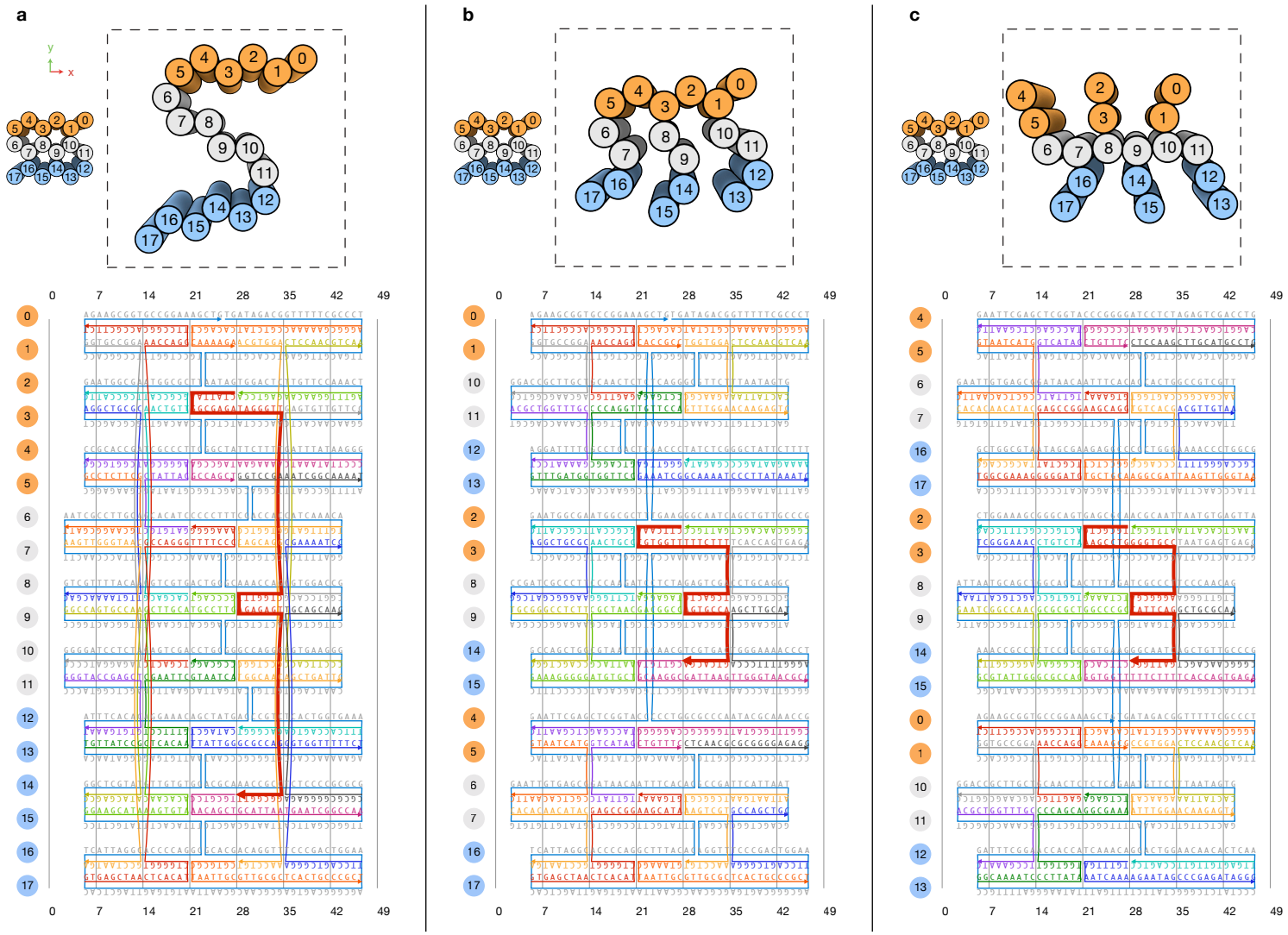


Figure S1 | 18-helix block designs with alternate scaffold routes. **a**, 18-helix block with a scaffold path connectivity following a "six-helix-per-x-raster" motif. Boxed cylinder model depicts conceptual unrolled intermediate in which neighboring strands are adjacent only when those strands are covalently linked by a scaffold crossover. Inset cylinder model (left) shows target folded shape. Detailed schematic shows scaffold and staple paths. Individual staples can be easily traced in vector-based drawing programs, such as Adobe Illustrator (adobe.com) or Inkscape (inkscape.org). Here, a red staple has been drawn with a relatively thicker stroke width to highlight its route as it spans helices 2,3,8,9, and 14. The same staple is highlighted in subsequent panels. **b**, 18-helix block with alternate scaffold path connectivity: A single “six-helix-per-x-raster” group is used for helices 1–6. The remaining helices are connected to the core group as individual “4-helix-per-y-raster” domains. **c**, 18-helix block with second alternate scaffold path connectivity. A single “six-helix-per-x-raster” group is used for helices 6–11. The remaining helices are connected to the core group as individual 2-helix branches.

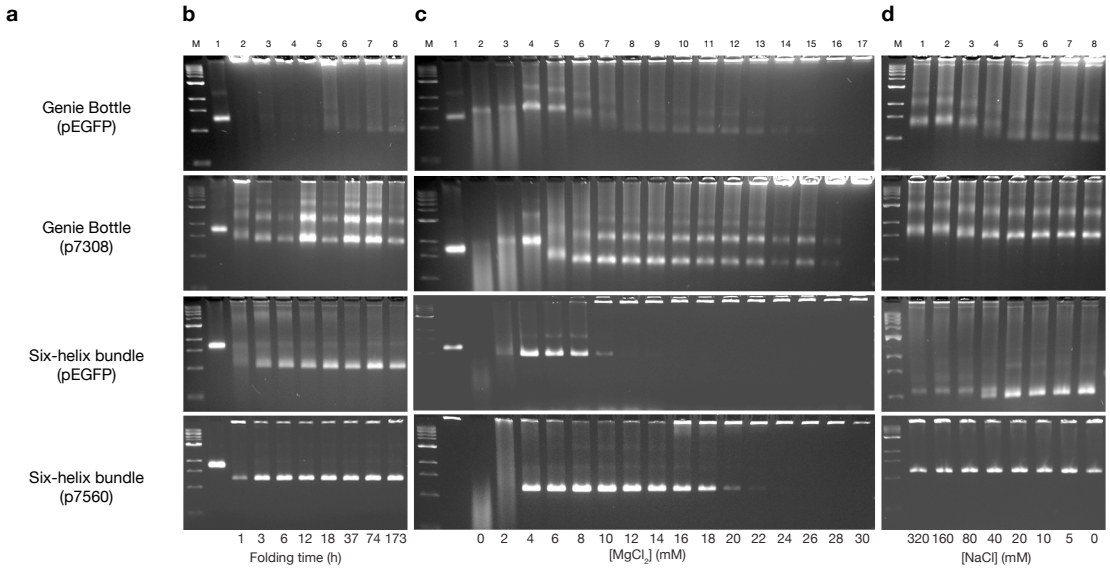


Figure S2 | Gel analysis of genie bottle and six-helix bundle folded with different scaffolds. Samples were electrophoresed in a 2% agarose gel containing 11 mM $MgCl_2$, 0.5 μg·ml^{-1} ethidium bromide, 45 mM Tris base, 45 mM boric acid, and 1 mM EDTA (pH 8.0). **a**, Design names, with scaffold name in parentheses. **b**, Objects were folded for different times:

```
 1.2h: 95°C to 20°C at 1.6 min/°C
   3h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at   5 min/°C
   6h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at  10 min/°C
  12h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at  20 min/°C
  18h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at  30 min/°C
  37h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at  60 min/°C
  74h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at 120 min/°C
 173h: 80°C to 61°C at 4 min/°C, 60°C to 24°C at 280 min/°C
```

in 5 mM Tris, 1 mM EDTA, and 16 mM $MgCl_2$. **c**, Objects were folded using a 173h ramp in 5 mM Tris, 1 mM EDTA, and varying $MgCl_2$ concentrations (indicated at bottom). Insufficient $MgCl_2$ concentration inhibits completion of proper folding (cf. panel **d**). Excess $MgCl_2$ concentration induces aggregation of the objects. **d**, Influence of NaCl concentration on folding. Here, objects were folded with a 173h ramp in 5 mM Tris, 1 mM EDTA, 16 mM $MgCl_2$). Excess NaCl concentrations inhibit completion of proper folding of the objects, as evidenced by the retarded migration speeds of bands (lanes 1–4). At lower NaCl concentrations, the migration speed recovers to values of well folded objects (lanes 5–8).

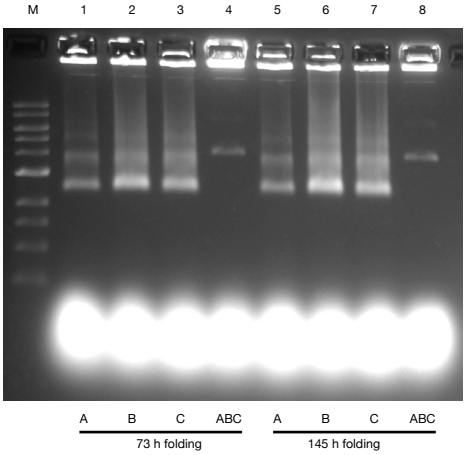


Figure S3 | Gel analysis of icosahedron. Samples were electrophoresed in a 1% agarose gel containing 11 mM $MgCl_2$, 0.5 μg·ml^{-1} ethidium bromide, 45 mM Tris base, 45 mM boric acid, and 1 mM EDTA (pH 8.0). Marker: 1 kb ladder; Lane 1: icosahedron double-triangle monomer A, 73-hour folding; Lane 2: monomer B, 73-hour folding; Lane 3: monomer C, 73-hour folding; Lane 4: result of heterotrimerization of 73-hour-folded monomers A, B, C; Lane 5: monomer A, 145-hour folding; Lane 6: monomer B, 145-hour folding; Lane 7: monomer C, 145-hour folding; Lane 8: result of heterotrimerization of of 145-hour-folded monomers A, B, C. Folding protocols were as follows:

```
 73h: 80°C to 66°C at 5 min/°C, 65°C to 30°C at 120 min/°C
145h: 80°C to 66°C at 5 min/°C, 65°C to 30°C at 240 min/°C
```

Chemicals and Supplies. Sigma: EDTA, 2x YT Microbial Medium. Fisher Scientific: magnesium chloride, polyethylene glycol 8000 (PEG8000), sodium chloride (NaCl), Tris base, sodium hydroxide, potassium acetate, lauryl sulfate, glacial acetic acid. BD: LB broth, Bacto agar. New England Biolabs: Nb.BsrDI, T7 exonuclease, lambda exonuclease; Stratagene: XL-10 Gold competent cells. Molecular BioProducts: 8-well PCR strip tubes. Invitrogen: agarose. Bio-Rad: Freeze 'N Squeeze DNA gel extraction spin columns. Kimble-Chase: pellet pestles. SPI: carbon/formvar copper grids, uranyl formate.

Gel purification of folded samples. Leading monomer bands were visualized with ultraviolet light and physically extracted from 2% agarose gels (11 mM $MgCl_2$). Excised bands were crushed with 5-10 strokes using a 1.5-ml pestle, centrifuged in a 1.5 mL tube at for 3 minutes at 15000×*g*, 4°C. The samples were frozen after this step, but freezing is optional. The bottom 5–10 mm of the 1.5 tubes were removed using a microcentrifuge tube cutter and then inverted and placed in a DNA gel extraction spin column, and spun for 3 minutes at 15000×*g*, 4°C. Recovered material was then prepared for imaging (described in Figure 2) or polymerization.

Recombinant M13 filamentous bacteriophage construction. Recombinant phages were prepared by replacement of the BamHI-XbaI segment of M13mp18 by a PCR-amplified fragments of bacteriophage λ DNA), flanked by positions -25 to +25 of the middle of the XbaI cut site (T^CTAGA, or base 6258), except for the p8634 scaffold insert, which replaced the BamHI-HindIII segment. The inserts were verified by a double-restriction digest of double-stranded bacteriophage M13 DNA with BamHI and XbaI, followed by sequencing. Double-stranded (for retriction digest and sequencing) and single-stranded (for use as DNA origami scaffolds) bacteriophage M13 DNA bearing inserts were prepared as described [Sambrook J, Russell D (2001) Molecular Cloning: A Laboratory Manual (Cold Spring Harbor Lab Press, Cold Spring Harbor, NY)]. The scaffold:design pairings are as follows: monolith:p7560; square nut:p7560; railed bridge:p7704; slotted cross:p8634; stacked cross:p8064; genie bottle A:pEGFP; genie bottle B:p7308; six-helix bundle A:p7560; six-helix bundle B:pEGFP; icosahedron monomers:p8100.

Generation of double-stranded pEGFP-N1 plasmid. The pEGFP-N1 plasmid was transformed into XL-10 Gold cells and grown overnight at 37°C on an LB-agar plate. A single, well-isolated colony was used to inoculate 2 ml of 2xYT medium in a 14-ml sterile culture tube and agitated for 9 hours at 37°C. 400 µL of this culture was used to inoculate 250 mL of 2xYT medium, which was grown for an additional 15 hours at 37°C. Cells were pelleted at 7000×*g* for 15 minutes at 4°C. Pellet was resuspended in 20 mL resuspension buffer (25 mM Tris pH 8.0, 10 mM EDTA, 50 mM D-glucose, 100 ug/mL RNAseA). One volume of lysis buffer (0.2 M NaOH/1% SDS) was added, gently mixed by inversions, followed by addition of one volume of neutralization buffer (3 M KOAc pH 5.5), and strained through a kimwipe. Mixture was split into 20 mL aliquots; 14 mL isopropanol was added to each, incubated at 25°C for 30 minutes, and centrifuged at 15000×*g* for 30 minutes at 4°C. Pellets were each rinsed with 75% ethanol, spun 15000×*g* for 3 minutes at 4°C, air dried for 10 minutes, and resuspended in 500 µL 10 mM Tris·Cl 1 mM EDTA.

Generation of single-stranded pEGFP-N1 scaffold. To nick the pEGFP-N1 plasmid, the following were combined in a 15 mL conical tube: 2.4 mL pEGFP-N1 dsDNA sample (see above), 90 µL Nb.BsrDI, 300 µL 10x NEBuffer 2, 210 µL distilled water. Mixture was incubated for 60 minutes at 65°C. The nicked non-scaffold strand was digested by adding 90 µL T7 exonuclease, 180 µL lambda exonuclease, 30 µL BSA (10 mg/mL), and 30 µL 1 M DTT while incubating for 20 hours at 37°C. The material was split into 500 µL aliquots, and to each was added 420 µL 20% PEG8000, 50 µL 5 M NaCl, 20 µL 0.5 M EDTA, and 10 µL distilled water. After 1 hour incubation at 25°C, samples were centrifuged at 15000×*g* for 10 minutes at 4°C. Supernatants were recovered, combined with 50 µL 5 M NaCl, incubated at 25°C for 15 minutes, centrifuged at 15000×*g* for 10 minutes at 4°C, and decanted. Pellets were washed 2x as follows: 300 µL 75% ethanol was added, samples were centrifuged at 15000×*g* for 1 minute at 4°C, and decanted. Finally, pellets were air dried for 15 minutes and resuspended in 50 µL TE 10 mM Tris·Cl 1 mM EDTA.

Author contributions. Each author performed initial gel and TEM analysis of his or her designed object to verify conditions for successful folding. The publication-quality data displayed in the figures was generated by the author listed first as in below, except as noted.; S.M.D. prepared Figure 1, and prepared the Supplementary Materials (including porting designs for all objects into caDNAno) with assistance on gels from T.L, B.H., F.G., W.M.S.; H.D. prepared Figure 2, including all data analysis.; T.L. prepared Figure 3, with assistance on gels from B.H. and F.G.; H.D. rendered the models; H.D. and S.M.D. acquired the TEM images. H.D. discovered length of thermal-annealing ramp as the most critical determinant of folding success.; B.H. and S.M.D. prepared Figure 4.; B.H. cloned the p8634 scaffold.; W.M.S. cloned the p7704 scaffold.; Xingping Su cloned p7560, p8064, p8100 scaffolds.

Figure S4 | monolith design schematic

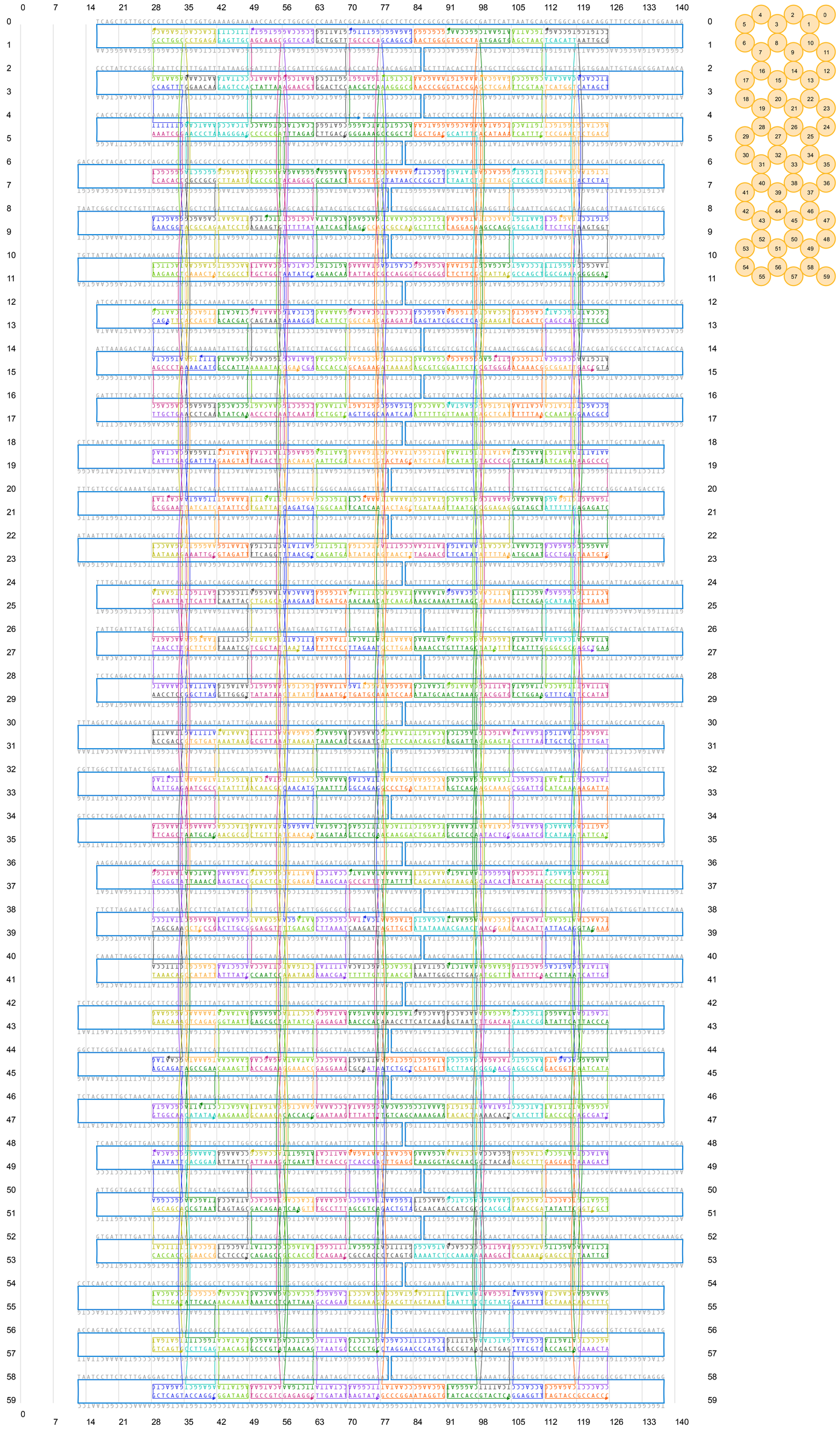


Figure S5 | square nut design schematic

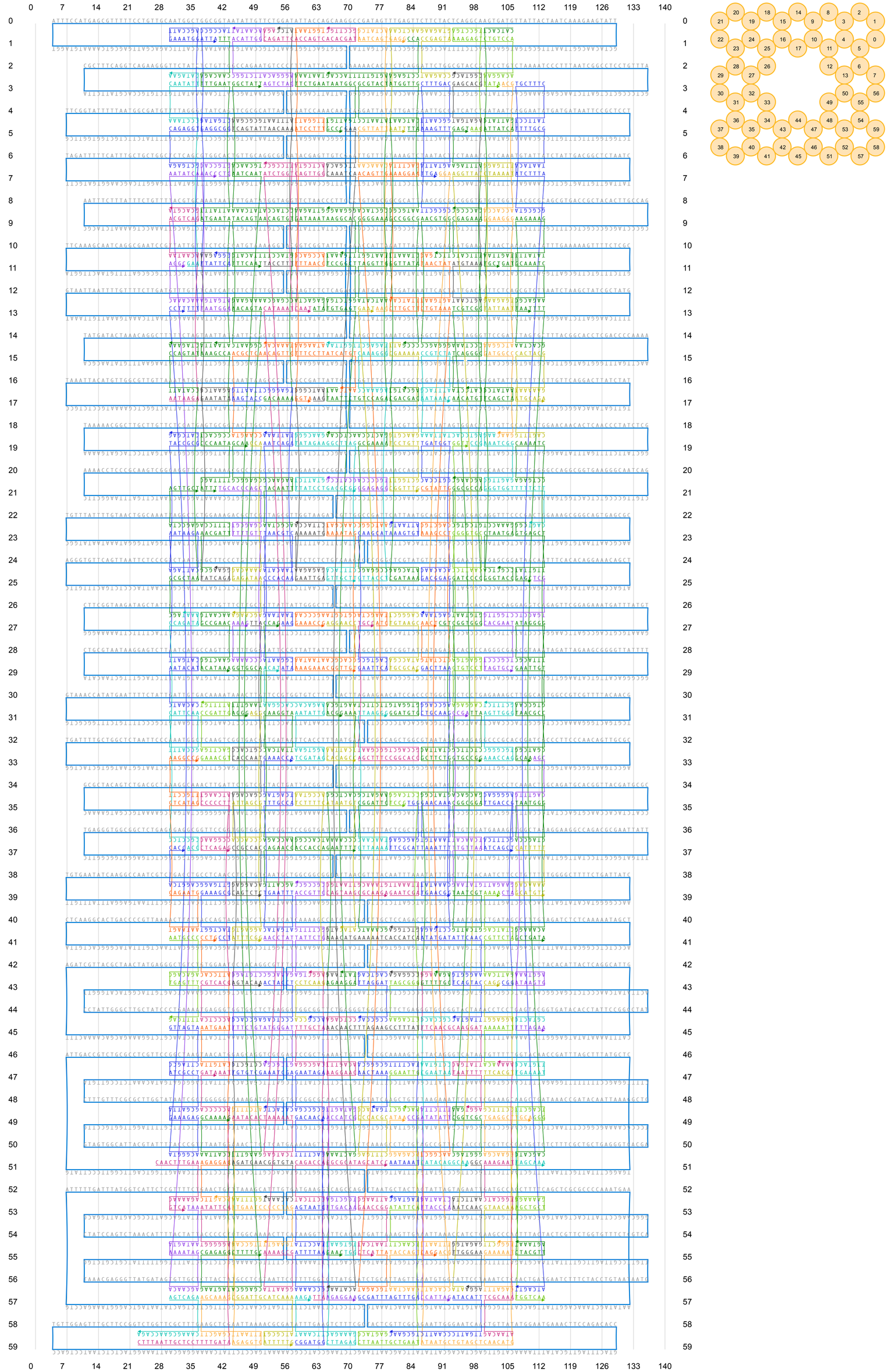


Figure S6 | railed bridge design schematic

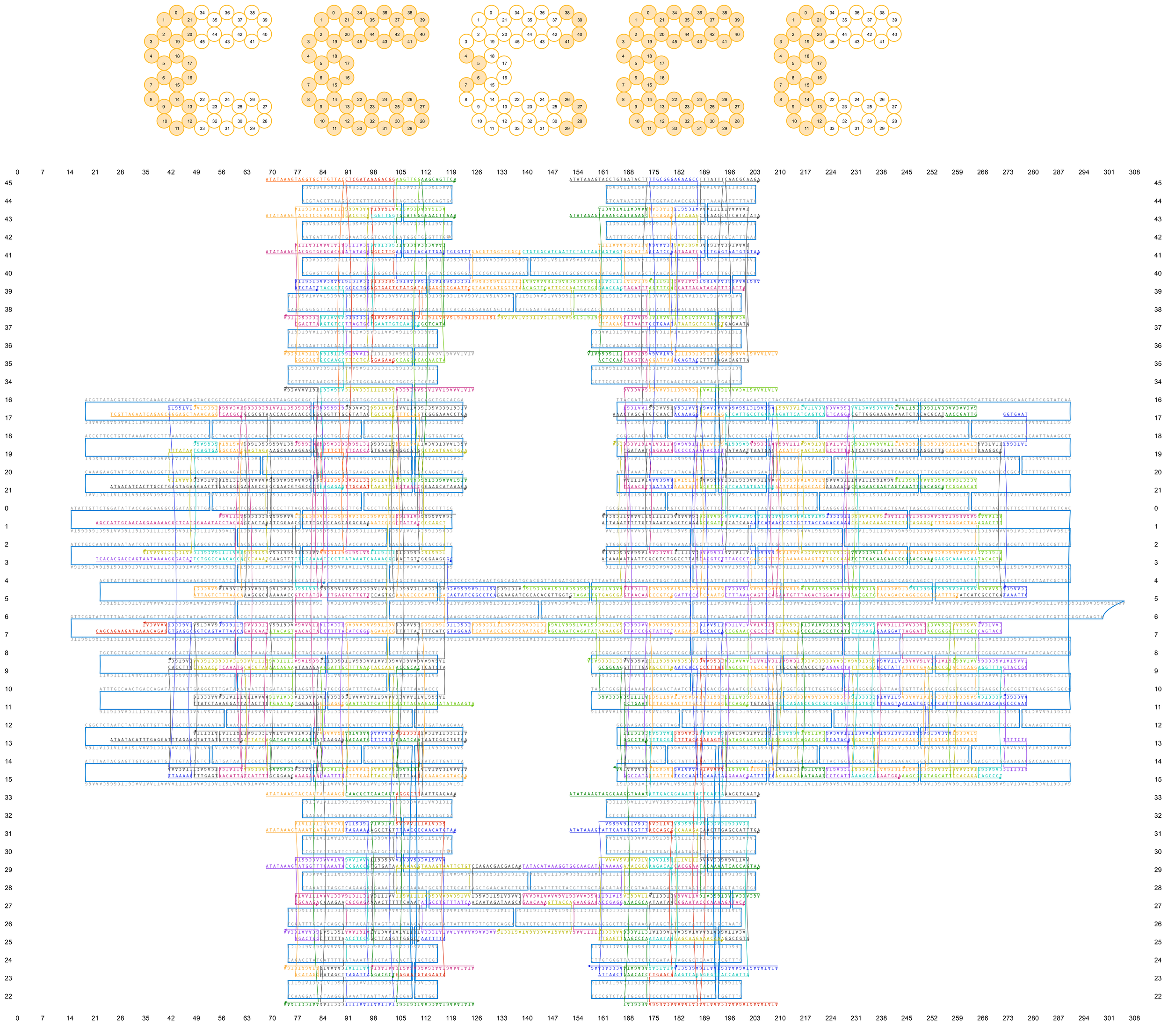


Figure S7 | slotted cross design schematic

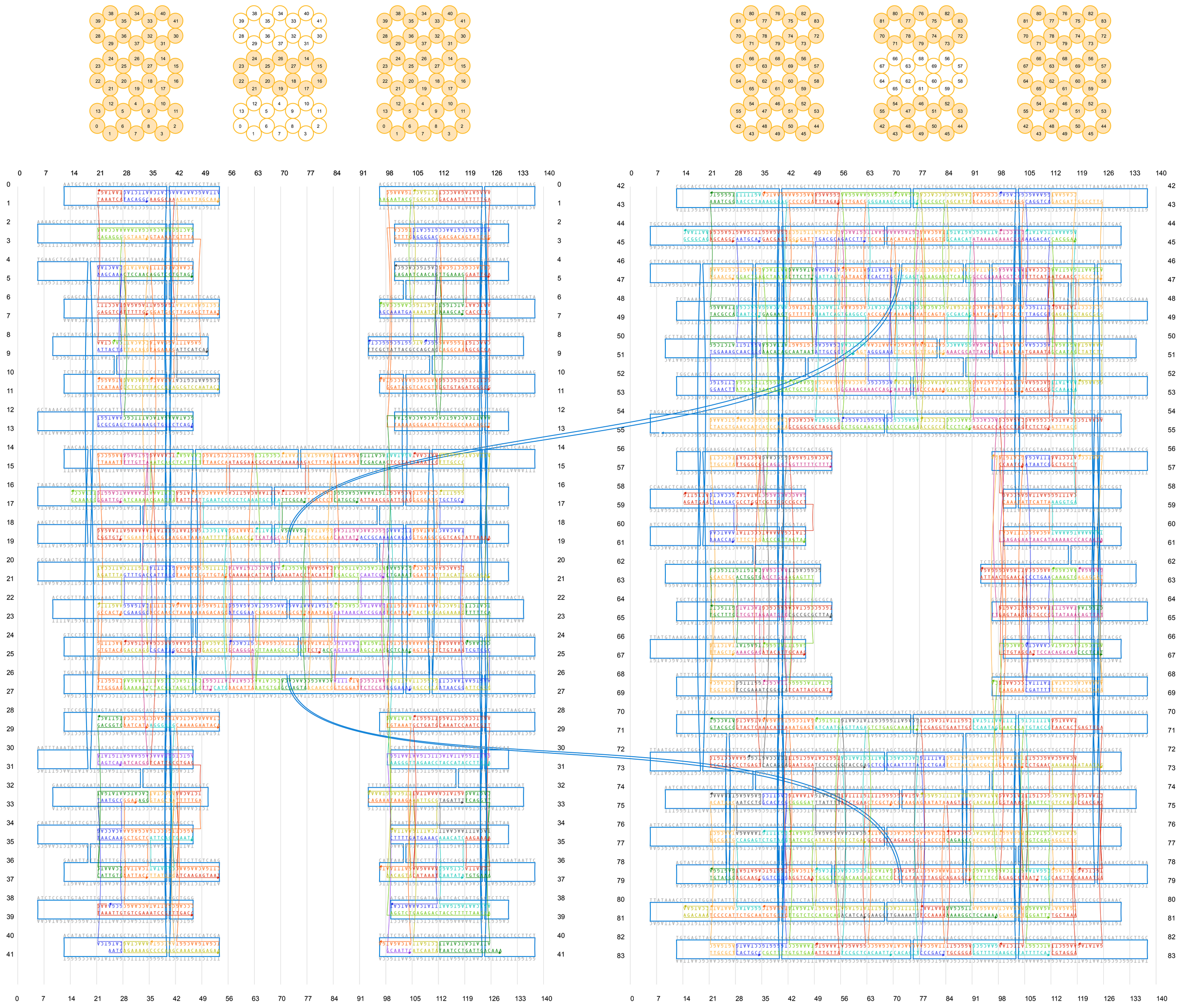


Figure S8 | stacked cross design schematic

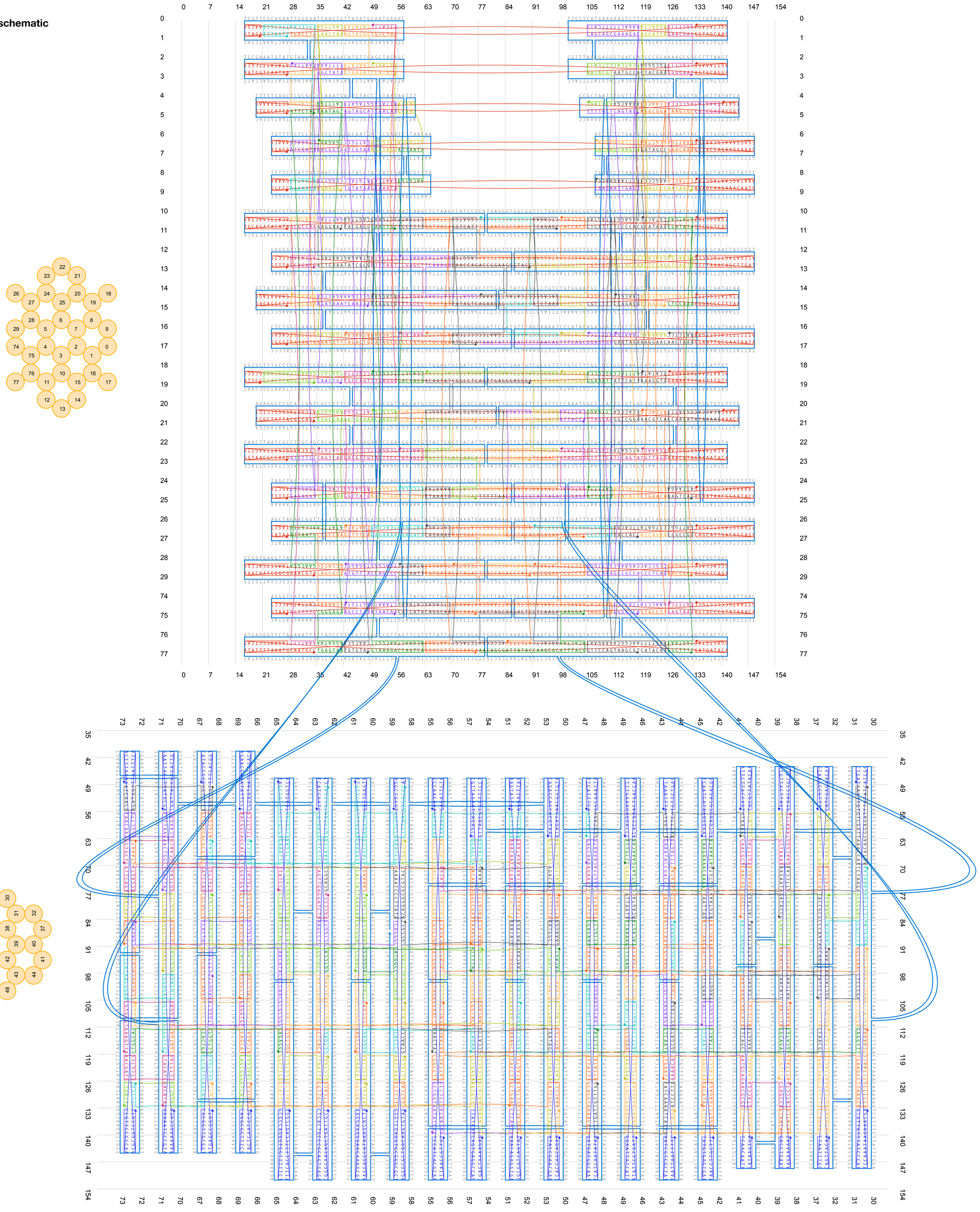
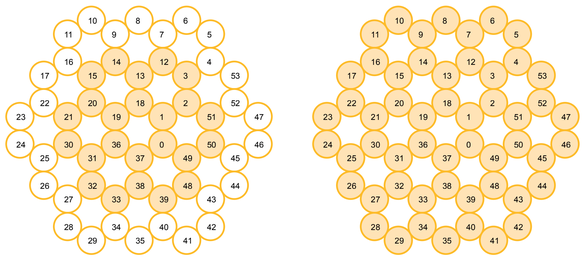


Figure S9 | genie bottle design schematic



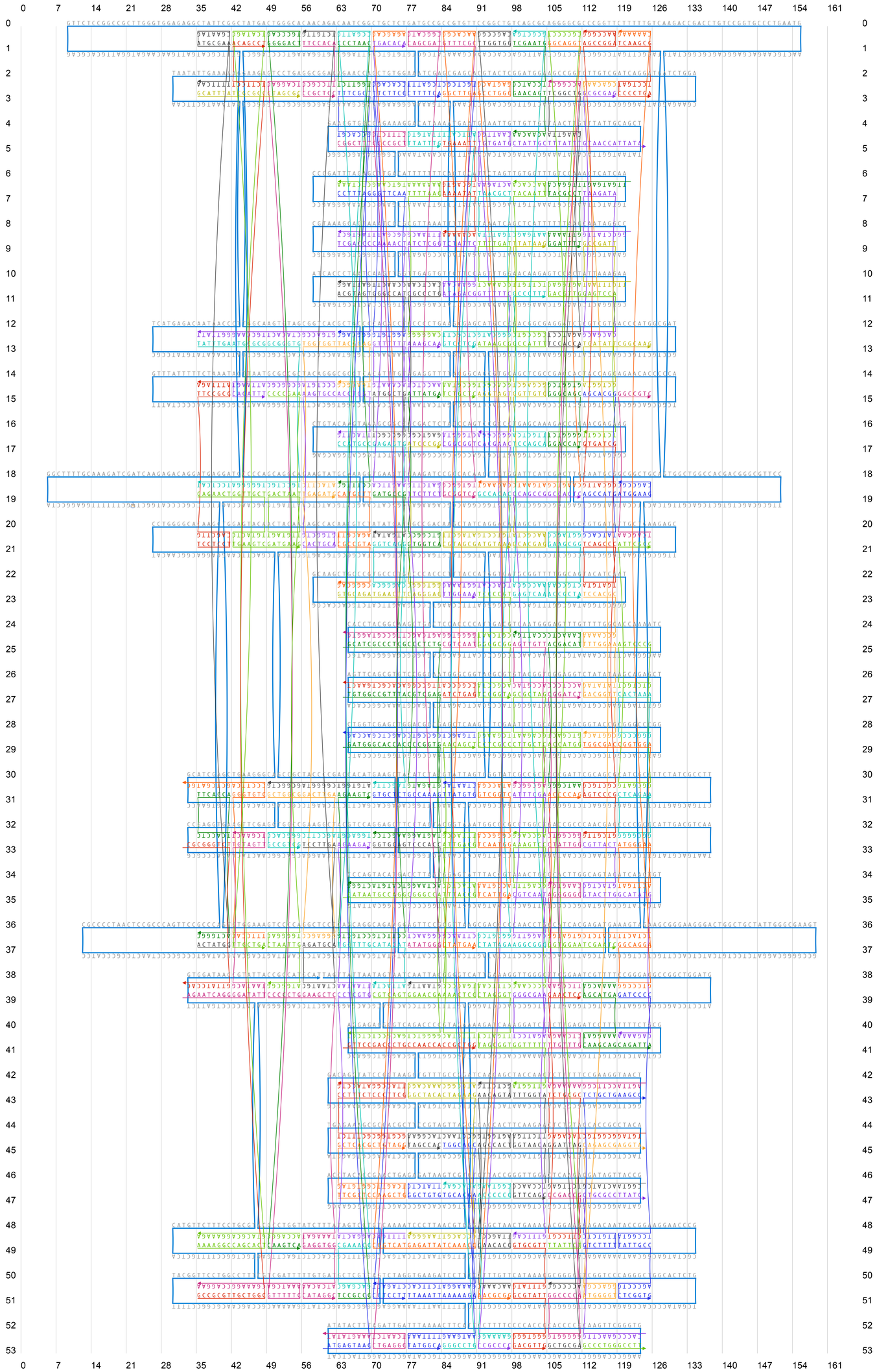


Figure S10 | six-helix bundle design schematic

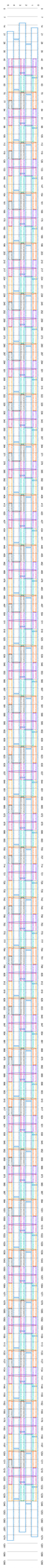


Figure S11 | icosahedron monomer design schematics

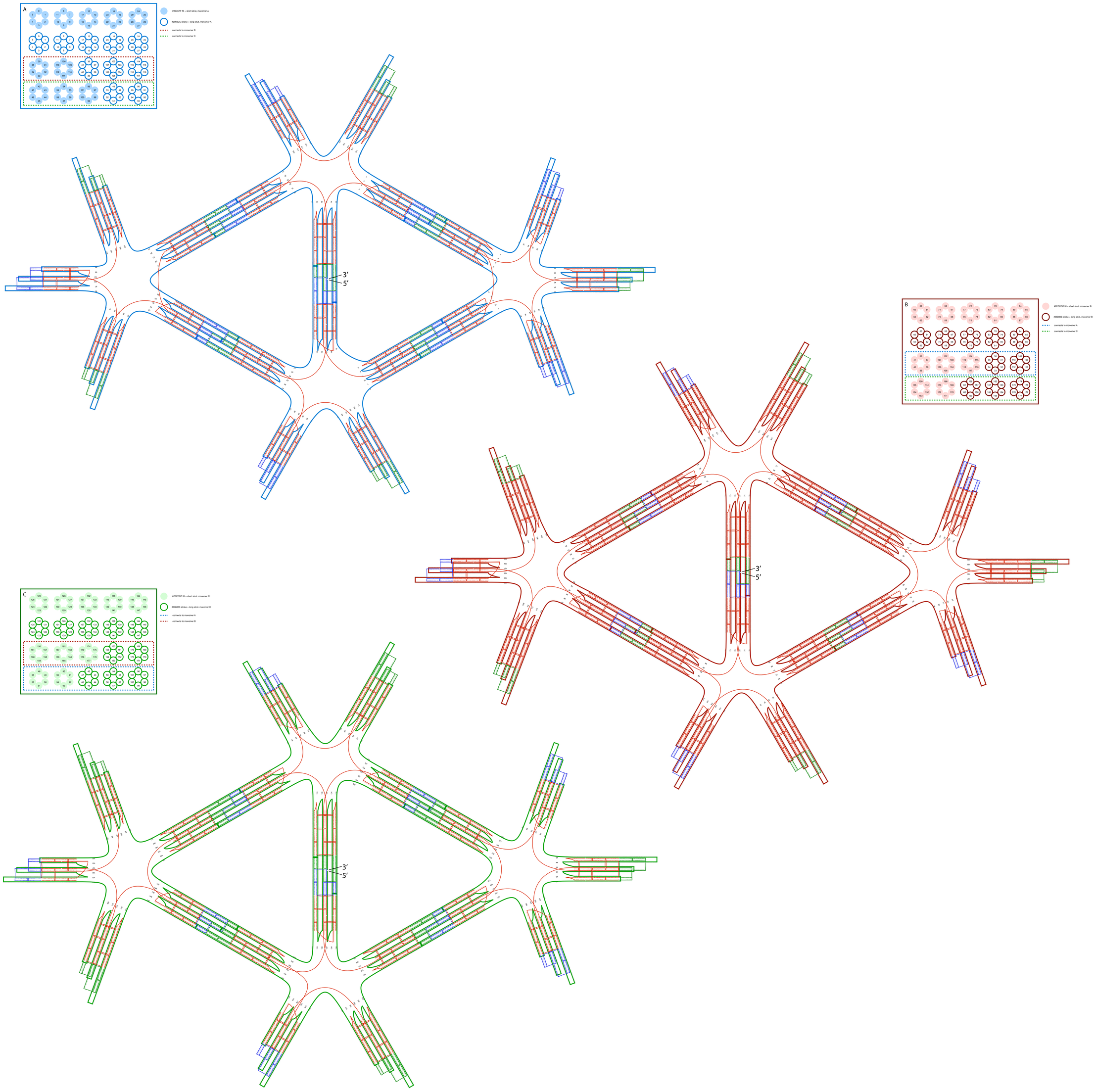
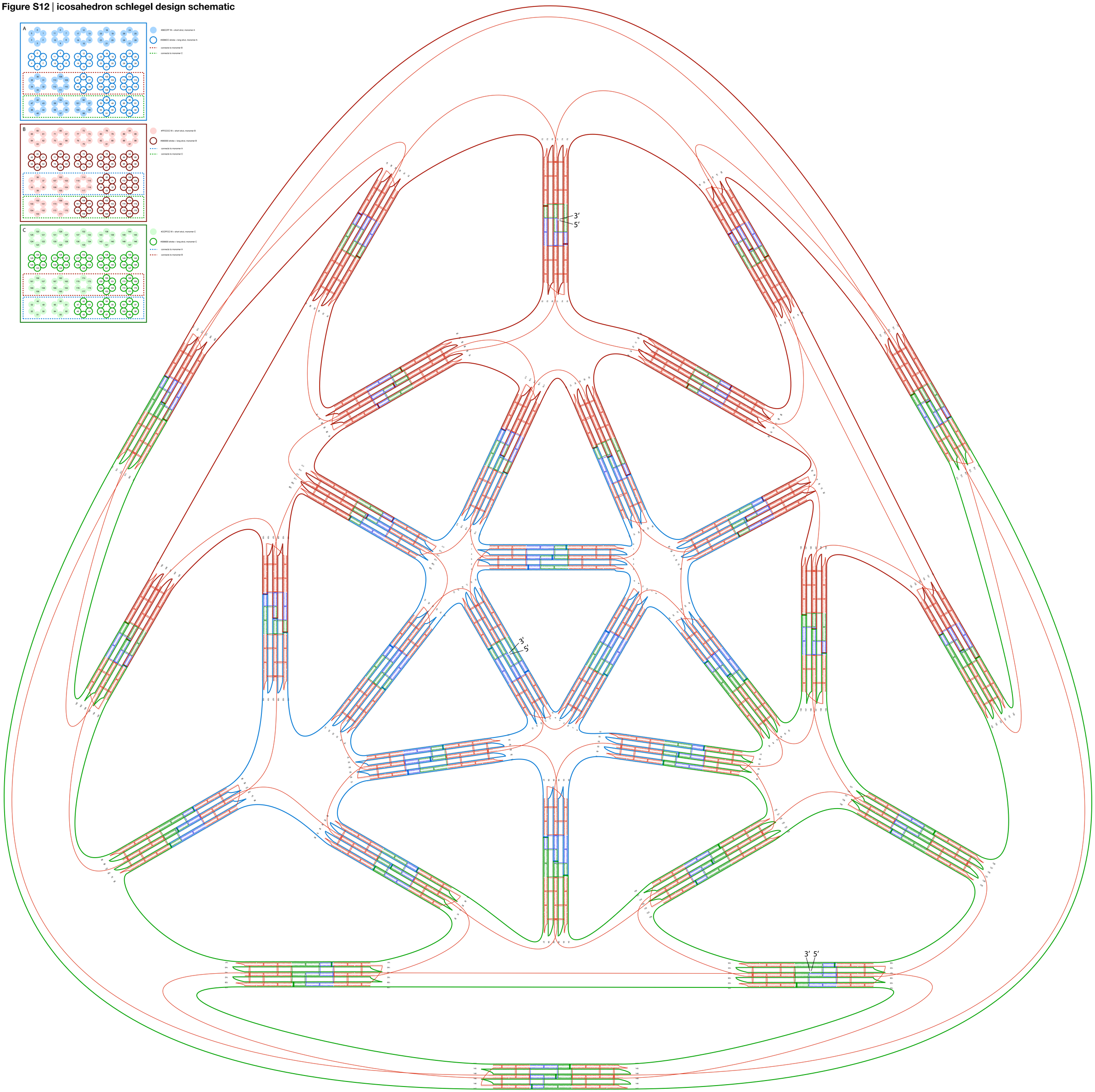


Figure S12 | icosahedron schlegel design schematic



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42[62]	27[59]	GCCTTTAAAATAAGCCTGAATATAAGAACTGTTTATAAT	39	
42[83]	57[76]	TAGTCAAAAATGAAAACCCACTCGGCATAGCGTCAGTCTCTGCCCCTGC	49	
42[104]	27[101]	GACGAGAATGGTTTGGAAGAAGAGAGTATCAAAGCTATA	39	
42[125]	27[122]	TCAGTGATCATTGTATTATACTTTTGATTATCGCGAGCT	39	
44[30]	59[41]	TAGAGCAGATGGCCGGAAAATATTGAGACTCGCTCAGTACCAGGC	45	
44[51]	59[62]	CAAACCAGAATAGCACCATTAAAGACATGAATGCCGTCGAGAGGG	45	#b8056c
44[114]	59[125]	ATGGACGGTCTCACCCTGAGGACTCAGAGCCTAGTACCGCCACCC	45	
45[74]	59[76]	ATATAGAGCCTCACCGATTCGGAAAAGTATA	31	
45[84]	33[83]	CCATGTTATAGGCTGGCTGGAAGTTGCTGTAGGAAGCCCTGA	42	
45[102]	35[104]	ACGTGATAAACAACACTAGGGGGTATACTGC	31	
46[37]	35[41]	TTATTAAACCCAATCAAAATGCAG	24	
47[42]	42[42]	AAGAAACAAGACTCCAAAGTTGAAACAAGGTAATTAATAACA	42	
47[63]	42[63]	GAATAAGCCCAAAAGAGGAAATAAGCCCGAGAGATAATAGCA	42	#b8056c
47[77]	36[70]	TGTCAGCAAAAGAAGAAATCCGCGACAATTATTTTTAAAAAATAATATC	49	
47[105]	42[105]	CATCTTTCATCGCCAGGCGCAAACGGTGGAACCGGTTGCCCT	42	
48[48]	53[48]	CCAAAGAATTATTCATTACCACAGTAGCTAGCGTTCCTCCCT	42	
48[69]	53[69]	AATTCATATCACCGAGCAAAATGCCTTTTTTCGGTTCAGAAC	42	#b8056c
48[90]	59[104]	ACGAAAGCAAGGGTAGCAACGCAGGGATTATCACCGTACTCA	42	
48[111]	53[111]	CTACGAAAGGCTTTCAGCAGCTAACCGAATACCGACCAAAAG	42	
50[90]	57[97]	GAACGTTGCAACAACCATCGCAGTTTTGACCGTAA	35	
51[60]	35[62]	GTTTCACCAGGGAAACCGAACTGGTCGAGAAAATTTACTCAACAA	45	
51[123]	35[125]	GCTGGGATCGAATCATAACGGAGATTACCAGTTGCAAATATTCAT	45	
52[90]	55[97]	ATGACGCAAAATCTCCAAAAAAATAATTGAATTTT	35	
53[28]	55[34]	CACCACCCCAGCATCCTTGAT	21	
53[49]	51[59]	CAGAGCCGAACCACAAATCCTCATTAAACGTTCCATCAA	39	
53[70]	42[84]	CGCCACCCTCAGTGGTTTTCAAAACCTTCATCAAGGAACGAG	42	
53[112]	51[122]	GAGCCTTACAACTAGCTAAACAACTTTCAGCCCTCGGTC	39	
54[41]	39[38]	GCCGCCGGGAACCGTGCCATCGTCAGAGTGAAATACCTC	39	
54[62]	38[59]	GCCACCAGCCACCCCATAGCCAATATCAAATAATATTGAAGCAATA	46	
54[83]	54[84]	GTAGCCACCACCCTTGGAAAGCGACGTTAGTAAATTTTTCAC	42	
54[104]	39[101]	TGCGAATAAAGGCTTAGTTGCTTGACAATACAGACAACG	39	#b8056c
54[125]	39[122]	GAAAGGATAATTGTTCTTAAATTACCCAAAAGAGGGTAG	39	
55[35]	46[38]	ATTCACATGGCTTTCCGTAATTTAGCAAAGCCGAACTTA	39	
55[98]	45[101]	CTGTATGGATCTAACCACGCAGAAAGACCGGA	32	
57[35]	47[41]	CCTTGAGAGAGGCTGACGGAACAAAAGGCATATAA	35	
57[56]	47[62]	TAAACAGTTCTGAAGTGAATTATGGTTTCACCACG	35	
57[77]	45[83]	CTAGGAACCCATGTTCGTCTTTCCAGCAGACTGTATGGGAATATCTGCT	49	
57[98]	47[104]	CACTGAGTCATTTTGCTACAGGGCACCAAAACACT	35	
57[119]	47[125]	CAAACTACCACCCTAAAGACTAATACGTAGCGATT	35	
59[42]	54[42]	GGATAAGAGTATTATAACAGTTCATACAAACAAATCACCAGA	42	
59[63]	54[63]	TTGATATCCTATTATTAATGCAATTTACGCCAGAACAGAGCC	42	
59[77]	48[70]	GCCCGGAATAGGTGAGCAAGCCCAATATCTTGAGCAGCAATCAATAGAA	49	
59[105]	54[105]	GGAGGTTACCACCCTTTCGTCGCGTAACGGATTTTAAGGAAT	42	

Start	End	square nut staple sequences	Length	Color
0[48]	10[45]	TACCGCCGAGGCGGCTGATAGTTATTCAGGGA	32	
0[58]	0[70]	AGACAGATTCACCAGTCACACGATGCCTTGC	31	#b8056c
0[69]	17[66]	TGGTAATATCCTTTTTGGATTTTTAACCACCGACCGGTA	39	
0[111]	11[108]	CATCACTATTATCAGATTATCTGCT	25	
1[46]	14[45]	TTTCAACAGATTTGAATATTATTTATGAATAATAA	35	
1[88]	14[87]	CCACCTGAGAATGGTTGAATGCGCGCCGGCGCCCG	35	
2[69]	5[73]	TAATAAATTCTGAATAATGGCTGATTGTGCCC	32	
2[97]	5[87]	CCAGAATCCGAGTAGTAGAAGAACTCAAAATT	32	
3[56]	0[49]	AGTCTACAGGGACATTCTGGCACATTGGACAATAT	35	
3[109]	18[108]	ACGACCACCAGGAAGGGATCGGAAGATGGCCGAAC	35	
5[74]	56[70]	GAATTCGACACAAATCAACATAAC	24	
5[88]	16[87]	TTACATCAATGGTTATACTAAATTCGACGACAGCA	35	
5[102]	3[108]	AACTGCCTGAAAAGAGTCTGTCCAACAGGAATATA	35	
6[55]	49[48]	TGCAACAAATCAATCGAGGCATAGTAAGCGAGAGGCCATTAAGCAAAAG	49	
7[46]	11[38]	CTCGTGCCACTAATGGAATGATGAAACAAACAGGC	35	
7[95]	49[87]	GGACCACATTCAACTAATACCAGTACAGAGGATAA	35	
8[69]	10[73]	GTTAGAAGATAAATAAGGCACTTGA	25	
8[97]	7[94]	CGCGCTTCTTTGACGGCAATTAAAGTTTAGTATTATTGA	39	
8[118]	56[112]	GCGCGTATGCTTTCTATTCCTTTTTGCGTAATACAATCTTTAATCAGTT	49	
10[44]	24[45]	GAAGAATATAAGAATCGTATCAGAGGAA	28	
10[72]	55[73]	AATTCCGGCTGGTCTGATGTGAGTGACTAAAGAAC	35	
10[93]	55[94]	GACTAACTATAGTGAATCTGTAAAAACGGCTCAGG	35	
11[39]	2[35]	GAACCCTAAACAATATTGATAGAA	24	
11[56]	0[59]	TACCTTTATTTAATGCGCGAATCAGTATTAACAAAATCC	39	
11[109]	24[108]	GATTAGTTAATCAGCTAAATATCCGGGTACCCCGC	35	
12[83]	2[70]	AATCATATAGGTTGATAATCCGCGTACTAGTGTTTTTACCAG	42	
12[104]	2[98]	AGTCAATATGTAAAAGATGATGAGCACGCGGTACG	35	
13[39]	1[45]	TTTGCTGAGACAGAGGTAGCCATTGAAATGGATTA	35	
13[67]	55[55]	ATAGAGACTACCGAGCAAAAGAAGAACAGTAGAAGTTTCTTTTGC	45	
13[81]	1[87]	AACCAAACAACGTTATTACTATCGAATCAGTGAGG	35	
13[116]	54[112]	TTTCAGCATCCTACGTTAGTAAAT	24	
14[44]	21[45]	TTAAAAGCCACCGCACTCCCAATATTTTAGCATTT	35	
14[55]	3[55]	CGGAATCTACAGTAACAGTGTCCTACCATATCAAAGGCTATT	42	
14[69]	16[73]	ATAAGAATTTCCTTATCATGTAATC	25	
14[86]	21[90]	ATTCGAAAAAGAACGTGTCCTGTTGCTGGTTCGGTTTG	38	
14[118]	13[115]	GCACTAAAAGAAAGTATATTTGCAAATCAAGACGCTAAT	39	
16[72]	8[70]	AATTAATTCTGTCCAGATAATGGTGGGGAAACGCTACAGGGAAGG	45	
16[86]	18[70]	TGTCGATAAAATACGAGCCGGAGCGCGAAAAGACTCCAACTCCAA	45	
16[100]	10[94]	CTATCAGGGCCCCTAAAGGGAGCCAACGTGGTTCT	35	
17[35]	8[35]	AATAAGAACAATAAACGTCAGGCACGTA	28	#b8056c
17[56]	11[55]	GACAAAAGTACCTTTTACATCTTTCAAT	28	
17[67]	22[63]	AAGAATCGGCGAATTGAGAGAGAAAAAAATGCTTACCA	38	
17[98]	8[98]	AACATGTTTTCATCCGAGAAACACCCGC	28	
18[55]	14[56]	CCAAGTAACGCTCAACAGTTCTAAACAC	28	
18[69]	25[76]	GAACGGGTATAGAAGGCTTAGCTTTACAGTTGCTT	35	
18[107]	22[115]	AAGAAATCGGGAGTTGCGGGTGGTTTTTCTTCAGT	35	
18[118]	17[118]	CAGTTTGCACTACGGAAAAATATGCAGA	28	
19[53]	26[49]	GCAAAAACAGGAGATAAAGCAAGA	24	
19[102]	17[97]	CCGAGTCCACTATTAAACCGTCTAATTTACGAATAAAC	38	
20[69]	21[76]	GTATTCTTTATCCTGACGCGG	21	
20[97]	26[91]	GGTCCACTGATGGTACACAACGACGGAGGAGTAAA	35	
20[118]	25[115]	CCTGAGACAAAATCTTGTTATGAGC	25	
21[46]	27[52]	TGCACCCAGCCGAGCGTTTTTGTTCCCAAAAAAAG	35	
21[77]	20[70]	GGAGAGGTGCCCCAGCATCCG	21	
21[91]	27[94]	CGTATTGCAGCTGCAAAGCCTCTCTATGAACT	32	
22[62]	19[52]	ACGCTAATACAATTAAGAACGCGAGGCGGCAA	32	
22[83]	29[76]	AATCGGCCAACGATAAAATAGGCACGCAATAATAAAAAGAAACGGTTGT	49	
22[114]	33[115]	CGGGTGAGCTTTTACGCATAGGGGCGATCGGGCAA	35	
24[44]	21[41]	GCGAACGATTCTTTCCAGAGCCTAAGTTGCT	31	
24[107]	20[98]	TCACTAATGAGAAACCTGTCGTGCGGCGCCAAGCAAGC	38	
25[77]	14[70]	GTTACCTAGAAACCCAAAGGGTAGAGCTTGGTTAA	35	
25[116]	29[111]	TCGTGACCTCCTGGTTGCACGAATTCGCCCTTAGTGCT	38	
26[37]	14[35]	AGCGCGCTAACCATATTCCAGTATCTAGAAA	31	
26[48]	29[48]	AACAATGGCCGAACGAACTGGACATAAA	28	
26[90]	29[90]	CAGGGCTTGTAAGCATACCGATGCGCAC	28	
27[53]	43[55]	TTACGTCACCCACCAATCGACAGAAGTACAA	31	
27[70]	33[76]	AGGAACCTCATTAACACAGCC	21	
27[81]	27[69]	ATCTAAGCTACGTGGTAAGCCCAAGAAACCG	31	
27[95]	42[94]	CGTCTATTACGCTTCTGGTATCGGGTTTTGCAGAA	35	
29[49]	31[52]	GGTGGCATAAGTTTAGGG	18	
29[60]	18[56]	ATACGGAATATAACGTCTAACATAAATCAGATATTAAA	38	
29[77]	22[84]	GAATTCACAGTGCGCAAGCATAAAGTGTATTAATG	35	
29[91]	40[94]	GACTTAAAGCCAGGCTGCAAGTAAATGTGAACAAACCTG	39	
29[112]	41[118]	GAATTGTGTGCCAATAACGCCGTAGCCATAATGGGACAAAGGGCTGATA	49	
30[41]	18[35]	CACAATCAATACATCATGATTAATAAGACATTAGATACCGCGCATCGAG	49	
30[104]	19[101]	CAGGAGAGTGTCCTGGAGTGAGGGGTGCCAATTCCGGTT	39	
31[53]	41[55]	AGGGCCACCAATTAGCGAGGAGTGATTTCGG	31	
31[74]	37[76]	AAACCCAAAATCACCGGACCACCAGAATTTT	31	
31[84]	31[73]	GGATGTGGTGGATGTTCTTCTAAGTGCAACGG	32	
31[102]	16[101]	TTACTCTTCGCGGTGGGGTGTAATGATCCCCCATC	35	
33[42]	30[42]	GAAACGTGACTTGACCGATTGATTTTGT	28	
33[63]	29[59]	TCGATAGAGGTGAAAATATTGAAGACACCACGGAAACAT	39	
33[77]	27[80]	AGCTTTCCGGCACCGCCAGCTGGCGAATTGCC	32	#b8056c
33[105]	30[105]	AAACCAGTGCGGGCAGTTGGGGCTTTCT	28	
33[116]	45[118]	AGCCAGTTTGATAAGTGAGGTAAATTTAGAA	31	
35[88]	39[97]	TGGGAGCGAGTTCGCATTAAATTTCAAATATTGAACGG	38	
37[39]	26[38]	ACCCGCCTCCCATTCAAGCCATTTGCAGATAAAAT	35	
37[49]	39[55]	CCGCCACACAGGAGCAGTCTC	21	
37[77]	31[83]	GTTAAAATAACAACTTAAGGG	21	
37[112]	39[118]	CATTTTTAAAACAGGCATGTC	21	
38[62]	27[59]	AGCATTGCAGAACCAACCAGAGAAGGTATTATCACCCAG	39	
39[35]	33[41]	CAGAATGAATAAGTGTCATAGTTGCCTTAAGGCCG	35	
39[56]	33[62]	TGAATTTATGATACTTTGCCATCAGTAGGAAACCA	35	
39[84]	39[83]	GAATCGATTAAATTGTAAACGTTAATGCCAGTAAGCGCAAGA	42	#b8056c
39[98]	33[104]	TAATCGTGTCATTGCGGCGGAGACGACAGTGCCGG	35	
39[109]	31[101]	CTAGAAGATTGTATAAGTTGTTAATCAACATGCGA	35	
40[72]	40[84]	ATGAAACATGAAAAATCACCATCAGTCTGGA	31	
40[83]	42[73]	GCAAATCCGGATTCAAGATCGCACTCGCAGAAGGATATT	39	
40[93]	44[98]	AGAATATGATATTCAACAAGGGTGTCAGTACTTAGTAC	38	
41[35]	44[35]	AATGCCCAGACAGCTGAGTTTTTTTCAG	28	
41[46]	37[38]	CCTTACTGGTGAAAGCGGTTGAGGCAGGTCACACC	35	
41[56]	46[56]	AACCTATGAAACGCCTGTAGCTTTCTGTATGGGATGTCGCGA	42	
42[65]	38[63]	TGATATTCTGGCTTTTGACCGTTCCGCCGCC	31	
42[72]	42[84]	AAGAACAACTTTAGAAGCCTTTATCCGGAGA	31	
42[83]	44[77]	CAGTCAGTTAGGATCCGCCAC	21	
42[93]	48[101]	AGGTTCAACGCAAGGATTTATGACTAATTTTAGGT	35	#b8056c
43[56]	48[56]	ACTACCTCCCTCAGAGCCACCTGTGTCGAAATCGACACACTC	42	
43[109]	37[111]	CGGAGGGGACTTGACCGGCTTTCAATCAGCT	31	
44[65]	40[73]	CCACCTCAAGACCGTAATCTTTTCATAATGTATAC	35	
44[76]	51[83]	CCTCAGAAAGGAACACAGTTTGGCGCATAGCATCC	35	#b8056c
44[97]	51[101]	CGCCACCCGAATAACCTGTAACATACAGGCAA	32	
44[118]	51[118]	CGTACTCTGAAAATTTGTACCTAGCAAA	28	
45[35]	13[38]	GTTAGTACTTAGCCATCGCCTGCGATTAGAAAGAGACGGGTACCTT	46	
46[55]	52[56]	CCTGCTCAGATGAACGGTGTACACAAAT	28	
46[107]	39[108]	ACAAAAAATTGATTCAACGTTCTACTATCAGAAAA	35	
47[46]	37[48]	AATACCCTCACGTCACCATCAAGTCCCCCTTCCGGAACCTCAGAG	45	#b8056c
48[55]	54[56]	ATCTTTGTTGAATCCCCCTAGTGAAGTT	28	
48[79]	13[80]	ACCCCCACGCCTTTGAGGAAT	21	
48[86]	35[87]	GCTGGAATTGCTCAGAATAGCGGGCCTCAGGTCCG	35	
48[100]	5[101]	GAACGGTCGCGGGTAGCTCGTCGCATTTAGAGAGT	35	
49[49]	6[56]	AATACACTAAAAATTCATGAGCATAAATTTCCGCC	35	#b8056c
49[70]	57[76]	ACCATCGGATAGTTTTGACAATGGCTGAAGAGGAA	35	
49[88]	57[97]	CCGATATATTTTTCTTATTACCCACTAATAGCCATTAG	38	
49[116]	57[118]	GGGTCAGCTTAGCTGCTGAAAAGGTGGTCAA	31	
51[32]	53[38]	CAACTTTGAAAGAAAACGTCA	21	#b8056c
51[84]	48[80]	AATAAATTACTTTTGCGGGCAAACTAAATGAT	32	
51[102]	56[101]	GGCAATTCTAAATCAACGAGATGGTTGGGAAAGGA	35	
52[44]	41[45]	TTCAGAGGACCATGTTAAATGAATATTCCACCCTG	35	
52[55]	59[62]	GCTTTAACGGATTGCATCAAAATCGCGTATTTTTG	35	
52[83]	55[80]	ATTAAGCGAACCGGTAATCATCTCA	25	#b8056c
53[39]	7[45]	TAAAATAGTAAAAATAGAGCAACAAATATCAAACC	35	
54[55]	52[45]	TTGCCAGAGAGGTCTTTAATTCGAGCTTAGCAAAGACAG	39	
54[107]	43[108]	CTTGTAACAAGCTTTCGTTCACGTAGGAGGTCAGG	35	
55[56]	13[66]	AAAAGCGGGAATTAATCTGGTCAGTTGGACTCGTACAAT	39	#b8056c
55[74]	57[66]	TGGTGTGAATCTTAGAGGAAAGACTTCAAATAAGA	35	
55[81]	12[84]	TTATGCAGATACAGTTGAAAGGAAGACTTTACTTGCTTTTATCAA	45	
55[95]	54[108]	ACGTTTAATTATAATGCTGTAGCTCAACATGTGGG	35	
56[69]	49[69]	GCCAAAAATTTTAAGACTTTTGACAACA	28	
56[100]	12[105]	ATAAGGTTATCTAAAATTTTGAGGTATTAATTGAGAAG	38	
56[111]	49[115]	GAGATTTGAAAAATGGAACGATGAGGCTTGCA	32	
57[35]	58[28]	AGTCAGACAAAGCGAACCAGA	21	
57[67]	42[66]	TTACCTTCATCAGACCACAGCGGATTTGCTAAGGC	35	#b8056c
57[77]	52[84]	GCGATTTAGTTTGATAGTAGC	21	
57[98]	58[84]	ATACATTTTGATTCCCAATTCTGCGAAC	28	
58[83]	48[87]	GAGTACCCTTAATTGCTGAATTCAACTTATATTCAAACA	39	
58[111]	46[108]	ATAACAGTCGCAAATGGCATCAAAGAATAAAA	32	#b8056c
59[28]	47[45]	CTTTAATTGCTCCTTTTGATAAGGGGGTATATTCAACCCCCAGATA	46	#b8056c
59[63]	44[66]	CGGATGGTACCTTAAGTAATCGCGCCGAGAATAGAACCG	39	

Start	End	railed bridge staple sequences	Length	Color
0[76]	34[74]	AAAGGGAGCGAACGTGGCGCTTGTAAACGA	31	
0[121]	21[124]	ACGAAAGGGGGAAGCATAAAGA	23	
0[181]	0[162]	CTTTTTGTTAAAATTCGCAA	20	
0[223]	21[209]	GATAGTAAGGACAACACTAAGATTAAGAATCAATATGATAGG	42	
0[239]	1[253]	GAATAAGGCCGTAACAAGCTGCTCAGAGGC	32	
0[265]	0[240]	GAGAGGGTAGCAACGGCTAATTCAGT	26	
1[22]	0[56]	AGCCATTGCAACAGGAAAAACGCTCATGGAAATACCTACAAATTTAGA	48	
1[70]	20[70]	ATCGGAAGGGTCGAAAGCGAAAGGAGGTCCAGAAAGGAAGGG	42	
1[98]	0[77]	AATCCCGTGCAAGGCGGCAAGCGGTCCACGCTGCT	35	
1[112]	19[124]	GCCAGCTTCGGTGCCCTAATGAGTGAA	27	
1[162]	0[182]	ATTAAATTTTTGTTAAATCAGCTCAAACGAAAGA	34	
1[196]	19[202]	GCATCAAATTATAGGATAAAT	21	
1[254]	2[240]	TTTAGGACTAATACGAAGGCACCAACCTAAATATTCA	38	
2[83]	1[97]	AATCGTGCCGTTTGCCCCAGCAGGCGAA	28	
2[97]	5[97]	GATGCTGTTCACCATCTGGGCGCCAGGGAGTTGAGTGTTGTT	42	
2[181]	4[168]	TAACCAACAGAAAAGCAATATGTACCCGTAACAATTTCATC	42	
2[209]	0[224]	GAGAGCTAATCATAACCCTCGTTTACCAGACGAAATTGCCCT	42	
2[239]	3[253]	TTACCCAAATCTTGACAAGAACCGGAACGAAA	32	
2[292]	19[292]	ATAAACGGGTAAAGGCTCCAAAAGGA	26	
3[22]	3[48]	TCACACGACCAGTAATAAAAGGGACAT	27	
3[49]	18[49]	TCTGGCCAACAGCATAATTTTGACGCTCTCAGTGAGCGGAGG	42	
3[70]	15[76]	CAAGTTTCCACTACAAAAACCACGTGGAGCGGAAC	35	
3[112]	4[84]	GGGAAGACGCCATTCAGGCTGCAATAGCCCGGAGATAGGGGG	34	
3[162]	2[182]	ACAAAAATAATTCGGCTCTGGCCTTATCATTTTT	34	
3[196]	15[202]	TTACCCTTGACCATCTTTAAAATATTCAAGAAACG	35	
3[224]	18[217]	TGCCAAATCCGATAAAAACCAAACTAATACTGAGA	35	
3[254]	4[247]	GAGGCAAAAGAAAAGTACAACGGAAGCTGG	31	
4[55]	19[62]	GAACCCTATTAGTCTTTAACAAAGTGTAGGCCACC	35	
4[83]	2[98]	CGATGGCTTGCAAAATCCCTTATAAATCAAAAGGCTTTGTTT	42	
4[139]	5[153]	ATCTGCCGGAAGTCGCACACGTTGGTG	28	
4[167]	4[140]	AACATTAAAGGGCGCATCGTAACCGTGC	28	
4[216]	3[223]	GTAAAAAACGAGAAGAGCTTTTGCAAAAGAAGTTT	35	
4[246]	5[260]	CTGACCTTCTACAGACCAGGCGCATGATTTGT	32	
4[272]	0[266]	CGAAACATACACTAATGCCACAGACTTTACTAAAG	35	
4[292]	5[306]	ACCAGCGATTTATATGTCGAAATCCGCCTGCTCCATGT	37	
5[98]	3[111]	CCAGTGCGTTGCGCGTGAGACGGGCATGGGGCCTCAACTGTT	42	
5[154]	8[158]	TAGATTGCGTAATGGGATAGGAGCAAATCAGATATACA	38	
5[182]	3[195]	GATTCCCTTGAGAGGCCCCAAAAACACTTCAGAAGCAGGTCT	42	
5[261]	19[272]	ATCATCGCCTGATTATCAGAAAGGCC	26	
6[55]	8[42]	GAACTGATTTGAGTTCAGACTTTACAAACACCTTGCAGTGCC	42	
6[132]	6[133]	TCCGGCATCATTACCGCGCCCAATAGCATCTCCAGCCAGCTT	42	
6[265]	9[258]	AAGGGAACCACAGATACAAACTACACGAACCGT	35	
6[300]	13[292]	TACTTAGCCGGAACGAGGCGCAGCGTAATTTTGTCTATGGGATTTTGA	48	
7[22]	6[35]	CAGCAGAGATTAAAACAGAGAAAACAT	27	
7[70]	11[76]	ATACAGTTTTTCAGAACAGAACCATATCTGAATAA	35	
7[98]	14[91]	AGAAACGAGTTGGAACAAGAGATTTGAACTAATTA	35	
7[112]	8[84]	TTTCATCTTGAGAACAAGCAAGCCAATAACGGATTCGCCTTT	42	
7[119]	3[120]	GTAGGAACCGCTTCCAGTATCGGCCTCAAGTTTGAGGGGACGGC	44	
7[182]	14[175]	AAGAAGACCTCCGTGGGAACATTATTTACACAGTT	35	
7[196]	11[202]	CCGGAACAAAATCATAGCGTTGCATTTTGTCAGAC	35	
7[217]	14[217]	CCGCCACCCTCATCGACGTCCAATACTGAATAAATAGATTGG	42	
7[238]	11[244]	GAAGGATATTAAGAACCTATTGTTAATGTTGAGTA	35	
8[83]	18[77]	GCGTAGAAACGATTAAAGAGTCTATCTGCGGGC	35	
8[167]	18[165]	CCTCCCGAGAAGGCGATTGACTGAGCGACGA	31	
8[188]	9[181]	CACGCGAGGCGTTTAGCCTTA	21	
8[216]	18[203]	TCAGATTCATAATCCGCCTCCGTCATACAGTTCAATCCGGA	42	
8[258]	15[244]	GTATCCATGAAAGTTAGGATTGACCAACTTTGAAAGAATGGA	42	
8[292]	9[292]	AAGAGGGTTGATACACCCTCAGAACA	26	
9[56]	17[62]	TCAAATGATTATCAAACATTATACAGGGTCACGCT	35	
9[98]	17[104]	TACCAGTGAAATAACTTACCTTGAATCGGTGCCCGC	35	
9[112]	10[91]	TCATCTTTAGGGTATTAAACCAAAGTTACAAAATC	35	
9[182]	17[188]	AATCACCAAAATAGTCCCAATGAATCGAACAAAGG	35	
9[224]	17[230]	AGAGCTATCCAGTACCTCATTCGGAACAGTCAGGA	35	
9[259]	14[245]	ACTCAGGAGCCCACCACCCGTATAAACAATTCTGACCCAGTC	42	
10[55]	10[56]	AACCCTCTTATCTAAAGGATTATACTTCAAAATTATTTATCA	42	
10[90]	14[77]	GCGCATAGAACCTAATAAAGATTAACCA	28	
10[181]	10[182]	AGTTGCTTCTACCAACTTTGCCTTTTAGCCGGTCATAGAGATT	42	
10[230]	14[203]	CCCGCCACCAGAACCACCATTTTCATCGTGCCATCATTTGTT	42	
10[272]	15[272]	ACCCTCAAGGTTTACAGACGTCAGCCCT	28	
11[77]	13[62]	TGGAAGGAATCATCAATATAATCCTGATTGTTTATATTCCTG	42	
11[91]	11[126]	GAATTATTCATTTCAATTACAAGAACATATAAAGTA	36	
11[203]	33[203]	TGTAGCGTGGTAATCAGTAGCAAGGTGAATA	31	
11[245]	13[230]	ACAGTCGAGAGTCTACTGGTAATAAGTTTTAACAGTCATACA	42	
12[104]	31[97]	GCAAAAGCTTCTGTTATTAATTAATTTTAGATTATGCGTTATAGAAA	49	
12[124]	33[121]	ATTTCCTTATCATAATTGAGAAA	23	
12[188]	31[181]	TCAAGGCCTTTACACATAAAAACAGGGACTGAACACATTCAAACCAGCG	49	
12[216]	10[231]	AGGAGGTCGCCAGAGCCGCCGCCGGGGTCAGTGCCCCCCCTG	42	
12[258]	10[273]	AACACTGCCTCATTTTCAGGGATAGCAAGCCCAACAACCGCC	42	
12[286]	13[272]	CAACTTTCAATAGGAACCCATAAATGAA	28	
13[26]	12[49]	ATAATACATTTGAGGATTTAAGATTATTATATCTTTA	37	
13[63]	9[55]	ATTATCAGAGCGGACACGTAAGTTTAACGTCACCGCCTGCAACTGAACC	49	
13[91]	23[104]	AACAATGAAGATGACAACGCTCAACGATTATCATAAGACGCT	42	
13[175]	23[188]	TTTCGCTAACGATTGACGGAAATTAAGGGCGAAAGTCAG	42	
13[231]	8[217]	TGGCTTTTTACCGTTTTCGGAGGCTGAGACGAACCGCCACCC	42	
13[273]	6[266]	TTTTCTGGTCTTTCGTACCGCTAAGTATAGCCCGGCAGTACCCAATCAT	49	
14[76]	22[74]	CCAGAAGGATGATGGCAATCAAATCCTTGAA	31	
14[90]	9[97]	ATTACATAAGATTGCTTTGAA	21	
14[124]	13[124]	ATAAATCAATATATAATCGGCTGTCA	26	
14[174]	8[168]	ACAAAATGTTTTGATAGCGAA	21	
14[202]	12[217]	TAACGTCGATAGCAGCACCAGGCAGGTCAGACGCGCATTGAC	42	
14[216]	9[223]	CCTTGATTTGCCACCACCCTC	21	
14[244]	12[259]	TCTGAATTGATGATACAGGTTTCGTCACCAGTAGTGTACCGT	42	
15[77]	7[89]	AAAGAAAGAGTCCGCCTTAATCGCCGCCGCTCATTTTCTCCAACGATGAAT	49	
15[203]	7[195]	ATTTTTCAGGAGTCTGGAGCAAACAAGACCAAATATTGAATCGCCACCA	49	
15[245]	8[259]	AAGCGTGTAGCATTCCGAACTAGCGGGGTTTTGCTAATAGGT	42	
15[273]	7[292]	CATAGTTAGACGTAGGCGGATAAGTGCCGTCGA	34	
16[48]	6[56]	TATGGTTTAAAAGTAGCCTGTGAGGCGGTCAGTATTAACAGTTGCGC	49	
16[90]	7[97]	GCGGGGACAATTTCTCCACTACCTTTTACATCGGG	35	
16[124]	7[111]	ATCGTGCCAGCTGCATTAATTTTTAATGGAAACCTTTTTAT	41	
16[174]	7[181]	TAATCGTAGCCATAAACGGCGTATTCCGGTATTCT	35	
16[216]	7[216]	TACAGGTACAAAACACGGATCCTCAGAG	28	
16[242]	7[237]	AAAACGAACTAAAAAGCCAGAGGACACTCAAGA	33	
16[292]	17[272]	ATTGATCCAGTAGTTGCCCGACAATCTTTCGA	34	
17[26]	16[49]	TCGTTAGAATCAGAGCGGGAGCTAAACAGGCGCGTAC	37	
17[63]	4[56]	GCGCGTACGCTGGCAAGGGCGGTGAACCATAGATA	35	
17[105]	15[124]	TTTCCAGTAATTGCAAAGGCCATTCGATGGTGCCCGGAAACAGTACAA	48	
17[165]	16[175]	AAACTAGCATGTCAACTTGAACGG	24	
17[189]	5[181]	CTATCAGGCTATTTTCAATGAAATCAAAACCTGTAGCCAGCCCCGTCG	49	
17[231]	17[256]	CGTTGGGAAGAAAAATCTACACGCAT	26	
17[257]	16[243]	AACCGATTGACAACAACCATCGCCCGTTAAT	32	
17[273]	4[273]	GTGAATTATCGGTTAAATTGCCAAGCG	28	
18[76]	16[91]	GCTAGGGACCCACACCCGGCGGTTTGCGTATACCCAACGC	42	
18[124]	17[124]	AGCTAACTCACATTCGGGAAACTTGA	26	
18[202]	16[217]	GAGGGTAGTCATTGCCTGAAAGATTCATCAGTCAACATTAT	42	
18[216]	19[230]	TTTAGGAGAATGTTTAGACTGGATAGTGTCATTATGCCTTTA	42	
18[242]	4[217]	TTAAGAACTGGCAACGGTGATCAAGAGTGAGGGGGTAATA	40	
18[292]	17[292]	AAGCCTTTAATTGTTCTTTAAACAGCA	26	
19[63]	3[69]	GAGTAGAGTGCCGCCCAAAT	21	
19[203]	45[205]	TAATGACAATTCAACCGTTCTCAACGCAAGA	31	
19[231]	19[256]	ATCATTGTGAATTACCTTAAGCCTTG	26	
19[257]	18[243]	CAGGGAGTTCTATATTCGGTCGCTGTGCGATT	32	
19[273]	3[292]	GCTTTAAATACGTAAAACACTCATCTTTCGACCCA	34	
20[48]	2[35]	CAAATTATTTAATAAATCGTCGAAATG	28	
20[69]	1[69]	AAAAAGAGTCTGTCGACGGGGAAAGCCGGCCCCCGGCACTAA	42	
20[104]	43[97]	TGATTGCTAAGTTGGGGTTTTCCCAGTCTTTTCTCAAACAGGGGACCTCC	49	
20[124]	45[121]	ATGTAAAGCCTGGAAGCAGTTCA	23	
20[188]	43[181]	ATTGTATAATAATCTCGAGCTTCAAAGCGGATTAGGTACCAACTCAGAG	49	
20[242]	21[230]	AGATGGTTTAATTTCAAAGAGAAACA	26	
20[292]	21[272]	AAAATCTCCAAAAAATGCGGGATCGTCTGCGAAT	34	
21[26]	20[49]	ATAACATCACTTGCCTGAGTAGAAGAACTTCATCACG	37	
21[91]	35[104]	TTGCAATCCTTCACCTCGATAAAGCGGATGCAGTAGGAGAAG	42	
21[173]	35[188]	TAATATCAAGCAATTTGCGGGAGAAGCCATCGGTTAGACGAT	42	
21[210]	2[210]	AATTACGAGGCACGATACATAACGCCAACACATTCAAATAGC	42	
21[231]	21[256]	CCAGAACGAGTAGTAAATTGACAGCA	26	
21[257]	20[243]	TCGGAACATACCCTCAGCAGCGAAAGGGCTTG	32	
22[126]	9[111]	ATATAAAGTAACCAATCGTCGCAAATCAATGTGAGTACCGCAC	43	
22[210]	8[189]	ATATAAAGTAGAAACCAAATAAGAGAGTCAAAATGCCCTTATCCGGAAC	50	
23[105]	12[105]	GAGAATGTAGAATAGCCATATTTAACAGAGGGCTTTCCCTGA	42	
23[189]	12[189]	AGGGTCACCAATTATACCGTCACCGAATTCATTAGACAGAA	42	
24[97]	29[97]	AATTTATACCTCCAAGAATAAGCCGACCG	28	
24[126]	24[98]	ATATAAAGTAACGAGCAGAGTCAATAGTG	29	
24[181]	29[181]	ATACATAATATAATCTCACAAAGACAC	28	
24[210]	24[182]	ATATAAAGTAGAAACGTAATTGAGCGCTA	29	
25[112]	31[121]	AATTTTAAAAGTACCGACATATTAACGCCAACATGTAA	38	
25[196]	31[205]	GGCCGTAAATTAGAGCCAGAGCAACTTGAGCCATTTGA	38	
26[97]	27[83]	ATGTAAACGCGAGATCTTCTGACCTAAATTTAATACGCAAGA	42	
26[132]	27[125]	AACAAGAAAAATAATATCCCAATGCCTGTTTATCA	35	
26[160]	27[146]	TTTTAAGGAAGGAAAGCAAACGTAGAAAATACAAAGAACAAA	42	
26[201]	28[175]	ACATTAGCATGAAATAGCAATAGCTATATAATAACTCCTTA	41	
27[84]	13[90]	CAAGAATGCTGATCTTTTTACAAAATCGATAGCTCCCTTAGTCAAGAA	49	
27[128]	29[139]	ACAATGATAAGCCCAAATGTTCATCGTCCCGACGACGACAA	42	
27[147]	26[133]	GTTACCAAAAGTAAGCAGATAGTCCTG	28	
27[168]	13[174]	AAACGCACTTACCGAAGCCCAAGAGATAGAACACCAGCGCATAGCCTAA	49	
28[174]	26[161]	TTACGCAAAACGCAATCAATAGAAAATTTGAGTTAAGCCCT	42	
28[205]	29[205]	AGCACCATACTGGCATGTACAAAATCACCAGTAA	34	
29[69]	26[74]	ATATAAAGTATGGTTTGAAATAAATAAACACCGGTAGACTACGCAAATCCAA	53	
29[98]	26[98]	TGTGATAAATTTCAAAACTTTTTCAAATTCTTATATAACTAT	42	
29[112]	29[111]	TAAAGTAATTCTGTAATGCAGAACGCATTTTAGTTAAAAAGG	42	
29[140]	27[167]	TATACATAAAGGTGGCAACATATAAAAGGTATGTTACCGAGG	42	
29[182]	27[201]	CACGGAATTAAGACGGAATACCCCAAAGATACA	34	
31[69]	24[74]	ATATAAAGTAAATCATAATTACTACAAATTCTTATAACATAGCATAGGTCTGA	53	
31[98]	25[111]	AGCCTGTAGGCGTTGCTTAGGTTGGGCT	28	
31[153]	24[158]	ATATAAAGTATTCATTATGGTTTCCGATTGAGGGAATATTAACTACCCACAAGA	53	
31[182]	25[195]	CCAAAGATTTATTTGAGCAAGAAACAAA	28	
33[69]	11[90]	ATATAAAGTACCAGTATAAAGCTGAAACAGTGAGGC	36	
33[153]	14[165]	ATATAAAAGGGAAGGTAAATCGTCTTTCCTGAATATTTTGCACCCAGCGCGGGAGAAA	60	
34[126]	1[111]	ATATAAAGTAATACGAGCGCCAGGTAACCGATGTGCCTATTAC	43	
34[210]	1[195]	ATATAAAGTAACAAATCATTAATGCGTTCCGGAAGCCGCGGATT	43	
35[105]	20[105]	CCAGGACACAACTAACTGAGACCGACTAAAGTTGGGGACAGC	42	
35[189]	20[189]	CTTTAAGACAGTTTATAAAAAATTTTTAAATTTATTTAGGGAAG	42	
36[97]	41[97]	CTAAGTGTTAGTGCGCATTTCATATACAC	28	
36[126]	36[98]	ATATAAAGTACAATTCCGTGGATGTTCTT	29	
36[181]	41[181]	GATAAGAGCTGAATGCAAAGAACATCCA	28	
36[210]	36[182]	ATATAAAGTAAGGCCGGATTGCTCCTTTT	29	
37[112]	43[121]	GCTCATACAAACCCAGCCATCTGCATGGGGAACTAAA	38	
37[196]	43[205]	GAGAATATAAATGCAATGCACCTGAACCCTCATATATA	38	
38[97]	39[83]	TCCCGCCGCCCTGGCCATCTGTAAGCAACTCGTTAATCTATT	42	
38[132]	39[125]	TGTTTCCTGTGTGAAATTGTTACGAGCTCGAATTC	35	
38[160]	39[146]	GTGTCTGATTCTGCTGGGGCGCGAGCTGAAAGATACAGTTG	42	
38[201]	40[175]	ACAAAAGCTCAACATGTTTTAAATGATTTTAGCTGCTTTA	41	
39[84]	21[90]	TACCCTCAAAATAAAGTGTCCGTTGTGGCCCAAGCACGACGTGAGAGAG	49	
39[126]	41[139]	GTAATCATGGTCTACTTTTAGGCGGGAGACGTTGGTCGGCC	42	
39[147]	38[133]	ATTCCCAGAAGTTTCATTCCATAATAGC	28	
39[168]	21[174]	TAGATTTGCAACTACTTAATTGGTCATTCAGGTCAGAACCAGTAAACGT	49	
40[174]	38[161]	GCTATATAGCATTAATTAGCAAAATTTACTTAGAGAAGTACG	42	
40[205]	41[205]	AGGTAAAGGCAAATGGTATCTGAGTAATGTGTAA	34	
41[69]	38[74]	ATATAAAGTACGGTGGGCACGAACATAAATCATTTACGACTTACCCCGCTTCA	53	
41[98]	38[98]	GGCCTTGGGCCCTGAGTGACTCTATGATATCTTATGACAATG	42	
41[119]	41[118]	TGCGCTTCCCCGGGTACCCGACAGTGCAAGGTGCAAGGTCGAAGTT	42	
41[140]	39[167]	CTGTGGCATCAATTCTACTAATAGTAGTTTTCATTGAACGAG	42	
41[182]	39[201]	ATAAATCCAATAACCCATTAGATACATTTCATTA	34	
43[69]	36[74]	ATATAAAGTATCTCCGAACTCTCTTTAAGCTACGTTAGGCCAGTATTCATGCGA	53	
43[98]	37[111]	TGGTTGGGGCTGACTGAATTGTCAACCC	28	
43[153]	36[158]	ATATAAAGTAAAGCAATAAAGCAAACATTATGACTAACTCCAATTTGCGGATA	53	
43[182]	37[195]	CATAAAGAGGCAAGATAATGCTGTAGGT	28	
45[69]	2[84]	ATATAAAGTAGGTGCTTGTTACCGCCTGGTTTTCTTGTTCCGA	49	
45[153]	2[162]	ATATAAAGTACCTGTAATACTTTATTTAATGATAATTAGGAACGCCATA	49	

Start	End	slotted cross staple sequences	Length	Color
0[53]	1[34]	ATTAAGCAATAAAGCATCAATTCTACTACAGGC	33	
0[104]	13[125]	TGAAAGCTTTAAAAGGGACATTCTGGCCAACAGCT	33	
0[125]	5[125]	AAAGATAGAACCCTGACAATATTTTTGAAATCAATGAATTGA	42	
1[35]	7[34]	AAGGCAATGAGGATTAGAGAGTTTTTGC	28	
1[96]	6[96]	AAGAATACGCAAGCCAGC	18	
2[46]	8[25]	GACTGGAGACGACGATAAAAACCAAACAGAGGGCAA	36	
2[125]	8[108]	ATCGCATCGTAACCGTGCATCAGGGGACGGCG	32	
3[35]	7[53]	GTAAAATGTTTATTGAGATTTTTAGAGCTTAAT	33	
3[100]	10[96]	GTTTGTGCCATTGGATAGGTCACGTTAATGGCGAAACCGTAA	42	
4[46]	22[42]	TCAACATGTTTTAACGCAAGGATAAAGGGAGAATAAATCGACTAAAG	47	
4[125]	3[125]	CTCACCGCCTGCAACAGGCAATGGGAAGGACGACAGTATCGG	42	
5[100]	25[104]	GAGAATCAACAGCACGACCAGTAATTCTGAAATGCAGAAGGCTCAAC	47	
6[53]	1[53]	TGCTGAATATAAAGAATTAGCAAA	24	
7[35]	10[35]	GGATCGCAGGAATATAGAGAGTATAACG	28	
7[96]	8[93]	AGCAAATGAGGTGCGGGCCTT	21	
7[119]	11[125]	CACCTTGCAACTGTAGCGCCAGCTTCTGGTGCCGGGGTGTAGATGGGCG	49	
8[24]	0[21]	CTAAGAGGTCATACCTTTTAAATCATAATAGT	32	
8[107]	0[105]	ATCAAAATCTCAGTTGGTGGCACATCTGACC	31	
9[21]	13[46]	ATTACTACAACTAAAAGCAAAAAATGGTGCGCGAGCTGAAAAGGTGGCCTCAGA	54	
9[93]	4[100]	TTCGCTATTACGCCAGCACCAGTGCCACGCT	31	
10[34]	11[53]	GAACAACCTCGTTTACCATAGCGTCCAATACT	33	
10[53]	9[50]	GCGGATCGTCAATTCATCAG	21	
11[21]	10[21]	TCATAACATGAGGC	14	
12[46]	5[46]	GCATAAAGATACATTTCGCCTCCAACAGGTCCTGTAGC	38	
12[125]	7[118]	AAATTCACCAGTCATTGAAAGATCTGGTAAAGCAT	35	
14[41]	37[53]	TCAAAAGTCATTGCCTGAGTTTCTACAAATCAAGAGTAAT	40	
14[69]	20[70]	CGCGTCTAATGTGACGCATAAGTTAAAGGCCGCATAACGCTC	42	
14[97]	17[90]	ACATTTGTCGACAATGTAAAACCGACGGCCATGCGT	35	
14[104]	31[125]	AGATAATTAAGGGTTAGAACCTACCATACCTTTTA	35	
15[21]	23[27]	TTAAATTAAGGCCGTTGGGAACTGGCTCGTGTACAAACTTTGGCCACTA	49	
16[45]	19[27]	ATGATATTCATGAGTAATGTTTAATTAAAAAAGATTAAGAGCGGTGTC	46	
16[69]	16[70]	ATTTAAACAGTTCAATAGGAACGCCATCAAAAAAGAAGCTTT	42	
16[111]	20[105]	CCCAGTCGGGGATGTAATAGAGTGAGGCACCACCA	35	
17[14]	16[14]	GCAAAGCTTTACCC	14	
17[28]	14[42]	ATCAAAACGAACAACCATAAAAATCAGCTCATTTTCAAAGAT	42	
17[77]	26[88]	TCACCCTCAGTGCCACTTTACAAACAATAGGATTTGTCGGATATA	45	
17[91]	14[105]	ATTAACGGATTGAGACGACGTCTCGTATTAAATCCAATCAAT	42	
18[62]	16[46]	TAAATGCAACATTAGGCCTTCCTGTAGCTTAACCAGAAAACGAGA	45	
19[28]	3[34]	TGGAATCAAATATGTTACAGGCCACATTGGTAATA	35	
19[63]	27[51]	TCATAGCATGACCCTGTAATAGCAGGGACCGATATATTCGGTTTT	45	
19[70]	14[70]	AGTAATATCCAGAAGGATTAAACAACCCAGAAGTATTTAATT	42	
19[91]	27[104]	ACCGCAAAACAGAGTTCAAACGGGAAAG	28	
21[56]	25[80]	CAAAAACATTATGGAAATACCTACATTTCAGGAAATCTT	39	
21[105]	23[104]	GGATTATAAATTTAATGGTTTTCATAAT	28	
22[41]	21[55]	ACTTTTTACCAACCTAAAAAAAGACAGCTTTGAGGGTTGTAC	42	
22[83]	24[56]	GTGATAAATAAGCAACGGCTACAGAGGCATCGGAAGTCACCC	40	
22[125]	24[119]	TCATCTTTTTTTCACCCAAGA	21	
23[28]	25[41]	CGAAGGCCATGAGGGTTTGACCATTAGCGCCTTTACGCATAG	42	
23[77]	23[76]	AAATAAGGTTATACAATTTTGCGGGATCCGAGGGTAGGCGTT	42	
23[105]	21[125]	TACTACGAGAAAACCTGACCTTTACATTGGCAGAC	35	
24[55]	19[62]	TCAGCAGGAGGCTTCTTTTGCAATTTTTAGAACCC	35	
24[97]	22[84]	TTAGTATAGCCAACATCAGCCATTGCAATGACGCTCGACCGT	42	
24[118]	19[125]	CAAAGAACTGTAAACGAACGAGGTCAGTATTAAAA	35	
25[28]	22[21]	GACCAGGTTGTTTCATTTCCATAGATTTAAAGTTTC	35	
25[42]	24[28]	GCTGGCTCGGAAAGAACCGAACTGACC	28	
25[81]	17[76]	ACCACAACGCCAACACAGCGAGTATGAAAGATTCGCAT	38	
25[105]	36[96]	AGTAGTTCGGAAAAAGCCTGTTGTAAATGATTTAATG	37	
25[119]	17[118]	TGCTGCAAGTGAATAACCTTATAACGGTAACAACTGCTGCA	42	
26[87]	21[97]	TTTAAGTATAACATATGCAATAAACACCGGAAGAAATACCAATCGT	46	
26[97]	19[90]	AATCGCCTCTCCGTGGCCAACAGTTCAGCAATATT	35	
27[35]	27[34]	CTACGGTAGGCCGCTGACCTCGATTTTAAGAAGAAAAAT	42	
27[52]	18[63]	CATCAATGCCTTGAATCCCCCTCAAATGCTTATGTATTT	39	
27[105]	32[93]	AGCCGCAGCGGCTTAATTGAGAACAGTATTGCACGTAAAA	40	
27[119]	16[112]	ATTCGCCATTACATCGGGAGATTTGCCCGGGTTTT	35	
28[53]	29[34]	CTAAAACACTCATCCGACCTGCTCCAAATCATA	33	
28[104]	39[125]	ATATAACTAGGTCTGAGAGACTACCTTTTTAACGA	35	
28[125]	35[125]	AACTCCGGCTTAGGCAAATCCAATCGTTTCAATTAAAGAAAA	42	
29[35]	35[46]	AGGGAGGCGGATATATTCAGTGAATA	26	
30[46]	31[27]	AGTCTGGAAACAGGAAGATTGTATACAGTCAA	33	
30[125]	41[104]	GATTTGGATTATACTTCTGAATAATGGTGCAATTC	35	
31[28]	17[27]	ATCACGGGTGAGATTTGTTATCTCAAAACTCAGGTCGGATTGC	42	
31[118]	28[105]	AGTATCAAAATTATCATAAATAAAAGAAGCTGATGTTGGGTT	42	
33[32]	28[21]	AGCCACATCAATATGATCATTGTGCCAAATCGACGGTCTGTTACT	45	
33[93]	40[96]	CAGAAATAAAGAATCAGATGA	21	
34[125]	33[118]	TACATTTAACAATTTAGATTT	21	
35[99]	38[99]	CTTTTGATGAAACTTATCAAAATCAT	26	
36[53]	29[53]	CTTGCAAGAACCAAAAGAATACA	23	
37[35]	40[35]	TTATGTCAGGCTATGTAGCTAAATCGTA	28	
37[119]	41[128]	TGTGAAACAGTAACTCAGGTTATTATCATCATATTTAATCCTGATTGACAAA	52	
38[23]	39[46]	AACTAAATTGTGTCGAAATCCGTTTGACC	29	
38[46]	37[34]	CCCAGCGATTATACCAAGCGCTGCTCTCATTACAATTACC	40	
38[125]	37[118]	AGTCAATAGTGAATAAACATCCCTGAGCCAATATA	35	
40[34]	41[53]	AAACTAGAGAAAAGCCCCAAGCAAACAAGAGAA	33	
40[53]	33[31]	TCGATGAACGGTTTTTTGATTAGGCTTGCCTGACGAGAAGGAG	44	
41[24]	38[24]	AATTCCATGTCATAATGCCCACCACGTAACAAAGCGA	36	
41[105]	34[99]	ATCAATACCTGATTAATTGCGTCATTTGAATTAC	34	
42[34]	49[34]	AGTTTTAACCCTAAAGGGAGAAACAGGAGGCCGAGAATCCT	42	
42[69]	42[70]	TGGCGAGAAAGGAAGCTGGCAAGTGTACCCTCAGAGAGAACG	42	
42[97]	49[97]	CCGCCACACAGGAGGTTGAGGATACCAATGAAACCAATCAAG	42	
43[56]	46[56]	CTTACGCACGCAAAAATAACAATTCAGC	28	
43[77]	55[90]	CGCCGCCGCAGCACAGAAGAACTCAAAGGAACCGCCCCTCAG	42	
44[97]	49[90]	ATTACGCAGTATGTCCAACATGGAAACCGCGACAG	35	
45[14]	44[14]	GCGGCAGATTAAC	14	
45[35]	45[27]	GACGACTGGAGAGGTTCGAAGTGAGCGAAGCAGGC	35	
45[45]	42[35]	GATTCGTGAGTGTTTTTATTGTAGCCCCCCGAAAGCGAAAGAATCA	46	
45[63]	50[77]	TCCATTAAAATCAAACCGAGTAAAAGTAATCAGTAGACTTGA	42	
45[105]	42[98]	AAGACACAGCCGAATTAGCGTGTTTGCCCAGGTCAGGAAAGCGCCAGAG	49	
46[55]	45[62]	ATCAGAAATTGCGCCGAGCAGTGACGCAGACCTTT	35	
46[97]	51[83]	GCATTAGCAACTATCGGCCTTGCTGGACCTGCGTGTTGAGGG	42	
46[125]	45[118]	AGTAATTGAGTTAAGCAATAGAGCAGATCACGGAA	35	
47[28]	61[46]	GGACTGAGCTAATAAATTACAACCCGTTAGTAA	33	
48[90]	54[77]	ATCGATAAGCATTGCAGAACCACCACCAACCGCCACTCCCTC	42	
49[35]	47[48]	GAGAGTATTACGAAACACAGCAATAATATAGAAGCTTCTTT	49	
49[98]	53[104]	TTTGCCTCAAAGTTGAAACAAATATCACCAGTAGCCATGATTAAGACTT	49	
49[112]	52[119]	CAGACTGTAGCGCGAAAAGTACTATCTTGGAAGGT	35	
50[27]	42[21]	ATCTCGGTACGCCATTAAAGGAAATCGGTGGGGTC	35	
50[76]	53[83]	AACAGCACATACATAAAGGTGTAGCAAACCCAAAA	35	
51[60]	45[44]	AGTGACCAGGGAACGAATGAACGCCATCGATTGTGCTGGG	41	
51[84]	44[98]	AAACGCATTACCAAACCAGAAATAAAAGAAACGCAGTTCCTT	42	
52[41]	52[42]	GCAGGGTTGTCGGAATCAGTAAACAGAACTGCTGGGGAAAT	42	
52[69]	54[56]	ACCCCGCAGGGAAATCATTGTCACTTGCCAACGCGTCACGCT	42	
53[21]	45[34]	GGAACTTTGTGCTGGAAGGCAAGCGGAGGTGTTAATGCAT	42	
53[70]	53[69]	AATACTACGTAGAAAAGAATTGGTAACAGGAAAGAAACCAGC	42	
53[84]	52[70]	GAACTGGACCAATAATAACGGAAATCAA	28	
53[105]	55[111]	ACCAGCGGACGGAATGAAATAGCCCAATTTTCATACCGGAACTCTCTGA	49	
54[27]	54[28]	GTCAAAGCTACGTGAACCATCACCAGACAAGAGCGGCCAAC	42	
54[48]	43[55]	ACCACCAGCGGGCGCTAGGGCGGGAAGATTTAGAG	35	
54[55]	51[59]	GCGCGTAGATTAGTTTAACCGTAATCAGTGAGGCCAACTCAATAAC	46	
54[76]	43[76]	AGAGCCGCCTGAGTCGAGTCTGTCCATCGGGAAAGCCGGCGC	42	
54[125]	48[112]	ACAATGCCCAATCAATCAACCTATTAGC	28	
55[91]	62[93]	AGCCACCACCCTAGCAGAGCCGAGTAACTTAGACGGGAGA	40	
55[112]	47[125]	ATTTACCCCAGAATGACGATTGGCCTTGGCCCCCTTGCCTAT	42	
56[53]	69[53]	CACCAGTGAGACTCATTACGCATC	24	
56[118]	57[104]	ATCCTAAGCTGTCTCATTTGGGAATTAGAGCCAGTCCAATCA	42	
57[21]	67[27]	TTGCGTATGCCCTTTGGTGGTCCCAGCAGCACTGCTATCTTATTAGCTG	49	
57[105]	66[105]	ATAATCGTTTACGACGATTTTTATTTATCCCTGAACAAACTA	42	
58[27]	61[27]	GCCACTCCGAAGACAAATCAAAAACCAG	28	
58[46]	57[53]	GAACCACAGGCCCAGGGTGGTTTTTCTTTT	33	
59[14]	58[14]	AGATGAAATTGTTG	14	
59[33]	59[32]	GTCGTTCGCCGCCTTTTTCTATCGAAAATCCCTTATGCCTG	42	
59[99]	73[104]	CAAATATCCATTCAGCAGCCTTTACATTAAGAAAGCATGTAGATAAGT	48	
60[125]	44[105]	TGAAAAATGAAAATAAGGTGAAAATATTCAAAGAAGAAAATTCATATG	49	
61[28]	47[27]	TTTCTAGGCAAGTCCGTGAAGAGAACGT	28	
62[50]	65[53]	GCGGCAGTTCGCCGCGCTTAA	21	
62[111]	67[107]	AAGCGCAAGTGCCCTAACGGGGTCAGTGTCTGTAGCAT	38	
63[93]	82[98]	ATTAACTGAACACCCAATCAGAGCCTTATCAACGGTAAGATTCTAA	47	
63[119]	56[119]	AGAGGGTAAAAACAGCCATATTTGTTTAACGTCAACAATCCC	42	
64[53]	67[46]	TGCGCCGCTACAGGGCGCGATACATTGCAAG	31	
64[125]	67[125]	CTGGTAACCCTCAT	14	
65[96]	61[125]	TTACCACCGGCCGGAAACGTCCTAATAAGATGAGAGAATAACATAAAAACCCACAATA	58	
66[34]	64[21]	TGAGTATACTGGTGCATGTTGTTCGCCATGCTTTCGTTGCTT	42	
66[104]	68[96]	CAACGCTGAACCCAGTTTCAGGGATAGCTCTTTCCCA	37	
66[125]	62[112]	ACTCGTCACCAGTACAAAGTCAACAGGG	28	
67[28]	68[35]	AAACGACTACTATGCTCGTTAGAATCCCAATCGAAACCTGGATTACGCT	49	
67[108]	62[119]	TCCACAGACAGTAAGTTTGTATAAACAGTTATGAGAGAT	39	
68[34]	72[31]	GGTTTGCTCCGAAATCGGCCAGGGCAACCACAGGATCTCCAGTCGG	46	
68[53]	66[35]	GCTATTACGGGGAGAGTTTTTGAGTTTGCGGT	33	
70[34]	79[34]	ATGACTGGTACTCAAACATTATGGTGTCAGATGATAGCAAGC	42	
71[21]	70[21]	GTACGCCATACCGT	14	
71[49]	78[49]	ATCAATGAGTTAGAGCGCCGACATCAGG	28	
71[77]	80[77]	TCGAGGTAATTGCCGGTTTATCAGCTTTCCAAAATAATAAT	42	
72[30]	58[28]	GAAACCTGTCGCCTGGCCCTGAGTAGCTGATTTGGGCGTATATCT	45	
72[104]	56[96]	TTTTAAATCAAGATTAGTTGCTCTTACCAACGCTAGA	37	
73[63]	83[83]	GCTCGACAATTTTATCCTGAATATTTTGCCCGACT	35	
74[76]	82[49]	AGTAAGCGGGTTTTGTTTTATATCTGAAGGAAGCATAAAGTG	42	
75[70]	75[69]	GTAAAGAGAATATATTAGCGAACAACATACGAGCCCTCGCTA	42	
76[34]	74[21]	TAAAAGAAATCCTCGAGAGAGTTAAAAC	28	
76[62]	73[62]	GCATCAAAGGAGAGTTATTTTGGAGATGTCCCCGGGTACCGA	42	
76[97]	74[77]	TTAGTACGACAAAAATAACGAGCATTTTCGAGCC	35	
76[118]	73[125]	GTATCACGTCCGAAGAAGCGCAAGAAAAATAAG	35	
77[42]	70[49]	TATCTGCATAGATATTGTCTCCATGCAGTTGTGCA	35	
77[63]	79[90]	GCTGGTCAGAACCGTGATACCCCTGTAATTTAGGCAGAGGCG	42	
77[84]	81[97]	CAGAGCCTTGCGAAAAAGGCTCCAAAA	28	
78[48]	70[35]	ATCGAGGAATGAGTGATCCGGTGGAGAA	28	
78[90]	76[63]	AATCTTAAACAGCTCCACCCTCTCAGAACCGCCACCCCATTC	42	
79[21]	78[21]	TGTACGCGAGTGGA	14	
79[35]	83[34]	GGTCCGGCACTTCCGCACTCGTGGGGTGCCTAATGCACTGCC	42	
79[49]	71[76]	TGGGTATGACAACAACCATCGGATAGTTGTCTGAGCAAATT	42	
79[109]	71[97]	TGCCGGATAATGTACCGATTTTCTGTCTTTAATTGTATCCAATAG	45	
79[124]	82[119]	CAGTTACAAAATGACTAATGCCCGACGACGATATAG	35	
80[34]	76[35]	GCCATACCCAGAGTCTGTAAGGGTTTTG	28	
80[76]	77[62]	TTTTTCACGTGTTTATGTAGATGAAGGTATATGATGTCTGAC	42	
80[118]	78[112]	TGAGAATAGGGTTGTACCAGG	21	
81[14]	80[14]	AGACAAACCATGAA	14	
81[21]	80[35]	TCCCCATTCTGCAATGTGCTTAGAGTC	28	
81[63]	81[62]	GAAGGTTGAAAATCGCAGATTGGCCGTTATCAATGACATCAC	42	
81[98]	76[98]	GGAGCATAACAACTAAAGGAAACCACCCTCATTGCAGGAGGT	42	
81[112]	78[119]	TGCTAAATAAATGATAACACTGAGTTGATGCTCAG	35	
82[97]	83[111]	GAACGCGGGTTTTGAAGCCTATTTTCAT	28	
82[111]	81[111]	ATCCGGTTAATTCTCGTACTCCGTCGAGAGAAAGGGGGATTT	42	
82[118]	79[108]	AAGGCTTCGTAGGAACAAGCAAGCCGTTCCTGAACGCCTGTTAATT	46	
83[21]	80[21]	TTCGCGCTAGTGAGCACATAACTAACGCTAGCGATGAAATATT	42	
83[35]	76[42]	CGCTTCTGTGTGAATAAAGCCCGGGGATTGAGATC	35	
83[49]	79[48]	ATTGTTATGGTCATAGCTGTTGAATGGAATAAATGAGGTCAA	42	
83[70]	83[69]	CACACCTCACCTAGCAGCTAATTCGTAATCATCCGCTCACAATTC	42	
83[84]	76[84]	TGCGGGAAGGGCGTTAAGTACCCGCCACC	28	

Start	End	stacked cross core staple sequences	Length	Color
0[48]	3[55]	CATAAAAGTAGCGGCAACATGTTAAATTCATAA	35	
0[132]	3[132]	GGCTTTGGAACGGCCGCTTTGGGGAT	28	
1[28]	1[62]	TGACCTGGTTTTGCAATAGTAAATGTTTAGACTGACGAGA	34	
1[49]	1[83]	TGTCTGGTCAGAAAGTAGCGTCCAATACTCGCGGATGCTTT	38	
1[119]	1[118]	CTACGAATCGCGGGATAGCCAAGCCCTAAAGGTGTCATATG	42	
1[134]	1[128]	GGCGCGACCTTGTTTGAATACCTTGCGAATAAAAAC	35	
1[60]	2[49]	AAATTCCAATGTTAAAATTCCGTACTAGCTAGCTGTAGCT	38	
4[118]	4[112]	AAAACGAAATCGCAAGGAGGTCCAGACGCAACGCC	35	
5[15]	5[18]	TTTTGCTGTTTCCGCTCCCTCAGAGCCGCCATTATTCTGGGCTA	42	
5[133]	5[126]	GTCCGAGTAAGTAGCCCAGAGTAATCTTTTTTCTCGCTCA	35	
7[56]	18[49]	ATTAAAACGTGTACGACGACCGCACGTTTCCGGCA	35	
7[107]	4[105]	AACAAGTAAGCATCGTCACCCTCATTAATACGTAATTAGC	40	
8[34]	1[27]	ATAATCAAAAACATTCCCAATTCTGCGTTTAGTT	35	
8[132]	29[132]	CTTACCGGAACAAATAATTGATAGCCTCTAGAGAACCGCC	40	
9[42]	28[42]	TGTAAATGTACTACATCGTAACATTGCCAGTACATGGAGCC	40	
9[107]	16[112]	CAAGAATTGAGTAAGACTTTTTCATGCAGCAGCGAAAGACTAAATGA	47	
10[41]	19[41]	GATTTAGACTATTTTTAAAACGGTACTCCGCTTGCAACTGT	42	
14[68]	7[148]	CAGTTGATACGGCAGCCAACGCATGTGTCTGCTCTGTA	38	
16[76]	17[76]	CGGATGGTATAGTCAGAAGAGTGAATCCCCCTCAAATCGTCA	42	
16[97]	13[90]	CTCAGAAATCTAAAGACAGCCTTCATAGGCGTACC	35	
11[56]	14[49]	TCCTTTTCTTAATTGCTGAATTCAGGTCAGAGGAA	35	
12[55]	16[56]	CTTTATATTTTAATTCGAGCTAAGATTAATTTACCAAACAGT	42	
12[97]	7[68]	ATAGGAACCCATAAACTCCAATTGAACCGCCCCATCCTTTG	42	
12[125]	12[126]	CAACAACCATCGAGAGTACAAACTCGAGGTGAATTACAATGA	42	
13[35]	11[41]	ACTCAAATATCCGGTAAGAGCAACACATAAGGAAT	35	
13[91]	16[98]	GTAACACTGAGTTTTTCCACAGCCACTTCGTATGGC	38	
14[48]	15[48]	GCCCGAAAGACTGAAGATAAATCAAAAA	28	
14[76]	12[56]	CGGATTGCATCAAATCAAAGCGGATTAGAAGCTAC	35	
14[111]	10[98]	TGCAGACCTCACCCGATAGAGAAGCCCACACCACCCGCCAC	41	
14[132]	15[125]	ATCAGCTTGCTTTATTAAAG	28	
15[63]	17[66]	TGACTATCTTAGAGATAAGATAATAAAAGACGTTGGGAGA	42	
15[105]	17[118]	CGTCTTTTTAGTACCTCATTTAAAGAATGTTCCAGTAAGCGT	40	
15[120]	17[132]	CTCCAAAGTATACCGATATATTTGAATTAGGCTTTT	35	
16[41]	9[41]	TGACCAACAACTAACAGTTGAGGAAGAT	28	
16[97]	10[77]	ATTTTTGCTAAACATCGTAACGCCGCCCACCCTCATG	35	
16[125]	9[132]	AAAAAGAGCATCGAGGACTATAAGCCCAATAATA	35	
17[77]	16[105]	TAAATATTCAACTTTTCAACCTTTCAAGCTGCGAGTGAATTTTTCT	42	
17[112]	16[126]	GAATAGAAAGGAACAACTAAAAATCTCC	28	
18[41]	19[34]	TGGTGCCGGAAACCAATCAAACCATTCAGGCTGCG	35	
18[48]	0[49]	CCGCTTCTGCCAGTTTGAGGGGAATCATGCAAATATTCATTC	42	
18[97]	18[63]	AAGGCGCATCATTCACCGAGAAGATCTTTTTCTTTCTCTCA	42	
18[104]	18[105]	GTTTACCAGCCGCAGGAAATTCTTGAGCATTAACTCATTTTC	42	
19[63]	26[63]	ACAGTATATGGCTTAATCAAAATAACAGAAACCGCAAT	42	
20[118]	8[107]	ATCGATGGCCGATCACGCCGATTCTTTTTAAACCA	40	
23[28]	2[28]	GTTTTCCAGAGGTGAGAGATCTGGAGCATCGATGTAATTAG	42	
23[91]	28[91]	TCGACTATAAAAACAGGGAAAATTACAGAGAGAACATATAT	42	
24[55]	21[62]	CTGCGAAAGATTAAATTTTTCCATCGTAGCGGATT	35	
24[104]	22[98]	GGTCAACGTAGCGCGTGATC	21	
24[132]	27[118]	ATTAAGACCGCCGCGATTGGCCTTGATATTCACAATACACC	42	
25[35]	20[49]	CTACAAAAAGGCGTGGCGAAGTGGGAAACAACGCGTGC	42	
25[77]	19[90]	TTTTTAAAAGTTGGTGTAGCGGCCTCAGTTGAGGGAGGGA	42	
26[41]	5[34]	ATATTCACCGTTCATTAATGGAACGGAATTCTTCTTC	35	
26[62]	24[56]	AGTTGGATCACATGAGAAAAAGAGACGTTTCGCT	35	
26[90]	28[70]	AGCCTATTTTCTGTCATTTGCAGCGGATTCCGTGG	35	
27[105]	26[91]	CCCTTATACAAATAAATCCTAAAATAGC	28	
27[119]	6[107]	ACCAGAGCTCTTTATTACGGGAAGCTCATCAGAGAGAT	40	
28[55]	7[42]	TCACGGGTTAACATATTACAGGTAGATTAGCCTTTGGTTGTA	42	
28[99]	7[57]	TGAAGGGTGTGAGAGATAGACAATAAAGCGGCAAAG	35	
28[90]	23[90]	AAAATACCAGGTCAAACTTTTTGCCTTTGCCTTTAGCG	42	
29[42]	7[55]	ATGTTTACAGTCCTCAAATCATAACAA	28	
29[91]	29[90]	ACCGGAATTAAGGGTCAAGATTACAGTAATTACCAGAGCCAAC	42	
31[42]	30[42]	AAATTGTCTGGATTAAACCATAGTACAACGCGAGATTTGATCT	42	
31[83]	42[83]	TCTAAGATTCCAAAAGAATATTGTTGTCCTCCTCTCA	28	
31[84]	48[84]	AGCGAACAATCGCACAACACCGGTTATACGCAAGATCGCCTG	42	
31[105]	48[105]	GAGGTTAGCATGTGGCAGGTTTAACCGTCGATATTCTGAA	42	
32[69]	44[83]	TTATCCGGAATCATAAAAGCCCAACAGTAATATAT	35	
32[83]	30[83]	CAGATATGCGTTTTAGCCGCATCTCTGAGAAGCAA	35	
32[132]	44[126]	AATAAACCCAAGCAGCATAATAACTGTTTACCTTAGA	35	
33[98]	34[98]	AACTTATGCACCCTTCGCGGTCATTAAAGCCAGAATGGAA	42	
37[105]	44[98]	CCAACGCTAAAGTATTCAGCTAGCGATGCTTAGA	35	
38[97]	32[84]	AATCAATCTCCCGAAGCTACAATCAAAT	28	
38[118]	30[105]	ATTTACGTGAAGCCTTTTTTTTGTTTTAACGTCAAAAA	42	
38[132]	45[125]	AATATCCGTAATAATGAGGTCTGAAGAATACATAA	35	
39[49]	32[49]	CGGAAGCTATCATATATTTTCATCCTAGGTAAGTACCGCACT	42	
39[77]	32[70]	GAATTATGTCTTTCCTTATCACCGCCTCTTCTCCTCTCA	42	
40[76]	40[77]	TACTAGATACCGCGCCCAATAGCAAGTTACCCATATTAAT	42	
40[118]	32[105]	CAAAAGGTAACGGCGTCTTTAGTCAAGATTTGTTTTGATT	42	
41[56]	38[49]	CAACGCTTTGGTTAAATGAACGAGTTCCGAAATCC	35	
41[77]	44[77]	AATTGAGAATCGGAGAACGCGAGAAAAC	28	
42[62]	49[62]	ATAAATACAAGAAAAACAATTATGATGAAACAATTTGCCC	40	
43[77]	47[90]	ATCCAATTAACTATATTTAACAATTTCAATGAATACAATAAC	42	
44[62]	47[62]	TTTATTGAAATACGCCCTCCTCAAGTTACAAAATGCGCAAA	42	
44[97]	38[98]	TTAAGACAAATAAACAACATGATTCTGTTAATTTAAGAAACC	42	
44[118]	38[119]	AAAACATAATGCAGAACGCGCGTACCGACGAGCCACATCTA	42	
44[125]	48[119]	ATCCTTGTATCAAATCATTATCCTGATTGTTTGG	35	
45[91]	37[97]	TTTGAATTAGGTTAGCAGCGCGTTCTCCTCCTCTCTCA	35	
45[105]	52[98]	TTTAATGGATTTTTATCAAACACGCTGAGAGCCA	35	
45[126]	50[126]	ATCAATAATGAAAATAAGCAAACCCAAGAAGAGCGAATATC	42	
46[118]	39[118]	TTGCGTAGAAACAGCTACCTTGCATTT	28	
47[83]	56[83]	AGAGCTTCGTCAATAGATAAACAATTCAGACGCTCAACGA	42	
47[119]	51[125]	GCACGTAAAACACATAACACCGCCTGCAGCTGAAC	35	
48[55]	41[55]	GCCGAGAATGTTTAATTTCAATAAAGC	28	
48[83]	50[84]	ATTGCTTGGGAAATACACATTTAAAGTTTAGATAACAGTT	42	
48[104]	45[104]	TAATGCAAATGTAAGCCCTTTTTCCTCGCTTACCTTT	42	
49[63]	58[56]	GAACGTTAAAACTCGTATTAAGTGGCACATGGTTG	35	
49[70]	39[76]	ATTAATTACAGTACTAATCGCTCGCTCCACTGCCGAGAAA	42	
49[105]	56[98]	GCGGAACTATCTGGTAAAGCAAATACATCACTTG	35	
50[125]	66[119]	AAACCCTCATCGCCCGGTCACTTTTTTGCTTCACCCGTTGCGCGATCGT	49	
51[83]	57[83]	TTAGGATACATTGGCAGCCTTCGTTCGAAATACCTAAAGGG	42	
51[126]	55[132]	CTCAATAAGCAATACTTCTTTTGCTGGTAATATCTG	35	
52[76]	41[76]	TTAAGCTACATCTCGAATAGCATGCAATTTTTCAAGGGCTT	42	
52[90]	58[77]	TAACAACTAATAGAAAATATCGAAAGGAATGGCTCGCCGCT	42	
52[97]	49[104]	GCAGCACGGTAGAACCTACCAAGGTTTATCATTTT	35	
53[126]	60[119]	ATTAAAATCCAGAAGCTGTATTTGGACTGTTG	35	
54[62]	68[56]	CGTAAAGGAGCTAATAGCCCCGGCCTCGGAAAATTGGGCCAGA	49	
55[49]	47[55]	GATAAATAAAAGGACTTTACACATTTGATTACCT	35	
55[84]	60[98]	AATGGATTAGTAGAAACGTCAAGAAGCTCCAAGCCAGAT	42	
55[112]	43[118]	CGGCCTTGATTAGTTCACCTTACAGTGCATTATTTATTATACTGAATT	49	
56[62]	51[76]	CCAATGACCCTTCTGACCTAGCTAATCATCAACGTCTATACTA	42	
56[97]	58[98]	CCTGATTGCAAATGAAAAATCTCAGTTGCGCGAACCCACACC	42	
57[91]	46[91]	ACAGGAAAAAACGTTTAATGTGCAAATCAACATTAACGTCAG	42	
57[112]	48[118]	CCTGAGAACCGCCACTAAAACAATCAAAAGAAA	35	
58[115]	55[115]	GTAACGATGATAGCCGCCATTGAACTTT	28	
59[56]	66[56]	AAATCGGAAAACCCTCCTCTCAAGGCCTG	28	
59[77]	72[77]	TCAGGGCGCTGGTTAAACGTCGGGTGCCGTCACTGCCGAGAAA	42	
59[98]	72[98]	TGAACCAGAGTTCTGAGCTAGCCGCCGCGATCCCTTCTCCCGC	42	
60[69]	50[70]	CAAAAGAAACAGGAGCCGATTACATTTATTTTTGATTGAGG	42	
60[83]	68[70]	AAAACCCGTGGACCATAAAGTTCCACACTGTGCACTCTGTG	42	
60[97]	54[84]	TTAGAAACACTACGCGCCGCGTTTAGATATTAGTCTCATTG	42	
61[42]	58[42]	GTTCCAGTTTGAAGAGTAAGGTTCGCCTTTGACGAGCGCC	42	
61[91]	62[91]	TCGCTTGACGGGAGTTAATGATGGAATTAGAGCAAGC	42	
61[112]	58[112]	CGAACGTACCCTAAAATCAAGGCTGCGC	28	
61[118]	68[119]	GGCGAAAAACTGGTATTGGACTGTTG	28	
62[69]	54[83]	GCAAGCCCAAATCCTTTATAAGGGCCGTACTAGACAATTGGAAAG	49	
62[90]	57[90]	GGTCCACGATGGCCAGGGCGAATTTTAG	28	
62[111]	57[111]	CCTGAGATCACCCAAGGGAGCCCAGAAT	28	
65[42]	62[42]	GCTGTTTCCTGTGTTTGCTAACGTGAGCTGTTTGATGCTGAC	42	
65[70]	60[70]	CTCAGATGCCCGGGTATCCGACCACTATTAAAGAATCTAAAT	42	
65[112]	62[112]	GGTTTGCTCTGCTCCTTTAATTTGGCCTGGC	28	
66[55]	73[62]	TTCTTTCGAACGGCAGCACCGTAGCAACCGCTGCTCTC	35	
66[118]	73[125]	TAACGGCCAGCGGGGTTGATTCTCAGGCGGCTGATTGT	35	
67[70]	73[83]	CCGACTGCTGCCCCCGTCCCCCACGCAACGTGTGGCCTTGCC	42	
68[55]	72[56]	ATGCGGCCGCCAGCACGCTTAGCGTAAATT	28	
68[90]	68[91]	CTTTGGCCAACATCCAACGCGCGGGTGGGTAAAGCTTT	42	
68[118]	72[118]	CCTGCCGTCGTTCTCAGCAAGGTTTTCGT	28	
69[98]	73[119]	GAGGTGTGGCGGACCGTCGCTGAAAGTTA	28	
70[69]	62[70]	GGTCAGCCGGTGGTCGCATCCAGTTGAGGATCTATGCCCCA	42	
70[90]	61[90]	ACGTCAGCCAGCTTAGCCAGCGGTGCCCCGGAAGTCCAACG	42	
70[111]	61[111]	TGATGAACCAGCATATCGAGATACTCACAAGCTGAACCGGGTTGT	42	
72[55]	71[69]	GGGCTTGATAAACGCAAGATTTTAAGAACTGGCTATTAT	42	
72[76]	71[90]	CACCAGAGAATAAGCTGGTCTATTCAAAAGGGTAGAAAGGC	42	
72[97]	69[97]	CCAGAGCACATCGAGCCTCGTCATAAACTACCTGCACGCTG	42	
72[111]	65[111]	CTGGCAAGACACTGGGCTCGTAGGAAGC	28	
72[118]	71[125]	CTCGTCGAACGATGCCTTTAGGTACATCGACATAA	35	
73[42]	68[42]	ATCAACGAGATGGTTTGCTTCGGCCGT	28	
73[63]	65[69]	ATTCAGTACGAATAGATCCAGGTCTGCTTATCCC	35	
73[84]	71[111]	CTCTCATAAGCGAATTGTAGACGCGAGCAATCAAGCGGTTGT	42	
74[41]	26[42]	CCAAAAACAGCGCCGCCGCCCAGGCTTTCACAATATG	42	
74[125]	51[118]	GAACCTACCTTCAGCCGCCACCAGAAGCCAGTACC	35	
75[28]	13[34]	ACTTTTGAATTTTTACGCCAAATAAACCAGACC	35	
75[56]	58[56]	CATCATACAGCGAACTAAACGAAAGCGGAATTATAGCTC	42	
75[105]	27[104]	TAGGAGAGAAACATGAAAGTACCGCCTCATCTTTTTAATGCC	42	
75[119]	20[119]	GTGCCTTCCAACCTGGCGGAGCGCTAACTGAACATCACCG	42	
76[76]	14[77]	TCTACGTGGTATTCAGGTCAGGAACCGAGACCGGAATTCAAAG	42	
76[83]	11[97]	ACCCCAAAATTAGCAAGACTCCTCCAAGAAACACTCTCAGAGC	42	
77[55]	63[55]	TGAGTAAAGGATAACGGAGACATTTGGTAATAGTTGAGAGT	42	
77[69]	11[55]	GTAAAGACCAGTCAACGAACTAACGGTTCAATTGC	35	
77[77]	76[104]	AACAGCGATTATACCAAGCGCATTTACCACACTAAGAAGGAT	42	
77[119]	10[119]	CATACATAAGTTTTAACGGCATCCCCAGCATAACCGTACTC	42	

Start	End	stacked cross connector staple sequences	Length	Color
0[20]	0[133]	AACGAGGCTACAGA	14	
1[133]	1[20]	GGTACGACCTAGA	14	
2[27]	2[133]	ATACATTTCGAAGTTAAAGG	21	
3[133]	3[27]	AGTCAGGGAAGGTGCAATAA	21	
4[27]	4[140]	GCTGAAAAGTGATA	14	
5[140]	5[27]	AGGGTGTGGCATCA	14	
6[27]	6[133]	AAACACGAGGAAACGCAATGG	21	
7[133]	7[27]	GTTACCAAGAAGGAACAGAGA	21	
8[27]	8[133]	GAAAAAATAGCACATAACTAT	21	
9[133]	9[27]	AGAGCAAGAAACAATGGCCCC	21	
10[27]	10[133]	ACATTCAACTAATGAGGCTGT	21	
11[133]	11[27]	TTCGGTCGTGCAGATACATA	21	
12[27]	12[133]	CCCTTCACCGATAGTTGCCCCG	21	
13[133]	13[27]	TTCAAACAGCTTGATGTTATA	21	
14[27]	14[133]	CAAATAGCTTGTATCGGTTT	21	
15[133]	15[27]	AGGAGCCTTTAAGAGAGGCTT	21	
16[27]	16[133]	CAGAGATTTTTGACGTTGAA	21	
17[133]	17[27]	GGAATTCGCAAATATGGGGT	21	
18[20]	18[126]	GCCGCACAATTCAATAGAAAT	21	
18[126]	18[20]	AAAGTTTATTTTCTCATTTCG	21	
20[34]	20[140]	ATCGGTCGCGGCCTTCTAAG	21	
21[140]	21[34]	AAACGTCGCTTATTAGCCAGC	21	
22[34]	22[126]	TCCGCGGCCATTAAGTTGTACATAAAGTGGCAA	28	
23[126]	23[27]	AAACCTAAAAAGTACAGGTAACGCCCAGG	28	
24[27]	24[133]	AGCTACAAAAGAACTGGCATG	21	
25[133]	25[27]	AGAATACCGGAATACCTTTT	21	
26[27]	26[133]	TACCTTTAGCGCAGCTGCAGAC	21	
27[133]	27[27]	CAGCATCAGCAGGGGATAA	21	
28[27]	28[133]	TAACCTACCGGGCCACCACC	21	
29[133]	29[34]	ACCCTCGAAAAGCAATCGGCGAAACGTA	28	
74[34]	74[133]	CATTATGACCCTGTTGATGCCCCCTGCC	28	
75[133]	75[27]	AGTCCCCGTATAAACAGTAAT	21	
76[27]	76[133]	TAGAACCCTTCATGGAGTGTAC	21	
77[133]	77[34]	GATGATACAATTTTTAAGTTCAATGCC	28	
30[41]	30[126]	ATCGCTCCAAATAAGAAACGA	21	
31[126]	31[41]	ATATTTATTTACCCAACTGAT	21	
32[48]	32[133]	CATCGAGACAACAGTTACAA	21	
37[133]	37[48]	CTAATTTCGCGAACGCGTTT	21	
38[48]	38[133]	GCACCTTGCCTCAAGAAAAT	21	
39[133]	39[48]	GACCTAACATGTTAATTAAG	21	
40[48]	40[133]	TGCGTTATACAAGTAAGTGA	21	
41[133]	41[48]	TCAACAATAATTCTAACCAGT	21	
42[55]	42[133]	AGCGAGGCGCAAGGTAACCTTGCTTC	28	
43[133]	43[48]	AATCGTCGCTATCTAAATTA	21	
44[48]	44[133]	TCTTCTGACTAATTAATTTCTT	21	
45[133]	45[55]	TATGTGAGTGAATCAATCATAAGGGAAT	28	
46[55]	46[133]	ACGACCTAGCTACCAAATATTCCTGATT	28	
47[133]	47[48]	GATGATGGCAATTTCATTTCA	21	
48[48]	48[133]	GGCGAATTATCATCAATATAA	21	
49[133]	49[55]	GGAATTATCATCCTTTGAAAGAGACCC	28	
50[55]	50[133]	ATAAGATGACCGCTGTACCACCACGGAA	28	
51[133]	51[48]	AAACAGAGGTGAAAGTATTAG	21	
52[48]	52[133]	AGGATTTAGGCGGTCAGTAT	21	
53[133]	53[55]	ATACCGAAGCAAGAACCAGCAGCTAAC	28	
54[55]	54[133]	ATTAACGTGCTTTCTCGAGTAAAAGAG	28	
55[133]	55[48]	TCCATCACGCAAGCCAACAGA	21	
56[48]	56[133]	GACATTCTGATTAACCGTTGT	21	
57[126]	57[55]	TTAATAACATAGGCCACGATGCCTAGAATCAGAGCG	35	
58[41]	58[126]	ATAGGGCCGTGCGAAGTGTAG	21	
59[126]	59[48]	GGTCGAGGTGCGGGGCCTAGCGTGGGT	28	
60[48]	60[126]	GGTTGGTGAAGAGCCTGAAAGCACTA	28	
61[126]	61[41]	AAGGAAGGGAAAGGCATT	21	
62[41]	62[126]	CTCGGGCAACAGCTGATTGCC	21	
63[126]	63[48]	CTCACTGCCCCGAGTGAGATCATCAATC	28	
64[48]	64[126]	TCATGGTCATTTCACCTTTCCAGTCGGG	28	
65[126]	65[41]	GCGGCGGCGGTTTTCCTTA	21	
66[48]	66[126]	CGGAGTAATCTTGACACACTCAATCCGC	28	
67[126]	67[41]	CGCGGTTGCGTCATACCGGG	21	
68[41]	68[126]	TTTCACGGTATAGGCCGGATTC	21	
69[126]	69[48]	CAGCGCCTTTCCAGGACCCGGATTCCC	28	
70[48]	70[126]	TGATTACCCTCATTGTAAAAAGCCGCA	28	
71[126]	71[48]	AAAAATCCCGTAGAATACCTTATGCGA	28	
72[41]	72[126]	TTAATTTCAACCGCGTCCGT	21	
73[126]	73[41]	CCGTTCCGCAAACTTTAAAA	21	

Start	End	genie bottle sequences (pEGFP scaffold)	Length	Color
38[118]	41[125]	AAAACGAAGCATGAAAAGGATCAAGCAGCAGATTA	35	
49[35]	37[48]	AAAAGGCCAGCACTTCATAGCTTGCTGA	28	
50[97]	45[83]	AACAAACAGCCACTAGTGGTGGCCTAACTACGGAATAGCCAC	42	
14[83]	8[63]	AACCTCTATCTCGGTTTAACGCGCGATTTAGTGCT	35	
39[32]	32[42]	AAGAATCAGGGGATATTTAATACGTGTAGTTTCGAACT	38	#b8056c
42[124]	34[105]	AAGTTACCTTCGGAAAAAGATTGTTTGCTCAAGAAGGGGGCCAAGTGG	48	#b8056c
30[111]	24[98]	AATCGGGACGACATCAAACTCCCATTGA	28	
8[104]	13[90]	AATGAGCTGATTTATAACGCTGGGCATGCTCGCTTGTCCTCG	42	
53[60]	12[63]	AATGAGTAACGCCACGTTTTCGCTGGGCAGC	31	
52[124]	47[124]	ACACCCGAACTTGCTGCGCCTTATCA	26	
35[64]	40[65]	ACATAATGCCAGGCGGGCCAGGGGTCTGACGCCTCTCCT	39	
48[55]	48[35]	ACCAGGCGTACGCAGGAAAGA	21	
29[105]	32[98]	ACCATGGGTCGACTGCAGAATGCGCTAGAGCCAGG	35	
26[111]	30[98]	ACCTCCCACCGTACAGTTGTTAGCGGCG	28	#b8056c
33[32]	38[32]	ACGCGGGTCTGTTATCCACA	20	
46[124]	50[105]	ACGGTAACTATCGTCTTGAGGGATTAGACCCCGC	34	
11[63]	20[70]	ACGTAGTGGGCCATGGCCGCTATGGCTGATGATAT	35	
6[97]	53[97]	ACTAGAATGTGATGCAATTGCCCGCCCC	28	
37[35]	2[35]	ACTATGGCGAATAGATGCGAATTTTCAA	28	
0[76]	37[90]	AGAGCAGCGGTCATGAGATTATCAAACCAACACGGCTATGAA	42	
29[64]	34[65]	AGATGGGCACCACCCCGGTGACTAAGGTCATGTACTGGG	39	
15[112]	18[119]	AGCACGGTATCACGAGCCATGATGGAAGCAGCCGC	35	
25[64]	15[83]	AGCATCGCCCTCGCCCTCTGGTAGATGGTGGTCAGTCGGCCATTATGA	48	
8[121]	3[118]	AGGCCTATTGTAAGATACACGACGGCGCGAG	31	
15[91]	21[97]	AGGTAGTTGTCCTGATAGCTTCGTAGCGATGTAAA	35	
10[111]	16[112]	AGTGGACGACGTTGGAGTCCATCTCGTT	28	
41[64]	41[90]	AGTTCCGACCCTGCCAACCACCGCTGG	27	
13[91]	6[98]	ATAAGCGGCCATTTCGCCGTCTACAATTAACCACA	35	
30[97]	35[97]	ATACCGAGTCGGTCCGGGCCATCAATGGACCGTAATCATTGA	42	
18[62]	14[63]	ATACTTCTGGTGGTTACGCAGTGACGCG	28	
37[77]	19[90]	ATATGGGCGGCATCCAGCGATGTTTCGCTGTGGCGGCGGTCC	42	#b8056c
42[90]	48[77]	ATCCGGCAAACAGCGGCTACACTAGAAGCCCACGTTAAGGGA	42	
27[84]	26[64]	ATCTGAGCCGCCCATTGCCGGACACGCTGAACTA	34	
44[124]	39[111]	ATGTAGGCGGTGCTACAGAGTCTGCGCCTTCCGTGAACTCC	41	
27[64]	32[70]	ATGTGGCCGTTTACGTCGAGTAGTAGGAAGCTCC	34	
30[69]	30[49]	ATGTGGTCGGGGTAGCGGCTG	21	
10[121]	13[125]	ATTCTTTAATGCCGATTGCTGGTATGATATTCGGCAAG	38	
6[121]	9[111]	ATTGATGAGTTTGGACATACGCCTGTTAAAAGGATTTT	38	
31[98]	19[111]	ATTTCGACAGGTTGCCAGCCGGCCACTC	28	
21[56]	16[63]	CACTGCAGTGGCTGAAGTGCCACCTGGTTTACTTG	35	
12[83]	6[63]	CAGGGGGTTTTAACAAAAAAATGTCAAGCTCTAAA	35	
19[63]	22[63]	CATGCTTAGACGTTCGCCGTACGGGCAG	28	
17[63]	30[70]	CCATGCCGAGAGTGCAGGGCAGGTCAGGTAGCTTC	35	
39[49]	51[62]	CCCCCTGGAAGCTCTAAAGATGAGGTGGATCACAACATAGGC	42	#b8056c
15[49]	38[49]	CCCCGAATTGTAGTGACTAATTGGGGACCTAATTGATGGCGG	42	
14[62]	15[48]	CCCTGTAGCGGCGCATTAAGTCACATTT	28	
47[105]	2[105]	CCGACCGGGGGGTGGGCCCCAACCGGCT	28	#b8056c
7[63]	51[76]	CCTTTAGGGTTCAAAGGTGTGTTCTTCCCCACAGCCCTCCTT	42	
2[118]	45[124]	CGACAAGATGGGGTGGACCGACAGAGCGAGGTAA	34	
18[118]	0[112]	CGCATTGAGCCGGAAACCGGG	21	
5[63]	52[60]	CGGCTTTCCCCGCTCTTTCTCCTGAGGCTCAATCTAAAGTATATA	45	#b8056c
35[98]	48[98]	CGTCAATAGATCCTGGGCGAAGTTTCAG	28	
25[84]	24[64]	CGTCAATGGGGTGGAGTCAGCTTGCCGTAGGTGA	34	#b8056c
39[70]	32[84]	CGTCAGTGGAACGAAAACTCCTGACCCCATTGACGTTTACCG	42	
33[112]	40[119]	CGTTACTGTACTGCGTACTTGGCATATGCAGAAAA	35	
5[98]	5[124]	CTATTGCTTTATTTGTAACCATTATAA	27	
26[125]	21[125]	CTCTGCTAGTCCCGGGCGATGATTCGCC	28	
16[90]	23[90]	CTGGGTACGGCGGTCACGAACTCACCATGGTAAAGTTGGAAA	42	
36[90]	13[83]	CTTAACGCGGAACTTTCTTCTGATCTTGAAAGCAA	35	
38[97]	42[98]	CTTTCAACTAGGGTTTGATCTTAGCGGTGGTTTTTGTTGGTA	42	
52[97]	46[84]	GAAAAGGACCCCCCCGGTAAGACACGAC	28	
50[69]	38[70]	GACGAGCCGAAACCCCGATTGTGCTTTGCATACATATTACTA	42	
19[35]	21[55]	GAGAACTGGTTGCTTGTACTCTGAAGTCGATGAAG	35	
23[98]	11[104]	GAGTCAAAACCGCATCCAGCATTGCTCAGCCCTTT	35	
16[83]	10[63]	GAGTCGCCGCCCTGCACTCAACCAACTTGATTAGG	35	
39[119]	51[125]	GATCCCCTCCGGTATATTGCCAGCCCTGCTCGGTG	35	
19[70]	31[69]	GATGCCGCCTTCTGCCTGCTGAGAAGTC	28	
21[98]	9[104]	GCACGAGAACGCTAGGTTGTCGCGAGCTTTATAAG	35	
3[35]	3[55]	GCATTTATCGCGCCCTAGCGC	21	
19[91]	0[98]	GCCACACGGCGTCGCTATAGAAGGCGGCGCGCTGA	35	
53[112]	53[124]	GCCCTGGGCCTTA	13	
51[35]	1[48]	GCCGCGTTGCTGGCTCTTCCTACAGCCT	28	
44[76]	42[63]	GCGTGGCGCTTTCTCCTTTCTCCCTTCGTTACCGGATACCTG	42	
53[105]	13[111]	GCTGCGACAAGTTATCGGCTGAGATCCTTCCACCA	35	
31[49]	19[62]	GCTGGCGGACTTGAGGGAGCCTGAGATG	28	
1[105]	18[91]	GGCAGGTCAAGTCGATGAATCCAGAAGT	28	
3[84]	51[97]	GGCTTGAGCCTGGCGAGTACGAACGCGG	28	
28[125]	31[125]	GGGCCCGCACTAAAGGCGGGGCTCAGAA	28	
53[84]	5[83]	GGGCCTGATTCATTTTATGTCTTATTTG	28	
1[49]	49[55]	GGGGACTTGCCCAGCAAGTCA	21	
20[111]	23[111]	GGTAGCCGAAGCGGCTGCCAAACCGCTA	28	
33[70]	38[77]	GGTGCAGTCCCACCGTAATTG	21	
49[112]	43[124]	GTCTTTTTTGTCTCTCTGCTGAAGCCA	27	
12[62]	12[35]	GTGACCGCTACACTTGCCAAGGGTTATT	28	
17[112]	32[112]	GTGATCGTGATGTATCAGCCCCGCTGCGAGTCCCGGTCGTTG	42	
23[63]	17[83]	GTGCAGATGAACTTCAGGGACGGTGGGCATCCCGG	35	
49[98]	53[104]	GTGCGTTGTTTATGGCGTATTGGGTGGGGACGTTG	35	
31[70]	30[84]	GTGCTCTGCCAAAGTTATGTGCTAATAC	28	
14[111]	17[111]	GTGGTCGGGGCAGCGGGGTCTGGACCAT	28	
13[35]	18[35]	TATTTGAATGCGCGGCGGGTGTGCCTGCTGGGGGATCCTCAT	42	
1[119]	3[125]	TCAAGCGTCCTGATCCCCTGA	21	
32[41]	36[35]	TCACCTCTTCACCAACTGGGC	21	
20[125]	15[125]	TCAGCAAGGCCGTC	14	#b8056c
2[55]	50[35]	TCAGGACGTTTTTCAAATCGACGAAAGGCCAGGAA	35	#b8056c
23[112]	28[112]	TCCACGCGCCAAAATTTGGAATATATAGGACGGTTCGGTACC	42	
23[91]	27[97]	TCCCCGTCGTCAATGGGGCGGACGCCTATCCGGTA	35	
51[63]	18[63]	TCCGCCCTGGTTCTCCCTAACCCTTTGC	28	
21[35]	14[35]	TCCTCCTCAGCTTGTTCCGCGATTTAGA	28	
33[56]	0[56]	TCCTTGACTAATGCAGATGCATCTGTTG	28	
28[97]	38[98]	TCGAAGCCCTCGCCCTTGCTCGCAGTTTAAAGTCCGCCCAAC	42	
1[98]	4[98]	TCGAATGTCCATCCGAACAGTACAACAA	28	
9[63]	1[76]	TCGACCCCAAAACTACAAATGGTTTTTTAAGTTCATGACACA	42	
36[125]	31[111]	TCTACTTTCATCTCGTGATGGACCCCAG	28	
9[84]	16[91]	TCTATTCGGAACAAATAGACGGTTTTTCGGGCGGA	35	
10[104]	15[90]	TCTTGTTCCAAACTTTTTGATGCACGCTGCCGTAATCTGCTC	42	
5[84]	8[84]	TGAAATTTGCAGTGAAAATATACAAAAA	28	
32[69]	33[55]	TGGACGTAGCCTTCGGGCACCGCCGTCG	28	
45[84]	50[70]	TGGCAGCGAAAGGATCTTCACCTAGACT	28	
29[112]	0[119]	TGGCGACCGGTGGAACTTGATATGGGAAGTCCCGGGGCAGGACAAAAAG	49	
51[77]	3[83]	TTAAATTAAAAAGATGCTCGCTCGATTTCTTTTCA	35	
46[83]	53[83]	TTATCTCGGCTGTGTGCACGAAATGAAGTTTTAAATATGGCA	42	
49[105]	37[118]	TTATTCTCGCCCCTGGTGGAATCGAATC	28	
1[56]	3[62]	TTCCACATTCCGCCCCGCTCC	21	#b8056c
38[111]	27[111]	TTCCGAACTATTGGGGCGGTCCGGATCT	28	#b8056c
47[63]	45[76]	TTCGCTCCAAGCTGTCAGTTCGGTGTAGGCTCACGCTGTAGG	42	
28[90]	28[64]	TTGAGCTCGCCGTCCAGCTCGACCAGA	27	
1[91]	42[91]	TTGGTGGCAGCCGGCAACACCTTAGCCTAACAGTAGCTCTTG	42	
36[48]	30[32]	TTTCCACGGGTGTCCCCTTCAGCTCGATGCA	31	
40[90]	29[90]	TTTCTACTTTACCGATACTCCAACAGCT	28	
43[98]	47[104]	TTTGGTATTCTTGAGGTAACATCCAACCGTTCAGC	35	
48[76]	33[69]	TTTTGACAGGACTACCTCGTGTTAATAAAGAAGAT	35	

Start	End	genie bottle sequences (p7308 scaffold)	Length	Color
–	–	AAAACGCAATAATAACGGAACATCAGACTGTAGCGCGTTA	40	–
–	–	AAAAGAACGTAACACCCTCATAGTTAGC	28	–
–	–	AAAATTTTAGCGCCAGTCTCT	21	–
–	–	AAAGGGGGGTTTTGGGTTGATCCGTTCCAAAAATG	35	–
–	–	AAAGTTTTCTCACCCTCAGCAGCGAAAT	28	–
–	–	AAATCCATATAACTATATGTACAAGAAC	28	–
–	–	AAATTGGGACGAGACCACATTCAACTAT	28	–
–	–	AACAAGCTTCATCAGTTGATTAGAGCAGCACAGGA	35	–
–	–	AACATATAACCAGAAGGAAACCGAGGA	27	–
–	–	AACCAAAAGGAATTTAAAAACAAAAAGCTACCAGT	35	–
–	–	AACGTGGATGAACGCAACCATTATCAGCTTGCTTTAAAAAAG	42	–
–	–	AACTAACGGAACATAGGAATCATTAA	26	–
–	–	AAGGAGCCTTTATACTGAGAATAGAAAGACTTGCAGGGAGTT	42	–
–	–	AAGGCACCAACCTCAGTACAAACTAA	26	–
–	–	AATACTGCCCAGCGGATTTGTTAAATGAATTTTA	34	–
–	–	AATAGCCGAACAAAGTTAAATTGTTTGCCAGCAG	34	–
–	–	AATCAGATTTTATTGGGTATTTGTCTTT	28	–
–	–	AATTGTGTGTCGTCTCAACAGTTTCAGCGGAGTCAGCGATCT	42	–
–	–	ACAAATAAGATTGATGATAA	20	–
–	–	ACAACGCCTGTAGCATTCCAACGTTAGATCATCG	34	–
–	–	ACAGGAGTGTACTGGTAATGGCTTAACGATTATTATTT	38	–
–	–	ACAGTTCCTAAAGTAATCCGCAAAGAGGGAACAACGCTCCAA	42	–
–	–	ACCCTGAACCATAACAACATG	21	–
–	–	ACTCAATAGAAACCAATCAATGAAACCATCGATAGAGAGCCA	42	–
–	–	ACTGGCTGGTAAATTCACCGTCACCGAC	28	–
–	–	ACTGTATGGGATTTTGCTAAATTGCGAACTGACCGACCAGG	41	–
–	–	AGAAAACGTCATAAAAGAAGTGTAATAA	28	–
–	–	AGAAAATGAAATTAATGCGATTTAATAA	28	–
–	–	AGACTAAAGACTTCTGTCAATATAGAATTTC	31	–
–	–	AGATAAGTTTTTAAGAAAACTTTGTGAATTTATCA	35	–
–	–	AGCCCGGAATAGGTGATTGTATCGGTT	27	–
–	–	AGCGTTATACAAATTCTCTGTTTAACCGACCTGACCTA	38	–
–	–	AGCGTTTATGACAAGTGTACAAACTTTG	28	–
–	–	AGGAATAAACACCAATAACAAAGCTGCTTATGCAA	35	–
–	–	AGGTGGCAAGAACTGGCATGAAACCGCCCCTCAGACCAAATC	42	–
–	–	AGTAATTCACCGGACAACAGTAGTTAATTTTCCCT	35	–
–	–	AGTCAGATTGCTATCCTGAGCAAAAGCGCAAGAAA	35	–
–	–	AGTGCCGTCGAGAGCTCAGTAAAGGATTTTAAGAGCCTATTA	42	–
–	–	AGTTTCCTAAAGTACCGACATCTTAATT	28	–
–	–	AGTTTGAAATGTATCATTTACCAGGAGGGGG	31	–
–	–	ATAAAGCGCCATATGAGAATAATTAAAC	28	–
–	–	ATACGTACGAGCCATTTGCCAACGACGAACGAGGC	35	–
–	–	ATAGCAAGCCCAATCCACCCTCATTTTCCCGCCACCCTCAGA	42	–
–	–	ATCAAAAAGCGTCCTAATAGT	21	–
–	–	ATCACGTTGAAAATCTCCAACGAGGTGGCCGACAGCCATCTCCACCGG	48	–
–	–	ATCCCAATACAAAAATTTGCC	21	–
–	–	ATCCTAATCCTGATCCAGCTAAGCGTCTTTAACAA	35	–
–	–	ATCGCAAGACAAAGTTAATTTGGCTTATCCGGTTGCATCGAG	42	–
–	–	ATCTTACCGAAGCCCTTTATGTAGCGATAATATCGAAGCCTTTATCAA	48	–
–	–	ATGCTGATGCAATTTAAGCAAGCAATAGTAAGAGCAAC	38	–
–	–	ATTATTCGGTCGCTGAGGCAGAAAGCGCCTCAGAAATTGGCC	42	–
–	–	ATTCATCGGCATTTTCGGTCGCATAACCGATAAAGTATAA	40	–
–	–	ATTGCTTTGAAACAAAATTAAGTTAGAACCTACTTCATTTGG	42	–
–	–	ATTTGAATTACCTTTTTTACGGGAGAAA	28	–
–	–	ATTTGCATTCAGGTCATAAAT	21	–
–	–	ATTTTAGAACGCGACCTCCGGCTTAGGTGTACCGC	35	–
–	–	CAAAATTATTCCCATCAAGAG	21	–
–	–	CACAAAGCGAAGGCTTGCCCTGCTTGAG	28	–
–	–	CACCAGTCACCAATAATCGGCAAACCAATGGGTTA	35	–
–	–	CATCAATTAAACAGAGAGCCTAATTTGCCAA	31	–
–	–	CATCCTAATTTACGCCACAAGTGAGCGCCACGGGA	35	–
–	–	CCAGGCGGATAATAAGTTTTA	21	–
–	–	CCAGTCCGAGTAGTTCAGACGCCGCCACTCCCTCACCTTATT	42	–
–	–	CCATAAAAACAGGGAGATGATATTATAC	28	–
–	–	CCCTCAGAGAGCCATTTCATAATCAAAAATACCGA	35	–
–	–	CCTTATCAAGGCCGATCTACGTTTAAGAATGGTTTTTGACAG	42	–
–	–	CCTTTACAGAGAGAATAACATTTTTGTT	28	–
–	–	CGACTTGATTTCCTGATTATCAAGCGCA	28	–
–	–	CGCCCACATAGCCCGAGCCGCTACCCAA	28	–
–	–	CGGATATCGCATAGTAGTTGCAATTTCTTAAACAG	35	–
–	–	CGTCGCTATTAAGGAACCTTGCTTTTTCCTACAGAGGCTTTGAGA	45	–
–	–	CGTTGGGAGAAAGAAAGCCGTTATAGAACATCTTC	35	–
–	–	CTTTTACATATGGAAACAGTA	21	–
–	–	GAAAACATAGCGAACTGTCCATGTGAGTAAATTGCACAGACA	42	–
–	–	GAAACGCAAGGGCGACTTAAGAAAAGTAAGCAGA	34	–
–	–	GAAAGTAAGGATTACCATATAATTATCATCATACCGAATTTA	42	–
–	–	GAACAAACAAATAACGGGAGGGCGTTTTTAAACAA	35	–
–	–	GAACAAAGAACGAGAGCTATAATATACA	28	–
–	–	GAACCGCCACCCTCTTAGTACCGCCACCTCACCGTACTCAGG	42	–
–	–	GAAGAGTCAATATTAATGCAGACGACAAAGCGAACCAGAAAT	42	–
–	–	GAATTAACTGAACACCCTGCC	21	–
–	–	GACCTGCCCTGATAACTCATCAAGAGGCGGGTAAA	35	–
–	–	GAGAATCCAACGCTATCATAAGCGTTAA	28	–
–	–	GAGAATGCTAATGCAGATACATAACGGA	28	–
–	–	GATGAAACAAACATCAAGAAAATTCATT	28	–
–	–	GCAAAATTTGAGCCATTGAGGAAGACAAAAAGACA	35	–
–	–	GCATCGGAACGACATTGAATCCCCCTAGGAAAAAG	35	–
–	–	GCTAACGCAATTTTGCGAATTTACCAAG	28	–
–	–	GCTGGCTCATAAGGCCGGAACCAACGGAATTATAC	35	–
–	–	GTAACCAAGGAACCCATGTACTAGGGTAGCAACGGATGAGGA	42	–
–	–	GTAGGCTTTTGCAAATATTCACTAAAAC	28	–
–	–	GTGTGATAAATAAGTTACTAGCAAAATAGCGAGAACAATTCT	42	–
–	–	GTTTACCAGCGCCAGAGGGAACATTATA	28	–
–	–	TAAAGGAACAACTTTTTCCAGCAGACAGCTGAGTT	35	–
–	–	TAACGTCAGTAAGCGAGCGGAACAGTTG	28	–
–	–	TAATAAGAGCAAGAAACAATTAGATAACAGCATGT	35	–
–	–	TACAGGTAAGAAAAGAAACGTAGCACCA	28	–
–	–	TACTTAGGAACCGAATAATAATTTTTA	27	–
–	–	TCAACCGATTTGGGAATGAAATAGCAATAGCTAA	34	–
–	–	TCAATTATTTGCACTGTTTGGGGCAATTCCAGAAGGTCATAC	42	–
–	–	TCATTAACTGGAAGAACAAATGCTTTAAACGCGAGTTGATTT	42	–
–	–	TCATTACGCCACCAGAGGTTGATAAGTT	28	–
–	–	TCCATGTTTTTAAACATTCAGTGAATGA	28	–
–	–	TCCTTATTACGCAGCGGAACCAGCCGCCCAAGAACTTGCATCTGTAGCT	49	–
–	–	TCGTCACAAAACGATTTGACCCGGAATC	28	–
–	–	TCTGAGAGACTACCTCCTGAACGCCTGTTAAATCA	35	–
–	–	TGCCCCCTGCCTATCAGATGATTCATAT	28	–
–	–	TGCCTTGAGTAACCATTCTGCGAAACCA	28	–
–	–	TGGAAGGTTACATTTAACACGAAAAGAT	28	–
–	–	TTAACAACGCCAACATGTAATTTAGGA	27	–
–	–	TTAACGTTTCGGAAGCTGAGACTCAGTGCCCGTAT	35	–
–	–	TTAAGACAAATACATACATAACCACGGAAGGCAGG	35	–
–	–	TTACCATTGAATTAATTGACGTCATATGTATTTTGACGTAGA	42	–
–	–	TTAGAGAATCAAGATATTCACGTAATCA	28	–
–	–	TTAGCAATCACAATGCCAGCAAATTTCA	28	–
–	–	TTCAGCTCAAATATATAAGAATAATAGCTTAGATT	35	–
–	–	TTCATCGACATTATTATAGTCAGAAGGAGGTCTTT	35	–
–	–	TTCTGAAGTAGATTCGTAAAACTAATAA	28	–
–	–	TTCTGCCAGATTAGGGGTAATAATTGAG	28	–
–	–	TTTCATTGCCCGCTTTTGCGGGATCGGAACGGTGTAGCCAGA	42	–

Start	End	six-helix bundle sequences (p7560)	Length	Color
3[392]	1[405]	AAAACGAGAATGCCATGCTTTAAACAGTCAATTGAATCCCCC	42	
5[294]	2[294]	AAAAGAACCCTGTAATCGGTTGTACCAAGCAAAATTAAGCAA	42	
2[419]	5[419]	AAAAGAAGTTTTAAAGACGACGATAAAATCATAACTACGTGA	42	
3[896]	1[909]	AAACAATGAAATAACCCAATAATAAGAGTACAAGAATTGAGT	42	
2[209]	5[209]	AAACGTTAATATCCAAAAACAGGAAGATGATAATCAGTTGCA	42	
5[798]	2[798]	AAAGAGTCATCTTTTCATAGCCCCCTTAACCGTCAGACTGTA	42	
4[909]	0[896]	AAAGCAATAGCTATTTGCTGGTAATATCAGAGATAACCCAAG	42	
3[1064]	1[1077]	AAAGCCTGTTTAGCGAATCATAATTACTCCATAAGAATAAAC	42	
3[140]	1[153]	AAAGCGCCATTCCGTGGTGCCGGAAACCCCTTTCCGGCACCG	42	
1[364]	4[364]	AACAAATATCGCGTAAGCAAACTCCAACGACTCCATATTATA	42	
4[1203]	0[1190]	AACAGAAATAAAGAGACAGAAGATAAAACTACTTCTGAATAAA	42	
0[475]	3[475]	AACATTAAATCGGAATTTCAACTTTAATTGGCTCATTATATA	42	
2[251]	5[251]	AACCGTTCTAGCAAAGGCCGGAGACAGTGATTCAAAATCCT	42	
4[1035]	0[1022]	AACGCGCCTGTTTAACACGACCAGTAATAGGTAAGTAATAT	42	
3[854]	1[867]	AAGACACCACGGCAACATATAAAGAAAAAATACATAAAGGT	42	
4[153]	0[140]	AAGCCATTCAGGCTGTTTTTCTTTCACACTCCAGCCAGCAG	42	
2[1175]	5[1175]	AATAACGGATTCAAGAATATACAGTAACTCAGGTTAAAATAC	42	
1[1120]	4[1120]	AATAATTAATTTTCAGATTAAGACGCTGGCTATTAGAAACAG	42	
4[993]	0[980]	AATCAGATATAGAAATCGTCTGAAATGGAAGCAAGCCGTTT	42	
0[223]	3[223]	AATCAGCGTCCACGTATGTACCCCGGTTTGTATAAGCAAATA	42	
5[756]	2[756]	AATCCTGGCAGAACACAAACAAATAAAGCGAGGTTGAGGCA	42	
2[1133]	5[1133]	AATCGTCGCTATAATAAATCAATATATGTTTAATGGTCTTTA	42	
4[321]	0[308]	AATGGCATCAATTCAGATAGGGTTGAGTCGCAATGGTCAAC	42	
3[1148]	1[1161]	AATTAATTACATATCAAACATCAAGAAAAAAAAGAAGATGAT	42	
5[168]	2[168]	ACAGCTGTATCGGCTGCCAGTTTGAGGGTTACGTTGGTGTAG	42	
3[728]	1[741]	ACAGGAGTGTACCCTACATGGCTTTTGATCGTTCCAGTAAGC	42	
5[420]	2[420]	ACCATCAGCGTCCAAATAGTAAAATGTTTAAGAGGCTTTTGC	42	
1[784]	4[784]	ACCGGCATTTTCGGTCATAATCAAAATCGAGGCCACCGTAAT	42	
4[531]	0[518]	ACCGGTCAATCATACGGCGAACGTGGCGTAAATTGTGTCGAT	42	
3[1106]	1[1119]	ACCTTTTTAACCCATCATAGGTCTGAGATTAGTGAATTTATC	42	
0[181]	3[181]	ACGACAGATTGCCCACAACCCGTCGGATATGGGATAGGTCTC	42	
3[518]	1[531]	ACGAGGCGCAGACACCATGTTACTTAGCTCAAATCCGCGACC	42	
1[490]	4[490]	ACGAGTAATCTTGATAACAAAGCTGCTCCCCCGATTTGAAAG	42	
2[83]	5[83]	ACGCTCGCCCTGCTCAATGTCCCGCCAAGAATTGTAGCTGCA	42	
1[1036]	4[1036]	ACGTAATTTAGGCAAAAGTACCGACAAAAAAAAGGGTAAAGCC	42	
1[1078]	4[1078]	ACTAGTTAATTTCACGACCGTGTGATAATGAAAGCAATGCTG	42	
4[573]	0[560]	ACTCCATTAAACGGCGGGCGCTAGGGCGCGAGGGTAGCAAAG	42	
0[895]	3[895]	ACTCCTTATCGGCCCTTACCGAAGCCCTGTTACCAGAAGGAG	42	
1[238]	4[238]	ACTGATAAATTAATCAAAGGCTATCAGGCAGGCGAAAGGGTG	42	
5[42]	2[42]	ACTGCCCGAAATTGTCATGGTCATAGCTAAACGGAAGGATCCC	42	
4[867]	0[854]	AGAATAAGTTTATTATAACATCACTTGCCGTAGAAAATACAG	42	
0[349]	3[349]	AGATTTAAGTCCACTTAATTGCTGAATAAACTAAAGTACGGG	42	
5[462]	2[462]	AGCACTATTACAGGAAAACGAACTAACGAGCCAGTCAGGACG	42	
2[923]	5[923]	AGCGCATTAGACAGTAGCAGCCTTTACATAACGTCATATTAC	42	
4[237]	0[224]	AGGCATGTCAATCACTGGTTTGCCCCAGTCATTGCCTGAGTA	42	
5[378]	2[378]	AGGGCGAAGACCGGTTTAATTCGAGCTTTCATTAAGAGGAAG	42	
1[952]	4[952]	AGTAGTTGCTATTTCCAACGCTAACGAGCATGGAAACGCGAG	42	
2[629]	5[629]	AGTGAGAATAGAGTATGGGATTTTGCTAAGTAAATTTAATGC	42	
4[489]	0[476]	AGTGAGATGGTTTAACCCTAAAGGGAGCATTCAGTGAATAAC	42	
4[1161]	0[1148]	AGTTAACAATTTCAAGCCCTAAAACATCATTACCTGAGCAAA	42	
5[672]	2[672]	ATAACGTACACTGAGCCCAATAGGAACCATCCTCAGAGCCAC	42	
3[980]	1[993]	ATAGCAAGCAAAATGAATCATTACCGCGATTTTATTTTCATC	42	
3[266]	1[279]	ATATTTTAAATGAAAATTTTTAGAACCCCTTCAACGCAAGGA	42	
3[182]	1[195]	ATCAACATTAAACCTTCCTGTAGCCAGCGATAATTCGCGTCT	42	
0[1231]	3[1231]	ATCAATAAACACCGGAACGTTATTAATTAACAAAGAAACCGA	42	
0[1189]	3[1189]	ATCGCGCACCACCAAATTGCGTAGATTTAGTACCTTTTACAT	42	
3[224]	1[237]	ATCGTAAAACTAAAGAGAATCGATGAACGTAGTCTGGAGCAA	42	
4[69]	0[56]	ATCTCTGACCTCCTAGTCGGGAAACCTGGCACGAATATAGTT	42	
5[1134]	2[1134]	ATGCGCGATAGCTTCCTTAGAATCCTTGACCTTGCTTCTGTA	42	
2[167]	5[167]	ATGGGCGCATCGTCGCGGATTGACCGTATCTCCGTACGGGCA	42	
0[1105]	3[1105]	ATGGTTTCACAGACTGGGTTATATAACTGACAAAGAACGCCT	42	
1[826]	4[826]	ATGTAAATATTGACTCACCGACTTGAGCCGTTGTATCATATG	42	
4[1077]	0[1064]	ATGTATCATATGCGGAACCCTTCTGACCATAAGGCGTTAAAG	42	
0[307]	3[307]	ATTATGATAGCCCGTACTAATAGTAGTACAAAGAATTAGCGC	42	
0[643]	3[643]	ATTTTTTCAGGGCGTCTTTCCAGACGTTAACAACTTTCAATA	42	
2[1049]	5[1049]	CAACGCCAACATGACTCAACAGTAGGGCACCAGTAACATTCT	42	
3[1232]	1[1245]	CAACTCGTATTACAACTTTACAAACAATATGATTTAGAAGTA	42	
0[727]	3[727]	CAAGAGAGATTAAATTAACGGGGTCAGTATGCCCCTGCCAT	42	
2[1007]	5[1007]	CAATAATCGGCTAGAATATCCCATCCTAGTCCTGAACATTGG	42	
4[783]	0[770]	CACCACCCTCAGAGTTTTTATAATCAGTACCGGAACCAGACT	42	
2[671]	5[671]	CACCCTCATTTTACAGAACCGCCACCCTTTTAGTAAGCACGT	42	
5[1008]	2[1008]	CAGATTCAGTACCGCATTCCAAGAACGGTTGTAGAAACCAAT	42	
5[1218]	2[1218]	CAGTATTTAATCCTATCAGATGATGGCATCACCAGAAGGAGC	42	
0[1147]	3[1147]	CATAGCGAACTGATTTTGAATTACCTTTTGAGTGAATAACAA	42	
3[560]	1[573]	CATGAGGAAGTTAAGAGGACTAAAGACTAACGGCTACAGAGG	42	
4[741]	0[728]	CATGGTAATAAGTTGGGATTTAGACAGTCTGAATTTACCCT	42	
0[769]	3[769]	CATTAAAAGAAGTGCCACCACCCTCAGACAGCATTGACAGCA	42	
3[56]	1[69]	CATTTCTCCGAAGAGACGCATTTCACATGTGGGCCTTGAATC	42	
5[966]	2[966]	CATTTTGAATCTTATGCACCCAGCTACACCCGGTTTGAAGCC	42	
4[657]	0[644]	CCAAAGTTTTGTCGCGTACTATGGTTGCACAAACTACACTA	42	
1[658]	4[658]	CCCAGGGATAGCAAGTTTCGTCACCAGTTTTGACGCCGCCAC	42	
2[377]	5[377]	CCCGAAAGACTTTTGAAGCAAAGCGGATCCCTGACACGTCAA	42	
3[770]	1[783]	CCCTCAGAACCGGTCCTCCCTCAGAGCCTCGCCACCACCGGA	42	
0[601]	3[601]	CCCTCAGCTGCGCGCTTGATACCGATAGGCATAACCGATAGC	42	
4[195]	0[182]	CCTGTGAGCGAGTATTCACCGCCTGGCCCGCCATCAAAAACG	42	
0[55]	3[55]	CCTGTGTCTTTCCGGTTGGTGTAATGAACCTCGATAAAGAT	42	
5[1176]	2[1176]	CGAACGAAGAGGCGTGAATACCAAGTTATTATCGGGAGAAAC	42	
2[881]	5[881]	CGCAATAATAACCAGATAGCCGAACAAATTTTAAGGAAGAAC	42	
5[924]	2[924]	CGCCAGCGTAATTGTGAACACCCTGAACCATAAAAACAGGGA	42	
4[111]	0[98]	CGCGCACGACTTAAAACGCGCGGGGAGACCAAGCTTTCTCCC	42	
0[811]	3[811]	CGTTTGCCTGTCCAATGAAACCATCGATGTTTGCCTTTAGCA	42	
4[1245]	0[1232]	CTAATCCTTTGCCCCCTGCAACAGTGCCAATACATTTGAGTC	42	
1[574]	4[574]	CTGAGTTAAAGGCCAGACAGCATCGGAACTGGCAAGACAATG	42	
0[97]	3[97]	CTGCCATATCGGCCGTGTCCTTAGTGCTAATAACCCCGCTGT	42	
0[433]	3[433]	CTGGATACCCAAATTAAGAGCAACACTAACCAAAATAGCGAC	42	
1[154]	4[154]	CTTAACCGTGCATCCTCAGGAAGATCGCCAGTGAGGGGAACA	42	
4[615]	0[602]	CTTTTCTTAAACAGTAACCACCACACCCAAAGGCTCCAAACA	42	
5[546]	2[546]	GAAAGCGGAGATTTACCAAGCGCGAAACTTACACTAAAACAC	42	
5[336]	2[336]	GAACAAGGTTTGACCCAATTCTGCGAACGAGTGTCTGGAAGT	42	
1[1204]	4[1204]	GAATATTCCTGATTGATTGTTTGGATTAAGAGGTGTTTGAGT	42	
2[503]	5[503]	GACCTTCATCAAGACAGATGAACGGTGTACCAACTTTAGAGC	42	
1[1162]	4[1162]	GAGCCTGATTGCTTAATTATTCATTTCAGCCATTATAACGTC	42	
3[308]	1[321]	GAGCTGAAAAGGCATATTTTCATTTGGGAAATAACCTGTTTA	42	
2[587]	5[587]	GAGGCTTGCAGGTTCAACCATCGCCCACTTGCGCCGTGTAGC	42	
2[839]	5[839]	GAGGGAGGAAGCAACCAGCGCCAAAGAAGAAAATGCAATAC	42	
1[322]	4[322]	GCAACAGTTGATTCCATTAGATACATTTGTTGTTCGTAGCTC	42	
5[210]	2[210]	GCAAGCGTCATTTTCGCATTAAATTTTTGGTATTTAAATTGT	42	
1[700]	4[700]	GCACATGAAAGTATGGATTAGCGGGGTTGCGGGAGGTAACAG	42	
4[951]	0[938]	GCATCCAAATAAGAACAGGAAAAACGCTCGTCTTTCCAGAAG	42	
3[434]	1[447]	GCCAAAAGGAATATCTAATGCAGATACATAGGAATACCACAT	42	
5[630]	2[630]	GCCGCTACACGTTGAAGGAATTGCGAATGTCAGTTTCAGCGG	42	
0[391]	3[391]	GCGAACCAAAACCGAAATCAGGTCTTTATGCATCAAAAAGAG	42	
2[797]	5[797]	GCGCGTTTTCATCGAGCGACAGAATCAAAGCAGCACCGAGTA	42	
3[644]	1[657]	GCGTAACGATCTTCAGACAGCCCTCATAAAGCCTGTAGCATT	42	
3[1022]	1[1035]	GCTAATGCAGAACGCAATAAACAACATGGTTCTGTCCAGACG	42	
2[125]	5[125]	GCTGCAAGGCGATGCCTCTTCGCTATTAAAGGGCGTGCGTAT	42	
2[1217]	5[1217]	GGAATTATCATCACTTATCATTTTGCGGTTAAAAGAGGCGGT	42	
5[714]	2[714]	GGAGGCCAGGATTATAAGAGGCTGAGACTGTATTTCGGAACC	42	
5[1050]	2[1050]	GGCCAACAGAATATGAGGCATTTTCGAGAGCGCCATATTTAA	42	
1[70]	4[70]	GGGAGTGACTCTATCAACTCGTCGGTGGTCGTGCCCAACCTT	42	
1[868]	4[868]	GGGGAATACCCAAAAGTATGTTAGCAAACTGAGTAAAAAGTA	42	
5[588]	2[588]	GGTCACGCAGCGAAGCTTTTGCGGGATCTTTATTCGGTCGCT	42	
2[755]	5[755]	GGTCAGACGATTCAACCAGAGCCGCCGCCGCCGCCAACGCCAG	42	
1[112]	4[112]	GGTTAAGTTGGGTAAACGACGGCCAGTGGGCGGTTATCGGTG	42	
1[196]	4[196]	GGTTTGTTAAAATTTTAACCAATAGGAACTGAGAGAGAAAAG	42	
3[476]	1[489]	GTAAATTGGGCTGAGAAACACCAGAACGGAAGGCTTGCCCTG	42	
3[686]	1[699]	GTATAGCCCGGACCTCGAGAGGGTTGATCAAGGCGGATAAGT	42	
4[363]	0[350]	GTATGGCTTAGAGCTATTAAAGAACGTGAGGTCAGGATTAGT	42	
4[825]	0[812]	GTGAAACGTCACCATCACGCAAATTAACCATTTGGAATTAG	42	
0[853]	3[853]	GTGAATTATTAGTATTGTCACAATCAATCAAAAGGGCGACCA	42	
1[742]	4[742]	GTGGCCTTGATATTTGGAAAGCGCAGTCGAACGGTCCAGAAC	42	
1[994]	4[994]	GTGTCTTTCCTTATCACTCATCGAGAACATTATTTACAAGAA	42	
5[252]	2[252]	GTTTGATAGATCTAGCCGGAGAGGGTAGTCAATATGATATTC	42	
0[1021]	3[1021]	TAAACCAACCAGTCTCAACAATAGATAAATTTACGAGCATCA	42	
2[293]	5[293]	TAAAGCCTCAGAAATCATACAGGCAAGGGCATTAAATAAATC	42	
4[405]	0[392]	TAACCATAAATCAATCTATCAGGGCGATTCATAAATATTCAA	42	
0[1063]	3[1063]	TAATAAAGAGAGATATTATACAAATTCTTTTAATTGAGAATAA	42	
0[559]	3[559]	TACAACGAAAGGAGGTAAAATACGTAATAGGCAAAAGAATTT	42	
4[279]	0[266]	TACAATGCCTGAGTCCGAAATCGGCAAAGAAGCCTTTATTAT	42	
0[517]	3[517]	TACCCAAGGAAAGCAGGGAACCGAACTGACAGACCAGGCGGA	42	
0[685]	3[685]	TACCGTAGCTTTCCCCGTACTCAGGAGGCAGAACCGCCACAA	42	
5[1092]	2[1092]	TACGTGGGAAATACTCTTCTGACCTAAAGAGAGAAAACTTTT	42	
1[280]	4[280]	TAGCATAAAGCTAAATACTTTTGCGGGAATCCCTTCATCCAA	42	
1[910]	4[910]	TAGGGAGAATTAACAGCGCTAATATCAGCAGAACAAAAAATG	42	
4[1119]	0[1106]	TATCCGGCTTAGGTAATATTTTTGAATGAGAAGAGTCAATTA	42	
0[979]	3[979]	TATCCTGACGCTCAGGCTTATCCGGTATCGACTTGCGGGACA	42	
2[713]	5[713]	TATTATTCTGAACGCGTATAAACAGTTAGCCTTGACTAAACA	42	
5[882]	2[882]	TCAAACTATTACGCAGAACTGGCATGATCAAAACCGAGGAAA	42	
2[1091]	5[1091]	TCAAATATATTTCGAAATCCAATCGCAAATATGTAGTAAGAA	42	
0[139]	3[139]	TCACGACCAGGGTGGCGCAACTGTTGGGCGCCCAGCTGGCGGC	42	
0[937]	3[937]	TCAGAGGCATTGCAAACGATTTTTGTTGAGAGAATAACATA	42	
1[448]	4[448]	TCATCTACGTTAATTAGAAAGATTCATCTCGAGGTAATTACC	42	
2[545]	5[545]	TCATCTTTGACCCTACCTAAAACGAAAGGCCACTAAAGGGAA	42	
3[350]	1[363]	TCATTTTTGCGGCAGCTCCTTTTGATAAGAGAGAGTACCTTT	42	
1[406]	4[406]	TCGCCAGAGGGGGTATACTGCGGAATCGGGCCCACCCTCGTT	42	
4[699]	0[686]	TGATAGGTGTATCATCGTTAGAATCAGATTGCTCAGTACCTG	42	
1[532]	4[532]	TGCCCAGCGATTATGTATCATCGCCTGAAGAAAGGCGAAGGC	42	
5[126]	2[126]	TGGGCGCGTTGTAAACGCCAGGGTTTTCAGAAAGGGGGATGT	42	
3[98]	1[111]	TGTGAATTCATGGGGATGTTCTTCTAAGGGAGGAGAAGCCAG	42	
2[965]	5[965]	TTAAATCAAGATTTTTTAGCGAACCTCCTCTAAGAATACCTA	42	
1[616]	4[616]	TTAAGGAACAACTAAAAATCTCCAAAAAGCCGCGCGAATTTT	42	
5[84]	2[84]	TTAATGACTGTAAGGATACCGACAGTGCTGTCTAATCTATTT	42	
3[812]	1[825]	TTAGCAAGGCCGTTCCAGTAGCACCATTTTAGAGCCAGCAAA	42	
3[938]	1[951]	TTATTTATCCCAGTACAAAATAAACAGCAAGCCTAATTTGCC	42	
2[335]	5[335]	TTCATTCCATATTATGTTTTAAATATGCTAATGCTCAGTTTG	42	
5[840]	2[840]	TTCTTTGATCACCGGGAAATTATTCATTCGATTCAACCGATT	42	
5[504]	2[504]	TTGACGGATCAACGCAAGAACCGGATATCGCATAGGCTGGCT	42	
3[1190]	1[1203]	TTGCACGTAAAACACTACCATATCAAAACAATGGAAGGGTTA	42	
2[461]	5[461]	TTGGGAAGAAAAAAGCGATTTTAAGAACCATTGTGGCCGTAA	42	
4[447]	0[434]	TTTACGAGGCATAGCAAGTTTTTGGGAGTTGAGATTTAGA	42	
3[602]	1[615]	TTTCGAGGTGAAGTATCGGTTTATCAGCGTAGGAGCCTTTAA	42	
0[265]	3[265]	TTTTGAGGGTGGTTAATGTGTAGGTAAACAAATCACCATCAT	42	

Start	End	six-helix bundle staple sequences (pEGFP)	Length	Color
–	–	GACTAATCGGAACAAACCGGGCGCCCCTGCATTCAGGGCACCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGACAGCTGAGATGCAGCCACGATAGCCGTCTTGCAGTTCTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACGCCCGTCGTGGCCATGCTTTGCATACTCCTGCCCCGGCGCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CAGTGACAACGTCGGCCAGTCCCTTCCCGCACTTCGCCCAATATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGCATTGCATCAGCGAGATGACAGGAGATTCTGCCGCAAGGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATGCAGCCGCCGCAAGCACAGCTTCGAAGGTGGGCTGCTGGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GAGCCTGGCAAGGTCATGATGGATACTTTCCGGATCAAGCGTATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGCAGGAGGGACTTGCGATGTTTCGCTTTGGGCAGGTAGCATATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGTGCTCGCTCGATTCCACACCTGGTTGAACAGTTCGGCTTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCTGATCGACAAGAGCTCTTCGTCCAGATCGGCGCGAGCCCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGATCGCCATGGGTCCTTGAGCCTGGCGCTGACTACCGAGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGGCAAGCAGGCATCCGGCTTCCGAAAAATCCAATATTGAGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGCATGCATGCTCGCACGACGAGATCCTTCCACCATGATATTATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTCGGGCTTTGCATGCCACAGTCGATGAGCGGCCATTTTCACATTCCGCATAAGGGCTAGTCC	63	–
–	–	GCCACACCCAGCCGACTTCTGCCTGCTGAGGAAGCGGTCACCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGGTAGCCAACGCTGCTCTTCAGCAATACGGCCCATTCGCCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCAAGAAGGCGATATACCGTAAAGCACGGGGAGCCGCGGTCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GAAGAACTCGTCAAATGTCCTGAGGTCATGGTCTATGGGGACATTCCGCATAAGGGCTAGTCC	63	–
–	–	TTTCCACGCGGCGAGAAGGCGATGCGCTGCGAGTCCCGCTCAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATCGGGAACCCTAAGGTTGGGCGTCGCTTTTCGAACCCCACCATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATCTCGTGATGGCACTGACACACATTCCCTGGAGGATCATGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	AACCTTTCATAGAAAAAACGATTCCGAAGCCCAGCCGGCGTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCGTGTTTCAGTTAATGAGATCCCCGCGACAGCTGAATCGAAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TTGTCTCCTTCCGGGGCGGCGGTTGCCGTTTATGGGTTCTTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCGCCTCCTCCAGCGCCTCCCCCTAGGGGCTTCCTTCCGGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGAAGAAAGGACTCTTTTATTCTGTCTTTCATAGCGCGGGCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCCAACACCGTGCGTTCCTTTTTCAATATTGGCCCCAATGGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGGGACCGAACCCCTCGACAGAGTGCCATGGGGTCTCGGTGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGCTGGGCCTTCACGAAACGCGGGCGTATTATTGACAAACGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGGCTGCGAGCCTAGCGTTTATGGGCTACCTGAAAAGCATTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATCAGGGAAAGGAACCGAACTTGGGGGGCTCCGCCCCGACGTATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTGGGGATTATTGTGTATATATGAGTAATGGCAGGGCCTGTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TAAATCAATCTAAACTCATGAGCGGATACTCACGTTAAGGGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACCTAGATCCTTTTTTATCAAAAAGGATTGGATTTTGGTCATATTCCGCATAAGGGCTAGTCC	63	–
–	–	GAGATCTCAAGAAGCAGTGGAACGAAAACATATTTGAAGTTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	GCAGAAAAAAAGGAAAATTAAAATTTTTGGTGGATGAATGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TTTAGAATGACGCTATCCTTTGATCTTTGCAGCAGATTACGCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGGGGTCAAATAAACCACCGCTGGTAGCTTGTTTGCAAGCCAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATCCGGCAAACAAACAAATAGGGGTTCCCTACACTAGAAGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTTACCTTCGGAAATGCGCTCTGCTGAATCGACAGTATTTGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	TAGCAGAGCGAGGTTGGCCTAACTACGGGCGCACAGCTCTTGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTAACAGGATTATCAAGAGTTGGCGACTAGACATATTTCCCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GAAAAGTGAAGTGGATGTAGGCGGTGCTACCAGCAGCCACTGATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGTTCTTGCCACCTAGTCCAACCCGGTATATCGCCACTGGCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TAACTATCGTCTTGGACGCGCCCTGTAGTTCGGTGTAGGTAGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCCGTTCAGCCCGAGGCTGTGTGCACGAACCGTTCGCTCCAAATTCCGCATAAGGGCTAGTCC	63	–
–	–	GCCCTTTCTCCCTTTGTAGGTATCTCAGCGGCGCATATCCGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GATACCTGTCCGTGCCGCTGCGCCTCTCGTGCGCTTTAAGCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGGCGGGCTCACGCCGGGAAGCGTGGCGTCTGCCGCTTACCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CTCATAGTGTGGTGCTGGAAGCTCCCTCCTGTTCCGACCCAGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCAGGCGTTTCCCCGTTACGCGCAGCGTGCTCCGCCCCCCTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGGTGGCGAAACCCAATCGACGCTCAAGCTTGACGAGCATCAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CAAAGGCCAGCAAAGCGTTTTTCCATAGGACCGCTAAAGATAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACATGTGAGCAAAAGACAGGACTCACAGTTATCATACACTTGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCAGCGCGTTGCTGAGGCCAGGAACCGTGGACGCAGGAAAGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGGCCGCCCTAGCGTGGCGGTAATACGGAATCAGGGGATAGCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TAATAACTAATGCACCCGCTCCTTTCGCGGGCCATTTACCAAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TATGAACTAATGACGGAACTCCATATATAAGTAAGTTATGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACGGGAACATACGTGCGGTCAGCCAGGCTTTCTTCTTACTATATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGGCGTTACTATGCCCCGTAATTACCCAACTCCGACCTTCCTATTCCGCATAAGGGCTAGTCC	63	–
–	–	TTCTCGCTCGTTGGCATTATTGACGTCAATGAAAGTCCCTATATTCCGCATAAGGGCTAGTCC	63	–
–	–	GCGGGGGCACGTTCAGTTTACCGTAAATTTGACGTCAATGAGATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACTGCCAAGTGGGCGCCGGCTTTCCCCGTGGGCATAATGCGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGGGCGTACTTGGCCGTCATTGACGTCAATCAGGCGGGCCATATTCCGCATAAGGGCTAGTCC	63	–
–	–	TTAGCGATGACTAAATAAGGTCATGTACTCAAGCTTTGATGTATTCCGCATAAGGGCTAGTCC	63	–
–	–	CACCATGGTAATACATATGATACCGCCCATCCAACCTAAATCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGGGGCTAAGTCCCTACGTAGATGTACTCACCAAAACCGCATATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGTAGGACCCTTTATGAGTCAAACCGCTATTGATGTACTGAAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CTTGGAAATCCCCGGGGTTCCGATTTAGGAGTTGTTACGACAATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACAAACTCCCATTGGTTGATTTTGGTGCGCCATTTTGGAAAGATTCCGCATAAGGGCTAGTCC	63	–
–	–	TCTCTGCTTATATAGCGTCAATGGGGCGTGCTTTAGTGGAGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CACTAAACCAGCCCACGTCAATGGTCCGTCTGAGGCGGCACCATTCCGCATAAGGGCTAGTCC	63	–
–	–	TCGACCCCCCATTTGACCTCCCACCGTAGGGATCTGACGGTTATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCTACCGCAAAAAAGCTTGAGCTCGAGAGTAGCGCTAGCGCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CTGCAGAATTCGAACTTGATTAGGGTGACACCACCCCGGTCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	ACCGGTGGATCCCGTTGCTCACCATGGTCAGAACAGCTCCTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GCCGCCGGACACGCTCGACCAGGATGGGTGGTTCACCGTCGAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGCCCTCGCCCTCCGGCCCGCGGCTTCAATGAATACGTAGTGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGCCATCGTCCAGCTGAACTTGTGGCCGCACGTAGGTGGCATATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGTCGCCGCCCTGATGCCGGTGGTGCAGGGGTCAGCTTGCCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGGCACGGGCAGCTTAGACGGTTTTTCGGTCGTGCTGCTTTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CCGTAGGTCAGGGTCGGCTGAAGCACTGTTCATGTGGTCGGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTCCTTGAAGAAGAGCGGACTTGAAGAACCCTTTGTGGGCCAATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGTTGCCGTCGTAGGGTCACGAGCTCGATCGCCGGACGTTGGATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGTCCACGGGCATGTGGTGCGCTCCTGGCCCGCGGGTCTTGTATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGCCTTCGTTCTTTGGTTCACCAGGGTGACTTCACCTCGGCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CTTCAGCTCGATGCAATAGTGGACTCTTGATATAGACGTTGTATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGGATGTTGCCGTCTACTCCAGCTTGTGACGTGGCTGTTGTAATTCCGCATAAGGGCTAGTCC	63	–
–	–	GTCGATGTTGTGGCTGCTTGTCGGCCATGTTCCAACGATGCCATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGCTGCCGTCCTTGCTCCTTGAAGTTCTGGGGTGTACTGGAAATTCCGCATAAGGGCTAGTCC	63	–
–	–	CAACACTGTTCTTCGGATCTTGAAGTTCGCCGGCGAGCTGCAATTCCGCATAAGGGCTAGTCC	63	–
–	–	TGATGCCCAACCCTGGCCGTCGCCGATGGCTGGTAGTGGTTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGGCAGCAGCACGGATCTCGGTCTATTCCTCCAGCAGGACCTATTCCGCATAAGGGCTAGTCC	63	–
–	–	AGGGCGGACTGGGTTCGTTGGGGTCTTTACCATGTGATCGCGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CTGGCCGCTTTACTGCGGCGGTCACGAATTTTGATGGTTGTCATTCCGCATAAGGGCTAGTCC	63	–
–	–	ATCTAGAGTCGCTCGCTCAGGTACCTCTTAAAAGTTTATAAGATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGATTTTGATCCCGTGTACAGCTCGTCCCATGGCTGATTATGATTCCGCATAAGGGCTAGTCC	63	–
–	–	CGAGAGTGCCGATTTTTTTTAAAGCAAGACAAATGTGGTAACATTCCGCATAAGGGCTAGTCC	63	–
–	–	GGAGGTGTGGGAGGTCGGCCTATTGGTTTTTATTTGTAACGCATTCCGCATAAGGGCTAGTCC	63	–
–	–	AATTGCATTCATTTAAACAAGTTAACAAATCATTATAAGCTGATTCCGCATAAGGGCTAGTCC	63	–

Start	End	icosahedron monomer A core sequences	Length	Color
5[35]	1[41]	CTTTATTCGTAAAACTAGCATATTCAACCGTTCTA	35	
4[41]	2[35]	AGGGTGAGAAAGCAAGAATTAGCAAAAATCGGTT	35	
1[42]	3[55]	GCTGATAAATTAATGAGCATAAAGCTAATTAAGCAATAAAGC	42	
0[55]	4[42]	CGATGAACGGTAATTCAACGCAAAGGATAGGTAAAGATTCAAA	42	
3[56]	5[69]	CTAATTGGCTTGACTGAGTAATGTGTAAAAATTTTTAGAAC	42	
2[69]	6[56]	GAACGAGTAGTACAGCCGAGAGGGTAGGCAAACAAGAGAAT	42	
5[70]	1[83]	CCTCATATATTTGACCTGAGAGCTGGACTATTTTGAGAGA	42	
4[83]	2[70]	AATAAATGCAATGCGATGGTTTAATTTCGACGAGAAACCCA	42	
1[84]	3[97]	TCTACAAAGGCTACATAAGGCTTGCCCTAACTTTAATCATTG	42	
0[97]	4[84]	GTATCAGGTCATTGGGACAGATGAACGGCTGACCAACTTTGA	42	
3[98]	5[111]	TGAATTACCTTATGATAAGGGAACCGAATGTACAGACCAGGC	42	
2[111]	0[98]	TGCTCATTCAGTGAAACGGAGATTTGTAAAGCGCGAAACAAA	42	
5[112]	1[125]	GCATAGGCTGGCTGCCAGCGATTATACCTCATCCCTGATAA	42	
4[125]	2[112]	GCAGACGGTCAATCCGATTTTAAGAACTCAACGTAACAAAGC	42	
1[126]	3[132]	ATTGTGTCGAAATCTTTATTCACCAAATGGCTTCAT	35	
0[132]	4[126]	TTGACCCACCTTCATCAAGAGAGCCGGAACGAGGC	35	
11[35]	7[41]	AGATACACCTTATTAGCGTTTAAGGCCGGAAATCGT	35	
10[41]	8[35]	GAATTAGAGCCAGCAAAAATCTACGTTAGGTAGAA	35	
7[42]	9[55]	CACCAATGAAACCAACAACATTATTACAATAAAACGAACTAA	42	
6[55]	10[42]	TTCGGTCATAGCCCTAACGCCAAAAGGACTTGAGCCATTTGG	42	
9[56]	11[69]	GCTAAACAGTTCAGATCACCGTCACCGAATTACGAGGCATAG	42	
8[69]	6[56]	CCTCAAATGCTTGATCGATAGCAGCACCTTTTCATCGGCATT	42	
11[70]	7[83]	TAAGAGCAACACTACAGACTGTAGCCGGTAATCAGTAGCGA	42	
10[83]	8[70]	ATTAAAGGTGAATTAAAACGAGAATGACATTCATTGAATCCC	42	
7[84]	9[97]	CAGAATCAAGTTCAGAATCGTCATAAATCATAAATCAAAAAT	42	
6[97]	10[84]	ACTGCCTTTAGCGTTCATAACCCTCGTTCGAGCGAAATTATTC	42	
9[98]	11[111]	CAGGTCTTTACCCTGGAAGGTAAATATTTACCAGACGACGAT	42	
8[111]	6[98]	CGTCCAATACTGCGCGGAATAAGTTTATAGAAACGCAAAGAC	42	
11[112]	7[125]	AAAAACCAAAATAGTGGCAACATATAAATTTGTCACAATCAA	42	
10[125]	8[112]	ACCGATTGAGGGAGGACTATTATAGTCATTTAGACTGGATAG	42	
7[126]	9[132]	TAGAAAATTCATATGTAATAGTAAAATTGGAAGCAA	35	
6[132]	10[126]	ATAAAGGCGAGAGGCTTTTGCAAGGGCGACATTCA	35	
17[35]	13[41]	CTTTAATAGAGTCAATAGTGAGAAACAGTACATAA	35	
16[41]	14[35]	ATTAATTACATTTAGAGGAAGCCGAAAAAGCGA	35	
13[42]	15[55]	ATCAATATATGTGATTAATTCGAGCTTCGACTTCAAATATCG	42	
12[55]	16[42]	TTAAGCAGCTGAGATGCTCCTTTTGATAATCAAGAAACAAA	42	
15[56]	17[69]	CGGTTAGCTATATATGATGAAACAAACAGAGGTCATTTTG	42	
14[69]	12[56]	GGTCAATAACCTTTGTGAATAACCTTGCAGCGATAGCTTAGA	42	
17[70]	13[83]	CCGATGGCTTAGAGATCCTTGAAAACATTTCTGTAAATCGTC	42	
16[83]	14[70]	CTGAGCAAAAGAAGTTTCATTTTGGGGCGTACATTTCGCAAAT	42	
13[84]	15[97]	GCTATTAATTAAACGTTTGACCATTAGACGAGCTGAAAAGGT	42	
12[97]	16[84]	TATTTTCCCTTAGACTTAATTGCTGAATTTCATTTCAATTAC	42	
15[98]	17[111]	GGCATCAATTCTACGCAGAGGCGAATTAATAATGCTGTAGCT	42	
14[111]	12[98]	AACGAGTAGATTTAGTCAGATGAATATATAGATTTTCAGGTT	42	
17[112]	13[125]	CAACATGTTTTAAAATAAAGAAATTGCGCAGTAACAGTACCT	42	
16[125]	14[112]	AGTTACAAAATCGCTAATAGTAGTACATTCCCAATTCTGCG	42	
13[126]	15[132]	TTTACATCGGGAGACATATAACAGTTGATTAACAT	35	
12[132]	16[126]	AACAGAATATGCAAACTAAAGTTGTTTGAATACCA	35	
23[35]	19[41]	GTCTCGTGGTTAGAACCTACCATTTTTGCGGAACA	35	
22[41]	20[35]	CTTTGCCCGAACGTAAATCCCGTAAAAATAAAGTT	35	
19[42]	21[55]	AAGAAACCACCAGATAGTGATGAAGGGAAGCCGCACAGGCG	42	
18[55]	22[42]	TCTGAATAATGGAACGCTGGCAGCCTCCACTCGTATTAAATC	42	
21[56]	23[69]	GCGCCGGGCGCGGTCAAACAATTCGACAGGCCAGAGCACATC	42	
20[69]	18[56]	CGCACTCAATCCCTAGGAGCGGAATTATGTTTGGATTATACT	42	
23[70]	19[83]	CTCATAACGGAACGATATAATCCTGATTCATCATATTCCTGA	42	
22[83]	20[70]	AGTATTAGACTTTATGCGGTATGAGCCGATTGCAGGCGCTTT	42	
19[84]	21[97]	TTATCAGATGATATGCATCAGCGGGGTCGGTCACTGTTGCCC	42	
18[97]	22[84]	ATGGCAATTCATCATGCCGGACTTGTAGTTTGAGGATTTAGA	42	
21[98]	23[111]	TGCGGCTGTAATGCAAATAGCGTTAAAAACTCAGCGTGGT	42	
20[111]	18[98]	GCTGGAGGTGTCACTGGTCAGTTGGCACAAACCCTCAATCA	42	
23[112]	19[125]	GCTGGTCTGGTCAGTGAACTCTAAATAATCAACAGTTGAA	42	
22[125]	20[112]	TAGATTAGAGCCGTGGTAAAGGTTTTCTTGCAACCAGCTTACG	42	
19[126]	21[132]	AGGAATTGAGGAAGTGGTGCCATCCCACTGCTCGT	35	
18[132]	22[126]	ACCTTGCCAGCAACCGCAAGAGCACTAACAACTAA	35	
29[35]	25[41]	ATTATTTCGCTGAGAGCCAGCTAGTCTTTAATGCG	35	
28[41]	26[35]	AAGCGTAAGAATACTGCTGGTAATATCCAAAAACG	35	
25[42]	27[55]	CGAACTGATAGCCCGCCATTGCAACAGGAGAACAATATTACC	42	
24[55]	28[42]	CTGCAACAGTGCCAACATTTGGCAGATTCCCCTTCTGACCTGA	42	
27[56]	29[69]	GCAATTTAGGCAGACAACAGAGATAGAAACCAGTCACACGAC	42	
26[69]	24[56]	ACGCCAACATGTCATAAAACATCGCCATAGTATTAACACCGC	42	
29[70]	25[83]	CAGTAATAAAAGTGGAGGTGAGGCGGGTTCAAAAATACCGAAC	42	
28[83]	26[70]	CGGGCAATTCTGGCGGCATTTTCGAGCCCGCCATATTAACA	42	
25[84]	27[97]	GAACCACCAGCAATGCTTAATTGAGAATAGTAATAAGAGAAT	42	
24[97]	28[84]	ATGAAGATAAAACATGATAAATAAGGCGTTTGAAATACCGAC	42	
27[98]	29[111]	ATAAAGTACCGACACCTAAATTTAATGGTTAAATAAGAATAA	42	
26[111]	24[98]	CGCTCAACAGTAGGAACTATATGTAAATGCTTAGGTTGGGTT	42	
29[112]	25[125]	ACACCGGAATCATACTTTTTAACCTCCGGCTGATGCAAATCC	42	
28[125]	26[112]	ATTTCATCTTCTGAAAAGGTAAAGTAATCAGTATAAAGCCAA	42	
25[126]	27[132]	AATCGCAAGACAAAATACAAATTCTTACTCTGTCC	35	
24[132]	28[126]	AGACTACATTACTAGAAAAAGATATATTTTAGTTA	35	
35[41]	31[41]	ACAGCTAACGAAAGAAGGCAAGACAGCATCGGAA	35	
34[41]	32[35]	GAGTTAAAGGCGCAATAATTTTTCGCAAGCCTT	35	
31[42]	33[55]	CGAGGGTAGCAACGAAAGGCTCCAAAAGGTTGAAAATCTCCA	42	
30[55]	34[42]	AGGCACAACCTAATGATACCGATAGTTCTGAGGCTTGCAGG	42	
47[35]	43[41]	AACCACCCTATTATTCTGAACGATAAGCGTCATA	35	
46[41]	44[35]	CATTAAAGCCAGAATCACCGGAACCAGACACCCTC	35	
43[42]	45[55]	CATGGCTTTTGATGTCCCTCAGAGCCGCGCCACCACCGAAC	42	
42[55]	46[42]	TGCCTATTTCGGAAACCAGAGCCGCCGCAACAAATAAATCCT	42	
59[35]	55[41]	CAATAATATCCTGAATCTTACGATATAGAAGCGTT	35	
58[41]	56[35]	TTTCATCGTAGGAATCAGCTAATGCAGAGAACAAG	35	
55[42]	57[55]	ATTCCGGTATTCTAAAATAGATAAGTCCTACGCGCCTGTTTAT	42	
54[55]	58[42]	CCAGCTACAATTTTCGGCTGTCTTTCCTCAAGCGTTTTTA	42	
51[35]	97[41]	CACCGCCGTTTTTTTGGGGTCGGTTGGTTGTTC	35	
100[41]	98[35]	ATTCGGCAAATCCCATGAATCGGCCAACCAGGGTG	35	
97[42]	99[55]	CAGTTTGGAACAAGTGCGTATTGGGCGCGCGCGGGGAGAGGC	42	
96[55]	100[42]	ATCACCCAAATCAATGGCCCTGAGAGAGATGGTGGTTCCGAA	42	
113[35]	109[41]	CGACGTTCCAGCAGTTGGCGCGCCCATGTTTACCA	35	
112[41]	110[35]	CGGGAACGGATAACGCGATCGGTGCGGGGGATGTG	35	
109[42]	111[55]	GTCCCGGAATTTGTAGCTGGCGAAAGGGCCTCTTCGCTATTA	42	
108[55]	112[42]	CTGCTCATTTGCCGGTAAAACGACGGCCAGGTGGAGCCGCCA	42	
39[98]	41[111]	AACTTTCAACAGTTCCCTCAGAACCGCCCCTCTTCGCTATTA	42	
38[111]	36[98]	CACAGACAGCCCTCCAGTACCAGGCGGAGATTAGCGGGGTTT	42	
41[112]	37[125]	ATAGCAAGCCCAATAAGGAAGGATTAGTAAGTGCCGTCGAG	42	
40[125]	38[112]	GTTTAGTACCGCCATCAGCGGAGTGAGACGCTGTCTAGCATTC	42	
37[126]	39[132]	AGGGTTGATATAAGAGTACAAACTACAAATAGAAA	35	
36[132]	40[126]	ACTCCTCAGGAACCCATGTACACCGTACTCAGGAG	35	
51[98]	53[111]	AGAACTGGCATGATCGCATTAGACGGGAGGTAATTGAGCGCT	42	
50[111]	48[98]	CTTACCGAAGCCCTTTATCCCAATCCAAAAAAACAGCCATA	42	
53[112]	49[125]	AATATCAGAGAGATTTTGCCAGTTACAAATAAGAAACGATTT	42	
52[125]	50[112]	TAAAAACAGGGAAGTAAGACTCCTTTATTAGCAATAGCTAT	42	
49[126]	51[132]	TTTGTTTAACGTCACAAGAAACAATGAAACGCAGT	35	
48[132]	52[126]	AGCCTAAAACCCACAAGAATTCAGAGAGAATAACA	35	
93[98]	95[111]	ACTTCTTTGATTAGCACCACACCCGCCGGGTTGCTTTGACGA	42	
92[111]	94[98]	ACGGTACGCGAGAAAGCGGCGGACGTTTTGAGACGTTGACG	42	
95[112]	91[125]	GCACGTATAACGTGAAGGGCCCCCGAGGCGGAAGGGAAG	42	
94[125]	92[112]	ACGCTGCCGGTAACTAATAACATCACTTGATTTTAGACAGGA	42	
91[126]	93[132]	GGAAGAAAGCGAAAAGGCCGATTAAAGGGCCTGAG	35	
90[132]	94[126]	AACCCTACTTTCCTCGTTAGACAAGTGTAGCGGTC	35	
105[98]	107[111]	ATTGCGTTGCGCTCGGGCCGTTTTCACGCTGTTCTTCGCGTC	42	
104[111]	102[98]	AAATTGTTATCCGCAGCCAGCGGTGCCGAGATGCCGGGTTAC	42	
107[112]	103[125]	CGTGAGCCTCCTCATCGTTAACGGCATCGTGCCCCCTGCATC	42	
106[125]	104[112]	GGCCAGAATCGGCACTGCCCGCTTTCCCTGTTTCCTGTGTG	42	
103[126]	105[132]	AGACGATCCAGCGCAATCATGGTCATAGAGTCGGG	35	
102[132]	106[126]	CAGCAAACAGTTGAGGATCCCCTCTGTGGTGCTGC	35	
117[98]	119[111]	GGTGCCGGAACCAAAAAATTTCGCGTTAAATGTGAGCGA	42	
116[111]	114[98]	CGCATCGTAACCGTAAATTTAAATTGAGGAAGGATTGTAT	42	
119[112]	115[125]	GTAACAACCCGTCGAAAAGCCCCAAAAATAAACGTTAATATT	42	
118[125]	116[112]	ATAGGAAGCCATCGGCAAAGCGCCATTTTGGTAGATGGG	42	
115[126]	117[132]	TTGTTAAAATTCGCTGGGATAGGTCACGCGCCATT	35	
114[132]	118[126]	TAATCAGGATTCTCCGTGGGATCATTTTTAACCA	35	

Start	End	icosahedron monomer A non-crossover vertex staple sequences	Length	Color
8[34]	6[19]	AGATTCATCAGTTGAGTTTTTTTTTTTTTTACCATTAGCGCCATCTTT	46	
3[133]	0[133]	TATACCAGTCAGTTTTTTTTTGGATACGCGATTTTTTTTTAAACACTCATCT	52	
32[34]	30[19]	TAATTGTATCGGTTTTTTTTTTTTTTTAGCAGCGAAAGAATACA	46	
38[133]	36[133]	GGAACAACTAAATTTTTTTTCACCTATGTTTTTTTTTAAGAAGGCTGAG	52	
44[34]	42[19]	AGAACGCGCACCCTCATTTTTTTTTTTTTTACCGTTCACATGAAAG	46	
56[34]	54[19]	AAAAATAATACCCCAATTTTTTTTTTTTTTAGCAAATCACAACGCTAA	46	
27[133]	24[133]	AGACGACGACAATTTTTTTTTTGCGTTGAACGTTTTTTTTTTCATAGGTCTGAG	52	
14[34]	12[19]	ACCAGACCGGAAGCAATTTTTTTTTTTTTTTTTTAATGATTTATCAA	46	
9[133]	6[133]	AGCGGATTGCATTTTTTTTTTAGGGGGGTTTTTTTTTTTTTGAAAATACATAC	52	
51[133]	48[133]	ATGTTAGCAAACTTTTTTTTTTAAGAGAAAATTTTTTTTTTTTGCGTCTTTTCCAG	52	
110[34]	108[19]	CTGCAAGGCGATTAAGTTTTTTTTTTTTTTTAACGTACAGGTTGTGTAC	46	
117[133]	114[133]	CAGGCTGCGCAATTTTTTTTTTTCGTAAATTAATTTTTTTTTTACCCCGGTTGA	52	
2[34]	0[19]	GTACCAAAAACATTATTTTTTTTTTTTTCAATATGATGTCAATCAT	46	
15[133]	12[133]	CCAATAAATCATTTTTTTTTTTCATTCAACAATTTTTTTTTATTTGCACGTAA	52	
20[34]	18[19]	AAACGATCGTGATTGCTTTTTTTTTTTTTTTAACATTATATCATATCAAA	46	
26[34]	24[19]	CTCATGGAAATACTCATTTTTTTTTTTTTTAATGGCTATAGCAAATGA	46	
93[133]	90[133]	TAGAGAGACTCATTTTTTTTTTTTTTTGCACTAAATCGG	52	
98[34]	96[19]	GTTTTTCTTTTCACCATTTTTTTTTTTTCGAGATAGGAGGTGCCGT	46	
105[133]	102[133]	AAACCTGTCGTGTTTTTTTTTTCGTAGTGTTTTTTTTTTTCACTGGTGTGTT	52	
21[133]	18[133]	CATAAACATCCCTTTTTTTTTTGTCGGGTTATTTTTTTTTTTATCTAAAGCATC	52	

Start	End	icosahedron monomer A crossover vertex staple sequences	Length	Color
9[19]	35[34]	GTTGGGAAGAAATCACCTTTTTACTTTAATCTTTTCGAGGTGAATTTCTTA	52	
33[19]	47[34]	ATTGCGAATTTTGCGGGTTTTGTATCCGTAATTTTCGAGACCGCCACCAG	52	
45[19]	11[34]	TAATCAAAATGGAAAGCGTTTTCACATTCAACTAATGC	38	
57[19]	77[34]	ACAACATGTTCATTACCGTTTTTCTTTTCTTTCAGGATTAGAGAGTAC	52	
15[19]	11[144]	AAAGATTAAACAATTTCATTTTCGACAAAAAG	32	
52[144]	59[34]	CTTTAGAGTTTTTTGCATGTAGAAACCAAT	30	
111[19]	5[34]	TTGGGAAGGCTACCCGGATTTTTCAGACAAATTTTCTTTTGCGGGAGAAGC	52	
3[19]	23[34]	GGCAAGGCACGGAGCAGTTTTCTGATACGGTTTTTCGCGGTCCGTTTTTTC	52	
21[19]	113[34]	GACATAAAATATAATTTTTTTTTTTTTTTTCCAGTCA	38	
27[19]	101[34]	TATCGGCCTGTGGCACAGTTTTGCTGGATCAGTTTTACAGCTGATTGCCCTT	52	
99[19]	107[144]	GCTGCATTATTATAAATCTTTTGTGCACGGGT	32	
22[144]	29[34]	TAGGAATGCCTTTTCAATCGTCTGAAATGG	30	

Start	End	icosahedron monomer A connector staple sequences	Length	Color
33[56]	35[69]	AATTGTAGCAATACGATATTCGGTCGCGCGCGACAATGAC	42	
32[69]	30[56]	GCAAATAACCGAAGCTACAGAGGCTTTTAATGCCACTACGA	42	
35[70]	31[83]	AACAACCATCGCGCACGGGTAAAATACGGAGGACTAAAGACT	42	
45[56]	47[69]	CGACATCCCTTACACCTTGATATTCACACAGCATTGACAGGA	42	
44[69]	42[56]	TGCTCGTCATAACATACAGGAGTGTACCAGTTAATGCCCCC	42	
47[70]	43[83]	GGTTGAGGCAGGTGAGTGCCCGTATAAATGGTAATAAGTTTT	42	
57[56]	59[69]	CATTACAAATCATCATCGAGAACAAGTATCATTCCAAGAA	42	
56[69]	54[56]	TCAATAGTGAATGAACGCGAGGCGTTTTGCTATTTTGCAC	42	
59[70]	55[83]	CGGGTATTAACTTAAACTCAAGATTAGTTAGCGAACTCCCC	42	
99[56]	101[69]	GGTCCTTTATACGCGAAAATCCTGTTTGTTGCAGCAAGCGGT	42	
98[69]	96[56]	CATGATAAGACTTAGTTCCTATTAAACCACTACCTGAACC	42	
101[70]	97[83]	CCACGCTGGTTTGTATCAGGCGATGGCGAACGTGGACTCCA	42	
111[56]	113[69]	GGCGATGAACGGTACGGCGTAAATTCAGAGTGCCAAGCTTAC	42	
110[69]	108[56]	AAACAAGAGAATCCGAGAGATAGACTTTTCAAACTTAAATTT	42	
113[70]	109[83]	TTCATGCTTCGGAAGCAGAAACAGCGGACTCCGTGGTGAAGG	42	
40[83]	38[70]	CAGTATAAATCCTGAATTTTCTGTATGGATCTAAAGTTTTG	42	
37[84]	39[97]	TCCTGATTGTTTCTATAGTTAGCGTAACGGATTTGCTAAAC	42	
36[97]	40[84]	TGGGATTATACTTCCTCAGAGCCACCACACCCTCAGAACCGC	42	
52[83]	50[70]	CCGGTACCGAGCTCGAAACGCAATAATAAGCAGATAGCCGAA	42	
49[84]	51[97]	TAATTGCGTTGCATTTTTAAGAAAGTAACGGAATCACCAAA	42	
48[97]	52[84]	TTGCTCACTGCCCGGAACAAAGTCAGAGGAATTAACTGAACA	42	
94[83]	92[70]	CCTGTTTAGATCACATCGCGCGAATTATTTATAATCAGTGA	42	
91[84]	93[97]	ATCAAAGTACCGATCCTGAGAGGAATTACCGTTGTAGCAAT	42	
90[97]	94[84]	GGGACAAAAGGTAAAGGGCGCGTACTGTACTCGCTTAATGCGCCG	42	
106[83]	104[70]	TTCAACATGTTTTATGCCTAATGAGTGAAACATACGAGCCGG	42	
103[84]	105[97]	ATATTTTCATTTGCTCACAATTCCACACGCTAACTCACATTA	42	
102[97]	106[84]	CTGGGCGCGAGCTGCCAGCACGCGTGCGTCATACCGGGGGT	42	
118[83]	116[70]	AGTGGTTCCGAAATCTCCAGCCAGCTTTGAGGGGACGACGAC	42	
115[84]	117[97]	GCGATGGCCCACGCGCATCTGCCAGTTCCGGCACCGCTTCT	42	
114[97]	118[84]	AATACGTGAACCATAGCTTTCATCAACATCTGGCCTTCCTGT	42	

Start	End	icosahedron monomer B core sequences	Length	Color
65[35]	61[41]	CAGGAGGAGGCTGAGACTCCTACAGGAGTGTACTG	35	
64[41]	62[35]	TGAATTACCGTTCCCTCCCTCCAGAGCCCACCCTC	35	
61[42]	63[55]	GTAATAAGTTTAAACCCTCAGAGCCACGCCACCCTCAGAAC	42	
60[55]	64[42]	ATGAAAGTATTAAGTTGAGGCAGGTGAAGGAAGCGCAGTCTC	42	
63[56]	65[69]	CGCCAGCTACAATTTTAAAGCCAGAATGACGATTGGCCTTGA	42	
62[69]	60[56]	GCTATTTTGCACCCGGGGTCAGTGCCTTATTATTCTGAAAC	42	
65[70]	61[83]	TATTCACAAACACCCCTATTTCCGAACCTGAGTAACAGTGCC	42	
64[83]	62[70]	AGAATAAATCCTCATTATCCTGAATCTTAATCAAGATTAGTT	42	
61[84]	63[97]	CGTATAAACAGTAAGTTTTGAAGCCTTAACCAACGCTAACGA	42	
60[97]	64[84]	ACTAATGCCCCCTGGTTTTTATTTTCATATCGAGAACAAGCA	42	
63[98]	65[111]	GCGTCTTTCCAGAGCAAGTACCGCACTCCTGAGGAATCATTA	42	
62[111]	60[98]	CCGACTTGCGGGAGGAAAAATAATATCCTAGATAAGTCCTGA	42	
65[112]	61[125]	CCGCGCCCAATAGCCTGTTTATCAACAACATCCTAATTTACG	42	
64[125]	62[112]	AACGGGTATTAAACCCTAATTTGCCAGTTTTTAGCGAACCTC	42	
61[126]	63[132]	AGCATGTAGAAACCAAGAACGCGAGGCGTACAAAA	35	
60[132]	64[126]	AACGCGCAAGCAAATCAGATACTTATCATTCCAAG	35	
63[133]	65[141]	AGAATTACTCAAATATCAAACCCGAACGAACCACCC	35	
70[41]	68[35]	TTAATGCGCGAACTATCCCAAATAAGAAAGCAGCCT	35	
67[42]	69[55]	AGCAGAAGATAAAACAAAATGAAAATACGATTTTTTGTTTA	42	
66[55]	70[42]	TCACCTTGCTGAACACTGAACACCCTGAATGGCTATTAGTCT	42	
69[56]	71[69]	ACAATACCCAAAAGGACAATATTTTTGAACAAAGTCAGAGGG	42	
68[69]	66[56]	CAATAATAACGGGTCAGAGGTGAGGCGGAAAAATCTAAAGCA	42	
71[70]	67[83]	TAATTGAGCGCTAAGCCAGCAGCAAATGTCAGTATTAACACC	42	
70[83]	68[70]	GAATACGTGCACAAACTGGCATGATTAAAACCGAGGAAACG	42	
67[84]	69[97]	GCCTGCAACAGTATAAGTTACCAGAAGGAGACTCCTTATTAC	42	
66[97]	70[84]	ACGCCACGCTGAGATATCAGAGAGATAAACCTGAAAGCTAA	42	
69[98]	71[111]	GCAGTATGTTAGCAATAGAACCCTTCTGCCCACAAGAATTGA	42	
68[111]	66[98]	CAGATAGCGAACATTTGCACGTCAACTCTCATGGAATACCT	42	
71[112]	67[125]	GTTAAGCCCAATAAAACAGGAAAAAGCGCGTCTGAAATGGATT	42	
70[125]	68[112]	TCTGGCCAACAGAGAACGTAGAAAATACTTAAGAAAAGTAAG	42	
67[126]	69[132]	ATTTACATTGCAGTACCGAAGCCCTTTATACATA	35	
66[132]	70[126]	CCATTGCTAAGAGCAAGAAACAATAAAAGGGACAT	35	
77[35]	73[41]	GAGGGAGGGTGTGTTCAGCAATCATTGCAGGCGCT	35	
76[41]	74[35]	CCACGCAACCAGCTGCAAAGACACCACGATTCATA	35	
73[42]	75[55]	TTCGCACTCAATCCACAATCAATGAAAGAATAAGTTTATTT	42	
72[55]	76[42]	ACATCCCTTACACTGGAAGGTAAATATTTCGGTGGTGCCATC	42	
75[56]	77[69]	TGAGCGCGTTTCACAACGGCAGCACCGGAACGGAAATTATC	42	
74[69]	72[56]	GCCTGACACTGTTCGCCGGGCGCGGTTGTTTGCTCGTCATAA	42	
77[70]	73[83]	ATTAAAGGTGAATTTGGTGAAGGTTTCCGGTATGAGCCGGG	42	
76[83]	74[70]	AACCGCAAGAATGCTCGGCATTTTCGGTCAAGTTGCCTTTA	42	
73[84]	75[97]	TCACTGTTGCCCGTAGTAGCGACAGAATCATAGCCCCCTTAT	42	
72[97]	76[84]	CCTGCGGCTGGTAAATCACCGTCACCGAGTCTGGTCAGCAGC	42	
75[98]	77[111]	TAGCGTTTGCCATCTCAGCGTGGTGCTGCTTGAGCCATTTGG	42	
74[111]	72[98]	GCAGCACCGTAATCTCCGGCAAACGCGGAACGATGCTGATTG	42	
77[112]	73[125]	GAATTAGAGCCAGCGAAGGGTAAAGTTATCCGTTTTTTCGTC	42	
76[125]	74[112]	GGACTTGTAGAACGTTTTCATAATCAAATGAAACCATCGATA	42	
73[126]	75[132]	TCGTCGCTGGCAGCGGAAACGTCACCAAATCACCG	35	
72[132]	76[126]	TAGTGATAAAATCACCAAGTGTAACGGAACGTGCC	35	
83[35]	79[41]	GTCAATCTAAAAAAATCCCGTGAGATAGACTTTTCT	35	
82[41]	80[35]	GGCGAAACGTACAGGAAACAAGTACAATCGAAAT	35	
79[42]	81[55]	CCGTGGTGAAGGGACCTGATAAATTGTGCGGAGATTTGTATC	42	
78[55]	82[42]	TGTGTACATCGACAATAAGGGAACCGAACACCGGAAACAATC	42	
81[56]	83[69]	ATGAGATGGTTTAAGGAACGGATAACCTCTGACCAACTTTGA	42	
80[69]	78[56]	TAAATTGGGCTTCGTAGCTCTCACGGAAAGCAGTTGGGCGGT	42	
83[70]	79[83]	AAGAGGACAGATGAGCTCATTTTGCCGCCAAAGAGACGCAGAA	42	
82[83]	80[70]	GTGGAGCCGCCACGTTTCAACTTTAATCACCAGAACGAGTAG	42	
79[84]	81[97]	ACAGCGGATCAAGTCCCTGACGAGAAACATTGTGAATTACCT	42	
78[97]	82[84]	ATACTTAAATTTCTACGGTGTACAGACCGCGTAAATTCAGAG	42	
81[98]	83[111]	TATGCGATTTTAACGATATCCGGGGCGCCGCATAGGCTG	42	
80[111]	78[98]	GTGAATAAGGCTTGGCTGCAAGGCGATTCTGGCGAAAGGGG	42	
83[112]	79[125]	GCTGACCTTCATCACGCTATTACGAGAGTTGGTGGCGAGCC	42	
82[125]	80[112]	ACTTCATGCTTCGGAACTGGCTCATTATAAGCTGCTCATTCA	42	
79[126]	81[132]	CAGGGTTTTCCCAGAATCAACGTAACAACCAGTC	35	
78[132]	82[126]	GCCTCTTAGAGTAATCTTGACCCAGTGCCAAGCTT	35	
89[35]	85[41]	GTCTGGCTCAGGCTGCGCAACGTAACCGTGCATCT	35	
88[41]	86[35]	TTGACCGTAATGGGAAATTGTAAACGTTTTAAATC	35	
85[42]	87[55]	GCCAGTTTGAGGGGCATTAAATTTTTGAATATTTGTTAAA	42	
84[55]	88[42]	GCGCCATTGCCCATCTTCCTGTAGCCAGGAACAAACGGCGGA	42	
87[56]	89[69]	ATACTCACATTAATCGGATTCTCCGTGGCTTTCATCAACATT	42	
86[69]	84[56]	ATGAGTGAGCTATCACGACGCAGATGTGAAACCAGGCAAA	42	
89[70]	85[83]	AAATGTGAGCGACGCCGCTTCTGCTGCCGCCTCGAGAAGAT	42	
88[83]	86[70]	TCGTAACAACCCGTTGCGTTGCGCTCACGCCTGGGGTGCCTA	42	
85[84]	87[97]	CGCACTCCAGCCAGGCATAAAGTGTAAATGCCCGCTTTCCAG	42	
84[97]	88[84]	TCAGCTTTCCGGCATGAGCCTCCTCACAGCCTGTTCTTCGCG	42	
87[98]	89[111]	TCGGGAAACCTGTCCTGCCAGCACGCGTGTTGAGGATCCCCG	42	
86[111]	84[98]	CATACGAGCCGGAAACGATCCAGCGCAGCGGTGCCCCCTGCA	42	
89[112]	85[125]	GGTACCGAGCTCGAGCAGCCAGCGGTGCTGTCACTGCCGCCC	42	
88[125]	86[112]	CATACCCGGGGTTTGTGCCAGCTGCATTACAATTCCACACAA	42	
85[126]	87[132]	TGTGCACTCTGTGGATTGTTATCCGCTCAATGAAT	35	
84[132]	88[126]	GTTACCTATTCGTAATCATGGGCCGTTTTCACGGT	35	
95[35]	91[41]	GTTTGAACAGACGACGACAATACGTAGGGCTTAA	35	
94[41]	92[35]	CATATGCGTTATACGTAAATGCTGATCGAATCTTTT	35	
91[42]	93[55]	TTGAGAATCGCCATAAGAACGCGAGAAAAACTCAATCGCAA	42	
90[55]	94[42]	AAAGTAATTCTGTCATACCGACCGTGTGAGCCTGTTTAGTAT	42	
91[35]	37[41]	ATTTGAGGCACGTAAAACAGAGAGCGGAATTATCA	35	
40[41]	38[35]	TTGAGTAACATTATTTGGCAAATCAACAATCTTTA	35	
37[42]	39[55]	TCATATTCCTGATTAGGTTATCTAAAATGTTGAAAGGAATTG	42	
36[55]	40[42]	TATCAAAATTATTTGATTTAGAAGTATTTTAATTTTAAAAGT	42	
119[35]	115[41]	GCGGTCCTAAATCGGAACCCTTCCACTATTAAAGA	35	
118[41]	116[35]	TAGCCGGAGTAGGTTTGCGTATTGGGCGGGCAAC	35	
115[42]	117[55]	ACGTGGACTCCAACTTCACCAGTGAGACGCCAGGGTGGTTTT	42	
114[55]	118[42]	GTGCCGTAAAGCACACGCTGGTTCCGCCTCAAACGAAAGAA	42	
107[35]	103[41]	TTTTGCGTCCAATAAATCATATAGATTTAGTTTGA	35	
106[41]	104[35]	AGTTTCATTCCATATTTTAATTCGAGCTCAGGTCA	35	
103[42]	105[55]	CCATTAGATACATTGAAGCAAACTCCAATCAAAGCGAACCAG	42	
102[55]	106[42]	TAGTAGCATTAACAGATGGCTTAGAGCTGTACGGTGTCTGGA	42	
173[35]	169[41]	ATGACAAACTCATCTTTGACCTACAGAGGCTTTGA	35	
172[41]	170[35]	CCCTCAGCAGCGAAAAAAGGCTCCAAAGCTTTCG	35	
169[42]	171[55]	GGACTAAAGACTTTCGGTTTATCAGCTTAGGAGCCTTTAATT	42	
168[55]	172[42]	GAATACACTAAAACCAACCATCGCCCACTTGCGGGATCGTCA	42	
159[98]	161[111]	CATAGGTCTGAGAGGAGCAAAAGAAGATTACATTTAACAATT	42	
158[111]	156[98]	TCGCTATTAATTAATACATCGGGAGAAATACAGTAACAGTAC	42	
161[112]	157[125]	TCATTTGAATTACCACGTCAAGTGAATACAATAACGGATTCG	42	
160[125]	158[112]	CATTTCCAATTACCTACTTCTTTTAACGCTTTCGTAAATCG	42	
157[126]	159[132]	CCTGATTGCTTTGAGAGTGAATAACCTTCTCCGGC	35	
156[132]	160[126]	AGGTTTATTTTTAATGGAAAAGAGGCGAATTATT	35	
33[98]	35[111]	CTGAGTAGAAGAACACAGGGCGCGTACTTTCCTCGTTAGAAT	42	
32[111]	30[98]	TATAATCAGTGAGGAAGAAAGCGAAAGGGTGGCGAGAAAGGA	42	
35[112]	31[125]	CAGAGCGGGAGCTAGAAAGCCGGCGAACAGCGGGCGCTAGGG	42	
34[125]	32[112]	CTTAATGCCGCCGTTCAAACTATCGGCCCTGAGAAGTGTTTT	42	
31[126]	33[132]	CGCTGGCAAGTGTAGGTACGCCAGAATCTTGCTGG	35	
30[132]	34[126]	TGACGGGAACGAGGAGCCGATCCACACCGCCGCCG	35	
111[98]	113[111]	TACCCCGGTTGATATAAATGCAATGCCTAGAAAGGCCGGAGA	42	
110[111]	108[98]	GATCTACAAAGGCTTGTACCAAAAACATGCATAAAGCTAAAT	42	
113[112]	109[125]	CAGTCAAATCACCAAATAAACCTCAGATATGACCCTGTAAT	42	
112[125]	110[112]	ACCCTCATATATTTATCAGAAAGCCCCAGCTATTTTTGAGA	42	
109[126]	111[132]	ACTTTTGCGGGAGAATGCCGGAGAGGGTAAAACA	35
108[132]	112[126]	ATTAAGCTCAATATGATATTCTAAAAATTTTAGA	35
165[98]	167[111]	AGCAAAGCGGATTTGATCATAACCCTCGAGAGGCTTTTGCAA	42
164[111]	162[98]	TCATTGAATCCCCCAAGATTCATCAGTTAACATTATTACAGG	42
167[112]	163[125]	AAGAAGTTTTGCCACGAACTAACGGAACGAGATTTAGGAATA	42
166[125]	164[112]	AGTAAGAGCAACACCATCAAAAAGATTAATCGTCATAAATAT	42
163[126]	165[132]	CCACATTCAACTAATCCAATACTGCGGAAGAGGAA	35
162[132]	166[126]	AATAAAAAGGGGGTAATAGTGAATTACGAGGCAT	35
277[98]	179[111]	AGAAAGGAACAACTTCCTCCAGAGCACCGAACCCATGTACCG	42
276[111]	174[98]	TCTAAAGTTTTGTCCGGTTGATAATAAGTAAATTATGCCGCTG	42
179[112]	175[125]	TAACACTGAGTTTCCTCAGTACCAGGCGTAGCCCGGAATAGG	42
178[125]	176[112]	CCTCAGAACCGCCAAAAGGAATTGCGAAAGTTAGCGTAACGA	42
175[126]	177[132]	TGTATCACCGTACTCAGACAGCCCTCATTAATAAT	35
174[132]	178[126]	GGTTTTGGTCACCAGTACAAACTCAGAACCGCCAC	35
Start	**End**	**icosahedron monomer B non-crossover vertex staple sequences**	**Length**	**Color**
68[34]	66[19]	TTACAGAGAGAATAACTTTTTTTTTTTTTTTTTTAAAAATACCTCAATCA	46	
63[133]	60[133]	TAAACAGCCATATTTTTTTTTTATTCTAATCATTTTTTTTTCAGCTAATGCAG	52	
152[34]	150[19]	CAAATATATTTAGTTTTTTTTTTTTTTTTTTCAACCCTAAAACAACAT	46	
151[133]	156[133]	TTAGGTTGGGTTTTTTTTTTTTATGTACTCTTTTTTTTTGCTAGATTTTTC	52	
38[34]	36[19]	GGAGCACTAACAACTATTTTTTTTTTTCACCAGAAGAATAAAGAA	46	
116[34]	114[19]	AGCTGATTGCCCTTTTTTTTTTTTTTGAACAAGAGAAGGGAGC	46	
87[133]	84[133]	CGGCCAACGCGCTTTTTTTTTGTGAATGCTGTTTTTTTTATCAGATGCCGG	52	
74[34]	72[19]	TGGTTTACCAGCGCCATTTTTTTTTTTTTCAGCGGGGATCGTTAAC	46	
69[133]	66[133]	AAGGTGGCAACATTTTTTTTTTTATCTATTCATTTTTTTTTTTATTACCGCCAG	52	
33[133]	30[133]	TAATATCCAGAATTTTTTTTTGGAACGCGGTTTTTTTTTTCGATTTAGAGCT	52	
170[34]	168[19]	AGGTGAATTTCTTAAATTTTTTTTTTTTAGCAACGGCCCCAGCGAT	46	
177[133]	174[133]	TTTTTCACGTTGTTTTTTTTTTCCACAGGATTTTTTTTTTTAGGATTAGCGG	52	
62[34]	60[19]	AGAGCCGCCACCAGAATTTTTTTTTTTTTTTGATGATCAAGAGAAG	46	
75[133]	72[133]	GAACCAGGACCATTTTTTTTTAGGCCTCGCTTTTTTTTTTACAGCCGGCCTT	52	
80[34]	78[19]	CCCGGAACTGCTCCATTTTTTTTTTTTTTTTAATTTGTGAAAAAAAGC	46	
86[34]	84[19]	AGCTCATTTTTTAACCTTTTTTTTTTTTTTGGGCGCATCTGTTGGGAA	46	
111[133]	108[133]	GGAAGATTGTATTTTTTTTTTAATTAAGCCTTTTTTTTTTAGAATTAGCAAA	52	
104[34]	102[19]	GGATTAGAGAGTACCTTTTTTTTTTTTTGCGAACGAGCAGGCAAGG	46	
165[133]	162[133]	GCCCGAAAGACTTTTTTTTTTAGCGTGCAGTTTTTTTTTAAAATCTACGTT	52	
81[133]	78[133]	AGGACGTTGGGATTTTTTTTTTACCCTCACGTTTTTTTTTCGATCGGTGCGG	52	
Start	**End**	**icosahedron monomer B crossover vertex staple sequences**	**Length**	**Color**
69[19]	155[34]	TTTATCCCAGATAGCCCTTTTTCTTTCTAGAATTTTGACCTAAATTTAATG	52	
153[19]	41[34]	TAACTATATAAATCTTCATTTTCGCGCAGTATTTCGTCAATAGATAATAC	52	
39[19]	71[34]	TCTGGTCAGCATTTTGCGTTTTAAGCGCATTAGACGGG	38	
117[34]	77[34]	GAGAGGCGGTTGAGTGTTTTGCGGTCATATTTTTCGACATTCAACCGATT	52	
75[19]	71[144]	AAAAGAAACTACGGCTGGTTTTCCAGTAATGA	32	
34[144]	119[34]	AACCATAAAGTTTGAGAGAGTTGCAGCAA	30	
171[19]	65[34]	ATCTCCAAAAGACAGCATTTTTCCACCCTACATTTTCCGCCGCCAGCATTGA	52	
63[19]	83[34]	CCGGAACCGCAGTAAGCGTTTTCCTCACACCATTTTGAACGAGGCGCAGACG	52	
81[19]	173[34]	ACCAAGCGCCGCCATGTTTTTTGATAGTTGCGCCGACA	38	
87[19]	107[34]	CAAATATTTATAGGTCACTTTTTAAGGAAACCGTTTTTTTGATAAGAGGTCAT	52	
105[19]	167[144]	AATATCGCGTAACAGTTGTTTTAAAAGAAAAT	32	
82[144]	89[34]	GACGGAAGAATTTTATCAAAAATAATTCGC	30	
Start	**End**	**icosahedron monomer B connector staple sequences**	**Length**	**Color**
153[56]	155[69]	GACAATCATATGTATAATTACTAGAAAATAAATAAGCGCTT	42	
152[69]	150[56]	AAACTAGCATGTCAATTTAACAACGCCATACCGACAAAAGGT	42	
155[70]	151[83]	AAATAGAATAACAAAGAGAATAAAAGACATGTAATTTAGG	42	
39[56]	41[69]	AGACGTTAGTAAATTTGCCCGAACGTTAAGACTTTACAAACA	42	
38[69]	36[56]	TCGTCTTTCCAGGAATCAGATGATGGCAGTTAGAACCTACCA	42	
41[70]	37[83]	ATTTCGACAACTCCCTGAATAATGGAAGGATTCATCAATATAA	42	
117[56]	119[69]	TCAGGAAGATCGCACGGCAAAATCCCTTCAGCAGGCGAAAT	42	
116[69]	114[56]	AGTATCGGCCTCTTGTCAAAGGGCGAAATTTTTGGGGTCGAG	42	
119[70]	115[83]	CCTGTTTGATGGCCCACCCAAATCAAGTAAGCTCTATCAGG	42	
105[56]	107[69]	ACTAAAGCCTGGGGAATATGCAACTAAATAATTGCTGAATAT	42	
104[69]	102[56]	AAGCATAAAGTCGCTCGCAAGTGTCGAAAATTCTACTAATAG	42	
107[70]	103[83]	AATGCTTGAGTCTGAAAAGGTGGCATCTAACCTGTTTAGCT	42	
171[56]	173[69]	GTATGAAAGTATTAGTTAAAGGCCGCTTGCATAACCGATATA	42	
170[69]	168[56]	TTATTCTGAAACATTTCATGAGGAAGTTCGAAAGAGGCAAAA	42	
173[70]	169[83]	TTCGGTCGCTGAGCGCACCAACCTAAAATCCATTAAACGGGT	42	
160[83]	158[70]	CAGGAAACAATCGGGAAGAGTCAATAGTCCTTGAAAACATAG	42	
157[84]	159[97]	TTGCCGCCAGCATTTTTTCCCTTAGAATGAATTTATCAAAAT	42	
156[97]	160[84]	CTGTTGGCGGTTGAAAACAAAATTAATGATGAAACAAACAT	42	
34[83]	32[70]	GACCACGCATAACCTTCTTTGATTAGTAAGTCTGTCCATCAC	42	
31[84]	33[97]	TTTTCATGAGGAGCCACCGAGTAAAAGATAACATCACTTGC	42	
30[97]	34[84]	AGAGTTTCCATTAAACGTATAACCTGCTATGGTTGCTTTGAC	42	
112[83]	110[70]	TACTTGACATATCCATGTAAACTAGCTGAGACTCTGGAGC	42	
109[84]	111[97]	CATAGCTTCACGTATCAGGTCATTGCCATGTCTAATCATATG	42	
108[97]	112[84]	CGGGAAAAAGAGACGATTCAAAAGGGTGGAGTAATGTGTAGG	42	
166[83]	164[70]	ATGAATTAGAGCCAGGTCTTTACCCTGACAGTTCAGAAACG	42	
163[84]	165[97]	TTCATCGCGATTGATCAATGCTTTAAACTATTATAGTCAGA	42	
162[97]	166[84]	TATTCGGTCATAACGAACCAAAATAGCGTTTACCAGACGACG	42	
178[83]	176[70]	GGGGTGTCTGGAAGCTTTCAACAGTTTCTAGTAAATGAATTT	42	
175[84]	177[97]	GTGGCATCAATTAGGTCTTTCCAGACGTAGCCGGAGTGAGAAT	42	
174[97]	178[84]	AGCTACTAATAGTAAGCAAGCCCAATAGACCCTCATTTTCAG	42	

Start	End	icosahedron monomer C core sequences	Length	Color
125[35]	121[41]	AAACAATAGATTTTCAGGTTTCAGATGATGGCAAT	35	
124[41]	122[35]	GAAACCACCAGAAGGAAGGTTATCTAAAAGAGCCG	35	
121[42]	123[55]	TCATCAATATAATCACAACTAATAGATTATATCTTTAGGAGC	42	
120[55]	124[42]	TAAAGAAATTGCGTTCGACAACTCGTATTTTTTTGCGGAACAAA	42	
123[56]	125[69]	ACGTGCCGTAAAGCGAGTAACATTATCATAAATCCTTTGCCC	42	
122[69]	126[56]	TTTGGGGTGAGTACTGATTGTTTGGATACGTAAAACAGAAA	42	
125[70]	121[83]	GAACGTTAATAAATTTAAGTTACTGTATACTTTGAATA	42	
124[83]	122[70]	AATTTTAAAAGTTTACTAAATCGGAACCCCAAATCAAGTTT	42	
121[84]	123[97]	ATGGAAGGGTTAAATACGTGAACCATCACTAAAGGGAGCCCC	42	
120[97]	124[84]	GCGAACCTACCATACAAAAGAATAGCCCGCAAAATCCCTTAT	42	
123[98]	125[111]	CGATTTAGAGCTTGTGGTTCCGAAATCGGAGATAGGGTTGAG	42	
122[111]	120[98]	GGGCGATGGCCCACCAGCTGATTGCCCTCACCAGTGAGACGG	42	
125[112]	121[125]	TGTTGTTCCAGTTTGTGGTTTTCTTTTTCACCGCCTGGCCC	42	
124[125]	122[112]	ATCCTGTTTGATGGACGGGGAAAGCCGGAAAACCGTCTATCA	42	
121[126]	123[132]	TGAGAGAGTTGCAGACGTCAAAGGGCGACGAACGT	35	
120[132]	124[126]	CGCCAGGGGAACAAGAGTCCACCCAGCAGGCGAAA	35	
131[35]	127[41]	TATGGCTTTACGCCAGCTGGCGAAGATCGCACTCC	35	
130[41]	128[35]	GTGCATCTGCCAGTGAAAGGAGCGGGCGCGCGTAA	35	
127[42]	129[55]	AGCCAGCTTTCCGGTAGCGGTCACGCTGCTAGGGCGCTGGCA	42	
126[55]	130[42]	GGGCCTCTTCGCTAGCTTTGACGAGCACGGCGCATCGTAACC	42	
129[56]	131[69]	AGCATCACTTGCCTCGTTGGTGTAGATGGTATAACGTGCTTT	42	
128[69]	126[56]	GATTAGTAATAATGCACCGCTTCTGGTGAGGGCGATCGGTGC	42	
131[70]	127[83]	CCTCGTTAGAATCACGCAACTGTTGGGACCGGAAACCAGGCA	42	
130[83]	128[70]	AATGGGATAGGTCAAGGTAGAAGAACTCAGCAATACTTCTTT	42	
127[84]	129[97]	AAGCGCCATTCGATAAATTAACCGTTGTAAACTATCGGCCTT	42	
126[97]	130[84]	CACCATTCAGGCTGGAGCCGGAGTAAAGGCGGATTGACCGT	42	
129[98]	131[111]	GCTGGTAATATCCACCGTGGGAACAAACCAGGAGGCCGATTA	42	
128[111]	126[98]	TCTGTCCATCACGCAGGAACCAGCCTCATTTTTTAAC	42	
131[112]	127[125]	AAGGGATTTTAGACTTTTTTGTTAAATCAAATTTACTGCGCTC	42	
130[125]	128[112]	ACCCGTCGGATTCTGAACAATATTACCGACCGAGTAAAAGAG	42	
127[126]	129[132]	TGGCCTTCCTGTAGTAATCAGTGAGGCCCCAGCCA	35	
126[132]	130[126]	CATTAAAAGGAACGGTACGCCGTGAGCGAGTAACA	35	
137[35]	133[41]	AACAGAGTCTACGTTAATAAAACACCAGAACGAGT	35	
136[41]	134[35]	AACAAAGCTGCTCAAAATACCTACATTTATTGGCA	35	
133[42]	135[55]	AGTAAATTGGGCTTAATGGATTATTTACTGACGCTCAATCGT	42	
132[55]	136[42]	GTTGGGAAGAAAAAATAGAACCCTTCTGACCCAAATCAACGT	42	
135[56]	137[69]	CTCAAATGAAAAATTACCGATATTCATTACCTGAAAGCGTAA	42	
134[69]	132[56]	GAGAGCCAGCAGGAGAGATGGTTTAATTATACCTGATCAGGAC	42	
137[70]	133[83]	GAATACGTGCACAGAGACTTGGCTCATTCGAACTTTAATCAT	42	
136[83]	134[70]	TAATCTTGACAGAGTAAAGTACATCACTTCAACGTCCACGCT	42	
133[84]	135[97]	TGTGAATTACCTTTTTAACACCGCCTGCTGCTGAACCTCAAA	42	
132[97]	136[84]	TGTATGCGATTTTAGACAATATTTTTGAACCTTCATCAAGAG	42	
135[98]	137[111]	TATCAAACCCTCAAGCATAGGCTGGCTGATGGCTATTAGTCT	42	
134[111]	132[98]	TGAGGCGGTCAGTAACTTAGCCGGAACGCGCGACCTGCTCCA	42	
137[112]	133[125]	TTAATGCGCGAACTATTGTGTCGAAATCAGGCGCAGACGGTC	42	
136[125]	134[112]	TGTACAGACCAGGCTCAATATCTGGTCAAGATAAAACAGAGG	42	
133[126]	135[132]	AATCATAAGGGAACGAACCACCAGCAGAGTTGGCA	35
132[132]	136[126]	CGATAAGATAGCCTCAAAACGGACAGATGAACGG	35
143[35]	139[41]	ATTAAACAGCCGAAACAAAGCATGAGGAAGTTTC	35
142[41]	140[35]	AGGGTAGCAACGGCAGTCCTGAACAAGATAGAAAC	35
139[42]	141[55]	CATTAAACGGGTAAAATTTACGAGCATGAAAATAATATCCCA	42
138[55]	142[42]	CAGCGATTATACCACAAGTACCGCACTCACAGCATCGGAACG	42
141[56]	143[69]	TCTTTTATCCTGAACTCAGCAGCGAAAGATCGAGAACAAGCA	42
140[69]	138[56]	ACCCAGCTACAACTAATACGTAATGCCATCATCTTTGACCCC	42
143[70]	139[83]	AGCCGTTTTTATTATACACTAAAACACCTACGAAGGCACCA	42
142[83]	140[70]	GCGGGATCGTCACCTCTTACCAACGCTAAGTTGCTATTTTGC	42
139[84]	141[97]	ACCTAAAACGAATCCTTAAATCAAGATTACGAGCGTCTTTCC	42
138[97]	142[84]	TTAGAGGCAAAAGATCATCGTAGGAATCTAAAGGCCGCTTTT	42
141[98]	143[111]	AGAGCCTAATTTGCGCTTGCAGGGAGTTATCCGCGCCCAA	42
140[111]	138[98]	GGAGGTTTTGAAGCGAGGTGAATTTCTTGTTTATCAGCTTGC	42
143[112]	139[125]	TAGCAAGCAAATCACTTTAATTGTATCGAAGCGCGCTGATA	42
142[125]	140[112]	TATTCGGTCGCTGACAGTTACAAAATAACTCCCGACTTGCG	42
139[126]	141[132]	CGATAGTTGCGCCGGGCGTTTTAGCGAAACAGCCA	35
138[132]	142[126]	AAGGAGCGATATAGAAGGCTTACGCATAACCGATA	35
149[35]	145[41]	CACCCTCTTTTTTCACGTTGAGTTTTGTCGTCTTT	35
148[41]	146[35]	TAGCATTCCACAGATAAGTATAGCCCGGTACCGCC	35
145[42]	147[55]	CCAGACGTTAGTAACTCAGGAGGTTTGAATAGGTGTATCAC	42
144[55]	148[42]	ATTGCGAAATAAATAAATTTTCAGGGATAGAACTACAACGCCTG	42
147[56]	149[69]	CGTATAGTCAGAAGTCGTCACCAGTACACAAGCCCAATAGGA	42
146[69]	144[56]	TACCCTGACTATTAATGAATTTCTGTAGAACAACTAAAGGA	42
149[70]	145[83]	ACCCATGTACCGAAGTGAGAATAGAAGTGGATTTTCGTAA	42
148[83]	146[70]	AATAACACTGAGTTCAAAGCGGATTGCAAAAAATCAGGTCTT	42
145[84]	147[97]	ACAACTTTCAACCCAATGACCATAAATCTCAAAAGATTAAG	42
144[97]	148[84]	TAAGTTTCAGCGGAGAAGTTTTGCCAGACGAGAGGCTTTTGC	42
147[98]	149[111]	AGGAAGCCCGAAAGAAAAACCAAAATAGGGGGGTAATAGTAA	42
146[111]	144[98]	GTTCAGAAAACGAGACATTCAACTAATGTTGAGATTTAGGAA	42
149[112]	145[125]	ATGTTTAGACTGGGAAAGATTCATCAGCAGATACATAACGC	42
148[125]	146[112]	TACCAGACGACGATACTTCAAATATCGCAAATGCTTTAAACA	42
145[126]	147[132]	CAAAAGGAATTACGATTGAATCCCCTTCGTTTTAA	35
144[132]	148[126]	ACAGGTAATAGCGTCCAATACTCATAACCCTCGTT	35
155[35]	151[41]	TGCCTGTTCGGCCAACGCGCGAGCCGAAGCATAA	35
52[41]	50[35]	CCCTTCGTGGAATTGGCGCGGATGTCACTGATGCGG	35
49[42]	51[55]	AGTGTAAAGCCTGGGGTGCTGCGGCCAGCCGCCTGTGCACT	42
48[55]	52[42]	GCTGCATTAATGAATCTTTCGCGTCCGTGGGTCATAGCTGTTT	42
161[35]	157[41]	GGCGTAAGCGGCCTTTAGTGAGCTCTCACGGAAA	35
160[41]	158[35]	CCCGGAATTTGTGAGCGATTAAGTTGGGAAAACGA	35
157[42]	159[55]	AGAGACCGAGAAACAGTCACGACGTTGTTAACGCCAGGGTTT	42
156[55]	160[42]	AAAAAGCCGCACAGATTCAGAGGTGGAGCCATGTTTACCAGT	42
179[35]	175[41]	AATATAATTAGCAAAATTAAGGCAAATGGTCAATA	35
178[41]	176[35]	ATTCTGCGAACGAGCGGAGCAAACTCCCTCCTTT	35
175[42]	177[55]	ACCTGTTTAGCTATAGTACCTTTAATTGAACAGGTCAGGATT	42
174[55]	178[42]	GGCAAGGCAAAGAATGCTGTAGCTCAACACAGTTGATTCCCA	42
167[35]	163[41]	TATTCATGGAACCAGAGCCACCGTAATCAGTAGC	35
166[41]	164[35]	TAGCAAGGCCGGAATCACAATCAATAGAAAGGGCG	35
163[42]	165[55]	GACAGAATCAAGTTAGCGCCAAAGACAAAAATTCATATGGTT	42
162[55]	166[42]	TAATCAAAATCACCTAAAGGTGAATTATAGCACCATTACCAT	42
95[35]	91[41]	GCGTTAATAATGCAGAACGCGTTAACAACGCCAAC	35
94[41]	92[35]	AAAGCCAACGCTCACAAAGAACGCGAGATCTTCTG	35
91[42]	93[55]	ATGTAATTTAGGCATTTAGTTAATTTCAAAACTTTTTCAAAT	42
90[55]	94[42]	ACAACATGTTCAGCATAAGAATAAACACATTCTTACCAGTAT	42
45[98]	47[111]	ATCAGATGCCGGGTCCGCAAGAATGCCAAACCAGTTACGGC	42
44[111]	42[98]	GGTCACTGTTGCCCGTCGCTGGCAGCCTGGTCCGTTTTTCG	42
47[112]	43[125]	TGGAGGTGCCAGCGTTCCGGCAAACGCCCGGCCAGAGCACA	42
46[125]	44[112]	CTGGTCAGCAGCAATACCTGCAGCCAGCTGCCGTATGACCG	42
43[126]	45[132]	TCCTCATAACGGAACCGCCGGGCGCGGTGGTGCCG	35
42[132]	46[126]	GATTGCCATCAGCGGGTCATAGCGTGGTGCTGGT	35
153[98]	155[111]	AAACAGGAAGATTGAAGATTCAAAAGGGAATATGATATTCAA	42
152[111]	150[98]	AGAGTCTGGAGCAATTTTGCGGGAGAAGATTATGACCCTGTA	42
155[112]	151[125]	CCGTTCTAGCTGATGTTGTACCAAAAACCCTTTATTTCAACG	42
154[125]	152[112]	GTAATGTGTAGGTATATAAGCAAATATTCAGGTCATTGCCTG	42
151[126]	153[132]	CAAGGATAAAAATTTCTACAAAGGCTATTAAATTG	35
150[132]	154[126]	TAAATCGAAATTAATGCCGGAAATGCAATGCCTGA	35
171[98]	173[111]	TAGGATTAGCGGGGAATAAATCCTCATTTACCGTTCCAGTAA	42
170[111]	168[98]	CCCGTATAAACAGTCAGAGCCGCCACCACCTCAGAGCCACCA	42
173[112]	169[125]	GCGTCATCATGGCCTCGACGCCGCCACGAACCACCACCAGA	42
172[125]	170[112]	GATATTCACAAACATTTTGCTCAGTACCCTTGAGTAACAGTG	42
169[126]	171[132]	GCCGCCGCCAGCATAACGGGGTCAGTGCAGGCGGA	35
168[132]	172[126]	CGCCACCTTTTGATGATACAGAGACGATTGGCCTT	35
99[98]	101[111]	ACATAAAGTGGCAAATATCAGAGAGATAGAGCAAGAAACAA	42
98[111]	96[98]	ACCGAGGAAACGCATTTACAGAGAGAATAAAATGAAAATAGC	42
101[112]	97[125]	TGAAATAGCAATAGTTTGTTTAACGTCAAACATAAAACAGG	42
100[125]	98[112]	GGTAATTGAGCGCTACATATAAAAGAAAGTTACCAGAAGGAA	42
97[126]	99[132]	GAAGCGCATTAGACGATAGCCGAACAAACGCAAAG	35
96[132]	100[126]	ACGATTTCTATCTTACCGAAAGGAACAAAGTCAGAG	35
57[98]	59[111]	CCGGCTTAGGTTGGAGAAAACAAAATTATTTAATGGAAACA	42
58[111]	54[98]	TTGAAAACATAGCGTGATTCTTGAATTAAATAACGGATT	42
59[112]	55[125]	GTACATAAATCAATTTTACATCGGGAGAACCAAGTTACAAAA	42
58[125]	56[112]	TGAAACAAACATCAGTTATAATACTATATTCCCTTAGAATCC	42
55[126]	57[132]	TCGCGCAGAGGCGAGCTATTAATTAATTTGTAAAT	35
54[132]	58[126]	AGTACCTATATGTGAGTGAATGCAAAAGAAGATGA	35
Start	**End**	**icosahedron monomer C non-crossover vertex staple sequences**	**Length**	**Color**
128[34]	126[19]	CCACCACACCCCGCCTTTTTTTTTTTTTCGGCCTCAGGAAGGGGG	46	
123[133]	120[133]	GGCGAGAAAGGATTTTTTTTTCTCCACAAGCTTTTTTTTTTGCGTATTGGG	52	
50[34]	48[19]	CGGGCCGTTTTCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	46	
45[133]	42[133]	GTGCCCCCTGCATTTTTTTTTTTCAATCCGCTTTTTTTTTTAAACGATGCT	52	
158[34]	156[19]	CGGCCAGTCCCAAGCTTTTTTTTTTTTTGAAGGGATATGAAGGGTA	46	
176[34]	174[19]	TGATAAGAGTCATTTTTTTTTTTTTTTATACATTTCCAATAAAGC	46	
147[133]	144[133]	TTCGAGCTTCAATTTTTTTTTTTATTCAGGCATTTTTTTTTAACAACATTATT	52	
134[34]	132[19]	GATTCACCAGTCACACTTTTTTTTTTTTTGACGAGAAACGAACTAA	46	
129[133]	126[133]	TTGCAACAGGAATTTTTTTTTTTTACCAGCTTTTTTTTTTTGTTAAAATTCG	52	
153[133]	150[133]	TAAACGTTAATATTTTTTTTTTAGAGATTTAGTTTTTTTTTAGAGCATAAAGC	52	
92[34]	90[19]	ACCTAAATTTAATGGTTTTTTTTTTTTTCGCCATATCCTGTTTAT	46	
57[133]	54[133]	GCTGATGCAAATTTTTTTTTTCGTCATTATTTTTTTTTTATATACAGTAAC	52	
122[34]	120[19]	TCAATAGATAAATCATTTTTTTTTTTTTCCTGATTATAACGTCAGA	46	
135[133]	132[133]	ATCAACAGTTGTTTTTTTTTCGAACCTAAATTTTTTTTTTGTATCATCGC	52	
140[34]	138[19]	CAATCAATAATCGGCTTTTTTTTTTTTTTTAGACTTTTTTTACAACGGA	46	
146[34]	144[19]	ACCCTCAGAACCGCCATTTTTTTTTTTTCGATCTAAAAAATCTCCA	46	
171[133]	168[133]	TAAGTGCCGTCGTTTTTTTTTTTGTTTTTGACATTTTTTTTCTCCCTCAGAGC	52	
164[34]	162[19]	ACATTCAACCGATTGATTTTTTTTTTTTATAGCAGCACACCGGAAC	46	
99[133]	96[133]	ACACCACGGAATTTTTTTTTTAAGCAGGGAGTTTTTTTTTCCAAATAAGAA	52	
141[133]	138[133]	TATTATTTATCCTTTTTTTTTCGCGAACAATTTTTTTTTTAAAAGGCTCCAA	52	
Start	**End**	**icosahedron monomer C crossover vertex staple sequences**	**Length**	**Color**
129[19]	53[34]	GAAGAAAGCTTGAGGGGATTTTTTGCCTATTTTTTTTTCTGCCAGCACGCG	52	
51[19]	161[34]	GACGATCCATTATCCGCTTTTTTACGTCTGCAGTTTTCGGCTTGACATATCCC	52	
159[19]	131[34]	TGCTGCAAGGAGATAGACTTTTGCTACAGGGCGCGTAC	38	
174[19]	137[34]	GAACCAGCTAGTTTTTTGCTATGCGCGGTTTTTAAGGGACATTCTGGCC	52	
135[19]	131[144]	CGCTCATGGTTCAGTGAATTTTTAAATAGAAT	32	
154[144]	179[34]	TTTTAGAGGGTTTTTAGAGCTTAATTGCTG	30	
93[19]	125[34]	ATCGCAAGAACAGTAGGGTTTTCCTGAAACCTTTTTAAGTATTAGACTTTAC	52	
123[19]	143[34]	GGAATTGAGGAGCGGAATTTTTAAAGAATCGCTTTTCATTCCAAGAACGGGT	52	
141[19]	95[34]	CAATAGATATACAGAAGGCTTTTCCGTGTGATAAATAAG	38	
147[19]	167[34]	GGGTTGATACAGCCCTCATTTTAGGTCGAGTGTTTAAATATTGACGGAAAT	52	
165[19]	101[144]	TTTATTTGACGTCACCATTTTACCCTCCCTT	32	
142[144]	149[34]	CGCCCATCCGTTTTCCACCCTCAGAGCCAC	30	
Start	**End**	**icosahedron monomer C connector staple sequences**	**Length**	**Color**
51[56]	53[69]	CTAAGGAAACCGAGGAATTCGTAATCATAGCCTCCTCACAGT	42	
50[69]	48[56]	CAAAGTTACCAGGTGGTGCCTAATGAGTAACCTGTCGTGCCA	42	
53[70]	49[83]	TAGGGATCCCCGCTCTTTCCAGTCGGGAGAGCTAACTCACAT	42	
159[56]	161[69]	TCTTAAGACGCTGACGAAACGTACAGCGCCCGCCACGGGAACG	42	
158[69]	156[56]	CGATAGCTTAGACCAGCGGATCAAACTTAAAAATCCCGTAA	42	
161[70]	157[83]	GATAACCTCACCAGTGTACATCGACATAAAATTTCTGCTCAT	42	
177[56]	179[69]	AGTTTGCTAAAACAATTCATTCCATATAATGTTTTAAATATG	42	
176[69]	174[56]	TCTGTATGGGATAGATTTTCATTTGGGGCAATAAATCATACA	42	
179[70]	175[83]	CAACTAAAGTACATGTAGCATTAACATCCGCGAGCTGAAAAG	42	
165[56]	167[69]	TAAATCAAAAATCAGCAAAATCACCAGTCACCGTCACCGACT	42	
164[69]	162[56]	AGAATGACCATTACCCTTTAGCGTTGATTGCCATCTTTTTCA	42	
167[70]	163[83]	TGAGCCATTTGGAACCCCTTTATTAGCGTGACTGTAGCGCGTT	42	
93[56]	95[69]	ATAAAGAGTCTGTCTATGCGTTATACAACGGAATCATAATTA	42	
92[69]	90[56]	GGCCACCGAGTAATGAGGCATTTTCGAGGACGACGACAATAA	42	
95[70]	91[83]	CTAGAAAAGCCACAGTAATTCTGTCCACCAGTAATAAGAGA	42	
46[83]	44[70]	GGTCAGACGATTGGCTGGTGGTGTTCAGCGGTAAAGGTTTCTT	42	
43[84]	45[97]	AACGGGGTCAGTTCTGCGGCTGGTAATGAATCGTTAACGGC	42	
42[97]	46[84]	TCGCCTTGAGTAACGTGCCATCCCACGCACGGCAGCACCGTC	42	
154[83]	152[70]	GAACACCGGAATCACCCCGGTTGATAATGAACGGTAATCGTA	42	
151[84]	153[97]	CAGAGGCATTTTACACAAGAGAATCGATGAAAAGCCCCAA	42	
150[97]	154[84]	ATCGAGCCAGTAATGTCAAATCACCATCTGAGAAAGGCCGGA	42	
172[83]	170[70]	AAGGCTTCGCAGGAAGGGCTGAGACCTCATTTCGGAACCTA	42	
169[84]	171[97]	AAATACGTAATCTTAATCCCCCCCTCCTCTAAGAAGGAGAT	42	
168[97]	172[84]	CCGCCACTACGAAGGCAGTCTCTGAATTAAAGCCAGAATGGA	42	
100[83]	98[70]	GAGCCCCAGCAGCAGTATGTTAGCAAACCCAAAGAACTGG	42	
97[84]	99[97]	ACGTCAAAGGGCCCATAATAACGGAATACGTAGAAAATACAT	42	
96[97]	100[84]	AGGAAAACCGTCTTAAGCCCAATAAAAACCCACAAGAATT	42	
58[83]	56[70]	TTCAAGTACCGCACTAGGTCTGAGAGACGACGCTGAGAAGAG	42	
55[84]	57[97]	GACTTGCGGGAGCCATAGCTTAGATTAATACCTTTTTAACCT	42	
54[97]	58[84]	CGGTTTTGAAGCCTATTTGAATTACCTTATTACATTTAACAA	42	

>p7308 scaffold
TGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGGCTATTCTTTTGATTTATAAGGGATTTTGCCGATTTCGGAACCACCATCAAACAGGATTTTCGCCTGCTGGGGCAAACCAGCGTGGACCGCTTGCTGCA
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