTTGTTGCGGGGTTTCTGAAC	[1, 135]
CGGAACCCGGGCTAATGAAGCCGTGACCCCAG	[3, 23]
AGACTGTCTGATGCACCGGGAGCCAGCCAC	[3, 39]
TTAGCTGTGTCAGTGTGATCGCGAGTTCCCTC	[3, 55]
TAGCTAGGGTGATGCCAAAAGGGTGGATATGG	[3, 71]
AGCTGGAACGGCTCTGATTTCTAGTGACCTGG	[3, 87]
TATAATGGCGGAGCTACCTGACCTCAATCA	[3, 103]
TACGTCCCACGGAAGGATTCATCCCCTTTAAG	[3, 119]
AATGATCGCACAGTCTTTGAGATGTTGAACAT	[3, 135]
CTTTTGGTTGGCGTAAAGATCTCGCATTCTGG	[5, 23]
TGCCAAAACTGCCGACTCGTTCAAGCACTA	[5, 39]
TTATCTGGCTATAAAAGATGTCTGTCAGCCCA	[5, 55]
AGCTTAGCATAAGCGGCTGGACGACCCCGCCG	[5, 71]
TGCGACGACTGACCGTCGAGCCCTGCGCGACA	[5, 87]
AACGCATATCCTCGGCCCGCCAAATTAATA	[5, 103]
GTCGATTACGCTTCGCCTAAAGGTCCTTCCAC	[5, 119]
GGTAATCGGGGGTGACTCCGGCCTCCTTGGTA	[5, 135]
TATTAGCTTACCCACTCGCGTGGCACGTCTAC	[7, 23]
GACTCGTCGAACGAGGACTGTTCTACATAG	[7, 39]
TGACTTGGACGAGGTTTCACTGGGCGCTATAC	[7, 55]
AGGAAACTCGAGGGGCTCCCTGTCTGTCGAGC	[7, 71]
CCAGCGACCACTTCTGGAGAAAGATGCGGTGG	[7, 87]
CAGTAGTTGTGATTAGCTTGGGGGTGATAT	[7, 103]
ACCTCACTAAACTCCTTCTAATGTGACTAAGC	[7, 119]
GTTAACTCCAAAGGAAACCAGCTATCCCATAT	[7, 135]
TCGATGTAAGCGGACATCTATGCGCCCGATAT	[9, 23]
CCGTTCAAACTAGGGGGCTTCTGACCAAAG	[9, 39]
CTCATGAGAATTGTAAACAGGAACAGCTTAGA	[9, 55]
GCAGTCAAGTTCGGATACGCTACCTATGGACG	[9, 71]
GGGATATGCGACACCATGATCCGGATGAGTTA	[9, 87]
TGAAGATCGTCATTGGGATATACAATCTCG	[9, 103]
AAGTAAAGCATAGCACCCTGCGAAGATAGGGT	[9, 119]
CACAGCAGTAATACCTCTACCTTGTTGGACGT	[9, 135]
AAGCGTGAAATAACGACCAGAAAGCACGAGGA	[11, 23]
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TTTCTCGACTGTTCCGAAACAGGCAGCGGTAG	[11, 55]
CCTCCCACTTAACCTATGCCTTGGTAACTGAT	[11, 71]
TTTCTCCTGGTTCCGCTAGCTGATCTATGGTC	[11, 87]
CTTAATATAACCCTCGGAGGCAAGGGGAGA	[11, 103]
GGGTGAAACAGGCCACCTGGCTCGGGGAGTGC	[11, 119]
CCCCTCGGCAGCCGCCTCGGTTATACTCGTCA	[11, 135]
AGCCTGCTTTCCATAGCTAACCCGATTGTGCA	[13, 23]
TTCCACGTGAGTCGTACTTAAAGCAAACGT	[13, 39]
GGGAGTGCCCGAGCGTCTGAGGTATGGTTTAC	[13, 55]
CCACTATGTTGTCTCAAGTGCTAACAGTACTA	[13, 71]
ATTATCCATAACTGTGCACGTCAGGGATTCTC	[13, 87]
ACCGGTGGCCGTTGCTACATCAGTTTCTTT	[13, 103]
GCACTCCTGGGGAAACTATACTTACGCACTGG	[13, 119]
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TGTAGGCACAATTTTTGATTCGATCACATACA	[15, 23]
TGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[15, 39]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[15, 55]
ACCTCGTCATTCGGATAAACCATACTGAGGGC	[15, 71]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[15, 87]
CTTAGTTAGTTCATAGTTCATTAGGGGCGG	[15, 103]
AAATGGGCTGGTGCCCCACGTACAGTAACCAA	[15, 119]
CCGGTGTACCTGTGGGTAGGGCCGAGCGCTGG	[15, 135]
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TCGACCAGATCTGCTAGAAACCACCAACAT	[17, 39]
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CCCAACAGAGCTGAACTTCCCATGGTCGTTCT	[17, 71]
ACTGTCGTATGATCATAGGATCAAACTAAATA	[17, 87]
CAGCGTACCGCCAGTTCTTGTCCTTATTGG	[17, 103]
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GGCTTATTAAGACGGCCGGTGTAACCACATAA	[17, 135]
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CAGATTTGTACCGGGGTGAACAGCACGTGCGG	[19, 55]
CTTCTCCTGTATCGCCTTGTGTATTATACTCT	[19, 71]
TGCGGGGGGGTCGAGCGCTCCACTGTAGTGGC	[19, 87]
CGGCCATCGTGGACTAGAAAGCGCCGGCAA	[19, 103]

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GAACCATTTAAGAGTAGGGGCAGTGCTCAGCC	[19, 135]
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GGCTAGAGCGGTGATATCCACGGTACATTCGT	[21, 71]
TTACTGCACGGAACGAGAGTGCTGGCATAAGC	[21, 87]
AAGAGAAACCTAACTTGGGGACTAAGATCG	[21, 103]
TTGCGAATTTTCGCGCGATTCGCATGTAGCCG	[21, 119]
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TAACGCTTTAGACCCAGCTTGACGCAAGAC	[23, 39]
GCTAATCACTGGGCAGGGTCCTAGGTTGCAGA	[23, 55]
AACCTACCCCCTAAGCAGCGTAGTAAGGGTTA	[23, 71]
CAAGTTCCTGCGGCGGCTGTACGAATGAGTCC	[23, 87]
GGCCTTGACATGACATTCTCCCACCCGTCC	[23, 103]
AACACCAGCAGGATGTCGAGCCCACAACTTGA	[23, 119]
CAGTAGTACAGTATCTTTTTTCATGGCGGCGA	[23, 135]
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ATATAGCGTAGACCGGACAACCCCGTAAAT	[25, 39]
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GAGTGGGACTGGATCAGATGTTCAAGTATTCG	[25, 71]
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GTAACGTATGTACGACGCGATGCGAGTGAA	[25, 103]
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CACTACGACCTGCTTTTCGACACGGACTGC	[27, 39]
ATTCTGGACAGTAACTGCATTAACTACGTGCT	[27, 55]
CCCAACATAAGTGACGTCCTCAGCAGTTGAAA	[27, 71]
ATTATCTCGATAAGCAGAAGGACCTGTATAAC	[27, 87]
TGGCAAGAGACAAGGCCGCTTCAGAAAGGA	[27, 103]
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TTCCCGGACCTAGTGTCTATCAAGTCTATTCT	[27, 135]
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GAAGCGGCCCAGGTCACTAGAAATTCGATCACTGAGTGAGGAGGGAAC	[2, 95]
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CATTATACCTTCCGTGGGACGTAAGACTGTGCGATCATTTTTTTTTT	[3, 96]
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TTTTTTTTAAAAAGCTTCCTACTTAAGCAGGTCGTAGTGAGTTACTG	[27, 0]
TCCAGAATCGTCACTTATGTTGGGTGCTTATCGAGATAATCCTTGTCT	[27, 48]
CTTGCCATAATACGGTCCGGCTAACACTAGGTCCGGGAATTTTTTTT	[27, 96]
AGTTCGCCGCAGTCCGTGTCGAATCTCGTAGGTCACAACTTTTTTTT	[28, 47]
TGAAGCGGTGGTTTGCCACCTGTCTTTCAACTGCTGAGGATCATACGT	[28, 95]
TTTTTTTTAGAATAGACTTGATAGCGGTGTGGAAATTCACTCCTTTC	[28, 143]
TTTTTTTTAGTGACCCGCTCGACCCGAGAATGGTTTCATTGTGAGCT	[29, 0]
ATTCGCGCGGAACATCTATACGCTGTATTAATTCCCGAGGAGCGTTTA	[29, 48]
AACCAATAGTGAATGGGTATGCGGCGCTGACATCGGAGGTTTTTTTT	[29, 96]

Table S17. Sequences of 6H × 6H × 84B-HC.

Sequence	5' end
CCAGGTTAAGTGGCTCAA	[0, 47]
TCATACTCACGGTTAACT	[0, 89]
GTTGTGTCCTATGTTTACTTAGGGATGGTACGAACTCAACGCACGCTC	[1, 46]
GGGTAGTCTCAAGAAGATAGAGAGCATAAATTCGCT	[1, 64]
AAACCGGAAAAGTATCCGCATCTCACTCAGTGATCGAGTATTCATGTC	[1, 88]
GCCTTTTCGAACGGTGACACACTTGTGTTCATTCAG	[1, 106]
AGTAGCGGAAATATGGCCGCTTCGGTGCGCAGCGGGCCGCCTGTAACG	[3, 46]
CTTAATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[3, 64]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAACCCGGGCTAATGAAGCC	[3, 88]
GTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAG	[3, 106]
CCACTTAGCTGTGTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGGTGA	[5, 46]
TGCCAAAAGGGTGGATAT	[5, 64]
GGAGCTGGAACGGCTCTGATTTCTAGTGACCTGGTATAATGGCGGAGC	[5, 88]
TACCTGACCTCAATCATA	[5, 106]
CGTCCCACGGAAGGATTCATCCCC	[6, 23]
TTTAAGAATGATCGCACAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[7, 46]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACTGCCGACTCGTTCAAGCACTATTATCTGG	[7, 64]
CTATAAAAGATGTCTGTCAGCCCAAGCTTAGCATAAGCGGCTGGACGA	[7, 88]
CCCCGCCGTGCGACGACTGACCGTCGAGCCCTGCGC	[7, 106]
GACAAACGCATATCCTCGGCCCGCCAAATTAATAGTCGATTACGCTTC	[9, 46]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTGACTC	[9, 64]
CGGCCTCCTTGGTATATTAGCTTACCCACTCGCGTGGCACGTCTACGA	[9, 88]
CTCGTCGAACGAGGACTGTTCTACATAGTGACTTGG	[9, 106]
ACGAGGTTTCACTGGGCGCTATAC	[11, 46]
AGGAAACTCGAGGGGCTCCCTGTCTGTCGAGCCCAGCGACCACTTCTGGAGAAAGATGCG	[11, 88]
GTGGCAGTAGTTGTGATTAGCTTGGGGGTGATATAC	[11, 106]
CTCACTAAACTCCTTCTA	[12, 47]
ATGTGACTAAGCGTTAAC	[12, 89]
TCCAAAGGAAACCAGCTATCCCATATTCGATGTAAGCGGACATCTATG	[13, 46]
CGCCCGATATCCGTTCAAACTAGGGGGCTTCTGACC	[13, 64]
AAAGCTCATGAGAATTGTAAACAGGAACAGCTTAGAGCAGTCAAGTTC	[13, 88]
GGATACGCTACCTATGGACGGGGATATGCGACACCA	[13, 106]
TGATCCGGATGAGTTATGAAGATCGTCATTGGGATATACAATCTCGAA	[15, 46]
GTAAAGCATAGCACCCTGCGAAGATAGGGTCACAGC	[15, 64]
AGTAATACCTCTACCTTGTTGGACGTAAGCGTGAAATAACGACCAGAA	[15, 88]
AGCACGAGGATTATCACGTGTACCTCGAAATAATCG	[15, 106]
TTAGTTTCTCGACTGTTCCGAAACAGGCAGCGGTAGCCTCCCACTTAA	[17, 46]
CCTATGCCTTGGTAACTG	[17, 64]
ATTTTCTCCTGGTTCCGCTAGCTGATCTATGGTCCTTAATATAACCCT	[17, 88]
CGGAGGCAAGGGGAGAGG	[17, 106]
GTGAAACAGGCCACCTGGCTCGGG	[18, 23]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTT	[19, 46]
CCATAGCTAACCCGATTGTGCATTCCACGTGAGTCGTACTTAAAGCAAACGTGGGAGTGC	[19, 64]
CCGAGCGTCTGAGGTATGGTTTACCCACTATGTTGTCTCAAGTGCTAA	[19, 88]
CAGTACTAATTATCCATAACTGTGCACGTCAGGGAT	[19, 106]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCTTTGCACTCCTGGGGAA	[21, 46]
ACTATACTTACGCACTGGTTTGGAGGGATTAGGCAA	[21, 64]
TTGCTAGGTTGCATTGTAGGCACAATTTTTGATTCGATCACATACATG	[21, 88]
GGCAATAAAGCTGTAGCCTGAGGCGCGCAGCTGCAC	[21, 106]
CGTGTCACCTTGATATTGAGGGAC	[23, 46]
ACCTCGTCATTCGGATAAACCATACTGAGGGCAGTGGGCGAGATCGGCTAATCATTAGTG	[23, 88]
CTCCCTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[23, 106]
ATGGGCTGGTGCCCCACG	[24, 47]
TACAGTAACCAACCGGTG	[24, 89]
TACCTGTGGGTAGGGCCGAGCGCTGGGCTTACATGTGCAAGTGAAATA	[25, 46]
TATGACTTGGTCGACCAGATCTGCTAGAAACCACCA	[25, 64]
ACATCCTCCTTGACACCTTTCAATTTTTAGTAAACACCCAACAGAGCT	[25, 88]
GAACTTCCCATGGTCGTTCTACTGTCGTATGATCAT	[25, 106]
AGGATCAAACTAAATACAGCGTACCGCCAGTTCTTGTCCTTATTGGCG	[27, 46]
ATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[27, 64]
TTAAGACGGCCGGTGTAACCACATAAAGTCGTCCGCCTCCGGTAGTCA	[27, 88]
ACGCGGAACGTAATGGCAGAAAGTCTATACCCGACA	[27, 106]
AAAACAGATTTGTACCGGGGTGAACAGCACGTGCGGCTTCTCCTGTAT	[29, 46]
CGCCTTGTGTATTATACT	[29, 64]
CTTGCGGGGGGGTCGAGCGCTCCACTGTAGTGGCCGGCCATCGTGGAC	[29, 88]
TAGAAAGCGCCGGCAATC	[29, 106]
TGAATATCGCTACCTCCGATACGC	[30, 23]
GAACCAGAACCATTTAAGAGTAGGGGCAGTGCTCAGCCAAACAGTGGG	[31, 46]
ACATCTCGGAAAGGTGTCCCAAGTGCAAGTAAAAAAGGAATTATGAGATCATGTGGGATC	[31, 64]
CTAAAGTTTCTGGTAGACCTCGTAGGCTAGAGCGGTGATATCCACGGT	[31, 88]
ACATTCGTTTACTGCACGGAACGAGAGTGCTGGCAT	[31, 106]
AAGCAAGAGAAACCTAACTTGGGGACTAAGATCGTTGCGAATTTTCGC	[33, 46]
GCGATTCGCATGTAGCCGAACGAGATCGTCCTAGAC	[33, 64]
GACGGATCTCCTGCATGCCGGTAGCACCGTCAAATATGCGTGCTTTTA	[33, 88]
ACGCTTTAGACCCAGCTTGACGCAAGACGCTAATCA	[33, 106]
CTGGGCAGGGTCCTAGGTTGCAGA	[35, 46]
AACCTACCCCCTAAGCAGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCTGTACGAATGA	[35, 88]
GTCCGGCCTTGACATGACATTCTCCCACCCGTCCAA	[35, 106]

TTAACCTGGGAGCGTGCGTTGAGTTCGTACCATTTTTTTTTT	[0, 55]
TTTTTAGTTAACCGTGAGTATGAGACATGAATACTCGATCACTGAGTTTGAGCCAC	[0, 111]
ATGCTCTCTCGTTACAGGCGGCCCGCTGCGCACTTTTTTTTT	[2, 55]
TTTTTCTGAATGAACACAAGTGTGGCTTCATTAGCCCGGGTTCCGGTAGCGAATTT	[2, 111]
TATTAGCAATCACCCTAGCTAGAGGGAACTCGCTTTTTTTTT	[4, 55]
TTTTTCTGGCTCCCGGTGCATCAGCTCCGCCATTATACCAGGTCACTCGCTCAGCG	[4, 111]
TTCCGTGGGACGTTTTTTTTTTTTTTTTTTGATCACACTGAC	[6, 34]
TGGCACCAGGGGGATGAATCCACAGCTAAGTGGATATCCACC	[6, 55]
GCTTGAACGAGTCGGCAGTTTCTTTTGGCAAGAAATCAGAGC	[6, 76]
TCGACGGTCCCAGATAATAGTCGTTCCAGCTCCTATGATTGA	[6, 97]
TTTTTTTTTTTTGCGCAGGGCGGTCAGGTATTTTTTTTTTTT	[6, 118]
GTTCAACATCTCTTTTTTTTTTTTTTTTTTCGAAGCGGCCAT	[8, 34]
CCGATTACCCAACCAAAAGATATTTCCGCTACTAAGCCCGGG	[8, 55]
TTATGCTAAGCTGAGTCACCCCTGATTAAGTCAGAAACCCCG	[8, 76]
TATGTAGAATCGTCCAGCCGCCAACAACAGCATGACAGTCTC	[8, 97]
TTTTTTTTTTTTCCAAGTCACTGGGGTCACTTTTTTTTTTTT	[8, 118]
ACTATTAATTTGTTTTTTTTTTTTTTTTTTCCCTAAGTAAAC	[10, 34]
CTCCAGAAGGAAGCGTAATCGATAGGACACAACATCTTCTTG	[10, 55]
CACGCGAGTGGGCGCATCTTTAGACTACCCGAGATGCGGATA	[10, 76]
CCCCAAGCTTCGTAGACGTGCCTTTTCCGGTTTGTCACCGTT	[10, 97]
TTTTTTTTTTTTGTATATCACCGAAAAGGCTTTTTTTTTTTT	[10, 118]
CTTACATCGAATTTTTTTTTTTTTTTTTTTGTATAGCGCCCA	[12, 34]
TTTAGTGAGCATAGATGTCCGGTGAAACCTCGTTGGTCGCTG	[12, 55]
TCTAAGCTGTTCTAGAAGGAGGGCTCGACAGACAGGGAGCCC	[12, 76]
TAGTCACATGAACTTGACTGCCTCGAGTTTCCTAATCACAAC	[12, 97]
TTTTTTTTTTTTGTTAACGCTTACTGCCACTTTTTTTTTTTT	[12, 118]
TATCCCAATGACTTTTTTTTTTTTTTTTTTGCGGGCCGAGGA	[14, 34]
CCCCCTAGTTTCGAGATTGTATATGCGTTTGTCGTGGAAGGA	[14, 55]
TTTCACGCTTACGGTCAGAAGCCTTTAGGCTAAGCTAATATA	[14, 76]
ATATCCCCGTTCTGGTCGTTACCAAGGAGGCCGCAGTCCTCG	[14, 97]
TTTTTTTTTTTTTGGTGTCGCTTCGACGAGTTTTTTTTTTTT	[14, 118]
CTACCGCTGCCTTTTTTTTTTTTTTTTTTTAAAGACTGTGCG	[16, 34]
CTATCTTCGTTAAGTGGGAGGATCATTCTTAAAAATGCGAGA	[16, 55]
AGGACCATAGATGCTGTGACCTCTTTACGCTGGGCTGACAGA	[16, 76]
CGAGGTACAAGGGTTATATTACATCTTTTATAGAGTCGTCGC	[16, 97]
TTTTTTTTTTTTCGATTATTTACGGCGGGGTTTTTTTTTTTT	[16, 118]
GGCCTGTTTCACTTTTTTTTTTTTTTTTTTGTTTCGGAACAG	[18, 34]
TGGAATGCACCCGAGCCAGGTTCGAGAAACTAACAGTTACCA	[18, 55]
TTGCTTTAAGTACGACTCACGAGGCATAGGCAGCTAGCGGAA	[18, 76]
GTGCACAGTGCACTCCCACGTCCAGGAGAAAATCCTCTCCCC	[18, 97]
TTTTTTTTTTTTATCCCTGACTTGCCTCCGTTTTTTTTTTTT	[18, 118]
ACGAGTATAACCTTTTTTTTTTTTTTTTTTGATCTTCATAAC	[20, 34]
CCCTCCAAAAAAGCAGGCTTGTCATCCGGATCACAGGGTGCT	[20, 55]
ACAACATAGTGGTTGCCTAATATGCTTTACGTCCAACAAGGT	[20, 76]
CGCGCCTCATTAGCACTTGAGAGAGGTATTACTCGTGATAAT	[20, 97]
TTTTTTTTTTTTGTGCAGCTGCCTCGTGCTTTTTTTTTTTT	[20, 118]
GCAAAGAAACTGTTTTTTTTTTTTTTTTTTTATGGGATAGCTG	[22, 34]
TTAGCCGATTTCCCCAGGAGTGTTTCCTTTGGATTGAACGGA	[22, 55]
CGAATCAAAAATCACTAATGATATCGGGCGCTGTTTACAATT	[22, 76]
TAATGAACTCATGTATGTGATCTCATGAGCTTTTCCATAGGT	[22, 97]
TTTTTTTTTTTTTCCGCCCCAGCGTATCCTTTTTTTTTTTT	[22, 118]
ACATGTAAGCCCTTTTTTTTTTTTTTTTTTGTCCCTCAATAT	[24, 34]
CCAGCCCATTATTTCACTTGCCAAGGTGACACGCTCGCCCAC	[24, 55]
TGTTTACTAAAACGTGGGGCATGCCCTCAGTATGGTTTATCC	[24, 76]
GTTACTGTAAGCTCTGTTGGGGAATGACGAGGTATGAACTAA	[24, 97]
TTTTTTTTTTTTCACCGGTTGCTAAGGGAGTTTTTTTTTTTT	[24, 118]
CAAGAACTGGCGTTTTTTTTTTTTTTTTTTTATGTAGCAACGG	[26, 34]
CTAGCAGATCGCCAATAAGGACCACCGGTGAGACCAGTGCGT	[26, 55]
GCGGACGACTTTTGGTGGTTTAAGTATAGTTGTGCCTACAAT	[26, 76]
CGACAGTAGTGACTACCGGAGGCAACCTAGCAAGGCTACAGC	[26, 97]
TTTTTTTTTTTTATGATCATATTTATTGCCTTTTTTTTTTTT	[26, 118]
CCGCACGTGCTGTTTTTTTTTTTTTTTTTTTGAGGCGGCTGCC	[28, 34]
CGGCCATCAATACAGGAGAAGGAGGGGGCACTCCAATCGGGT	[28, 55]
CGGCCACTACAGTAAGCCACGTAGCTATGGGTAAACCATACC	[28, 76]
TAGACTTTCGTCCACGATGGCTCAGACGCTCGGTATGGATAA	[28, 97]
TTTTTTTTTTTTTGTCGGGTATTAGTACTGTTTTTTTTTTTT	[28, 118]
TAGCGATATTCATTTTTTTTTTTTTTTTTTTCACCCCGGTA	[30, 34]
TGCACTTGGGCGTATCGGAGGCAAATCTGTTTTAGTATAATA	[30, 55]
TCTCATAATTCCTTTTTTACTCACAAGGCGTGGAGCGCTCGA	[30, 76]
CTCTCGTTCGATCCCACATGACCCCCCCGCAAGGATTGCCGG	[30, 97]
TTTTTTTTTTTTATGCCAGCACGCTTTCTATTTTTTTTTTTT	[30, 118]
TTTTTTTTTCCTACTCTTAAATGGTTCTGGTTCGACACCTTT	[31, 14]
CCGAGATGTTACGAGGTCTACCAGAAACTTTAGCGTGCAGTAAACGAATGTTTTTT	[31, 56]
CTGAGCACTGCCTTTTTTTTTTTTTTTTTTGTACGCTGTATT	[32, 34]
GATCTCGTTCCCACTGTTTGGTAGTTTGATCCTAACATTGGA	[32, 55]
ACCGCTCTAGCCGTCTAGGACATGCACGATATGTGGTTACAC	[32, 76]
TCTTGCGTCACCGTGGATATCCGGCCGTCTTAATGCCATTAC	[32, 97]
TTTTTTTTTTTTTGATTAGCGGTTCCGCGTTTTTTTTTTTT	[32, 118]
TTTTTTTTTCCCCAAGTTAGGTTTCTCTTGCTTCGGCTACAT	[33, 14]
GCGAATCGCCTACCGGCATGCAGGAGATCCGTCAAGCTGGGTCTAAAGCGTTTTTT	[33, 56]
AACGATCTTAGTTTTTTTTTTTTTTTTTTTTAGCGCTCGGCCC	[34, 34]

CAGCCGCCGGCGAAAATTCGCTACCCACAGGTACTGGTCGAC	[34, 55]
TATTTGACGGTGTCATTCGTACAAGTCATAATTGAAAGGTGT	[34, 76]
TGGGAGAATTAAAAGCACGCACAAGGAGGATGTAACGACCAT	[34, 97]
TTTTTTTTTTTTTTGGACGGGGGGAAGTTCTTTTTTTTTTTT	[34, 118]
TTTTTTTTTTCTGCAACCTAGGACCCTGCCCAGCAGGAACTT	[35, 14]
GTAACCCTTACTACGCTGCTTAGGGGGTAGGTTGTCATGTCAAGGCCGGACTTTTT	[35, 56]

Table S18. Sequences of 6H × 7H × 108B-HL.

Sequence	5' end
TTTTTTCCAGGTTAAGTGGCTCAATCATACTCA	[0, 26]
CGGTTAACTGTTGTGTCCTATGTTTACTTAGGGATGGTACGAACTCAACGCACG	[0, 56]
CTCGGGTAGTCTCAAGAAGATAGAGAGTTTTTT	[0, 104]
CATAAATTCGCTAAACCGGAAAAGTATCCGCATCTCACTCAGTGATCGAGTATTTTTTTT	[1, 79]
TTTTTTCATGTCGCCTTTTCGAACGGTGACACACTTGTGTTCATTCAGAGTAGCGGAAAT	[1, 133]
TTTTTTATGGCCGCTTCGGTGCGCAGCGGGCCG	[2, 26]
CCTGTAACGCTTAATCAGCCCGGGCTTTTGCTAATACGCTGAGCGATGCTGTTG	[2, 56]
TTGCGGGGTTTCTGAACCGGAACCCGGTTTTTT	[2, 104]
GCTAATGAAGCCGTGACCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTTTTTTT	[3, 79]
TTTTTTAGCTGTGTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGGTGATGCCAAAAGGGT	[3, 133]
TTTTTTGGATATGGAGCTGGAACGGCTCTGATT	[4, 26]
TCTAGTGACCTGGTATAATGGCGGAGCTACCTGACCTCAATCATACGTCCCACG	[4, 56]
GAAGGATTCATCCCCTTTAAGAATGATTTTTTT	[4, 104]
CGCACAGTCTTTGAGATGTTGAACATCTTTTGGTTGGCGTAAAGATCTCGCATTTTTTTT	[5, 79]
TTTTTTCTGGTGCCAAAACTGCCGACTCGTTCAAGCACTATTATCTGGCTATAAAAGATG	[5, 133]
TTTTTTTCTGTCAGCCCAAGCTTAGCATAAGCGGCTGGACGACCCCGCCGTGCGACGACT	[6, 26]
GACCGTCGAGCCCTGCGCGACAAACGCATATCCTCGGCCCGCCAAATTAATAGTTTTTTT	[6, 80]
CGATTACGCTTCGCCTAAAGGTCCTTCTTTTTT	[7, 55]
CACGGTAATCGGGGGTGACTCCGGCCTCCTTGGTATATTAGCTTACCCACTCGC	[7, 103]
TTTTTTGTGGCACGTCTACGACTCGTCGAACGA	[7, 133]
GGACTGTTCTACATAGTGACTTGGACGAGGTTTCACTGGGCGCTATACAGGAAA	[8, 32]
CTCGAGGGGCTCCCTGTCTGTCGAGCCCAGCGACCACTTCTGGAGAAAGATGCGTTTTTT	[8, 80]
GTGGCAGTAGTTGTGATTAGCTTGGGGTTTTTT	[9, 55]
GTGATATACCTCACTAAACTCCTTCTAATGTGACTAAGCGTTAACTCCAAAGGA	[9, 103]
TTTTTTAACCAGCTATCCCATATTCGATGTAAG	[9, 133]
CGGACATCTATGCGCCCGATATCCGTTCAAACTAGGGGGCTTCTGACCAAAGCT	[10, 32]
CATGAGAATTGTAAACAGGAACAGCTTAGAGCAGTCAAGTTCGGATACGCTACCTTTTTT	[10, 80]
TATGGACGGGGATATGCGACACCATGATTTTTT	[11, 55]
TCCGGATGAGTTATGAAGATCGTCATTGGGATATACAATCTCGAAGTAAAGCAT	[11, 103]
TTTTTTAGCACCCTGCGAAGATAGGGTCACAGC	[11, 133]
TTTTTTAGTAATACCTCTACCTTGTTGGACGTA	[12, 26]
AGCGTGAAATAACGACCAGAAAGCACGAGGATTATCACGTGTACCTCGAAATAA	[12, 56]
TCGTTAGTTTCTCGACTGTTCCGAAACTTTTTT	[12, 104]
AGGCAGCGGTAGCCTCCCACTTAACCTATGCCTTGGTAACTGATTTTCTCCTGG	[13, 79]
TTTTTTTTCCGCTAGCTGATCTATGGTCCTTAATATAACCCTCGGAGGCAAGGGGAGAGG	[13, 133]
TTTTTTGTGAAACAGGCCACCTGGCTCGGGGAG	[14, 26]
TGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTTCCATAGCTA	[14, 56]
ACCCGATTGTGCATTCCACGTGAGTCGTTTTTT	[14, 104]
TACTTAAAGCAAACGTGGGAGTGCCCGAGCGTCTGAGGTATGGTTTACCCACTA	[15, 79]
TTTTTTTGTTGTCTCAAGTGCTAACAGTACTAATTATCCATAACTGTGCACGTCAGGGAT	[15, 133]
TTTTTTTCTCACCGGTGGCCGTTGCTACATCAG	[16, 26]
TTTCTTTGCACTCCTGGGGAAACTATACTTACGCACTGGTTTGGAGGGATTAGG	[16, 56]
CAATTGCTAGGTTGCATTGTAGGCACATTTTTT	[16, 104]
ATTTTTGATTCGATCACATACATGGGCAATAAAGCTGTAGCCTGAGGCGCGCAGTTTTTT	[17, 79]
TTTTTTCTGCACCGTGTCACCTTGATATTGAGGGACACCTCGTCATTCGGATAAACCATA	[17, 133]
TTTTTTCTGAGGGCAGTGGGCGAGATCGGCTAATCATTAGTGCTCCCTTAG	[18, 26]
TTAGTTCATAGTTCATTA	[18, 72]
GGGGCGGAAATGGGCTGGTGCCCCACGTACAGTAACCAACCGGTGTTTTTT	[18, 88]
TACCTGTGGGTAGGGCCGAGCGCTGGGCTTACATGTGCAAGTGAATTTTTT	[19, 71]
ATATATGACTTGGTCGAC	[19, 87]
TTTTTTCAGATCTGCTAGAAACCACCAACATCCTCCTTGACACCTTTCAAT	[19, 133]
TTTTTTTTTTAGTAAACACCCAACAGAGCTGAACTTCCCATGGTCGTTCTA	[20, 26]
CTGTCGTATGATCATAGG	[20, 72]
ATCAAACTAAATACAGCGTACCGCCAGTTCTTGTCCTTATTGGCGTTTTTT	[20, 88]
ATCGTGCATTCCAATGTTTGATGGCCGCGTGGCTTATTAAGACGGTTTTTT	[21, 71]
CCGGTGTAACCACATAAA	[21, 87]
TTTTTTGTCGTCCGCCTCCGGTAGTCAACGCGGAACGTAATGGCAGAAAGT	[21, 133]
TTTTTTCTATACCCGACAAAAACAGATTTGTACCGGGGTGAACAGCACGTG	[22, 26]
CGGCTTCTCCTGTATCGC	[22, 72]
CTTGTGTATTATACTCTTGCGGGGGGGTCGAGCGCTCCACTGTAGTTTTTT	[22, 88]
TGGCCGGCCATCGTGGACTAGAAAGCGCCGGCAATCTGAATATCGTTTTTT	[23, 71]
CTACCTCCGATACGCGAA	[23, 87]
TTTTTTCCAGAACCATTTAAGAGTAGGGGCAGTGCTCAGCCAAACAGTGGG	[23, 133]
TTTTTTACATCTCGGAAAGGTGTCCCAAGTGCAAGTAAAAAAGGAATTATGAGATCATGT	[24, 26]
GGGATCCTAAAGTTTCTGGTAGACCTCGTAGGCTAGAGCGGTGATATCCACGGTTTTTTT	[24, 80]
ACATTCGTTTACTGCACGGAACGAGAGTTTTTT	[25, 55]
TGCTGGCATAAGCAAGAGAAACCTAACTTGGGGACTAAGATCGTTGCGAATTTT	[25, 103]
TTTTTTCGCGCGATTCGCATGTAGCCGAACGAG	[25, 133]
ATCGTCCTAGACGACGGATCTCCTGCATGCCGGTAGCACCGTCAAATATGCGTG	[26, 32]
CTTTTAACGCTTTAGACCCAGCTTGACGCAAGACGCTAATCACTGGGCAGGGTCTTTTTT	[26, 80]
CTAGGTTGCAGAAACCTACCCCCTAAGTTTTTT	[27, 55]
CAGCGTAGTAAGGGTTACAAGTTCCTGCGGCGGCTGTACGAATGAGTCCGGCCT	[27, 103]
TTTTTTTGACATGACATTCTCCCACCCGTCCAA	[27, 133]
CACCAGCAGGATGTCGAGCCCACAACTTGACAGTAGTACAGTATCTTTTTTCAT	[28, 32]
GGCGGCGATGTCGCCGTTTGCTCGCGTGCGTACGGCTTTTATATAGCGTAGACCTTTTTT	[28, 80]
GGACAACCCCGTAAATCGTAAGAGTCGTTTTTT	[29, 55]
TTATGCCCCCCGGTTCTGCTAGAGTGGGACTGGATCAGATGTTCAAGTATTCGG	[29, 103]
TTTTTTTGACCTCCCCGCATTACAACGCGCTTA	[29, 133]

TTTTTTCCAAGTAACGTATGTACGACGCGATGC	[30, 26]
GAGTGAACGGGTGGATGAATTTCGTTCGGGGCCAGGCGATCTAAGTCTGGCGCG	[30, 56]
TGAGGACACGTAAGTTGAAGTAGGAAGTTTTTT	[30, 104]
CTTTTTCTAGCCATAGCATCGACACTACGACCTGCTTTTCGACACGGACTGCAT	[31, 79]
TTTTTTTCTGGACAGTAACTGCATTAACTACGTGCTCCCAACATAAGTGACGTCCTCAGC	[31, 133]
TTTTTTAGTTGAAAATTATCTCGATAAGCAGAA	[32, 26]
GGACCTGTATAACTGGCAAGAGACAAGGCCGCTTCAGAAAGGATAGCCGGACCG	[32, 56]
TATTAATGCCGCGCCAACGGTTTCCCGTTTTTT	[32, 104]
GACCTAGTGTCTATCAAGTCTATTCTATGAAACCATTCTCGGGTCGAGCGGGTC	[33, 79]
TTTTTTACTGTTGTGACCTACGAGAAGCGTATAGATGTTCCGCGCGAATAGCTCACAGGC	[33, 133]
TTTTTTGAACTACGTATGAATTGGTTTAAACGC	[34, 26]
TCCTCGGGAATTAATACGACAGGTGGCAAACCACCTCCGATGTCAGCGCCGCAT	[34, 56]
ACCCATTCACTGTGAATTTCCACACCGTTTTTT	[34, 104]
AGGATTCGCAGGTCCATGGGATTCACCAAGCTCGTATACACCCTGATTCTCCATTTTTTT	[35, 79]
TTTTTTGGCAGCGCTTCGGTACAGGTCTGAACTGGTAGATCACCATTAGTGTACCCAGCA	[35, 133]
TTTTTTGTTCGGCTCCCTTGTGGACTCGGGATACCCGGTCGTCGTGTAATGCTGTTCCGG	[36, 26]
GGTAAATCAAGCTTTATAAATTCCCGACGCTCTGTTCCAAACTTTAGAGCCCGGTTTTTT	[36, 80]
CCGTAATCTCGGATTCCTTAAAAACCAGGCGCAATCTCATGGCATTTTTTT	[37, 71]
AAACGAAACCCAATCATA	[37, 87]
TTTTTTCGAGCGTGGAGGGAAGTTATTCTACTGGCGTTTTCATATATCAGA	[37, 133]
TTTTTTGAGCACAGTAATTCGGAGCCCGGCGTATTATCGCGTCAATTCATA	[38, 26]
TGGACACACCAGATTACG	[38, 72]
GCGGCTTAGGGGAATTGAGTACAAGTGACGAAGAATACCGTCCATTTTTTT	[38, 88]
CAGATGGAGCTGTCAGGCTTCTCCGTCAAAATGTTGGCTGAGATTTTTTTT	[39, 71]
GATTGGTTTAGTGTATAG	[39, 87]
TTTTTTCGAGTAAGAGATATGTGGGAGGATCATTACAGGATCAAAGTTGAC	[39, 133]
TTTTTTTAGCAGAATAATTTGCATCCGAATAAGGTACGCAATTACTATTTG	[40, 26]
TACCGAAAACAAGGGCAT	[40, 72]
ACAGTAACGAAAAGCGAACGAGCCACCACCTAGCACCTCCTGTTATTTTTT	[40, 88]
GGGTGACACCCGGGATGGGTTGTTCATCGGTCACCCTTTTTT	[41, 63]
CAGTTTTCGCTTGAGGAATAGTCCAAG	[41, 87]
TTTTTTAAATGCATGATAAAAGTTGTGCCGCACTGGAATCTGAAGATGCAC	[41, 133]
TTGAGCCACTTAACCTGGTCATGGTGTCGCATATCCCCGTCCATAATGCTTTAC	[0, 47]
GTAAACATAGGACACAACAGTTAACCGTGAGTATGAGAGATGCGG	[0, 79]
AGTTCGTACCATCCCTAAAATGACGATCTTCATAACTCATCCGGAGCTGTGACC	[0, 95]
CTCTCTATCTTCTTGAGACTACCCGAGCGTGCGTTGGAACACAAG	[0, 127]
AATACTCGATCACTGAGT	[1, 32]
GCGCACCGAAGCGGCCATCCCCAAGCT	[2, 47]
CGTTACAGGCGGCCCGCTGCATCAGAC	[2, 63]
AAGCCCGGGCTGATTAAGCGGTTTAGCGAATTTATGATTTCCGCTACTCTGAAT	[2, 79]
CGCTCAGCGTATTAGCAATAGAAGGAG	[2, 95]
ACCCCGCAACAACAGCATTAGCTAGAG	[2, 111]
CCGGGTTCCGGTTCAGAAGTTCGAAAAGGCGACATG	[2, 127]
AAGTGGCTGGCTCCCGGT	[3, 32]
CGTTCCAGCTCCATATCCGAAGGACCT	[4, 47]
GTCACTAGAAATCAGAGCCAACCAAAA	[4, 63]
GCTCCGCCATTATACCAGGGTCACGGCTTCATTAGCACCCTTTTGGCATCACCC	[4, 79]
TATGATTGAGGTCAGGTAAGGCCGGAG	[4, 95]
GAATCCTTCCGTGGGACGAATAGTGCT	[4, 111]
ATCATTCTTAAAGGGGATGATCACACTGACACAGCT	[4, 127]
AATGCGAGATCTTTACGC	[5, 32]
GACTGTGCGCATCTTTTATAGCCAGAT	[5, 72]
CGCTTATGCTAAGCTTGGGCTGACAGA	[6, 55]
ACGGCGGGGTCGTCCAGCGATGTTCAACATCTCAAA	[6, 71]
GCGTTTGTCGCGCAGGGCTCGACGGTCAGTCGTCGCATACCAAGG	[6, 103]
TTGGCGGGCCGAGGATATTGAACGAGTCGGCAGTTTTGGCACCAG	[6, 119]
ACTATTAATACGTGCCAC	[6, 127]
GAACAGTCCTTTTTTTT	[8, 39]
CGTCCAAGTCACTATGTATTAGGCGAA	[8, 55]
TAGCGCCCAGTGAAACCTAGTCTCTGG	[8, 71]
CCCCTCGAGTTTCCTGTATAGTCACAT	[8, 87]
GGCTCGACAGACAGGGAGTCACCCCCG	[8, 103]
CTCCAGAAGTGGTCGCTGGGAACTCGC	[8, 119]
CGCATCTTTTAGCTGGTT	[8, 127]
AGATGTCCGTTTTTTTT	[10, 39]
AACGGATATCGGGCGCATAATCACAAC	[10, 55]
CAGAAGCCCCCTAGTTTGATACTTTTC	[10, 71]
ATTCTCATGAGCTTTGGTGTATATCCC	[10, 87]
AAGCTGTTCCTGTTTACATTTAGTGAG	[10, 103]
TCCGAACTTGACTGCTCTTGTGTCACC	[10, 119]
GGTAGCGTACAGGGTGCT	[10, 127]
TTTCACGCTTACGTCCAACAAGGTAGAGGTATTACTCGATATTCAGATTGCCGG	[12, 63]
TGGTCGTTATAAGCTAAT	[12, 71]
CGTGCTTTCCCGCTGCCTCCTCTCCCC	[12, 79]
AACTAACGATTATTTCGAGGTACACGTGATAATCCTCGGAGGTAGCCCACTGTT	[12, 111]
CAGTCGAGAGAGTCGTAG	[12, 119]
GTTTCGGAACTAGCGGAA	[12, 127]
TTTTTTTTCCAGGAGAA	[13, 24]
CTGTTTCACCCGTCTTAATAAGCCACG	[14, 39]
CCAGGTGGCAATCAGTTACCAAGGCAT	[14, 47]
GAGGGGGCACTCCCCGAGGCGTAATCGGCGAGTGGG	[14, 63]

GCGGCTGCCGTTAACGCT	[14, 71]
ATAACCGAGCTTTAAGTAATCCCTGAC	[14, 79]
TTGACGAGTTTACACCGGACTTTCTGC	[14, 87]
AAAGCAGGCTTGCCTCCGAGGGTTATA	[14, 95]
CAATCGGGTTAGCTATGGATTACCGTGTCGTTCGAC	[14, 111]
TGGAATGCAAATATGGGA	[14, 119]
CGACTCACGGAGACAACA	[14, 127]
TTTTTTTTTAGTGGGTA	[15, 24]
CCGGTGAGATTCACTTGCACATGTAAG	[16, 39]
CAACGGCCAAACCATACCTCAGACGCT	[16, 47]
GCAAAGAAACTGATGTAGTACTGCCACTCCTTTGGA	[16, 63]
CCCAGGAGTTTCGAGATT	[16, 71]
TATAGTTTCATCAAAAATTATGGTTTATCCGAATGACGAGGTGTC	[16, 79]
GTGCGTAAGGTCATATATATTGAAAGG	[16, 87]
TCCAAACCAGTGCACAGTTATGGATAA	[16, 95]
TAGCAATTGCCTAATCCCGTATATCACCTTACATCG	[16, 111]
AATGCAACCCTATCTTCG	[16, 119]
TGTGCCTACACGGTGCAG	[16, 127]
CTGCGCGCCTCAGGCTACAGCTTTATT	[17, 32]
CTCGCCCACTGCCCTCAGCGACTCTTACGATTTACGGGGTTGTCCCCGAATACT	[18, 47]
TTAGCCGATCCCAGCGCT	[18, 55]
ATGAACTAACTAAGGGAGCACTAATGAGCCCATGTATGTGATCGA	[18, 79]
TTCCGCCCCTAATGAACTCCACTCTAGCAGAACCGGGGGGCATAATAAGCGCGT	[18, 95]
CCAGCCCATTGTCAAGGA	[18, 103]
CACCGGTTGGTTACTGTACGTGGGGCACCTCAATATCAAGGTGAC	[18, 127]
GTTGGGTGTTTACTAAAACTTAGGGGG	[20, 47]
TTCAGCTCTCGGCCATCA	[20, 55]
CATGGGAAGCGGGCACTCCCACGTTTG	[20, 63]
ATACGACAGTAGAACGACCCACAGGTAGTCGACCAA	[20, 79]
TAGTTTGATCCTATGATCCAGGAACTT	[20, 95]
CGCTGTATTCATTACGTT	[20, 103]
CTGGCGGTATTAGTACTGTTAGCACTT	[20, 111]
CGCCAATAAGGACAAGAATGGTTTCTAGCAGATCTG	[20, 127]
TGTTTTTGTCGGGTATAGCTCTCGTTC	[22, 47]
GTACAAATCCGCTTTCTA	[22, 55]
TTCACCCCGAGGTTAAGTGGGAGGCTA	[22, 63]
GAGAAGCCGCACGTGCTGATGCACGATTTTATGTGG	[22, 79]
ATACACAAGGCGATACAGGTTAGGTTT	[22, 95]
AAGAGTATATGGCTGAGC	[22, 103]
CCCCCCCGCTTAAGGACCATAGATCAG	[22, 111]
CTACAGTGGAGCGCTCGACTACCGGAGGCGGACGAC	[22, 127]
TGCACTTGGGACACCTTTCCGAGATGT	[24, 55]
CATAATTCCTTTTTTACTGTCCACGATGGCCGGCCATTCGCGTAT	[24, 71]
GAGGTCTACCAGAAACTTTAGGATCCCACATGATCTAGTCCCCAA	[24, 103]
ATCACCGCTCTAGCCTACACTGCCCCTACTCTTAAATGGTTCTGG	[24, 119]
ACCGTGGATAATCGCGCG	[24, 127]
TAGGACGATTTTTTTTT	[26, 39]
TGCAGGAGATCCGTCGTCCGTGCAGTA	[26, 55]
TTGACGGTGCTACCGGCAAACATTGGA	[26, 71]
CGTTAAAAGCACGCATATCAGCCGCCG	[26, 87]
GTCAAGCTGGGTCTAAAGCTCTTGCTT	[26, 103]
CAGTGATTAGCGTCTTGCCCGCGTTGA	[26, 119]
GACCCTGCCGTCATGTCA	[26, 127]
CTGCTGGTGTTTTTTTT	[28, 39]
AGTTGTGGGCTCGACATCTAGGTTTCT	[28, 55]
GATACTGTACTACTGTCACGGCCCTAC	[28, 71]
ATCGCCGCCATGAAAAAAGATCCAGTC	[28, 87]
ACGCGAGCAAACGGCGACGTAACCCTT	[28, 103]
TATATAAAAGCCGTACGCGGATGTTGG	[28, 119]
GGTCTACGCGGGAGGTCA	[28, 127]
CGTTCACTCGCATCGCGTCGTACATACGTTACTTGGGGGTGACCGATGAACAAC	[30, 63]
TCATCCACCAACGATCTT	[30, 71]
GAACGAAATTAGAAAAAGGCTGAGGAC	[30, 79]
GTGTCCTCACGCGCCAGACTTAGATCGCCTGGCCCCCGAAAACTGGTGCATCTT	[30, 111]
TCAACTTACCTACATGCG	[30, 119]
CTTCCTACTCTGTCCAGA	[30, 127]
TTTTTTTTATGCAGTCC	[31, 24]
TTTTCAACTAATCTCAGCCAACATTTT	[32, 39]
TCGAGATAAGTGTCGAAAAGCAGGTCG	[32, 47]
TACAGGTCCTTCTGCTTAAACGAATGTAAAATTCGC	[32, 63]
TGCCAGTTATCATTCGTA	[32, 71]
CTTGTCTCTCACTAGGTCGCCTGTGAG	[32, 79]
TGAAGCGGCAAACCAATCGTCAACTTT	[32, 87]
TATCCTTTCGTCACTTATGTTGGGAGC	[32, 95]
GCATTAATACGGTCCGGCATGCCAGCACTCGTTCGG	[32, 111]
GTTGGCGCGTGGGAGAAT	[32, 119]
CGGGAAACCCACAACAGT	[32, 127]
TTTTTTTTGACCCGCTC	[33, 24]
ACGTAGTTCATGCCATGAGATTGCGCC	[34, 39]
CCAATTCATGACCCGAGAATGGTTTCA	[34, 47]
TCCCGAGGAGCGTTTAAAGCAACCTAGAGGCCGGAC	[34, 63]

CGTATTAATTGAACATCT	[34, 71]
GCCACCTGTGCGAATCCTTGCTGGGTACACTAATGGTGATCTACC	[34, 79]
AGGTGGTTTGTTTCGTTTTCTGATATA	[34, 87]
TGACATCGGCTATTCGCGCGGAACATC	[34, 95]
TGAATGGGTATGCGGCGCACTACGCTGTTGGACGGG	[34, 111]
AATTCACAGTGTAATGCG	[34, 119]
CGGTGTGGAAGCGCTGCC	[34, 127]
ATGGAGAATCAGGGTGTATACGAGCTT	[35, 32]
TCCACAAGGGAGCCGAAC	[36, 47]
TATCCCGAGTGGTTTTTAAGGAATCCG	[36, 55]
CATTACACGACGACCGGGGGTGAATCCCATGGACCT	[36, 71]
TATAAAGCTTGATTTACCCCGGAACAG	[36, 95]
TCGGGAATTTGAAAACGCCAGTAGAAT	[36, 103]
CCGGGCTCTAAAGTTTGGAACAGAGCGAGTTCAGACCTGTACCGA	[36, 127]
CTCCGAATTACTGTGCTC	[38, 47]
TACGCCGGGGACGGAGAAGCCTGACAG	[38, 55]
ACGCGATAATAGAATAGACTTGATAGA	[38, 63]
CTAAGCCGCCGTAATCTGGTGTGTCCATATGAATTGAGATTACGGTATGATTGG	[38, 95]
TCAATTCCCGATCCTGTAATGATCCTC	[38, 103]
CACTTGTACTATACGCTTCTCGTAGGT	[38, 111]
ATGGACGGTATTCTTCGTAACTTCCCTCCACGCTCG	[38, 127]
ATGCAAATTATTCTGCTA	[40, 47]
CTTATTCGGCCATCCCGGGTGTCACCCCTTGGACTATTCCTCAAG	[40, 55]
ATTGCGTACTAGTGTCGATGCTATGGC	[40, 63]
CGTTACTGTATGCCCTTGTTTTCGGTACAAATAGTACTCCATCTGCTATACACT	[40, 95]
TTCGCTTTTCAGATTCCAGTGCGGCACAACTTTTATCATGCATTT	[40, 103]
GGTGGCTCGACGTAGTTAATGCAGTTA	[40, 111]
TAACAGGAGGTGCTAGGTCCACATATCTCTTACTCG	[40, 127]

Table S19. Sequences of design 6H × 6H × 64B version 1.

Sequence	5' end
TTTTTTCCAGGTTAAGTGGCTCAATCATACTCACGGTTAACTGTTGTGTCCTATGTTTA	[0, 26]
CTTAGGGATGGTTTTTTTTTTTTTACGAACTCAACGCACGCTCGGGTAGTCTCAAGAAGA	[0, 85]
TAGAGAGCATAAATTCGCTAAACCGGATTTTTTTTTTTTTTTTTTTTTTAAAGTATCCGC	[1, 58]
ATCTCACTCAGTGATCGAGTATTCATGTCGCCTTTTCGAACG	[2, 43]
GTGACACACTTTTTTTTTTTTGTGTTCATTCAGAGTAGCGGAAATATGGCCGCTTCGG	[2, 85]
TGCGCAGCGGGCCGCCTGTAACGCTTATTTTTTTTTTTTTTTTTTTTTTATCAGCCC	[3, 58]
GGGCTTTTGCTAATACGCTGAGCGATGCTGTTGTTGCGGGGTTTC	[4, 40]
TGAACCGGAACTTTTTTTTTTCCGGGCTAATGAAGCCGTGA	[4, 85]
CCCCAGAGACTGTCTGATGCACCGGGAGCCAGCCACTTAGCTGTTTTTTTTT	[5, 75]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGGGTGATGCCAAAATTTTT	[6, 52]
GGGTGGATATGGTTTTTTTTTTTTTTTTTTTTTTTAGCTGGAACGGCTCTGATTT	[7, 43]
CTAGTGACCTGGTATAATGGCGGAGCTACCTGACCTCAATC	[7, 84]
ATACGTCCCACGGAAGGATTCATCCCCTTTAAGAATGTTTTTTTTTTATCGCACAGTC	[8, 59]
TTTGAGATGTTTTTTTTTTTTTTTTTTTTTTTTTTTGAACATCTTTTGGTTGGCGTAAAGAT	[9, 41]
CTCGCATTCTGGTGCCAAAACTGCCGACTCGTTCAAGCACTAT	[9, 84]
TATCTGGCTATAAAAGATGTCTGTCAGCCCAAGCTTATTTTTTTTTTGCATAAGCGGC	[10, 59]
TGGACGACCCTTTTTTTTTTTTTTTTTTTTTTTTCGCCGTGCGACGACTGACCGTCGAGCC	[11, 41]
TTTTTCTGCGCGACAAACGCATATCCTCGGCCCGCCAAATTAATAGTCGATTACGCTTC	[11, 100]
TTTTTTGCCTAAAGGTCCTTCCACGGTAATCGGGGGTGACTCCGGCCTCCTTGGTATAT	[12, 26]
TAGCTTACCCATTTTTTTTTTCTCGCGTGGCACGTCTACGACTCGTCGAACGAGGACT	[12, 85]
GTTCTACATAGTGACTTGGACGAGGTTTTTTTTTTTTTTTTTTTTTTTTTCACTGGGCGC	[13, 58]
TATACAGGAAACTCGAGGGGCTCCCTGTCTGTCGAGCCCAGC	[14, 43]
GACCACTTCTGTTTTTTTTTTGAGAAAGATGCGGTGGCAGTAGTTGTGATTAGCTTGG	[14, 85]
GGGTGATATACCTCACTAAACTCCTTCTTTTTTTTTTTTTTTTTTTTTTAATGTGACTA	[15, 58]
AGCGTTAACTCCAAAGGAAACCAGCTATCCCATATTCGATGT	[16, 43]
AAGCGGACATCTTTTTTTTTTTATGCGCCCGATATCCGTTCAAACTAGG	[16, 85]
GGGCTTCTGACCAAAGCTCATGAGAATTGTAAACAGTTTTTTTT	[17, 67]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGCTACCTATGGACGGGGATATGCTTTTT	[18, 43]
GACACCATGATCCGGATGAGTTATGAATTTTTTTTTTTTTTTTTTTTTTGATCGTCATTG	[19, 58]
GGATATACAATCTCGAAGTAAAGCATAGCACCCTGCGAAGA	[20, 44]
TAGGGTCACAGTTTTTTTTTTCAGTAATACCTCTACCTTGTTGGACGTAAGCGTGAAA	[20, 85]
TAACGACCAGAAAGCACGAGGATTATCTTTTTTTTTTTTTTTTTTTTTTACGTGTACCTC	[21, 58]
GAAATAATCGTTAGTTTCTCGACTGTTCCGAAACAGGCAGC	[22, 44]
GGTAGCCTCCCTTTTTTTTTTACTTAACCTATGCCTTGGTAACTGATTTTCTCCTGGT	[22, 85]
TCCGCTAGCTGATCTATGGTTTTTTTTTTTTTTTTTTTTTTTCCTTAATATAAC	[23, 51]
TTTTTCCTCGGAGGCAAGGGGAGAGGGTGAAACAGGCCACCTGGCTCGG	[23, 100]
TTTTTTGGAGTGCCCCCTCGGCAGCCGCCTCGGTTATACTCGTCAAGCCTGCTTTCCAT	[24, 26]
AGCTAACCCGATTTTTTTTTTTTGTGCATTCCACGTGAGTCGTACTTAAAGCAAACGT	[24, 85]
GGGAGTGCCCGAGCGTCTGAGGTATGGTTTTTTTTTTTTTTTTTTTTTTTTACCCACTA	[25, 58]
TGTTGTCTCAAGTGCTAACAGTACTAATTATCCATAACTGTG	[26, 43]
CACGTCAGGGATTTTTTTTTTTTCTCACCGGTGGCCGTTGCTACATCAGTTTCTTTGC	[26, 85]
ACTCCTGGGGAAACTATACTTACGCACTTTTTTTTTTTTTTTTTTTTTTTGGTTTGGAGG	[27, 58]
GATTAGGCAATTGCTAGGTTGCATTGTAGGCACAATTTTTGA	[28, 43]
TTCGATCACATTTTTTTTTTTACATGGGCAATAAAGCTGTAGCCTGAGG	[28, 85]
CGCGCAGCTGCACCGTGTCACCTTGATATTGAGGGATTTTTTTT	[29, 67]
CACCTCGTCATTCGGATAAACCATACTGAGGGCAGTGGGCGAGATCGGCTAATTTTTT	[30, 43]
CATTAGTGCTCCCTTAGTTAGTTCATATTTTTTTTTTTTTTTTTTTTTGTTCATTAGGG	[31, 58]
GCGGAAATGGGCTGGTGCCCCACGTACAGTAACCAACCGG	[32, 45]
TGTACCTGTGGTTTTTTTTTTGTAGGGCCGAGCGCTGGGCTTACATGTGCAAGTGAAA	[32, 85]
TATATGACTTGGTCGACCAGATCTGCTTTTTTTTTTTTTTTTTTTTTTTTAGAAACCACCA	[33, 58]
ACATCCTCCTTGACACCTTTCAATTTTTAGTAAACACCCAA	[34, 44]
CAGAGCTGAACTTTTTTTTTTTTCCCATGGTCGTTCTACTGTCGTATGATCATAGGAT	[34, 85]
CAAACTAAATACAGCGTACCTTTTTTTTTTTTTTTTTTTTTTGCCAGTTCTTGT	[35, 51]
TTTTTCCTTATTGGCGATCGTGCATTCCAATGTTTGATGGCCGCGTGGC	[35, 100]
CACTTAACCTGGTCCGGTTTGCACGGCGACATCTCACCCAGTGAGAAG	[0, 43]
GTGATATTAATTTGGCGGGCGCCGGAGTTCGTTCGAGAAACAGTCGAGA	[0, 59]
GACTTTATAGCCGTTTTGGCGACAGGGACTAATCACCTATGCTTCGCT	[1, 68]
TTGAGTTCGTACCATCCCTTCGCGCAG	[1, 85]
CGATAGTCGGCAAGATAGGCAACAGTCCCACCCCCGGCCAGGTGGCCT	[2, 59]
GTGTGCTTATGCTAAGCTTGCACGCGAGTGGGTAAGCTCCGAGG	[2, 91]
CGTTGATGTTCACCATATCCTCACATTACTGTTTACTGACGATC	[3, 36]
CCATCCGTGGGAGCCATTATGATAGCTGGCCCCCTATATCCGAACTTG	[3, 68]
GCCCGGGCTGATACAGCTAATTCCAGCT	[4, 43]
CAGCGTAGCTCCCGTATATCCCCCCAAGGCCCCTCGTTAACCAGGAGA	[4, 59]
CGGTTGTGCGATCATTCTTATCTTTCTCCAGAAGTGGGTT	[4, 91]
CTCTGAACTCGCGATCACACGGTCAGAAGTTTCCTTGTCTTTCATACT	[5, 68]
TTTTGGCAGGCGCATAGATGTCCGTATTACTGCTGTGACCGGTG	[6, 95]
GGGTCGTCCTTTAGGCAACCTCGTTATTAAGGGATAATCCTGGG	[11, 32]
GGACCAGAAGCGCAGTCGTCAGCGAATTGAGATGCGGATACTTTTAAG	[12, 43]
GGAGCGAGGATAGACATCTTACCCGAGCGAAAAGGCGACATGAAGCGG	[12, 75]
GTAGTCGACGGTTAATCGACGTATGATTGAGC	[13, 52]
GTGCGGCTGACATGCGTTTGAAGTAAACATAGGACACAACAGTTTTGA	[13, 84]
AGCGAAATAGTGAACCAAAAACAGGCGGAAAA	[14, 43]
GACAACCAGAATGAATCCTTATTTCCGCCCCGCAACAACAGCATCAGT	[14, 75]
GAGTGTACACGTTTCATAACCCAAACCATCCCTCAATAATGAAC	[15, 36]
ATCATTTACGCCCTTGAACGCACTGAGTTATGCTCTCTATCTTCAACC	[15, 52]
CGCAAAGGGGATGCGAGGCCCACCGTTCGTGCG	[15, 84]
TTAGACCCGATTCAGAGCCGGTGGCTGGCTCCCGGTGCATCAGACGCT	[16, 43]

ATGGACCAGGTCGCTAGAGGGGGGTCACGGCTTCATTAGCCCGGGTTC	[16, 75]
CTTTTGACAAATGAGGTCAGGTATTAGCCCCGCTGCGCACCGAATACT	[17, 52]
ATCGTCACCCTAACTAGGACTCAGAAACTACTCTGAATGAACACAAGT	[17, 84]
ACTGTGCAGCTGCAACCTAGATGTTTCAGGCACCAGCCCATTTCCAAG	[18, 59]
GCATATCCGCCCATGTATGTGATCGGCCCTACCCACAGGTACACCGGTAGAA	[18, 95]
TACGCTACAATGCGCGCCTCTCAGTATGGTTTATCCGAATGACGGAGC	[19, 68]
TCGAAGTGCAAACTGTTAGCATAATCCTAAAGGTGTCAAGGAGGTTTG	[20, 59]
AAATAATTAGTAGAAACTGAGTACGTGGCTTGCACATGTAAGCCCACT	[21, 68]
AAGTGGGAGGCTATGCACAATCGGGTTACAATAAGG	[21, 92]
AACTCCCACGTTTATAACCGCGCGGCCATCAAACATTGGAATGCTGTT	[22, 59]
ACCATAGAGGCACTCCCCATACCTGAACTGGCAGCAGATCTGGTCGACCGCT	[23, 32]
GTTTTTGACGAGTGCTTTAAAAAAATTGATGATCATACGACAGTTGGT	[23, 68]
TAAAGTGCGTAATGGTTTCTTATGAACTAACTAAGGAGGT	[26, 35]
AGAATCCCTGACCATGGGAAGTTCAGCTCTGTTGGGACGA	[27, 92]
GCCCTATCAAGGTGACACGGCTCTAAGCATCATGGTTGGAGTTAGTAT	[30, 43]
GCCCAGGCTACAGCTTTATTCCGTCCATGGTAGAGGCTTACATCCCAC	[30, 75]
ATTAGCCGATCTCGCCCAGC	[30, 95]
ACTACAATTGCCTCCCCAGGGATTGTATTCTGGTCGAGTTTCCTCTAT	[31, 52]
GCTCGAATCAAACGGCCACCCTATCTTCAAGGCATAGTCGCTGGAGAC	[31, 84]
TTGGGTATAGTTTAATCCCTTCATCCGGTGTTCCAAAATTCTCATGAG	[32, 43]
TACTTGTAGCAAAATTGTGCTCCAACAAAGGTAGCGGTTTGAACGGAT	[32, 75]
TCATACTTGAGACGGGCACTAACGATTACGGACCGAATTACCGTGGAA	[33, 52]
CGACGTGCACAGCACGTGGAACCGCTGCCCCCTTGCCTAATATACCAA	[33, 84]
ACAACAGACGCTCAACATAGTCGTGCTTATCCTGAGTTAGTGAGACGC	[34, 43]
TACTGTACGACTTTATGGATCAGTTACCGCAGGGTGAACTACTGGAAT	[34, 75]
GGTACGCTGTATTTAGATGT	[35, 32]
GCCAAGGCGGCTGCCGAGGGTCAGCTAGTTTCGTTACCAAGTCAGTAT	[35, 52]
TCGCGCTATGGAAAGCAGGCCACCCTCTCTGTTTCGCGAGTCGTGCTC	[35, 84]

Table S20. Sequences of design 6H × 6H × 64B version 2.

Sequence	5' end
CCAGGTTAAGTGGCTCAATCATACTCACGGTT	[0, 28]
AACTGTTGTGTCCTATGTTTACTTAGGGATGG	[0, 60]
TACGAACTCAACGCACGCTCGGGTAGTCTCAA	[1, 35]
GAAGATAGAGAGCATAAATTCGCTAAACCGGA	[1, 67]
AAAGTATCCGCATCTCACTCAGTGATCGAGTA	[2, 28]
TTCATGTCGCCTTTTCGAACGGTGACACACTT	[2, 60]
GTGTTCATTCAGAGTAGCGGAAATATGGCCGC	[3, 35]
TTCGGTGCGCAGCGGGCCGCCTGTAACGCTTA	[3, 67]
ATCAGCCCGGGCTTTTGCTAATACGCTGAGCG	[4, 28]
ATGCTGTTGTTGCGGGGTTTCTGAACCGGAAC	[4, 60]
CCGGGCTAATGAAGCCGTGACCCCAGAGACTG	[5, 35]
TCTGATGCACCGGGAGCCAGCCACTTAGCTGT	[5, 67]
GTCAGTGTGATCGCGAGTTCCCTCTAGCTAGG	[6, 12]
GTGATGCCAAAAGGGTGGATATGGAGCTGGAA	[6, 44]
CGGCTCTGATTTCTAGTGACCTGGTATAATGG	[7, 19]
CGGAGCTACCTGACCTCAATCATACGTCCCAC	[7, 51]
GGAAGGATTCATCCCCTTTAAGAATGATCGCA	[8, 44]
CAGTCTTTGAGATGTTGAACATCTTTTGGTTG	[8, 76]
GCGTAAAGATCTCGCATTCTGGTGCCAAAACT	[9, 19]
GCCGACTCGTTCAAGCACTATTATCTGGCTAT	[9, 51]
AAAAGATGTCTGTCAGCCCAAGCTTAGCATAA	[10, 44]
GCGGCTGGACGACCCCGCCGTGCGACGACTGA	[10, 76]
CCGTCGAGCCCTGCGCGACAAACGCATATCCT	[11, 51]
CGGCCCGCCAAATTAATAGTCGATTACGCTTC	[11, 83]
GCCTAAAGGTCCTTCCACGGTAATCGGGGGTG	[12, 28]
ACTCCGGCCTCCTTGGTATATTAGCTTACCCA	[12, 60]
CTCGCGTGGCACGTCTACGACTCGTCGAACGA	[13, 35]
GGACTGTTCTACATAGTGACTTGGACGAGGTT	[13, 67]
TCACTGGGCGCTATACAGGAAACTCGAGGGGC	[14, 28]
TCCCTGTCTGTCGAGCCCAGCGACCACTTCTG	[14, 60]
GAGAAAGATGCGGTGGCAGTAGTTGTGATTAG	[15, 35]
CTTGGGGGTGATATACCTCACTAAACTCCTTC	[15, 67]
TAATGTGACTAAGCGTTAACTCCAAAGGAAAC	[16, 28]
CAGCTATCCCATATTCGATGTAAGCGGACATC	[16, 60]
TATGCGCCCGATATCCGTTCAAACTAGGGGGC	[17, 35]
TTCTGACCAAAGCTCATGAGAATTGTAAACAG	[17, 67]
GAACAGCTTAGAGCAGTCAAGTTCGGATACGC	[18, 12]
TACCTATGGACGGGGATATGCGACACCATGAT	[18, 44]
CCGGATGAGTTATGAAGATCGTCATTGGGATA	[19, 19]
TACAATCTCGAAGTAAAGCATAGCACCCTGCG	[19, 51]
AAGATAGGGTCACAGCAGTAATACCTCTACCT	[20, 44]
TGTTGGACGTAAGCGTGAAATAACGACCAGAA	[20, 76]
AGCACGAGGATTATCACGTGTACCTCGAAATA	[21, 19]
ATCGTTAGTTTCTCGACTGTTCCGAAACAGGC	[21, 51]
AGCGGTAGCCTCCCACTTAACCTATGCCTTGG	[22, 44]
TAACTGATTTTCTCCTGGTTCCGCTAGCTGAT	[22, 76]
CTATGGTCCTTAATATAACCCTCGGAGGCAAG	[23, 51]
GGGAGAGGGTGAAACAGGCCACCTGGCTCGGG	[23, 83]
GAGTGCCCCCTCGGCAGCCGCCTCGGTTATAC	[24, 28]
TCGTCAAGCCTGCTTTCCATAGCTAACCCGAT	[24, 60]
TGTGCATTCCACGTGAGTCGTACTTAAAGCAA	[25, 35]
ACGTGGGAGTGCCCGAGCGTCTGAGGTATGGT	[25, 67]
TTACCCACTATGTTGTCTCAAGTGCTAACAGT	[26, 28]
ACTAATTATCCATAACTGTGCACGTCAGGGAT	[26, 60]
TCTCACCGGTGGCCGTTGCTACATCAGTTTCT	[27, 35]
TTGCACTCCTGGGGAAACTATACTTACGCACT	[27, 67]
GGTTTGGAGGGATTAGGCAATTGCTAGGTTGC	[28, 28]
ATTGTAGGCACAATTTTTGATTCGATCACATA	[28, 60]
CATGGGCAATAAAGCTGTAGCCTGAGGCGCGC	[29, 35]
AGCTGCACCGTGTCACCTTGATATTGAGGGAC	[29, 67]
ACCTCGTCATTCGGATAAACCATACTGAGGGC	[30, 12]
AGTGGGCGAGATCGGCTAATCATTAGTGCTCC	[30, 44]
CTTAGTTAGTTCATAGTTCATTAGGGGCGGAA	[31, 19]
ATGGGCTGGTGCCCCACGTACAGTAACCAACC	[31, 51]
GGTGTACCTGTGGGTAGGGCCGAGCGCTGGGC	[32, 44]
TTACATGTGCAAGTGAAATATATGACTTGGTC	[32, 76]
GACCAGATCTGCTAGAAACCACCAACATCCTC	[33, 19]
CTTGACACCTTTCAATTTTTAGTAAACACCCA	[33, 51]
ACAGAGCTGAACTTCCCATGGTCGTTCTACTG	[34, 44]
TCGTATGATCATAGGATCAAACTAAATACAGC	[34, 76]
GTACCGCCAGTTCTTGTCCTTATTGGCGATCG	[35, 51]
TGCATTCCAATGTTTGATGGCCGCGTGGCTTA	[35, 83]
GAGCCACTTAACCTGGTACTTTGGCACCTGTC	[0, 43]
ATAGGACACAACAGTTAAGTCCAGATAAACTA	[0, 75]
GAGATGCGGATACGTAAACCTATGCGTTAGAA	[1, 20]
GAAAAGGCGACACTTCCCATCGTAATCGTAGT	[1, 52]
GTGCGTTGAGTTCTTTCGCTTATACCAGTGGG	[2, 43]
TATGCTCTCTATTGAAGTTCGACGTATGCGGC	[2, 75]

AAAAGCCCGGGCACACTTGAGCTAAGCTGTCA	[3, 20]
CCCGCAACAACACGAATCCGTCGTCGCAATTG	[3, 52]
TACTCTGAATGATGATCAGTGCTAGAGGTAAA	[4, 43]
CCCGCTGCGCACGCATACAGAGCTCCATGTTC	[4, 75]
GGCTTCATTAGCCCGGGCGGATCATTCTGAAC	[5, 20]
CTCCCGGTGCATCAGATAAGCAAAAGATATCC	[5, 52]
TCGCATCGGGCGCATACTAAAGAGGTATTTGA	[6, 27]
ACCCCTTTGGTCAGAAGAAGGGTCGTTACATA	[6, 59]
GGGGCGCATCTTATTAGCCCATCCGAACTACT	[7, 36]
AACAATCACCCCGCTGCTGTTGGTGTCGTTTC	[7, 68]
CTAGTTAGTCACTCTCTCGTGGCATAGGGATC	[8, 27]
AGGTATGGGATACAAGAACCGCTAGCGGTGCT	[8, 59]
CTGAGTGCCACGGTGAGTTTCCAATGACTTAA	[9, 36]
GGGGGTAGAACAGGGAGATGGGGTGCTAAACC	[9, 68]
TGCGAGCGCCCACGAGCACCCCTCCGAGCACG	[10, 27]
GCTTGACAGACAGTCCTGGGAGCCAGGTACAG	[10, 59]
GCGCGGACCTTTAGGCGCCCTCGAGGTAGGTT	[11, 36]
TTAAGGAGGCCGGAGTCAGAGTTTCGGAGGCC	[11, 68]
TTTTTTTTTTTTTTTAGTTCGATCACTTTTT	[12, 11]
GGAAAGGGCTCGACGGATAGGTGTCACCGATT	[12, 43]
CCAATTTGGCGGGCCGTTTTTTTTTTTTAAAC	[12, 75]
GTATAGATCTTTTTTTTTTTTTTTTTTTGAGT	[13, 20]
GCTCGAACGAGTTTTTAGGAGTGAGTATGTTC	[13, 52]
TTTTTTTTTTTCCGCGAAGCCCTAAGTTTTT	[13, 84]
TTTTTTTTTTTTACGCCCATCAGCGTATTTTT	[14, 11]
AGACCAGACATCCGGCGTGGCGGTTCAGGAGC	[14, 43]
CTATTCGTCCAGTTTTTTTTTTTTTTTTAATT	[14, 75]
ACGCAAATCAGATTTTTTTTTTTTTTTTTAGC	[15, 20]
GAATCAGGTAGCTTCCTTATGACTACCCAAAC	[15, 52]
TTTTTTTTTTTTACTGTCAGGTTTAGCGTTTT	[15, 84]
TTTTTTTTTTTTGCCGCCTACTCTGGGGTTTT	[16, 11]
CCACATGAATCCTCCGTTCCCTAAGTGGCCGC	[16, 43]
GTATTCTCAAAGTTTTTTTTTTTTTTTTGCGG	[16, 75]
GGATGATCACACTGACTTTTTTTTTTTTTCAC	[17, 20]
TGAGTTTTGGCATCACTGCGCCATATTTCTGG	[17, 52]
TTTTTTTTTTTTTTTTCAACCGTTACAGTTTT	[17, 84]
CTGCTTATTGCCCATGAGAAAGCGCTCGGTTT	[18, 27]
TCCCCACGGTGCAGCTAGTGAAGTCATAATTA	[18, 59]
GCTGCCACCGGTAACCGCGCTCAGTATGGCCC	[19, 36]
ACGCCCAGGAGTCAATGTCCCACTAATGTATT	[19, 68]
TTCATCCCTCCAGAGATTGCAGAACGACTGAA	[20, 27]
TTACTGTGCCTAGCAAACCATATTTAGTTACG	[20, 59]
GTGGGTGGAATGGTAAGCAAGCCCCTAACATG	[21, 36]
AGGAGCACTCCCTAGTTATGGGTTACTGTTGA	[21, 68]
TGATCATAGTGGCACAGTATCGCCAATAGGTT	[22, 27]
TCGATGGATAATACGTATCGCCACGCGGAAAA	[22, 59]
ATATGAGGGGGCACTCACTGATGTTGGTAGGA	[23, 36]
TGTTCAGGCTTGACGAATCCTGTTTACTCCAT	[23, 68]
TTTTTTTTTTTTTTTTTATTCTCGAGTTTTTT	[24, 11]
TGCCTAAGGACCATAGGCCTAGTGGTCGCCGT	[24, 43]
AAAGTCACCCTCTCCCTTTTTTTTTTTTATA	[24, 75]
ACAAAATCCTCGTTTTTTTTTTTTTTTTCCT	[25, 20]
GTTAGAAACTAACGCTCTTGCCCGATTACTGG	[25, 52]
TTTTTTTTTTTTGTTACCCGTAAGCTAATTTT	[25, 84]
TTTTTTTTTTTTTGCTTATCCCTTTGGATTTT	[26, 11]
TCACGAGGCTACCGATCGCATCCGCTTATCGT	[26, 43]
TCGGGAAAATCATTTTTTTTTTTTTTTTGTCA	[26, 75]
CTAATAACTCATTTTTTTTTTTTTTTTTGTTA	[27, 20]
AAATTTCGAGATTCTTCCAATCGACGAGCATC	[27, 52]
TTTTTTTTTTTTAACAATCATCGTCCAATTTT	[27, 84]
TTTTTTTTTTTTCCGGGCGTCCTAGTTTTTTT	[28, 11]
ACGGTGACCCTATGTAATCATTACAATTACTG	[28, 43]
TTCCTTACGTCCTTTTTTTTTTTTTTTTGAG	[28, 75]
AGCTTCTAAGCTGTTCTTTTTTTTTTTTGAAC	[29, 20]
GTGACGTCCATAGGTAAGGTTCACAACTCTCA	[29, 52]
TTTTTTTTTTTTTTTTTTCTGAGTTTAGTTTT	[29, 84]
ATCCGAATGACGAGGTTTTTTTTTTTTTCTAC	[30, 27]
GCCGATCTCGCCCACTGCCCACTGATGTCAAG	[30, 59]
TTTTTTTTTTTTTTTTGACCCGTAAGTATTTT	[30, 91]
TTTTTTTTTTTTTAAGGCCCGCCTCAGGTTTT	[31, 4]
TACCCACAGGTACCATGGAGCTCAATATAGCA	[31, 36]
TCACTTGCACATTTTTTTTTTTTTTTTTAGT	[31, 68]
CTATGAACTAACTTTTTTTTTTTTTTTTTGC	[32, 27]
TGGGGCACCAGCCACCCAGTTTTAAGTATCAA	[32, 59]
TTTTTTTTTTTTGTAAGCTGTACCTCAGTTTT	[32, 91]
TTTTTTTTTTTTGGTCTTCCCCTAGCAATTTT	[33, 4]
GGAAGTTCAGCTCAAGGGTTTGATCGAACGAC	[33, 36]
TCCTATGATCATTTTTTTTTTTTTTTTTACGC	[33, 68]
TCTAGCAGATCTTTTTTTTTTTTTTTTTGAG	[34, 27]
ATTGAAAGGTGTCTGTCGATAACCGAGGCACA	[34, 59]
TTTTTTTTTTTTACGATAAGGGTTAGCTTTTT	[34, 91]

TTTTTTTTTTTTTTTGAGGTTAGCACTTTTT	[35, 4]
CAAGAACTGGCGGTACTGGGCTGACGTGCGGC	[35, 36]
CAAACATTGGAATGCATTTTTTTTTTTTATGG	[35, 68]