

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.

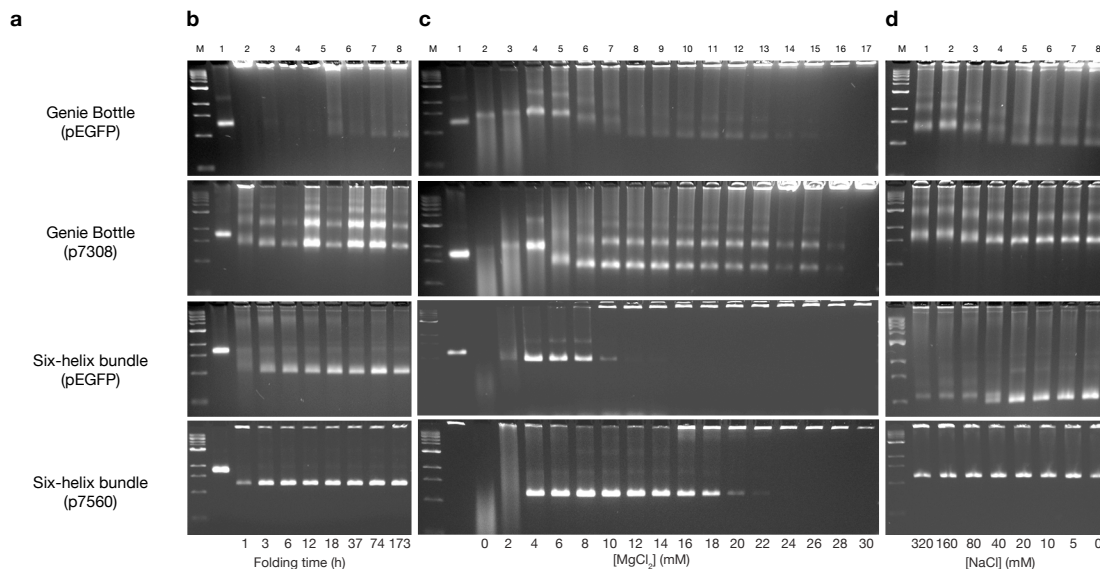


Figure S2 | Gel analysis of genie bottle and six-helix bundle folded with different scaffolds. Samples were electrophoresed in a 2% agarose gel containing 11 mM MgCl₂, 0.5 µg·ml⁻¹ ethidium bromide, 45 mM Tris base, 45 mM boric acid, and 1 mM EDTA (pH 8.0). **a**, Design names, with scaffold name in parentheses. **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 MgCl₂. **c**, Objects were folded using a 173h ramp in 5 mM Tris, 1 mM EDTA, and varying MgCl₂ concentrations (indicated at bottom). Insufficient MgCl₂ concentration inhibits completion of proper folding (cf. panel **d**). Excess MgCl₂ 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 MgCl₂. 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).

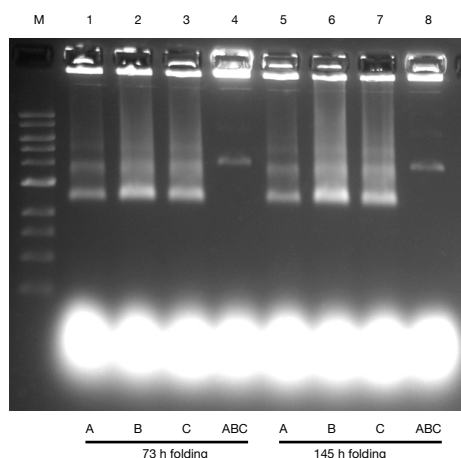


Figure S3 | Gel analysis of icosahedron. Samples were electrophoresed in a 1% agarose gel containing 11 mM MgCl₂, 0.5 µg·ml⁻¹ ethidium bromide, 45 mM Tris base, 45 mM boric acid, and 1 mM EDTA (pH 8.0). Marker: 1 kb ladder; Lane 1: icosahedron double-triangle monomer A, 73-hour folding; Lane 2: monomer 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 MgCl₂). 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 restriction 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 µg/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

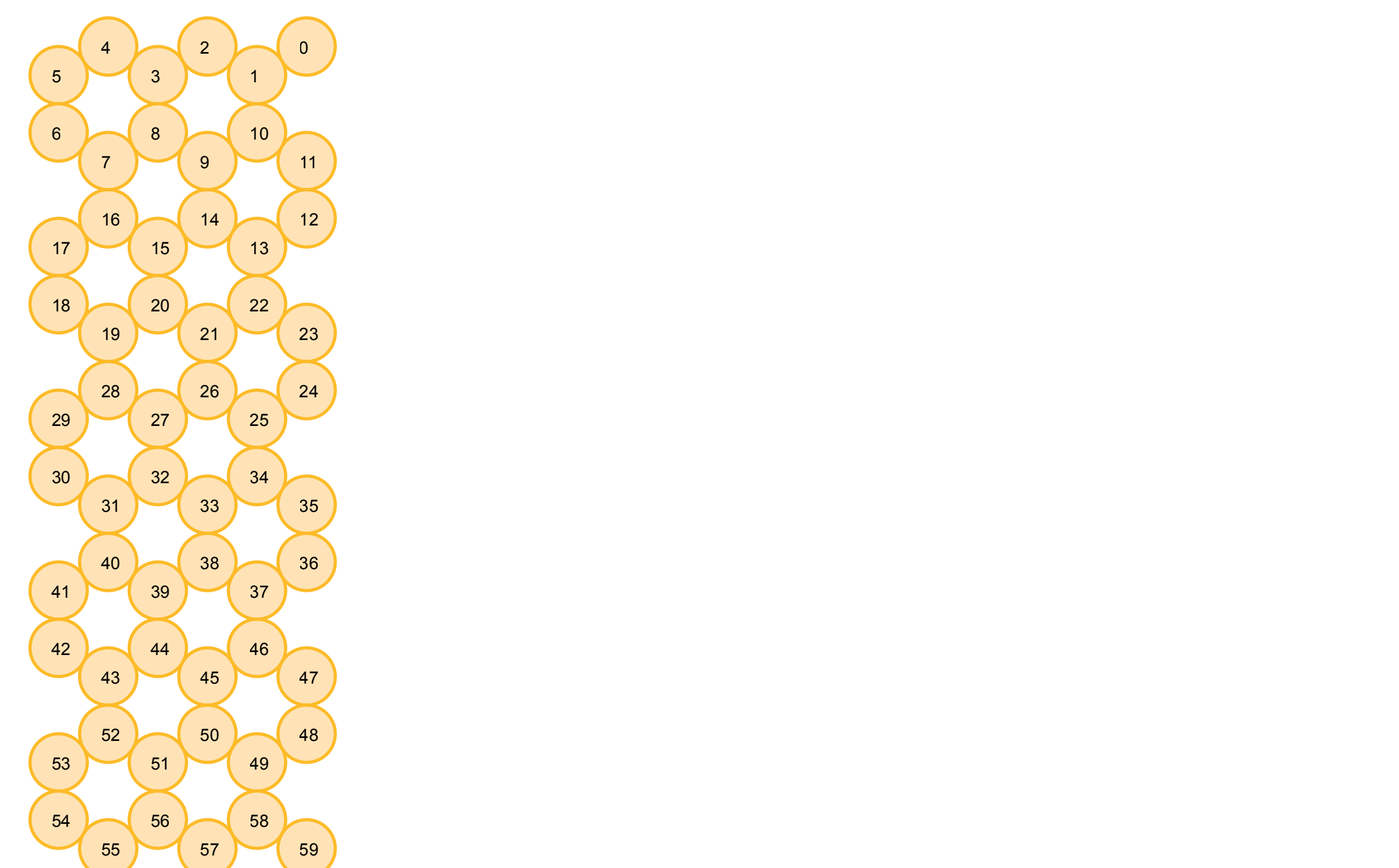
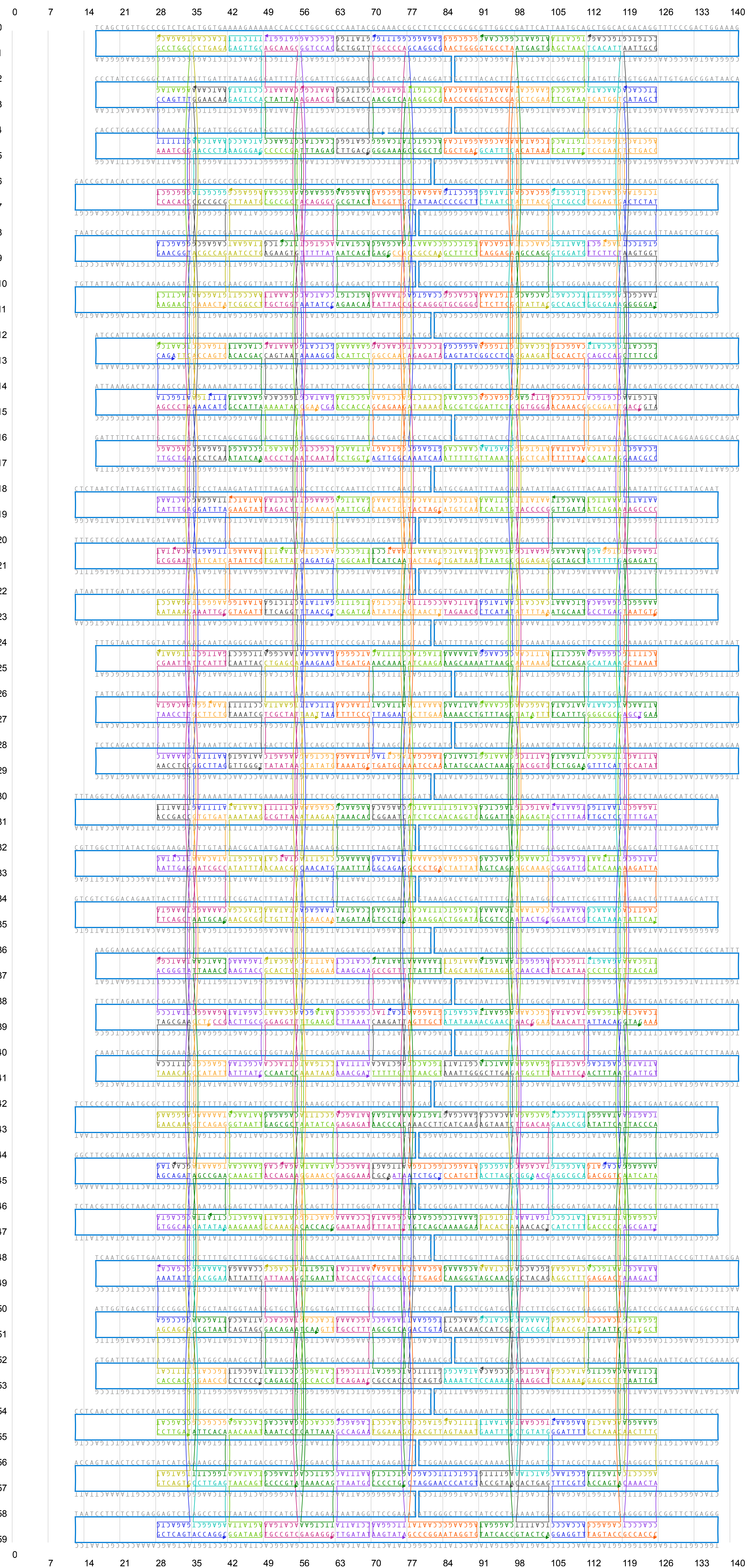


Figure S5 | square nut design schematic

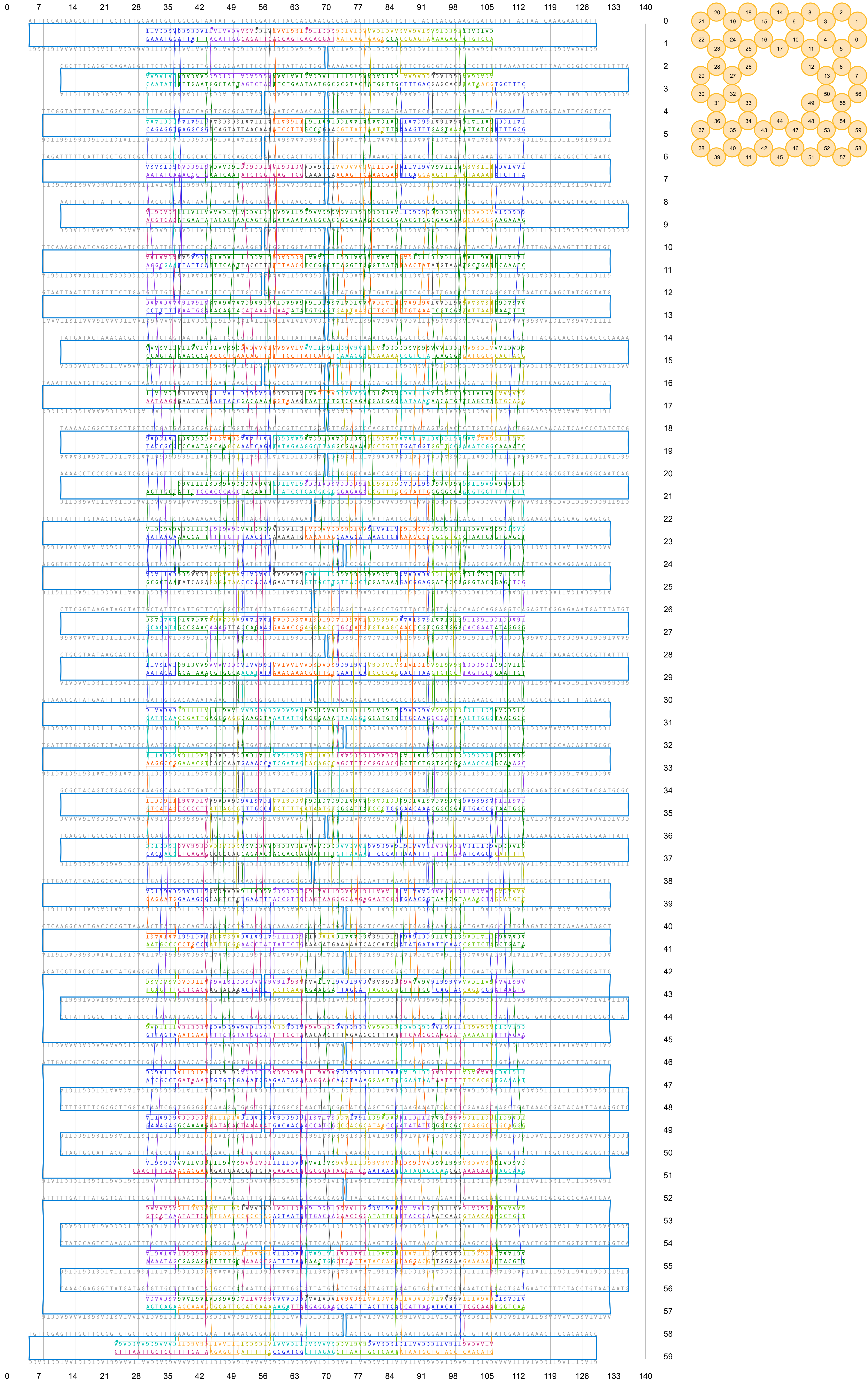


Figure S6 | railed bridge design schematic

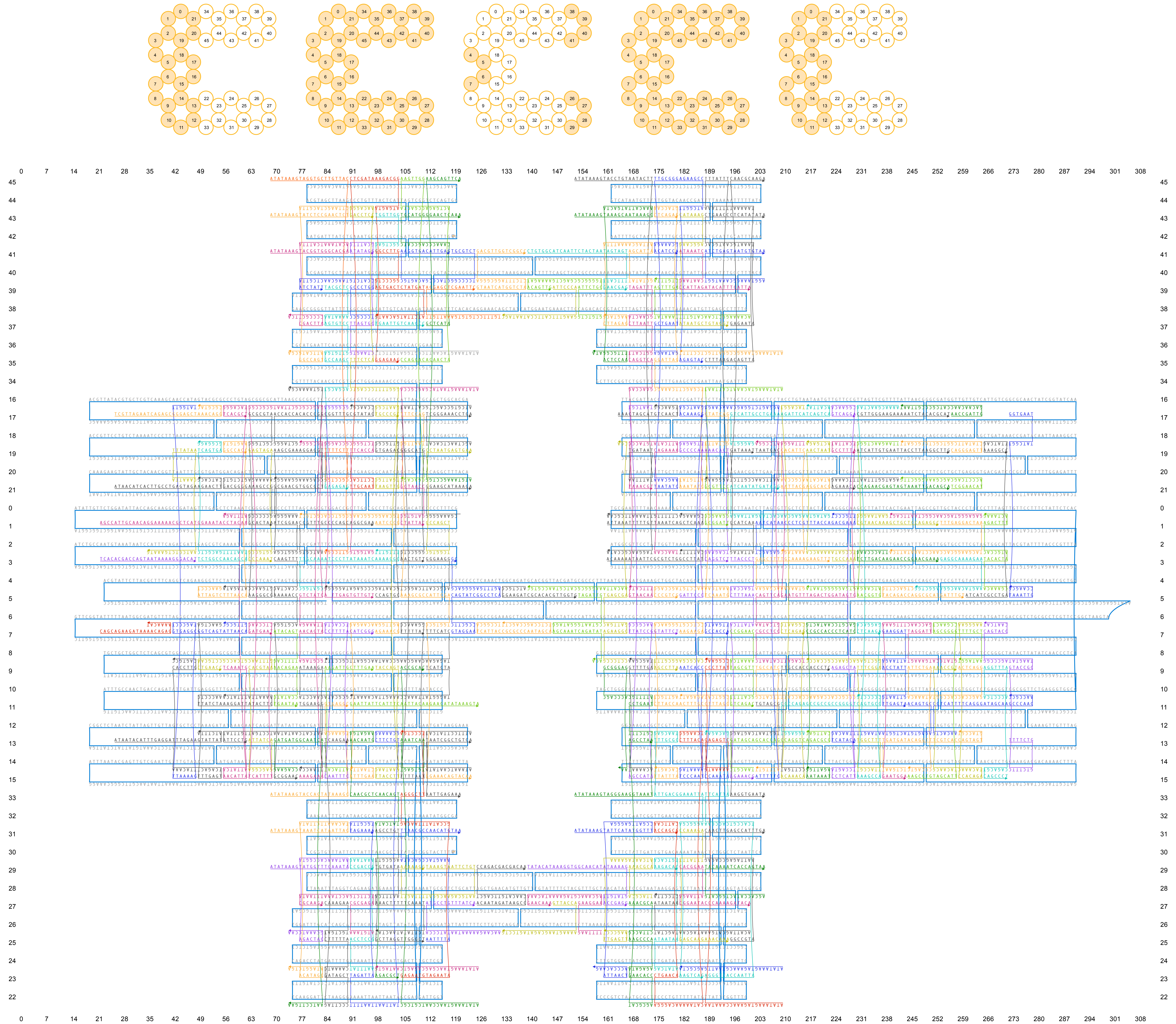


Figure S7 | slotted cross design schematic

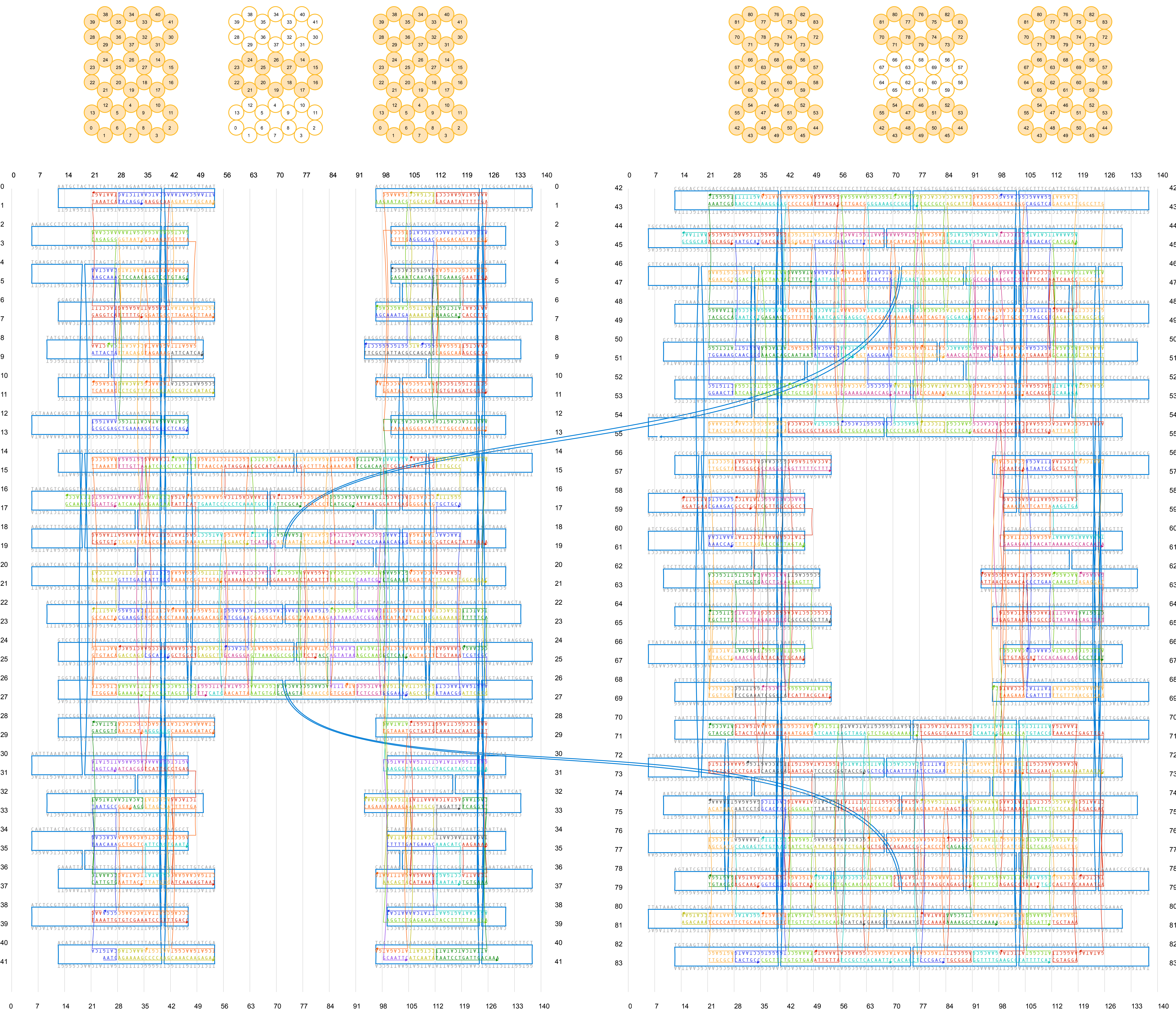
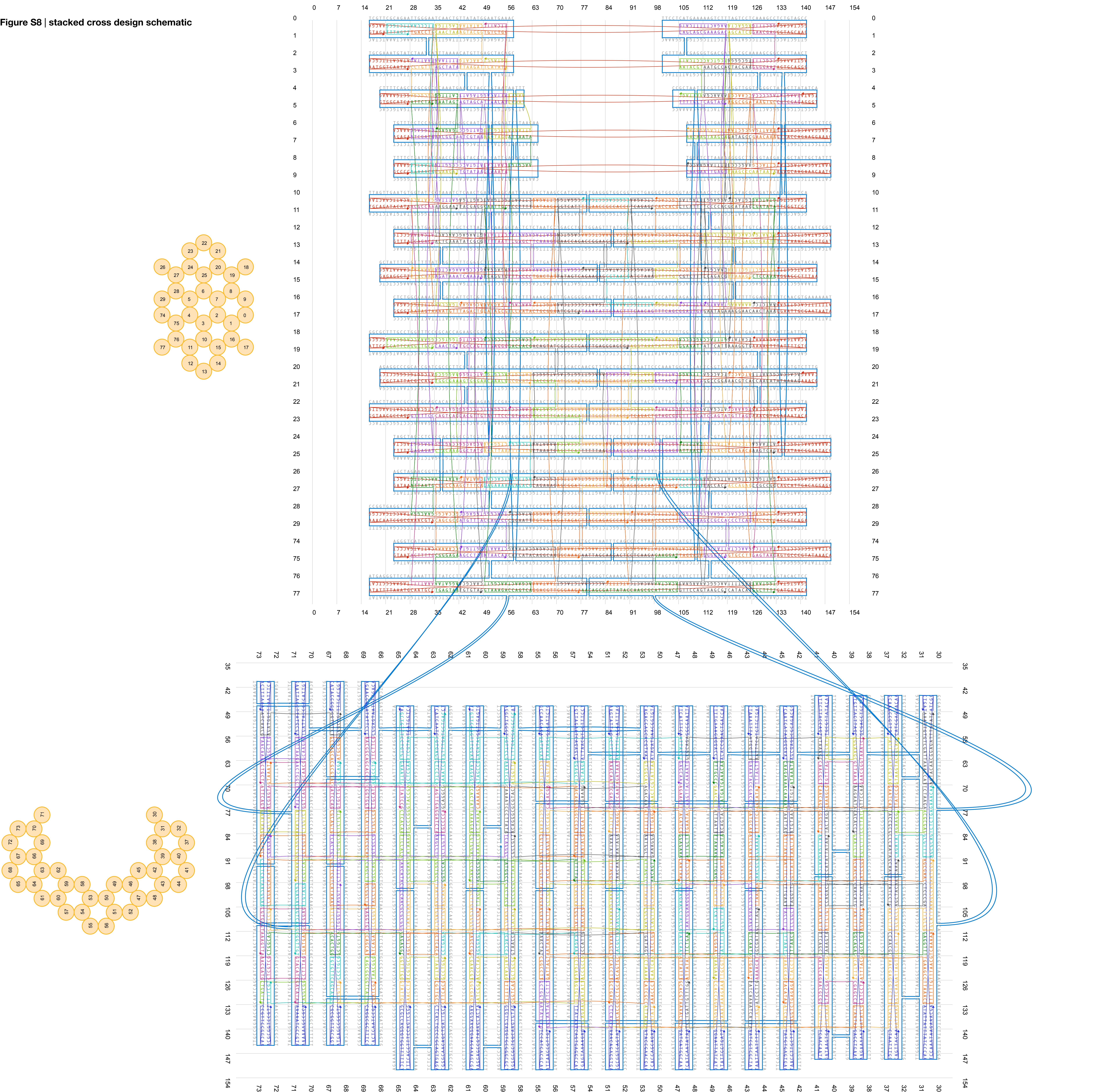


Figure S8 | stacked cross design schematic



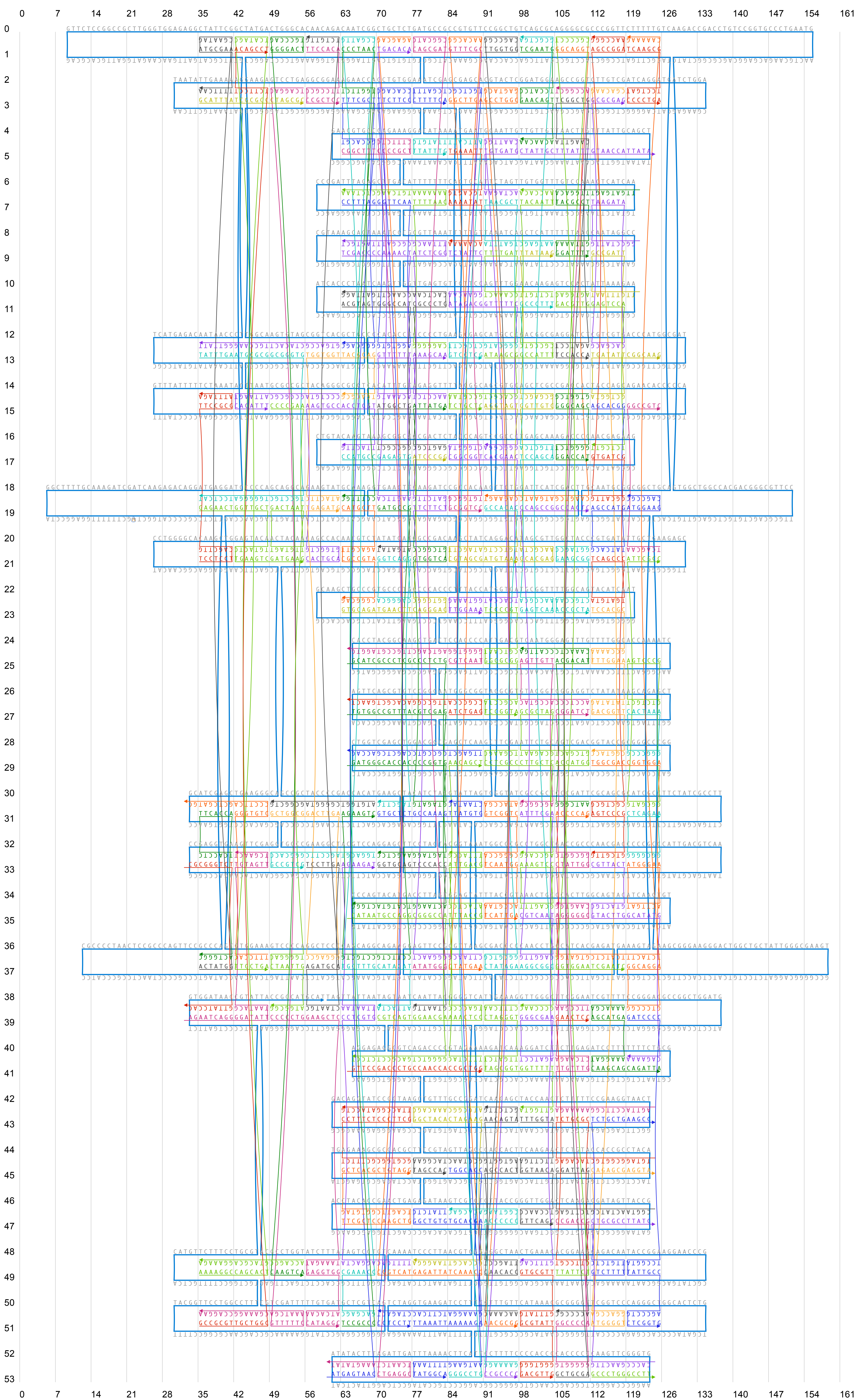


Figure S11 | icosahedron monomer design schematics

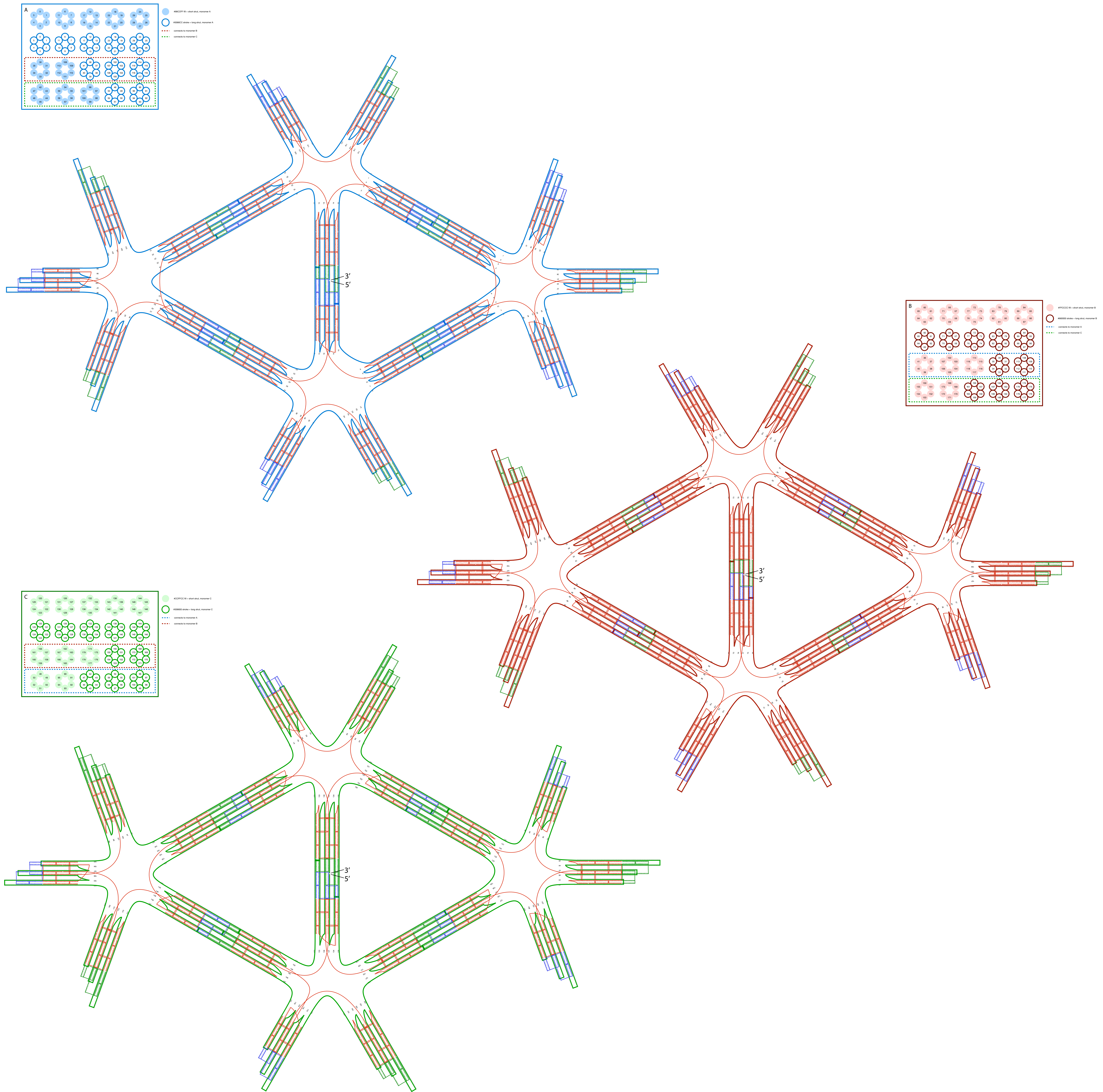
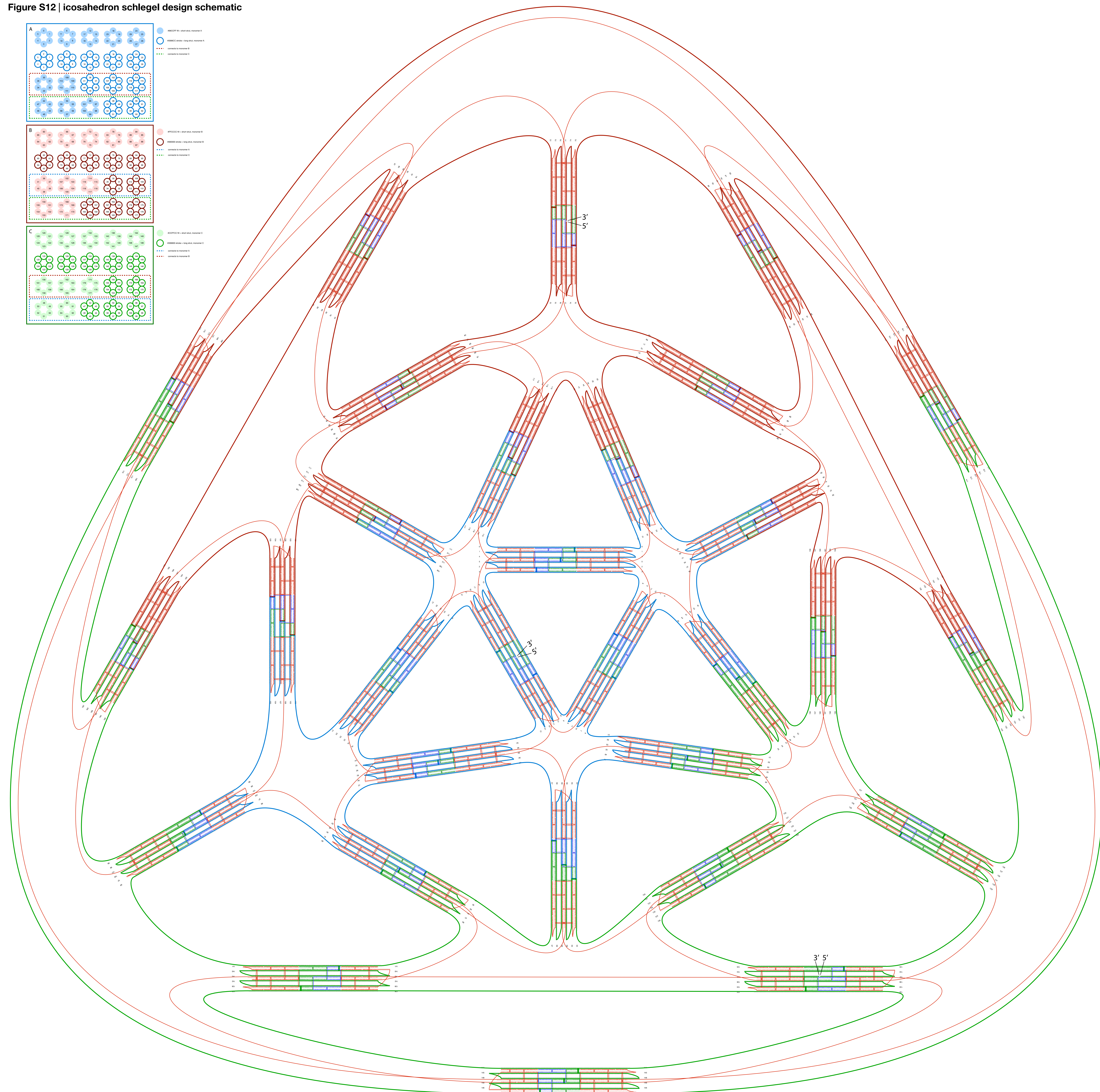


Figure S12 | icosahedron schlegel design schematic



Start	End	monolith staple sequences	Length	Color
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0[69]	5[69]	GTATTGGGCTGGTTGGTTCGGGACTCCCGATGGCCTTGACG	42	
0[90]	12[91]	GCGCGGGAAGCTGGGGTGCCTATTGTAAACTCTTCGGTTGGGA	42	
0[111]	5[111]	TGCATTAAGCTAACCGAGCCGTTTCGTAATGTTACCTCATTTTC	42	
2[34]	12[28]	AGAATAGGCCTGGCTACTTCTAAGAACTTCAATCG	35	
2[55]	12[49]	CAAAATCAGCAAGCGCAAATTTGCTGGTGAAATAC	35	
2[76]	10[84]	TGATGGTTGCCCCAGTAAAAGTATTACCGCCAGGGTGCGGGCACGACGG	49	
2[97]	14[91]	AAAGTGTAAGCAAAACCCGGGTACCGAATGACAACAGGAGAGGGACGA	49	
2[118]	12[112]	CAACATATCACATTAGGGTTTGGCGAAACGCCATT	35	
4[34]	13[31]	GTTTTTTCAGTTTGGAGCTAGAACGGTATGGCTACAGA	39	
5[28]	20[31]	AAATCGGGGGCGCTCCACACCCAGCAGCAGCCCTAACAT	39	
5[49]	20[52]	CCCCGAAAGCGAACGCCGCTCAACAGTAAAAACTTTAA	39	
5[70]	9[73]	GGGAAAGCCGGCTCACCGTCTATCAGGGAACGTCAGACGAGCGAGG	46	
5[91]	16[91]	GCATTTTCATATAGGCTAATCTCGAGTAA	28	
5[112]	20[115]	TCCGAACGCAACTCTGGAGTGTTTCATCAGCGGATTCTGG	39	
6[41]	4[35]	GGCGCTAAACCTTAAATCAA	21	
6[62]	8[52]	GGGAAGATTTAGAGCCACTACGTGAACCTTATTAATTCC	39	
6[83]	20[73]	AAGAACGTGGCGAGATGGTTGGGTCAGTGCAGAAGAAAT	39	
6[104]	5[90]	GGCACGAACATAAATCGATAAAGACGGAGGATCAAGGCTGAC	42	
6[125]	8[115]	TCTGTAATCTGACCAGTACGTGGTGCTTCATGGTTAGT	39	
8[51]	24[49]	TCGAGAAGTGTGGCACACAGTAATCTTCTGATTCAAGTTAACGGA	45	
8[114]	24[112]	GCTTCTTCTCCGTGCACAGCCAGGGAGACAGCCTGAGCGGGAGA	45	
9[74]	23[83]	CCAACCTGAAGGCCAACATCCTGAATATACAGTAACCTT	38	
9[84]	2[77]	GCTTCTTGTCGCCGCCAAATTAAGGGCGTCTCTGT	35	
10[83]	0[70]	CCAGTGAGCAGGCGGAGAGCGGTTTTGC	28	
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11[63]	6[63]	AGAACAAAGTCTGTAATCAGTACGTATAGCGTACTAAAGGAA	42	
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12[48]	17[48]	CTACATTACACGACGACAATAGCCATTAGCCACGCATATCAA	42	
12[69]	17[69]	GAAAAACACATTCTAGCGTAAACCACCAATTAACATCTGGTC	42	
12[90]	24[91]	AGGGCGAGAGTATCGGCCTCAAATATGACTCATATCGCAAGG	42	
12[111]	17[111]	CAGGCTGCGCACTCTCTGCCAACAAACGACATTAATTTTTAA	42	
13[32]	24[28]	TTCAGAACCTAATAAAGTTGAATA	24	
14[37]	0[28]	TGAACGCCAGGTAGCAACCTGAGATCACCAGTGAGACG	38	
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14[100]	0[91]	GAGAGCCAGGCACGACGATGAGTGATGAATCGGCCAAC	38	
15[60]	0[49]	CGAGAATACGTTTTTATCCATCACGGTCCACGCGCCAGGGTGTT	45	
15[123]	0[112]	GTAATCGTAAAGTGTTAAGCCCAATTGCGCTGTCTGCCAGC	45	
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17[49]	32[52]	ACCCTCATATCTAATAGACTTAAGAGTCTCGCTATGTAT	39	
17[70]	6[84]	AGTTGGCAAATCAAGTGAGGCTATAACCCCGCTTGGCCTTG	42	
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54[125]	39[122]	GAAAGGATAATTGTTCTTAAATTACCCAAAAGAGGGTAG	39	
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57[56]	47[62]	TAAACAGTTCTGAAGTGAATTATGGTTTACCACG	35	
57[77]	45[83]	CTAGGAACCCATGTTCTGCTTTCCAGCAGACTGTATGGGAATATCTGCT	49	
57[98]	47[104]	CACTGAGTCATTTTGCTACAGGGCACCAAAACACT	35	
57[119]	47[125]	CAAACTACCACCCTAAAGACTAATACGTAGCGATT	35	
59[42]	54[42]	GGATAAGAGTATTATAACAGTTCATACAAACAATCACCAGA	42	
59[63]	54[63]	TTGATATCCTATTATTAATGCAATTTACGCCAGAACAGAGCC	42	
59[77]	48[70]	GCCCGGAATAGGTGAGCAAGCCCAATATCTTGAGCAGCAATCAATAGAA	49	
59[105]	54[105]	GGAGGTTACCACCCTTTCGTGCGGTAACGGATTTTAAAGGAAT	42	

Start	End	square nut staple sequences	Length	Color
0[48]	10[45]	TACCGCCGAGGCGGCTGATAGTTATTCAGGGA	32	Blue
0[58]	0[70]	AGACAGATTCACCACTCACACGATGCCTTGC	31	Red
0[69]	17[66]	TGGTAATATCCTTTTTGGATTTTTTAACCACCGACCGGTA	39	Orange
0[111]	11[108]	CATCACTATTATCAGATTATCTGCT	25	Green
1[46]	14[45]	TTTCAACAGATTTGAAATATTATTATGAATAATAA	35	Green
1[88]	14[87]	CCACCTGAGAATGGTTGAATGCGCGCCGGCGCCCCG	35	Green
2[69]	5[73]	TAATAAATTCTGAATAATGGCTGATTGTGCCC	32	Green
2[97]	5[87]	CCAGAATCCGAGTAGTAGAAGAACTCAAAATT	32	Yellow
3[56]	0[49]	AGTCTACAGGGACATTCTGGCACATTGGACAATAT	35	Purple
3[109]	18[108]	ACGACCACCAGGAAGGGATCGGAAGATGGCCGAAC	35	Orange
5[74]	56[70]	GAATTCGACACAAATCAACATAAC	24	Grey
5[88]	16[87]	TTACATCAATGGTTATACTAAATTCGACGACAGCA	35	Green
5[102]	3[108]	AACTGCCTGAAAAGAGTCTGTCCAACAGGAATATA	35	Light Green
6[55]	49[48]	TGCAACAAATCAATCGAGGCATAGTAAGCGAGAGGCCATTAAGCAAAAG	49	Green
7[46]	11[38]	CTCGTGCCACTAATGGAATGATGAAACAAACAGGC	35	Purple
7[95]	49[87]	GGACCACATTCAACTAATACCAGTACAGAGGATAA	35	Orange
8[69]	10[73]	GTTAGAAGATAAAATAAGGCACTTGA	25	Green
8[97]	7[94]	CGCGCTTCTTTGACGGCAATTAAGTTTAGTATTATTGA	39	Blue
8[118]	56[112]	GCGCGTATGCTTTCTATTCTTTTTTGCCTAATACAATCTTTAATCAGTT	49	Blue
10[44]	24[45]	GAAGAATATAAGAATCGTATCAGAGGAA	28	Grey
10[72]	55[73]	AATTCCGGCTGGTCTGATGTGAGTGACTAAAGAAC	35	Green
10[93]	55[94]	GACTAACTATAGTGAATCTGTAAAAACGGCTCAGG	35	Orange
11[39]	2[35]	GAACCTAAACAATATTGATAGAA	24	Cyan
11[56]	0[59]	TACCTTTATTTAATGCGCGAATCAGTATTAACAAAATCC	39	Grey
11[109]	24[108]	GATTAGTTAATCAGCTAAATATCCGGGTACCCCGC	35	Green
12[83]	2[70]	AATCATATAGTTTGATAATCCGCGTACTAGTGTTTTACCAG	42	Green
12[104]	2[98]	AGTCAATATGTAAAAGATGATGAGCACGCGGTACG	35	Grey
13[39]	1[45]	TTTGCTGAGACAGAGGTAGCCATTGAAATGGATTA	35	Blue
13[67]	55[55]	ATAGAGACTACCGAGCAAAAGAAGAACAGTAGAAGTTTCTTTTGC	45	Green
13[81]	1[87]	AACCAACAACGTTATTACTATCGAATCAGTGAGG	35	Orange
13[116]	54[112]	TTTCAGCATCTACGTTAGTAAAT	24	Green
14[44]	21[45]	TTAAAAGCCACCGCACTCCCAATATTTTAGCATTT	35	Green
14[55]	3[55]	CGGAATCTACAGTAACAGTGTCTACCATATCAAAGGCTATT	42	Green
14[69]	16[73]	ATAAGAATTTCTTTATCATGTAATC	25	Orange
14[86]	21[90]	ATTCGAAAAAGAACGTGTCTGTTGCTGTTCCGTTTG	38	Yellow
14[118]	13[115]	GCACTAAAAGAAAGTATATTTGCAAATCAAGACGCTAAT	39	Green
16[72]	8[70]	AATTAATTCTGTCCAGATAATGGTGGGAAACGCTACAGGGAAGG	45	Green
16[86]	18[70]	TGTCGATAAAATACGAGCCGAGCGGAAAAGACTCCAACCTCAA	45	Green
16[100]	10[94]	CTATCAGGGCCCTAAAGGGAGCCAACGTGGTTCT	35	Green
17[35]	8[35]	AATAAGAACAATAAACGTCAGGCACGTA	28	Red
17[56]	11[55]	GACAAAAGTACCTTTTACATCTTTCAAT	28	Green
17[67]	22[63]	AAGAATCGCGAATTGAGAGAGAAAAAATGCTTACCA	38	Grey
17[98]	8[98]	AACATGTTTTCATCCGAGAAACACCCGC	28	Green
18[55]	14[56]	CCAAGTAACGCTCAACAGTTCTAAACAC	28	Orange
18[69]	25[76]	GAACGGGTATAGAAGGCTTAGCTTTACAGTTGCTT	35	Cyan
18[107]	22[115]	AAGAAATCGGGAGTTGCGGGTGGTTTTTCTTCAGT	35	Cyan
18[118]	17[118]	CAGTTTGCCTACGGAATAATATGCAGA	28	Yellow
19[53]	26[49]	GCAAAACAGGAGATAAAGCAAGA	24	Yellow
19[102]	17[97]	CCGAGTCCACTATTAACCGTCTAATTTACGAATAAAC	38	Cyan
20[69]	21[76]	GTATTCTTTATCCTGACGCGG	21	Cyan
20[97]	26[91]	GGTCCACTGATGGTACACAACGACGGAGGAGTAAA	35	Blue
20[118]	25[115]	CCTGAGACAAAATCTTGTATGAGC	25	Green
21[46]	27[52]	TGCACCAGCCGAGCGTTTTTGTCCCAAAAAAAG	35	Purple
21[77]	20[70]	GGAGAGGTGCCCCAGCATCCG	21	Purple
21[91]	27[94]	CGTATTGCAGCTGCAAAGCCTCTCTATGAACT	32	Orange
22[62]	19[52]	ACGCTAATAACAATTAAGAACGCGAGGCGGCAA	32	Green
22[83]	29[76]	AATCGGCCAACGATAAAATAGGCACGCAATAATAAAAGAAACGGTTGT	49	Orange
22[114]	33[115]	CGGGTGAGCTTTTACGCATAGGGGCGATCGGGCAA	35	Green
24[44]	21[41]	GCGAACGATTCTTTCCAGAGCCTAAGTTGCT	31	Green
24[107]	20[98]	TCACTAATGAGAACTGTCTGCGGGGCCAAGCAAGC	38	Green
25[77]	14[70]	GTTACCTAGAAACCCAAAGGGTAGAGCTTGGTTAA	35	Cyan
25[116]	29[111]	TCGTGACCTCTGGTTGCACGAATTCGCCCTTAGTGCT	38	Purple
26[37]	14[35]	AGCGCGCTAACCATATTCAGTATCTAGAAA	31	Green
26[48]	29[48]	AACAATGGCCGAACGAACTGGACATAAA	28	Green
26[90]	29[90]	CAGGGCTTGTAAGCATACCGATGCGCAC	28	Yellow
27[53]	43[55]	TTACGTCAACCACCAATCGACAGAAGTACAA	31	Grey
27[70]	33[76]	AGGAACCTCATTAACACAGCC	21	Yellow
27[81]	27[69]	ATCTAAGCTACGTGGTAAGCCCAAGAAACCG	31	Orange
27[95]	42[94]	CGTCTATTACGCTTCTGTTATCGGGTTTTGCAGAA	35	Green
29[49]	31[52]	GGTGGCATAAGTTTAGGG	18	Green
29[60]	18[56]	ATACGGAATATAACGTCTAACATAAATCAGATATTAAA	38	Blue
29[77]	22[84]	GAATTCACAGTGCGCAAGCATAAAGTGATTAAATG	35	Blue
29[91]	40[94]	GACTTAAAGCCAGGCTGCAAGTAAATGTGAACAAACCTG	39	Blue
29[112]	41[118]	GAATTGTGTCCAATAACGCCGTAGCCATAATGGGACAAAGGGCTGATA	49	Green
30[41]	18[35]	CACAATCAATACATCATGATTAATAAGACATTAGATACCGCGCATCGAG	49	Blue
30[104]	19[101]	CAGGAGAGTGTCTGGAGTGAGGGTGCCAATTCCGGTT	39	Light Green
31[53]	41[55]	AGGGCCACCAATTAGCGAGGAGTGATTTCGG	31	Yellow
31[74]	37[76]	AAACCCAAAATCACCGACCACCAGAATTTT	31	Green
31[84]	31[73]	GGATGTGGTGGATGTTCTTCTAAGTGCAACGG	32	Green
31[102]	16[101]	TTACTCTTCGCGGTGGGTGTAATGATCCCCCATC	35	Green
33[42]	30[42]	GAAACGTGACTTGACCGATTGATTTTGT	28	Light Green
33[63]	29[59]	TCGATAGAGGTGAAAAATATTGAAGACACCACGGAAACAT	39	Cyan
33[77]	27[80]	AGCTTTCCGGCACCGCCAGCTGGCGAATTGCC	32	Red
33[105]	30[105]	AAACCAGTGCGGGCAGTTGGGGCTTTCT	28	Cyan
33[116]	45[118]	AGCCAGTTTGATAAGTGAGGTAAATTTAGAA	31	Purple
35[88]	39[97]	TGGGAGCGAGTTTCGATTAATTTCAAATATTGAACGG	38	Blue
37[39]	26[38]	ACCCGCTCCCATTCAGCCATTTGCAGATAAAAT	35	Cyan
37[49]	39[55]	CCGCCACACAGGAGCAGTCTC	21	Grey
37[77]	31[83]	GTAAAAATAACAACCTTAAGGG	21	Cyan
37[112]	39[118]	CATTTTTTAAAACAGGCATGTC	21	Yellow
38[62]	27[59]	AGCATTGCAGAACCAACCAGAGAAGGTATTATCACCCAG	39	Green
39[35]	33[41]	CAGAATGAATAAGTGTCATAGTTGCCTTAAGGCCG	35	Orange
39[56]	33[62]	TGAATTTATGATACTTTGCCATCAGTAGGAAACCA	35	Blue
39[84]	39[83]	GAATCGATTAAATTGTAACGTTAATGCCAGTAAGCGCAAGA	42	Red
39[98]	33[104]	TAATCGTGTCAATTGCGCGGAGACGACAGTGCCGG	35	Green
39[109]	31[101]	CTAGAAGATTGTATAAGTTGTTAATCAACATGCGA	35	Purple
40[72]	40[84]	ATGAAACATGAAAAATCACCATCAGTCTGGA	31	Grey
40[83]	42[73]	GCAAAATCCGATTCAAGATCGCACTCGCAGAAGGATATT	39	Green
40[93]	44[98]	AGAATATGATATTCAACAAGGGTGTCAGTACTTAGTAC	38	Blue
41[35]	44[35]	AATGCCCAGACAGCTGAGTTTTTTTCAG	28	Light Green
41[46]	37[38]	CCTTACTGGTGAAAGCGGTTGAGGCAGGTCACACC	35	Blue
41[56]	46[56]	AACCTATGAAACGCTGTAGCTTTCTGTATGGGATGTCGCGA	42	Purple
42[65]	38[63]	TGATATTCTGGCTTTTGACCGTTCCGCCGCC	31	Purple
42[72]	42[84]	AAGAACAACTTTAGAAGCCTTTATCCGGAGA	31	Grey
42[83]	44[77]	CAGTCAGTTAGGATCCGCCAC	21	Blue
42[93]	48[101]	AGGTTCAACGCAAGGATTTATGACTAATTTTAGGT	35	Red
43[56]	48[56]	ACTACCTCCCTCAGAGCCACCTGTGTCGAAATCGACACACTC	42	Blue
43[109]	37[111]	CGGAGGGGACTTGACCGGCTTTCAATCAGCT	31	Blue
44[65]	40[73]	CCACCTCAAGACCGTAATCTTTTCATAATGTATAC	35	Yellow
44[76]	51[83]	CCTCAGAAAGGAACACAGTTTGGCGCATAGCATCC	35	Red
44[97]	51[101]	CGCCACCCGAATAACCTGTAACATACAGGCAA	32	Cyan
44[118]	51[118]	CGTACTCTGAAAATTTGTACCTAGCAAA	28	Cyan
45[35]	13[38]	GTTAGTACTTAGCCATCGCCTGCGATTAGAAAGAGACGGGTACCTT	46	Blue
46[55]	52[56]	CCTGCTCAGATGAACGGGTACACAAAT	28	Grey
46[107]	39[108]	ACAAAAAATTGATTCAACGTTCTACTATCAGAAAA	35	Light Green
47[46]	37[48]	AATACCCTCACGTCACCATCAAGTCCCCCTCCGGAACCTCAGAG	45	Red
48[55]	54[56]	ATCTTTGTTGAATCCCCCTAGTGAAGTT	28	Orange
48[79]	13[80]	ACCCCCACGCCTTTGAGGAAT	21	Yellow
48[86]	35[87]	GCTGGAATTGCTCAGAATAGCGGGCTCAGGTCCG	35	Light Green
48[100]	5[101]	GAACGGTCGCGGGTAGCTCGTCGATTAGAGAGT	35	Green
49[49]	6[56]	AATACACTAAAAATTCATGAGCATAAATTTCCGCC	35	Red
49[70]	57[76]	ACCATCGGATAGTTTTGACAATGGCTGAAGAGGAA	35	Purple
49[88]	57[97]	CCGATATATTTTTCTATTACCCACTAATAGCCATTAG	38	Purple
49[116]	57[118]	GGTCACTAGCTAGCTGCTGAAAAGGTGGTCAA	31	Light Green
51[32]	53[38]	CAACTTTGAAAGAAAACGTCA	21	Red
51[84]	48[80]	AATAAATTACTTTTTGCGGGCAAACTAAATGAT	32	Blue
51[102]	56[101]	GGCAATTCTAAATCAACGAGATGGTTGGGAAAGGA	35	Grey
52[44]	41[45]	TTCAGAGGACCATGTTAAATGAATATTCACCCTG	35	Orange
52[55]	59[62]	GCTTTAACGGATTGCATCAAAATCGCGTATTTTTG	35	Yellow
52[83]	55[80]	ATTAAGCGAACCGGTAATCATCTCA	25	Red
53[39]	7[45]	TAAAATAGTAAAAATAGAGCAACAAATATCAAACC	35	Purple
54[55]	52[45]	TTGCCAGAGAGGTCTTAAATTCGAGCTTAGCAAAAGACAG	39	Orange
54[107]	43[108]	CTTGTAACAAGCTTTCGTTACGTAGGAGGTCAGG	35	Yellow
55[56]	13[66]	AAAAGCGGGAATTAATCTGGTCAGTTGGACTCGTACAAT	39	Red
55[74]	57[66]	TGGTGTGAATCTTAGAGGAAGACTTCAAATAAGA	35	Cyan
55[81]	12[84]	TTATGCAGATACAGTTGAAAGGAAGACTTTACTTGCTTTTATCAA	45	Orange
55[95]	54[108]	ACGTTTAATTATAATGCTGTAGCTCAACATGTGGG	35	Orange
56[69]	49[69]	GCCAAAAATTTTAAGACTTTTGACAACA	28	Blue
56[100]	12[105]	ATAAGGTTATCTAAAATTTTGAGGTATTAATTGAGAAG	38	Yellow
56[111]	49[115]	GAGATTTGAAAAATGGAACGATGAGGCTTGCA	32	Orange
57[35]	58[28]	AGTCAGACAAAGCGAACCAGA	21	Cyan
57[67]	42[66]	TTACCTTCATCAGACCACAGCGGATTTGCTAAGGC	35	Red
57[77]	52[84]	GCGATTTAGTTTGATAGTAGC	21	Blue
57[98]	58[84]	ATACATTTTGATTCCCAATTCTGCGAAC	28	Blue
58[83]	48[87]	GAGTACCCTTAATTGCTGAATTCAACTTATATTCAAACA	39	Light Green
58[111]	46[108]	ATAACAGTCGCAAATGGCATCAAGAATAAAA	32	Red
59[28]	47[45]	CTTTAATTGCTCCTTTTGATAAGGGGTATATTCAACCCCCAGATA	46	Red
59[63]	44[66]	CGGATGTTACCTTAAGTAATCGCGCCGAGAATAGAACCG	39	Blue

Start	End	railed bridge staple sequences	Length	Color
0[76]	34[74]	AAAGGGAGCGAACGTGGCGCTTGTAAAACGA	31	
0[121]	21[124]	ACGAAAAGGGGGAGACATAAAGA	23	
0[181]	0[162]	CTTTTTGTTAAAAATTCGCAA	20	
0[223]	21[209]	GATAGTAAGAGCAACACTAAGATTAAGAATCAATATGATAGG	42	
0[239]	1[253]	GAATAAGGCCGTAACAAAGCTGCTCCAGAGGC	32	
0[265]	0[240]	GAGAGGGTAGCAACGGCTAATTCAGT	26	
1[22]	0[56]	AGCCATTGCAACAGGAAAAACGCTCATGGAAATACCTACAAATTTAGA	48	
1[70]	20[70]	ATCGGAAGGTCGAAAGCGAAAGGAGGTCCAGAAAGGAAGGG	42	
1[98]	0[77]	AATCCCGTGCAAGGCGCAAGCGGTCCACGCTGCT	35	
1[112]	19[124]	GCCAGCTTCGGTGCCTAATGAGTGAA	27	
1[162]	0[182]	ATTAATAATTTTGTAAATCAGCTCAAACGAAAGA	34	
1[196]	19[202]	GCATCAAATTTATAGGATAAAT	21	
1[254]	2[240]	TTTGAGGACTAATACGAAGGCACCAACCTAAATATTCA	38	
2[83]	1[97]	AATCGTGCCTTTGCCCCAGCAGGCGAA	28	
2[97]	5[97]	GATGGTGTTCACCATCTGGGCGCCAGGGAGTTGAGTGTGTGT	42	
2[181]	4[168]	TAACCAACAGAAAAATTCATATGTATCCCGTAACAAATTTTCATC	42	
2[209]	0[224]	GAGAGCTAATCATAACCTCGTTTACCAGACGAAATTGCCCT	42	
2[239]	3[253]	TTACCCAAATCTTGACAAGAACCGGAACGAAA	32	
2[292]	19[292]	ATAAACGGGTAAAGGCTCCAAAAGGA	26	
3[22]	3[48]	TCACACGACAGTAATAAAAGGGACAT	27	
3[49]	18[49]	TCTGGCCAACAGCATAATTTGACGCTCTCAGTGAGCGGAGG	42	
3[70]	15[76]	CAAGTTTCCACTACAAAAACACGTGGAGCGGAAC	35	
3[112]	4[84]	GGGAAGGACGCTTATCAGGCTGCAATAGCCCGAGATAGGGGG	42	
3[162]	2[182]	ACAAAAATAATTCGCGTCTGGCCTTATCATTTTT	34	
3[196]	15[202]	TTACCCTTGACCATCTTTAAAATATTCAAGAAACG	35	
3[224]	18[217]	TGCCAAATCCGATAAAAACCAAATAACTGAGAG	35	
3[254]	4[247]	GAGGCAAAAGAAAAGTACAACGGGAAGGCTGG	31	
4[55]	19[62]	GAACCTATTAGTCTTTAAACAAAGTGATGGCCACC	35	
4[83]	2[98]	CGATGGCTTGCAAAATCCCTTATAAATCAAAGGCTTTGTTT	42	
4[139]	5[153]	ATCTGCCGGAAGATTGCAACACGTGTGGTG	28	
4[167]	4[140]	AACATTAAGGGCGCATCGTAACCGTGC	28	
4[216]	3[223]	GTA AAAACGAGAGAAGAGCTTTTGCAAAAAGAGTTT	35	
4[246]	5[260]	CTGACCTTCTACAGACCAGGCGCATGATTTGT	32	
4[272]	0[266]	CGAAACATACACTAATGCCACAGACTTTACTAAAG	35	
4[292]	5[306]	ACCAGCGATTATATGTCGAAATCCGCTGTCTCCATGT	37	
5[98]	3[111]	CCAGTGCCTTGCCTGTAGACGGGCATGGGCGCTCAACTGTT	42	
5[154]	8[158]	TAGATTGCGTAATGGGATAGGAGCAAATCAGATATACA	38	
5[182]	3[195]	GATTCCCTTGAGAGGCCCCAAAACACTTCAGAAGCAGGTCT	42	
5[261]	19[272]	ATCATCGCTGATTATCAGAAAGGCC	26	
6[55]	8[42]	GAAGTATTGAGTTTACAGCTTTACAAACACCTTGCAGTGCC	42	
6[132]	6[133]	TCCGGCATCATTACCGCGCCCAATAGCATCTCCAGCCAGCTT	42	
6[265]	9[258]	AAGGGAACCACAGATACAACTACAACGAAACCGT	35	
6[300]	13[292]	TACTTAGCCGGAACGAGGCGCAGCGTAATTTTGTCTATGGGATTTTGA	48	
7[22]	6[35]	CAGCAGAAGATAAAACAGAGAAAACAT	27	
7[70]	11[76]	ATACAGTTTTTCAGAACAGAACCATATCTGAATAA	35	
7[98]	14[91]	AGAAACGAGTTGGAACAGAGATTTGAACTAATTA	35	
7[112]	8[84]	TTTCATCTTGAGAACAAAGCAAGCCAATAACGGATTGCGCTTT	42	
7[119]	3[120]	GTAGGAACCGCTTCCAGTATCGGCCTCAAGTTTGAGGGGACGGC	44	
7[182]	14[175]	AAGAAGACCTCCGTGGGAACATTATTACACAGTT	35	
7[196]	11[202]	CCGGAACAAATCTATGCGTTCGATTTTGTGAGAC	35	
7[217]	14[217]	CCGCCACCTCATCGAGCTCAATACTGAATAATAGATTGG	42	
7[238]	11[244]	GAAGGATATTAAGAACCTATTGTTAATGTTGAGTA	35	
8[83]	18[77]	GCGTAGAACAGTATTAAGAGTCTATCTGCGGGC	35	
8[167]	18[165]	CCTCCCGAGAAGGCGATTGACTGAGCGACGA	31	
8[188]	9[181]	CACGCGAGGCGTTTAGCCTTA	21	
8[216]	18[203]	TCAGATTATAATCCGCTCCGTCATAACAGTTCAATCCGGA	42	
8[258]	15[244]	GTATCCATGAAAGTTAGGATTGACCACTTTGAAAGAAATGGA	42	
8[292]	9[292]	AAGAGGGTGTATACACCTCAGAACA	26	
9[56]	17[62]	TCAAATGATTATCAACATTATACAGGGTCACGCT	35	
9[98]	17[104]	TACCAGTGAATAACTTACCTTGAATCGGTGCCCGC	35	
9[112]	10[91]	TCATCTTTAGGGTATTAACCAAGTTACAAAATC	35	
9[182]	17[188]	AATCACAAAATAGTCCCAATGAATCGAACAAAAGG	35	
9[224]	17[230]	AGAGCTATCCAGTACCTCATCTCGAACAGTCAGGA	35	
9[259]	14[245]	ACTCAGGAGCCACCAACCCGTTAAACAAATTCGACCCAGTC	42	
10[55]	10[56]	AACCTCTTATCTAAAGGATTATACTTCAAATATTTTATCA	42	
10[90]	14[77]	GCGCATAGAACCTAATAAGATTAACCA	28	
10[181]	10[182]	AGTTGCTCTTACCAACTTTGCCTTTAGCCGGTCATAGAGATT	42	
10[230]	14[203]	CCCGCACCCAGAACCCACTTTTCATCGTGCCATCATTTGTT	42	
10[272]	15[272]	ACCCTCAAGGTTTACAGAGCTGAGCCCT	28	
11[77]	13[62]	TGGAAGGAATCATATAATACTCTGATTGTTTATATTCTTG	42	
11[91]	11[126]	GAATTATTCAATTCATACAGAACATATAAAGTA	36	
11[203]	33[205]	TGTAGCGTGGTAATCAGTAGCAAGGTGAATA	31	
11[245]	13[230]	ACAGTGCAGAGTGTACTGGTAATAAGTTTAAACAGTCATACA	42	
12[104]	31[97]	GCAAAAGCTTCTGTTATTAATTAATTTTAGATTATGCGTTATAGAAAA	49	
12[124]	33[121]	ATTTCTTATCATAATTGAGAAA	23	
12[188]	31[181]	TCAAGGCTTTACACATAAAAACAGGACTGAACACATTCAAACAGCG	49	
12[216]	10[231]	AGGAGGTCGCCAGCGCCGCGGGTCAGTGCCCCCTCG	42	
12[258]	10[273]	AACACTGCCTCATTTTCAGGGATAGCAAGCCCAACAACCGCC	42	
12[286]	13[272]	CAACTTCAATAGGAACCCATAAATGAA	28	
13[26]	12[49]	ATAATACATTTGAGGATTTAGAAGTATTATATCTTTA	37	
13[63]	9[55]	ATTATCAGAGCGACAGTCGAAGTTTAACTGACCGCTGCAACTGAACC	49	
13[91]	23[104]	AACAATGAAGATGACAACGCTCAACAGTTATCATAAGACGCT	42	
13[175]	23[188]	TTTGCCTAACGAGATTGACGGAAATTAAGGCGGAAAGTCAG	42	
13[231]	8[217]	TGGCTTTTACCTGTTTTCGGAGGTCGAGACGAACGCCACCC	42	
13[273]	6[266]	TTTTCTGGTCTTTCGTACCGCTAAGTATAGCCCGCAGTACCCAATCAT	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]	TAACGTGATAGCAGCAGGCGAGGTGAGACGCGCATTGAC	42	
14[216]	9[223]	CCTTGATTTGCCACCCCTC	21	
14[244]	12[259]	TCTGAATTGATGATACAGGTTTCGTACCAGTAGTGACCGT	42	
15[77]	7[69]	AAAGAAAGAGCGCGCTTAATGCGCGCTCATTTTCTCAACGATGAAT	49	
15[203]	7[195]	ATTTTTCAGGAGTCTGGAGCAACAGACCAAAATTTGAATCGCCACCA	49	
15[245]	8[259]	AAGCGGTAGCATTTCCGAACTAGCGGGGTTTTGCTAATAGGT	42	
15[273]	7[292]	CATAGTTAGACGGTAGGCGGATAAGTGCCGTCGA	34	
16[48]	6[56]	TATGGTTTTAAAAGTACCGCTGTGAGGCGGTGAGTATTAACAGTTGCCG	49	
16[90]	7[97]	GCGGGGACAAATTTCTCCACTACCTTTTACATCGGG	35	
16[124]	7[111]	ATCGTGCCAGCTGCATTAATTTTTAATGAAACCTTTTTAT	41	
16[174]	7[181]	TAATCGTAGCCATAAACCGCGTTATCCGGTATTCT	35	
16[216]	7[216]	TACAGGTACAAACCGGAATCCTCAGAG	28	
16[242]	7[237]	AAAACGAACATAAAAGCGCAGGACACTCAAGA	33	
16[292]	17[272]	ATTGATACCGATAGTTGCGCGGACAATCTTTCGA	34	
17[26]	16[49]	TCGTGTAATCAGAGCGGAGCTAAACAGGCGCGTAC	37	
17[63]	4[56]	GCGGTACGCTGGCAAGGCGGTGAACCATAGATA	35	
17[105]	15[124]	TTTCCAGTAATTGCAAAGGCCATTGATGGTGCCGGAACAGTACAA	48	
17[165]	16[175]	AAACTAGCATGTCAACTTGAACGG	24	
17[189]	5[181]	CTATCAGGCTATTTTCAAATGAAATCAAACCTGTAGCCAGCCCCGTCG	49	
17[231]	17[256]	CGTTGGGAAGAAAATCTACACGCAT	26	
17[257]	16[243]	AACCGATTGGACAACAACCATCGCCCGTTAAT	32	
17[273]	4[273]	GGTGAATTATCGGTTAAATTGCCAAGCG	28	
18[76]	16[91]	GCTAGGGACCACCAACCGCGGCTTTCGTATACCCAACGC	42	
18[124]	17[124]	AGCTAACTCACATTCGGGAACCTGA	26	
18[202]	16[217]	GAGGGTAGTCATTGCCTGAAAAGATTATCAGTCAACATTAT	42	
18[216]	19[230]	TTTAGGAGAATGTTTAGACTGGATAGTGCATTATGCCCTTTA	42	
18[242]	4[217]	TTAAGAACTGGCAACGGTGATCAAGAGTGAGGGGGTAATA	40	
18[292]	17[292]	AAGCCTTTAATTGTTCTTAAACAGCA	26	
19[63]	3[69]	GAGTAGAGGTGCCCGCAAT	21	
19[203]	45[205]	TAATGACAATTCAACCCCTTCTCAACGCAAGA	31	
19[231]	19[256]	ATCATTGTGAATTACCTTAAGGCTTG	26	
19[257]	18[243]	CAGGGAGTTCTATATTCGGTCGCTGTGCGATT	32	
19[273]	3[292]	GCTTTAAATACGTA AAAACACTATCTTTGACCCA	34	
20[48]	2[35]	CAAATTTTATAAAATCGTCTGAAATG	28	
20[69]	1[69]	AAAAAGAGTCTGTGACGGGGAAGCGGCCCGGCACTAA	42	
20[104]	43[97]	TGATTGCTAAGTTGGGTTTCCAGTCTTTCTCAAACAGGGGACCTCC	49	
20[124]	45[121]	ATGTAAGCCTTGGAAGGAGTTCA	23	
20[188]	43[181]	ATTGTATAAATATCTCGAGCTTCAAAGCGATTAGGTACCAACTCAGAG	49	
20[242]	21[230]	AGATGGTTTAATTTCAAAGAGAAACA	26	
20[292]	21[272]	AAAATCTCCAAAAAATGCGGGATGCTCTGCGAAT	34	
21[26]	20[49]	ATAACATCACTTGCTGAGTAGAAGAACTTCATCACG	37	
21[91]	35[104]	TTGCAATCCTTCACCTCGATAAAGACGGATGAGTAGGAGAAG	42	
21[175]	35[188]	TAATATCAAGCAAAATGCGGGAGAGCCATCGGTTAGAGTAC	42	
21[210]	2[210]	AATTACGAGGCACGATACATAACGCCAACACATTCAAATAGC	42	
21[231]	21[256]	CCAGAACGAGTAGTAAATTGACAGCA	26	
21[257]	20[243]	TCGGAACATACCTCAGCAGCGAAAGGGCTTG	32	
22[126]	9[111]	ATATAAAGTAACCAATCGTCGAAATCAATGTGAGTACCGCAC	43	
22[210]	8[189]	ATATAAAGTAGAAACCAAATAAGAGAGTCAAAATGCCCTTATCCGGAAC	50	
23[105]	12[105]	GAGAATGTAGAAATAGCCATTTAACAGAGGCTTTCCCTGA	42	
23[189]	12[189]	AGGGTCACCAATTATCACCATTACCGAATTCATTAGACAGAA	42	
24[97]	29[97]	AATTTATACCTCCGAAATAAGCCGACCG	28	
24[126]	24[98]	ATATAAAGTAACGAGCAGAGTCAATAGTG	29	
24[181]	29[181]	ATATCAGATAATAATGTCACAAAGACAC	28	
24[210]	24[182]	ATATAAAGTAGAAACGTAATTGAGCGCTA	29	
25[112]	31[121]	AATTTTAAAGTACCGACATATTAACGCCAACATGTAA	38	
25[196]	31[205]	GGCCGTAAATTAGAGCAACTTGAGCCATTTTGA	38	
26[97]	27[83]	ATGTAACGCGGAGAGTCTTGCACTAAATTTAATACGCAAGA	42	
26[132]	27[125]	AACAAGAAAAATAATATCCCAATGCCTGTTATCA	35	
26[160]	27[146]	TTTTAAGGAAGGAAAGCAACGTAGAAAATACAAAGAACAAA	42	
26[201]	28[175]	ACATTAGCATGAAATAGCAATAGCTATATAATAACTCCTTA	41	
27[84]	13[90]	CAAAGAATGCTGATCTTTTACAAAATCGATGCTCCCTTAGTCAAGAA	49	
27[126]	29[139]	ACAATAGATAAGGCCAACATGTTCAAGTCCAGCAGCAGACAA	42	
27[147]	26[133]	GTTACCAAAAAGTAAGCAGATAGTCTCTG	28	
27[168]	13[174]	AAACGCACTTACCAAGGCCAGAGATAGAACACCAGCGCATAGCCTAA	49	
28[174]	26[161]	TTACGCAAAACGCAATCAATAGAAAAATTTGAGTTAAGCCCT	42	
28[205]	29[205]	AGCACCATACTGGCATGTACAAAATCACCAGTAA	34	
29[69]	26[74]	ATATAAAGTATGGTTTGAATAATAAACCCGGTAAGACTACGCAATCCAA	53	
29[98]	26[98]	TGTGATAAATTTCAAACTTTTTCAAAATCTTATATAACTAT	42	
29[112]	29[111]	TAAAGTAATTCGTGAATCGAAGACGATTTTAGTTAAAAAGG	42	
29[140]	27[167]	TAAAGATAAAGGTGGCAGATATAAAAGGTATGTTACCGAGG	42	
29[182]	27[201]	CACGGAATTAAGACGGAATACCCAAAAGATACA	34	
31[69]	24[74]	ATATAAAGTAATCATAATTACTACAAATCTTATAACATAGCATAGGTCTGA	53	
31[98]	25[111]	AGCCTGTAGGCGTGTGTTAGTTGGGCT	28	
31[153]	24[158]	ATATAAAGTATTCATATGTGTTTCCGATTGAGGGAATTAATACTACCCACAAGA	53	
31[182]	25[195]	CCAAAGATTTATTTGAGCAAGAAACAAA	28	
33[69]	11[96]	ATATAAAGTACCGAATAAAGCTAACCTGTGAGGC	36	
33[153]	14[160]	ATATAAAGTAGGAGATTAATCGTCTTCTGAATATTTTGACCCAGCGCGGAGAAA	60	
34[126]	11[111]	ATATAAAGTAATACGAGCGCAAGTAAACCGATGTGCCTATTAC	43	
34[210]	1[195]	ATATAAAGTACAAATCATTAAATGCGTTCGGGAAGCCGCGGATT	43	
35[105]	20[105]	CCAGGACACAATACTAGAGACCGACTAAAGTTGGGGACAGC	42	
35[189]	20[189]	CTTTAAGACAGTTATAAAAATTTTAAATTTATTTAGGGAAG	42	
36[97]	41[97]	CTAAGTGTTAGTGCGCATTTTCATATAGG	28	
36[126]	36[98]	ATATAAAGTACAATTCGGTGGATGTTCTT	29	
36[181]	41[181]	GATAAAGAGCTGAATGCAAGAACATCCCA	28	
36[210]	36[182]	ATATAAAGTAAGGCGGAGTTGTCTCTTTT	29	
37[112]	43[121]	GCTCATACAAACCCAGCCATCTGCATGGGAACTCAAA	38	
37[196]	43[205]	GAGAATATAAATGCAATTGCACCTGAACCTCATATATA	38	
38[97]	39[83]	TCCCGCGCCCTGGCCATCTGTAAGCAACTCGTTAATCTATT	42	
38[132]	39[125]	TGTTTCCTGTGTGAAATGTTTACGAGCTCGAATTC	35	
38[160]	39[146]	GTGTCTGATTCGCTGGGCGCGAGTGAAGAGATACAGTTG	42	
38[201]	40[175]	ACAAAAGGCTCAACATGTTTAAATATAGTTTGACTGTTTA	41	
39[84]	21[90]	TACGCTCAAAATAAAGTGTCCGTTGTAGCCAAGCACGACGTGAGAGAG	49	
39[126]	41[139]	GTAATCATGGTCTACTCTTTAGGCGGGAGACGTTGGTGGGCC	42	
39[147]	38[133]	ATTCCAGAAGTTTTCATTCCATAATAGC	28	
39[168]	21[174]	TAGATTTGCAACTACTTAATTTGGTCATTCAGGTGAGAACCAGTAAACGT	49	
40[174]	38[161]	GCTATATAGCATTAATTAGCAAAATTTACTTAGAGAAGTACG	42	
40[205]	41[205]	AGGTAAAGGCAAAATGGTATCTGAGTAATGTGTAAT	34	
41[69]	38[74]	ATATAAAGTACGTTGGGCGAGGACAGATAAATCATTTACGACTTACCCCGCTTCA	53	
41[98]	38[98]	GGCCTTGGGCGCTGAGTGACTCTATGATCTTATGACAATG	42	
41[119]	41[118]	TGCGTCTTCCCGGGTACCCGACAGTGAAGGTGACATTGAG	42	
41[140]	39[167]	CTGTGGCATCAATTTCTACTAATAGTAGTTTTCATTGAACGAG	42	
41[182]	39[201]	ATAAATCCAATAAACCCATTAGATCAATTCATTA	34	
43[69]	36[74]	ATATAAAGTATCTCCGAACCTCTCTTAAGCTACGTTAGGCCAGTATTCATGCGA	53	
43[98]	37[111]	TGTTGGGGCTGACTGAATTTGTCAACCTC	28	
43[153]	36[158]	ATATAAAGTAAAGAAATTAAGCAACACATTATGACTAACTCCAATTTGCGGATA	53	
43[182]	37[195]	CATAAAGAGGCAAGATAATGCTGTAGGT	28	
45[69]	2[84]	ATATAAAGTAGGTGCTTGTGTACGCGCTGGTTTTCTGTTCGGA	43	
45[153]	2[162]	ATATAAAGTACCTGTAATACTTTATTTAATGATAATTAGGAACGCCATA	49	

Start	End	slotted cross staple sequences	Length	Color
0[53]	1[34]	ATTAAGCAATAAAGCATCAATTCTACTACAGGC	33	Blue
0[104]	13[125]	TGAAAGCTTTAAAGGGACATTCTGGCCAACAGCT	35	Orange
0[125]	5[125]	AAAGATAGAACCTTGACAATATTTTTGAAATCAATGAATTGA	42	Red
1[35]	7[34]	AAGGCAATGAGGATTAGAGCTTTTTGC	28	Red
1[96]	6[96]	AAGAATACGCAAGCGACG	18	Green
2[46]	8[25]	GACTGGAGACGACGATAAAAACCAACAGAGGGCAA	36	Green
2[125]	8[108]	ATCGCATCTGAACCGTGCATCAGGGGACGGCG	32	Blue
3[35]	7[53]	GTAATGTTTATTAGATTTTTAGAGCTTAAT	33	Orange
3[100]	10[96]	GTTTGTGCCATTGGATAGGTCACGTTAATGGCGAAACCGTAA	42	Orange
4[46]	22[42]	TCAACATGTTTTAACGCAAGGATAAAGGGAGAATAAATCGACTAAAG	47	Orange
4[125]	3[125]	CTCACCGCTGCAACAGGCAATGGGAAGGACGACGATCCG	42	Orange
5[100]	25[104]	GAGAACTAACAGCAGCAGCAGTAATTCTGAAATGCGAAGGCTCAAC	47	Green
6[53]	1[53]	TGCTGAATATAAAGAAATTAGCAAA	24	Orange
7[35]	10[35]	GGATGGCAGGAATATAGAAGTATAACG	28	Orange
7[96]	8[93]	AGCAATGAGGTGCGGGCCTC	21	Blue
7[119]	11[125]	CACCTTGCAACTGTAGCGCCAGCTTCTGGTGCCGGGTGTAGATGGGCG	49	Red
8[24]	0[21]	CTAAGAGGTCATACCTTTTAAATCATAATAGT	32	Red
8[107]	0[105]	ATCAAAATCTCAGTTGGTGGCACATCTGACC	31	Yellow
9[21]	13[46]	ATTACTACAATAAAAGCAAAAAATGGTGCAGGAGCTGAAAAGGTGGCCTCAGA	54	Blue
9[93]	4[100]	TTGCTATTACGCCAGCACCAGTGCCACGCT	31	Grey
10[34]	11[53]	GAACAACCTCGTTTACCATAGCGTCCAATACT	33	Yellow
10[53]	9[50]	GCGGAATCGTCAATTCATCAG	21	Grey
11[21]	10[21]	TCATAACATGAGGC	14	Orange
12[46]	5[46]	GCATAAAGATACATTTCCGCTCCAACAGGTCCTGTAGC	38	Green
12[125]	7[118]	AAATTCACCAGTCATTGAAAGATCTGGTAAAGCAT	35	Green
14[41]	37[53]	TCAAAAGTCATTGCCTGAGTTTCTACAAATCAAGAGTAAT	40	Red
14[69]	20[70]	CGCGTCTAATGTGACGCATAAGTTAAAGGCCGCATTAACGCTC	42	Green
14[97]	17[90]	ACATTTGTGCAATGTAAAACGACGGCCATGCGT	35	Green
14[104]	31[125]	AGATAATTAAGGGTTAGAACCTACCATACTTTTTA	35	Cyan
15[21]	23[27]	TTAAATTAAGGCCGTTGGGAAGTGGCTCGGTACAAACTTTGGCCACTA	49	Orange
16[45]	19[27]	ATGATATTATGAGTAATGTTTAAATAAAAGATTAAAGAGCGGTGTC	46	Red
16[69]	16[70]	ATTTAAACAGTTCAATAGGAACGCCATCAAAAAGAAGCTTT	42	Red
16[111]	20[105]	CCCAGTCGGGATGTAATAGAGTGAGGCACCACCA	35	Orange
17[14]	16[14]	GCAAAGCTTTACCC	14	Green
17[28]	14[42]	ATCAAAACGAACAACCATAAAAATCAGCTCATTTTCAAAGAT	42	Green
17[77]	26[88]	TCACCCTCAGTGCACCTTTACAAACAATAGGATTTGTCGGATATA	45	Orange
17[91]	14[105]	ATTAACGGATTGAGACGACGCTCTCGTATTAATCCAATCAAT	42	Red
18[62]	16[46]	TAAATGCAACATTAGGCCTTCTGTAGCTTAACCAGAAAACGAGA	45	Orange
19[28]	3[34]	TGGAATCAAATGCTTAGAGGCCAATTGGTAATA	35	Orange
19[63]	27[51]	TCATAGCATGACCCTGTAAATAGCAGGACCGATATATTGCGTTTT	45	Orange
19[70]	14[70]	AGTAATATCCAGAAGGATTAACAACCCAGAAGTATTTAATT	42	Orange
19[91]	27[104]	ACCGCAAAACAGAGTTCAACACGGGAAAG	28	Blue
21[56]	25[80]	CAAAAACATTATGAAATACCTACATTTGAGGAAATCTT	39	Red
21[105]	23[104]	GGATTATAAATTTAATGGTTTTTCATAAT	28	Orange
22[41]	21[55]	ACTTTTTACCAACCTTAAAAAAGACAGCTTTGAGGGTTGTAC	42	Orange
22[83]	24[56]	GTGATAAATAAGCAACGGCTACAGAGGCATCGGAAGTCACCC	42	Blue
22[125]	24[119]	TCATCTTTTTTTCACCAAGA	21	Green
23[28]	25[41]	CGAAGGCCATGAGGATTTTGACCATTAGCGCCTTACGCATAG	42	Blue
23[77]	23[76]	AAATAAGGTTATACGAATTTGCGGGATCCGAGGGTAGGCGTT	42	Orange
23[105]	21[125]	TACTACGAGAAAACCTGACCTTTACATTGGCAGAC	35	Yellow
24[55]	19[62]	TCAGCAGGAGGCTTCTTTGCAATTTTAGAACCC	35	Yellow
24[97]	22[84]	TTAGTATAGCCAACATCAGCCATTGCAATGACGCTCGACCGT	42	Yellow
24[118]	19[125]	CAAAGAACTGTAACGAACGAGGTGAGTATTAATA	35	Red
25[28]	22[21]	GACCAGGTTGTTTCATTCCATAGATTTAAAGTTTC	35	Yellow
25[42]	24[28]	GCTGGCTCGCAAGAACCGAACTGACC	28	Red
25[81]	17[76]	ACCACAACGCCAACACAGCGAGTATGAAAGATTCGCAT	38	Green
25[105]	36[96]	AGTAGTTCGGAAAAAGCTGTTGTAAATGATTTAATG	37	Orange
25[119]	17[118]	TCGTGCAAGTGAATAACCTTATAACGGTAACAACCTGCTGCA	42	Blue
26[87]	21[97]	TTTAAGTATAACATATGCAATAAACACCGGAAGAAATACCAATCGT	46	Purple
26[97]	19[90]	AATCGCCTCTCCGTGGCAACAGTTTACGAATATT	35	Purple
27[35]	27[34]	CTACGGTAGGTAGCCGCTGACCTCGATTTTAAAGAAGAAAAAT	42	Green
27[52]	18[63]	CATCAATGCCTTGAAATCCCCCTCAAATGCTTATGTATT	39	Cyan
27[105]	32[93]	AGCCGACGCGGCTTAATTGAGAACAGTATTGCACGTAATA	40	Yellow
27[119]	16[112]	ATTCGCCATTACATCGGAGATTTGCCCGGGTTTT	35	Yellow
28[53]	29[34]	CTAAAACTCATCCGACCTGCTCCAATCATA	33	Orange
28[104]	39[125]	ATATACTAGGTCGTAGAGACTACCTTTTTAACGA	35	Green
28[125]	35[125]	AACTCCGGCTTAGGCAGATCCAATCGTTTCAATTAAAGAAAA	42	Red
29[35]	35[46]	AGGGAGGCGGATATATTCAGTGAATA	26	Cyan
30[46]	31[27]	AGTCTGGAACAGGAAGATTGTATACAGTCAA	33	Purple
30[125]	41[104]	GATTGGATTATACTTCTGAATAATGGTGAATTTC	35	Purple
31[28]	17[27]	ATCACGGGTGAGATTTGTATCAAAAATCAGGTGCGATTGTC	42	Orange
32[118]	28[105]	AGTATCAAAATTATCAATAAAAGAAGCTGATGTTGGGTT	42	Red
33[32]	28[21]	AGGCACATCAATATGATCATTGTGCCAAATGACGGTCTGTTACT	45	Green
33[93]	40[96]	CAGAAATAAAGAATCAGATGA	21	Orange
34[125]	33[118]	TACATTTAACCAATTTAGATTT	21	Grey
35[99]	38[99]	CTTTTGATGAACTTATCAAAATCAT	26	Blue
36[53]	29[53]	CTTGACAAGAACCAAGAATACA	24	Orange
37[35]	40[35]	TTATGTCAGGCTATGTAGCTAAATCGTA	28	Orange
37[119]	41[128]	TGTGAACAGTAACCTCAGGTTATTATCATCATATTTAATCCTGATTGACAAA	52	Green
38[23]	39[46]	AACTAAATTTGTGCGAAATCCGTTTGACC	29	Red
38[46]	37[34]	CCCAGCGATTATACCAAGCGCTGCTCTCATTACAATTACC	40	Orange
38[125]	37[118]	AGTCAATAGTGAATAAACATCCCTGAGCCAATATA	35	Orange
40[34]	41[53]	AAACTAGAGAAAAGCCCCAAGCAACAGAGAA	33	Yellow
40[53]	33[31]	TCGATGAACGGTTTTTTGATTAGGCTTGCCCTGACGAGAAGGAG	44	Orange
41[24]	38[24]	AATCCATGTATAATGCCACACCAGTAACAAGCGA	36	Blue
41[105]	34[99]	ATCAATACCTGATTAATTGCGTCATTTGAATTAC	34	Yellow
42[34]	49[34]	AGTTTTTAAACCTAAAGGGAGAAACAGGAGCCGAGAATCCT	42	Cyan
42[69]	42[70]	TGGCGAGAAAGGAAGCTGGCAAGTGACCTCAGAGAGAACG	42	Green
42[97]	49[97]	CCGCCACACAGGAGTTGAGGATACCAATGAAACCAATCAAG	42	Orange
43[56]	46[56]	CTTGACGACGCAAAATAACAATTCAGC	28	Orange
43[77]	55[90]	CGCGCGCAGCACAGAAGAACTCAAAGGAACCGCCCTCAG	42	Green
44[97]	49[90]	ATTACGCAGTATGTCAACATGGAACCGCGACAG	35	Cyan
45[14]	44[14]	GCGGCAGAATTAAAC	14	Cyan
45[35]	45[27]	GACGACTGGAGAGGTTTGAAGTGAGCGAAGCAGGC	35	Red
45[45]	42[35]	GATTCGTGAGTGTTTTTATTGTAGCCCCCGAAAGCGAAAGAATCA	46	Orange
45[63]	50[77]	TCCATTTAAATCAAACCGAGTAAAGTAATCAGTAGACTTGA	42	Orange
45[105]	42[98]	AAGACACAGCCGAATTAGCGTGTTGCCAGGTGAGGAAAGCCGAGAG	49	Blue
46[55]	45[62]	ATCAGAAATTTGCCCGAGCAGTGACGCAGACCTTT	35	Blue
46[97]	51[83]	GCATTAGCAACTATCGGCCCTTGCTGGACCTGCGTGTGAGGG	42	Orange
46[125]	45[118]	ATGAATTGAGTTAAGCAATAGAGCAGATCACGGAA	35	Green
47[28]	61[46]	GGACTGAGCTAATAAATTACAACCCGTTAGTAA	33	Green
48[90]	54[77]	ATCGATAAGCAATTGAGAACCAACCAACCGCCACTCCCTC	42	Yellow
49[35]	47[48]	GAGAAGTATTACGAAACACAGCAATAATAGAAGCTTCTTT	42	Green
49[98]	53[104]	TTTGCTCAAAGTTGAAACAAATATCACCAGTAGCCATGATTAAGACTT	49	Orange
49[112]	52[119]	CAGACTGTAGCGCAAAAGTACTATCTTGGAAGGT	35	Yellow
50[27]	42[21]	ATCTCGGTACGCCATTAAAGGAAATCGGTGGGGTC	35	Green
50[76]	53[83]	AACAGCACATACATAAAGGTGTAGCAAACCCAAAA	35	Orange
51[60]	45[44]	AGTGACCAGGAGAACGAATGAACGCCATCGATTGTGCTGGG	41	Orange
51[84]	44[98]	AAACGCATTACCAACCAAGAAATAAAAGAAACGCAGTTCCCTT	42	Purple
52[41]	52[42]	GCAGGGTTGTCCGAATCAGTAAACGAACTGCTGGGGGAAAT	42	Green
52[69]	54[56]	ACGCCGAGGGAATCATGTCTCACTTGCCAGCGTCACGCT	42	Blue
53[21]	45[34]	GGAACCTTCTGTGCTGGAAGCAACGGCAGGTGTTAATGCAT	42	Blue
53[70]	53[69]	AATACTACGTAGAAAAGAAATTTGTAACAGGAAGAAACAGC	42	Purple
53[84]	52[70]	GAACTGGACCAATAATAACGGAATCAA	28	Yellow
53[105]	55[111]	ACCAGCGGACGGAATTGAAATAGCCCAATTTTCATACCGAACTCTCTGA	49	Red
54[27]	54[28]	GTCAAAGCTACGTGAACCATACCCAGACAAGAGCGGCAAC	42	Orange
54[48]	43[55]	ACCACAGCGGGCGCTAGGGCGGGAAGATTTAGAG	35	Red
54[55]	51[59]	GCGCGTAGATTAGTTTAACCGTAATCAGTGAGGCCAACTCAATAAC	46	Cyan
54[76]	43[76]	AGAGCCGCCTGAGCTCTGTCCATCGGGAAGCCGGCGC	42	Cyan
54[125]	48[112]	ACAATGCCCAATCAATCAACCTATTAGC	28	Red
55[91]	62[93]	AGCCACCACCTAGCAGAGCCGAGTAACCTAGACGGGAGA	40	Red
55[112]	47[125]	ATTTACCCAGAATGACGATTGGCCTTGCCCCCTTGCCCTAT	42	Orange
56[53]	69[53]	CACCAGTGAGACTATTACGCATC	24	Red
56[118]	57[104]	ATCCTAAGCTGTCTCATTGGGAATTAGAGCCAGTCCAATCA	42	Orange
57[21]	67[27]	TTGCGTATGCCCTTTGGTGGTCCCAGCAGCACTGCTATCTTATTAGCTG	49	Orange
57[105]	66[105]	ATAATCGTTTACGACGATTTTTATTATCCCTGAACAAACTA	42	Blue
58[27]	61[27]	GCCACTCCGAAGACAATCAAAAACAG	28	Orange
58[46]	57[53]	GAACCACGAGGCCAGGGTGGTTTTTCTTTT	31	Orange
59[14]	58[14]	AGATGAAATTGTTG	14	Red
59[33]	59[32]	GTCGTTGCGGCCCTTTTCTATCGAAAAATCCCTTATGCCTG	42	Orange
59[99]	73[104]	CAAATATTATTAAAGCAGCTTTACATTAAGAAAGCATGTAGATAAGT	48	Orange
60[125]	44[105]	TGAAAAATGAAATAAGGTGAAATATTTCCAAAGAAGAAATTCATATG	49	Cyan
61[28]	47[27]	TTTCTAGGCAAGTCCGTGAAGAGAAGCT	28	Orange
62[50]	65[53]	GCGGCAGTTCGCGCGCTTAA	21	Grey
62[111]	67[107]	AAGCGCAAGTGCCTAACGGGGTCAGTGTCTGTAGCAT	38	Red
63[28]	82[98]	ATTAAGTGAACCATCAGAGCTTATCAACGGTAAAGATTCTAA	47	Red
63[119]	56[119]	AGAGGGTAAAAACAGCCATATTGTTTAAAGCTCAACATCCC	42	Orange
64[53]	67[46]	TGCGCGCTACAGGGCGCGATACATTGCAAG	31	Red
64[125]	67[125]	CTGGTAACCCCTCAT	14	Green
65[96]	61[125]	TTACCACCGCGGAAACGCTCTAATAAGATGAGAGAATAACATAAAACCCACAATA	58	Purple
66[34]	64[21]	TGAGTATACCTGGTGCATGTTTTCGCATGCTTTGCTTGCTT	42	Green
66[104]	68[96]	CAACGCTGAACCCAGTTTCAGGGATAGCTCTTTCCCA	37	Green
66[125]	62[112]	ACTCGTCACCAGTACAAAGTCAACAGGG	28	Green
67[28]	68[35]	AAACGACTACTATGCTCGTTAGAATCCCAATCGAAACCTGGATTACGCT	49	Purple
67[108]	62[119]	TCCACAGACAGAAATTTGTATAAACAGTTATGAGAGAT	39	Purple
68[34]	72[31]	GGTTTGCTCCGAAATCGGCAAGGCAACACAGGATCTCCAGTCGG	46	Grey
68[53]	66[35]	GCTATTACGGGGAGAGTTTTTGAGTTTACGGGT	33	Green
70[34]	79[34]	ATGACTGGTACTCAACATTATGGTGTGAGATGATAGCAAGC	42	Red
71[21]	70[21]	GTACGCCATACCGT	14	Green
71[49]	78[49]	ATCAATGAGTTAGAGCGCCGACATCAGG	28	Cyan
71[77]	80[77]	TCGAGGTGAATTGCCGGTTTATCAGCTTTCAAAAATAATAAT	42	Red
72[30]	58[28]	GAAACCTGTCGCTGGCCCTGAGTAGCTGATTTGGGCGTATATCT	45	Orange
72[104]	56[96]	TTTTAAATCAAGATTAGTTGCTCTTACCAACGCTAGA	37	Orange
73[63]	83[83]	GCTCGACAATTTTTGCTGAATTTTTTGCCCGACT	35	Blue
74[76]	82[49]	AGTAAGCGGGTTTGTGTTTATATCTGAAGGAAGCATAAAGTG	42	Red
75[70]	75[69]	CGTAAGAGAATATATTAGCGAACACATACGAGCCCTCGCTA	42	Orange
76[34]	74[21]	TAAAAAGAAATCCTCGAGAGAGTTAAAC	28	Grey
76[62]	73[62]	GCATCAAAGGAGAGTTATTTTGGAGATGTCCCGGGTACCGA	42	Grey
76[97]	74[77]	TTAGTACGACAATAAAGCAAGCAATTTTCGAGCC	35	Yellow
76[118]	73[125]	GTATCAGCTCCAGAAGAACGCAAGAAAAATAATAG	35	Yellow
77[42]	70[49]	TATCTGCATAGATATTGTCTCCATGCAATTTGTGCA	35	Green
77[63]	79[90]	GCTGGTCAGAACCGTGAATACCCCTGTAATTTAGGCAGAGGGCG	42	Orange
78[34]	81[97]	CAGAGCCTTGCGAAAAAGGCTCCAAAA	28	Green
78[48]	70[35]	ATGCGGAATGAGTGATCCGGTGAGAA	28	Orange
78[90]	76[63]	AATCTTAAACAGCTCCACCTCTCAGAACCCGCAACCCCATTC	42	Orange
79[21]	78[21]	TGTACGGGAGTGA	14	Green
79[35]	83[34]	GGTCCGCACTTCCGCACTCGTGGGGTGCTAATGCACTGCC	42	Blue
79[49]	71[76]	TGGGTATGACAACAACCATCGGATAGTTGTCTGAGCAAAATT	42	Green
79[109]	71[97]	TGCCGGATAATGTACCGATTTTCTGTCTTAATTGTATCCAATAG	45	Cyan
79[112]	82[119]	CAGTTACAAAATGACTAATGCCGACGACGATATAG	35	Red
80[34]	76[35]	GGCATACCCAGGATTGTGAAGGTTTTG	28	Cyan
80[76]	77[62]	TTTTTACGTGTTTGTAGATGAAGGTATATGATGTCTGAC	42	Yellow
80[118]	78[112]	TGAGAATAGGGTTGTACCAGG	21	Orange
81[14]	80[14]	AGACAAACCATGAA	14	Yellow
81[21]	80[35]	TCCCCATTCTGCAATGTGCTCTAGAGTC	28	Orange
81[63]	81[62]	GAAGGTTGAAATCGCAGATTGGCGTTATCAATGACATCAC	42	Grey
81[98]	76[98]	GGAGCATAACAACCTAAAGGAACCCCTCATTGCAAGGAGT	42	Orange
81[112]	78[119]	TGCTAAATAAATGATAACACTGAGTTGATGCTCAG	35	Red
82[97]	83[111]	GAACGCGGGTTTTGAAGCCTATTTTCAT	28	Cyan
82[111]	81[111]	ATCCGGTTAATTCTCGTACTCCGTGAGAGAAAGGGGATTT	42	Green
82[118]	79[108]	AAGGCTTCGATTAAGTACCGGCTTCTGTAACGCCTGTTAATT	46	Red
83[21]	80[21]	TTGCGCTAGTGAGCACATAACTAACGCTAGCGATGAAATATT	42	Orange
83[35]	76[42]	CGCTTCTGTGTGAATAAAGCCCGGGATTGAGATC	35	Green
83[49]	79[48]	ATTGTTATGGTCATAGCTGTTGAATGGAATAAATGAGGTCAA	42	Red
83[70]	83[69]	CACACCTCACCCAGCTAATTCGAATCATCCGCTCACAATTC	42	Cyan
83[84]	76[84]	TGCGGGAAGGCGTTAAGTACCCGCCACC	28	Red

Start	End	stacked cross core staple sequences	Length	Color
0[48]	3[55]	CATATAAAGTACGGCAACATGTTAAAGATTCATATA	35	
0[132]	3[132]	GGCTTTGGAACGAGCCGCTTTGGGGAAT	28	
1[28]	16[42]	TGACCTGGTTTTGCAATAGTAAAAATGTTAGACTGACGAGAA	42	
1[49]	16[63]	TGTCCTGGTCAGAAAAGATAGCGTCCAACACTCGCGAATGCTTT	42	
3[119]	18[119]	CTACGAATGCGGGAGATAGCCAAGCCCTAAAGGTGTCATATG	42	
4[34]	14[128]	GGCGCGACCTGTTTGAATACCTTGCAAAATAAAAA	35	
4[60]	2[49]	AAATTCCAATGTTAAAAATTCGCGCATAGCTGTAGCT	38	
4[118]	14[112]	AAAAAGAAATGCCAAGGAGTCCAGACGCAACGCC	35	
5[105]	75[118]	TTTTGCTGTTTTGCCCTCAGAGCCGCATTATTCTGGGGTCA	42	
5[133]	74[126]	CGTCGAGTAAGTATAGCCCCAGAGTAACATTTTCG	35	
7[56]	18[45]	ATTAATAAACGTGTGACGACGCCAGCTTTCCGGCA	35	
7[107]	4[109]	AACAAGTAAGCATCGTCACCCCTCAATACGTAAATAGC	40	
8[34]	1[27]	ATAATCAAAAAACATTTCCAATTCTCGCTTTAGTT	35	
8[132]	29[132]	CTTACCGGAACAAATAATTGATAAGTGCCTCAGAGAACCGCC	42	
9[42]	28[42]	TGTATAAATGTACCATCTGAACATTGCCAGTAGCATGGAGCC	42	
9[107]	16[112]	CAAGAATTGAGTAAGACTTTTTCATGCAGCAGCGAAAGACTAAATGA	47	
10[41]	19[41]	GATTTAGAGCTATATTTTAAAAACGGTAGCCGGTTGCAACTGT	42	
10[48]	77[48]	CAGTTGATACGAGGCAACGCATGTGTAG	28	
10[76]	17[76]	CGGATGGTATAGTCAGAAGAGTGAATCCCCCTCAAACTCGTCA	42	
10[97]	13[90]	CTCAGAAATCTAAAGACAGCCCTCATAGCGGTACC	35	
11[56]	14[49]	TCCTTTTCTTAATTGCTGAATTCAGGTGAGAGGAA	35	
12[55]	16[56]	CTTTATATTTTAAATTCGAGCTAAGATTATTTACCCAAACAGT	42	
12[97]	76[84]	ATAGGAACCCATAAACTCCAATTGAGGGCAACCCCTTTTG	42	
12[125]	12[126]	CAACAACCATCGAGAGTACAAACTCGAGGTGAATTACAATGA	42	
13[35]	11[41]	ACTCAAAATATCGCGTAAGAGCAACACTAAGGAAT	35	
13[91]	16[98]	GTAACACTGAGTTTTTCCACAGTTTTGTGTATGGG	35	
14[48]	15[48]	GCCCCAAGAGCTAAGATAAAATCAAAAA	28	
14[76]	12[56]	CGGATTGCATCAAATCAAAGCGGATTAGAGAGTAC	35	
14[111]	10[98]	GTAGCAGCGTCACCGGATAGCAAGCCACACCCGCCACC	42	
14[132]	15[125]	ATCAGCTTGCTTTATTAAAGG	21	
15[63]	77[76]	TGACTATCTTAGAGGATAAGATAATAAAGACGTTGGGAAGA	42	
15[105]	77[118]	CGTCTTTTGTAGTACCTCATTTAAAGAAATGTTCCAGTAAGCGT	42	
15[126]	77[132]	CTCCAAAGTATCACCGATATATGGTAATGGCTTTT	35	
16[41]	9[41]	TGACCAACCACTAACAGTTGAGGACCT	28	
16[97]	10[77]	ATTTTGCTAAACATCGTAACGCCGACCCCTCATG	35	
16[125]	9[132]	AAAAAAGAGCATCGAGGACTATAAGCCCAATAATA	35	
17[77]	16[105]	TAAATATTTCAACTTTCAACAGTTTTAGCGGAGTGAATTTTCT	42	
17[112]	16[126]	GAATAGAAAGGAACAACTAAAAATCTCC	28	
18[41]	19[34]	TGGTGCCGGAACCAAGCAACCATTCAGGCTGCG	35	
18[48]	0[49]	CCGCTTCGTCAGCTTTGAGGGCAATATTCGAAATATTCATTC	42	
18[97]	18[63]	AAGGGCGACATTCAACCGAGAAGATCGCACTCCAG	35	
18[118]	24[105]	GTTTACCAGCGCCAGGAAATCTTGAGCATTAACTCATTTTC	42	
19[63]	26[63]	ACAGTATATGGGCGTTAAATCAAAATAACGAAACCGCCAGC	42	
20[48]	22[35]	ATCTGGGGGCTATCACGACGCCAGTGGCAGTCACGGATGTG	42	
20[90]	21[104]	AGCCAGCCCAAGCGCATTTAGACGGGAGACATTTGATTACCA	42	
21[63]	25[76]	GACCGTACGAGTAAAGCTTTTCATCAACGCCATCAAGCTCAT	42	
21[77]	21[76]	AGGTCAATCACGACAGCAATCAAGTAAATGTGAGATGGGAT	42	
21[105]	22[119]	TTAGCAAGCAGCACGTTTTTCATCCAGTATGTTAGCTGAAACC	42	
21[119]	25[132]	AACGTCACCAACATATAAAAGACACCACGGAAATTAAGTCAG	42	
22[55]	22[56]	TCGGATTCTCCGGGACGTTGTACTTCTGTAGCCCAACCCG	42	
22[97]	18[98]	AGTAGCGTAGCACCGAATTAGAGTAAATTTGACAAGACAA	42	
22[118]	8[107]	ATCGATAGGCCGGATCACCGAATTCATTTTTTAAGAACCA	40	
23[28]	2[28]	GTTTTCCAGAGGGTGAGAGATCTGGAGCATCGATGAATTAG	42	
23[91]	28[91]	TCAGACTATAAAACAGGGAAAATTACAGAGAGAAACATAATC	42	
24[55]	21[62]	CTGGCAAAGATTAAATTTTGCATCGTAGCGGATT	35	
24[104]	22[98]	GGTCAACGTAGCGCCGTAATC	21	
24[132]	27[118]	ATTAAGCCGCGCGCGATTGGCCTTGATTTACAAATACCACC	42	
25[35]	20[49]	CTACAAAAAGGGCGTGGCGAAAAGTGGGAACAACGACCGTGC	42	
25[77]	19[90]	TTTTTAAAAAGTTGGTGTAGCGGCCCTCAGTTGAGGGAGGGA	42	
26[41]	5[34]	ATATTTCAACCGTTCATTAATGGAACGGGAATTTCTAC	35	
26[62]	24[56]	AGTTGGATCACCATGAGAAAAAGAGACGTTTCGCGT	35	
26[90]	28[70]	AGCCTATTGTGCTCATTTTGCAAGCGGATTCGCTGG	35	
27[105]	26[91]	CCCTTTATACAAATAAATCTCAAAATAGC	28	
27[119]	6[107]	ACCAGAGCTCCTTATTACGGGGAACACCTATCAGAGAGAT	40	
28[55]	74[42]	TCACGGGTTAACATATTACAGGTAGATTAGCCTTTGGTTGTA	42	
28[69]	75[76]	TGAAGGGTGTGAGAGATAGACATAAAGCGGCAAAAG	35	
28[90]	23[90]	AAAATCACCGGATCCAAACTTTAGGAACCTTTTGCTTTAGCG	42	
29[42]	75[55]	ATGTTTACCACTCCCTAAATCATAAACA	28	
29[91]	29[90]	ACCGGAATTAAAGGGCTGAAATTAAGCATTACCAGAGCCACC	42	
31[42]	30[42]	AAATTGTGTGATTAAACCATAGTACAACGGAGATTTGTATC	42	
31[63]	42[63]	TCTAAGAATTCCAAAAGAATATGGTGTG	28	
31[84]	48[84]	AGCGAACAATCGGCACAACGCGGTTATACGCAAGATCGCCTG	42	
31[105]	48[105]	GAGGTTTAGCATGTGGCAGAGTTAACCGTCAATATTCTGAA	42	
32[69]	44[63]	TTATCCGGAATCATAAAGGCCCAACAGTAAATATC	35	
32[83]	30[63]	CAGATATGCGTTTTAGCGCAGTCTCTGAGAAACAA	35	
32[132]	44[126]	AATAAACCCAGAGCATATAAACTGTTTACCTTAGA	35	
37[98]	30[84]	AATCTTATGCAACCCCTTGCGGTGCATTAAAGCCAGAATGGAA	42	
37[105]	44[98]	CCAACGCTAAAGTATTCAGCTAGCGATAGCTTAGA	35	
38[97]	32[84]	AATCAATCTCCGAAGCTACAACT	28	
38[118]	30[105]	ATTTACGTGAAGCCTTAAACCTTTTTTGTTTAAACGTCAAAAA	42	
38[132]	45[125]	AATATCCGTAATAATGAGGTCTGAGAGATACATAA	35	
39[49]	32[49]	CGGAAGCTATCATATATTTTATCGTAGGTAAAGTACCGCACT	42	
39[77]	32[70]	GAATCTATGCTTCTCTTATCACGCAGAGAAGGC	35	
40[76]	40[77]	TACTAGATACGCGGCCAATAGCAAGTACCATATTATAAT	42	
40[118]	32[105]	CAAAAGGTAACGAGCGCTCTTTAGTCAAGATTAGTTTGCTATTT	42	
41[56]	38[49]	CAACGCTTGTTTAGGTTAAATGAACGGGTAAATCC	35	
41[77]	44[77]	AATTGAGAATCGGAGAACGCGAGAAAAAC	28	
42[62]	49[62]	ATAAATCAAGAAAAACAAATCTATGATGAAACAATTTGCC	42	
43[77]	47[90]	ATCCAATTAACATATATTTAAACAATTTCAATGAATACAATA	42	
44[62]	47[62]	TTTAGTTGAAATACCGACCCCTCAAGTTACAAAATCGAGCAAA	42	
44[97]	38[98]	TTAAGAACAAATAAACACATGATTCTGTTAATTTAAGAAACC	42	
44[118]	38[119]	AAAACATAATGCAGAACGCGGTACCGACGAGCCACATCTTA	42	
44[125]	48[119]	ATCCTTGATCAAAATCATTATCTGTATTGTTTG	35	
45[91]	37[97]	TTTGAATTAGGTGCAACATGCCAGACGTATCTCTG	35	
45[105]	52[98]	TTTAATTGGATTTCTATCAACACGCTGAGAGCCA	35	
45[126]	50[126]	ATCAATAATGAAATAAAGAAACCAAGAGGAGCGGAATATC	42	
46[118]	39[118]	TTGCGTAGAAACAGCTACCTTGCATTTT	28	
47[63]	56[63]	AGAAGTTCGTCAATAGATAATAAACAAATTCGACGGCACACGA	42	
47[119]	51[125]	GCACGTAAAAACACATAAACACCGCTGCAGCTGAAC	35	
48[55]	41[55]	GCGCAGAATTGGTTAATTCAATAAAGC	28	
48[83]	50[84]	ATTGCTTGGAGAAATACAGTATTAAAGGTTTGTAGTAACAGTT	42	
48[104]	45[104]	TAATGGAAGGGTATCAACGCTGAGAAGATCCGGCTTACCTTT	42	
49[63]	58[56]	GAACGTTAAAACCTCGATTAAGTGGCAGATGGTTG	35	
49[70]	39[76]	ATTAATTACAGTACTAATTACATGTAAGAACACCG	35	
49[105]	56[98]	GCGGAACATATCGGTAAGCAAAATAACATCACTTG	35	
50[125]	66[119]	AAACCCTCATCGCCGGTCACCTTTTTGCTTCACCCGTTGCGGCATCGT	49	
51[84]	57[83]	TTTAGGATACATTGGCGAGATTCTGTGAAAATACCTAAAGGG	42	
51[126]	55[132]	CTCAATAAGCAATACTTCTTTGCTGGTAATATCTG	35	
52[76]	41[76]	TTAGAGCTACATCGTGAATACGATGCAATTTTTCAAGGGCTT	42	
52[90]	58[77]	TAACAACATAATAGAAAATATCGAAAGGAAATGGCTCGCCGCT	42	
52[97]	49[104]	GCAGCAGGTAGAACCTACCAAGGTTTATCATTTT	35	
53[126]	60[119]	CTTAAAATCCAGAACAAATATTAGTGTTAATCTGGA	35	
54[62]	68[56]	CGTAAGAGGAGCTAATAGCCCCAAGAGTGTGGAAGAAATGGGCCAGA	49	
55[49]	47[55]	GATAGAAATAAAGGACTTTACACATTTGATTACCT	35	
55[84]	60[98]	AATGGATTAGTAGAAGAACTCCAACAGGCGGTACGCCCGCAT	42	
55[112]	43[118]	CGGCCTTGATTAGTTACCTTACAGTGCATTATTTATTATACGTGAATT	49	
56[62]	51[76]	CCAGTAACCTTCTGACCTACGCTCAATGCCAGTTTATCTA	42	
56[97]	58[98]	CCTGATTGCAATGAAAAATCTCAAGTTCGCGGAACCCACACC	42	
57[91]	46[91]	ACAGGAAAAAAGCGTTTAATGGCAAAATCAACATTAACGTCAG	42	
57[112]	49[118]	CCTGAGAACCGCCACCTAAAACAAATCAAAAAGAAA	35	
58[111]	55[111]	GTAACCATGATAGCGCCATTGAAACTAT	28	
59[56]	66[56]	AAATCGGAAAAATCCCTCTCAAGGCCTG	28	
59[77]	72[77]	TCAGGCGCTGGTGTAAAGCCTGGGTGCTACTGCCGAGAAA	42	
59[98]	72[98]	TGAACCAAGTGTGCTGAGCTAGCGCGGTATCCCTTCTCCGG	42	
60[69]	50[70]	CAAAAGAAACAGGAGGCGATTACATTTATTTTGTATTGAGG	42	
60[83]	68[70]	AAAACCGCGTGGACCATAAAGTTCACACTGTGCACCTCTGTG	42	
60[97]	54[84]	TTAGAAACACTACGCGCGCGCTTAATGATTAGTCTCATGG	42	
61[42]	58[42]	GTTCCAGTTTGGAGAGATAGGGTTCGCGTTTGACGAGGCGC	42	
61[91]	62[91]	TCGCTTGACGGGGAATTAATGAATCGAGTAATGAGAGCAAGC	42	
61[112]	58[112]	CGAACGTACCCATAAAATCAAGGCTGCGC	28	
61[119]	68[119]	GGCGAGAAAACTGGTATTGGACTGTTG	28	
62[69]	54[63]	GCAGGCGCAAAATCCCTTATAACAGGGCGGCTACTAGACAATTGGAAG	49	
62[90]	57[90]	GGTCCACGATGGCCAGGCGAATTTTAG	28	
62[111]	57[111]	CCTGAGATACCCCAAGGGAGCCAGATG	28	
65[42]	62[42]	GCTGTTTCTGTGTTTCTGAACGTGAGCTGTTTGATGCTGAC	42	
65[70]	60[70]	CTCACAATGCCGGGTACCGACCATTTAAAGAATCTAAAT	42	
65[112]	62[112]	GGTTTGCTCGTGCCTTAATTGGCTGGC	28	
66[55]	73[62]	TTCTTCGAACGGCAGCACCGTAGCAACCGCTGCTC	35	
66[118]	73[125]	TAACGGCCAGCGGGGTATTGAGGCGGCTGATTG	35	
67[70]	73[83]	CGCAGTGGTGCCCCGCCATCCGACGCGGTGGTGGCTTGCC	42	
68[55]	72[56]	ATGCGGCGCAGCACGCGTACGTAATTT	28	
68[90]	68[91]	CTTTGGCCAACATACGCCAACGCGCGGATGGTAAAGGTTT	42	
68[118]	72[119]	CCCTGCGTGTGTTCAAGCAAGTTTTCGT	28	
69[98]	73[111]	GAGGTGTGGCGGACCGTGCCTAAAGTTA	28	
70[69]	61[90]	GCTCAGCCGCTTCTGACATCGGTTACCCAGTCTATGCCCCA	42	
70[90]	61[90]	ACGTACGCCAGCTTAGCCAGCGGTGCCCGGAAGTCCAACG	42	
70[111]	61[111]	TGATGAACCAGCATATCAGATACTCACAAGCTGCAAGCCGG	42	
72[55]	71[69]	GGGCTTGTAAACAAGCAAGAATTTAAGAACTGGCTCATTAT	42	
72[76]	71[90]	CACCAGAGAATAAGCTGGTCTATTCAAAGGGTGAGAAAGGC	42	
72[97]	69[97]	CCAGAGCACATCGAGCTCTGCATAAACTACCTGCACGGCTG	42	
72[111]	65[111]	CTGGCAGACATGGGCTGGTAGAGAGGC	28	
72[118]	71[125]	CTCGTCGAACGATGCCCTTTAGGTACATCGACATAA	35	
73[42]	68[42]	ATCAACGAGATGGTGGTTTCTGGGCCGT	28	
73[63]	65[69]	ATTCAGTACGAGTAGATCCAGGTGCTGCTTATCCG	35	
73[84]	71[111]	CTCTCATAACGGAATTGTAGACGGAGACAGTCAAGCGGTTGT	42	
74[41]	26[42]	CCAAAAACAGCGCCGCCACGGCCCAAGCTTTCACAATATG	42	
74[125]	5[118]	GAACTTACCCTCAGCGCCCAAGCAAGCTTACACC	35	
75[28]	13[34]	ACTTTTGAATTTTACGCCAAATCATAACAGACG	35	
75[56]	28[56]	CATCATACAGGCAACTCAGAGCATAAAGCGGAATTATAGCTC	42	
75[105]	27[104]	TAGGAGAGAAACATGAAAGTACCGCCTCATCTTTTATAGCC	42	
75[119]	20[119]	GTGCTTCCAACCTAGGCGGAGCGCTAACTGAACAATCACCG	42	
76[76]	14[77]	TCTACGTGGTCATTGAGTCAAGACACCGGAATTCAGAG	42	
76[83]	11[97]	ACCCCAAAATTAGCAAGACTCCTCAAGAAACACTCTCAGAGC	42	
77[35]	6[35]	TGAGTAAAGGATAACGGGAGACATTTGTAATAGTTGAGAGT	42	
77[49]	11[55]	GTAAGAGCCAGTCAACGAACTAACGGTTCAATTGC	35	
77[77]	75[104]	AACAGCGATTATACCAAGCGCATTTACCACTAAGAAGGAT	42	
77[119]	10[119]	CATACATAAGTTTAAACGGCATCCCCACGCATAACCGTACTC	42	
Start	End	stacked cross connector staple sequences	Length	Color
0[20]	0[133]	AACGAGGCTACAGA	14	
1[133]	1[20]	GGTAGCAACGTAGA	14	
2[27]	2[133]	ATACATTTTCGCAAGTTAAAGG	21	
3[27]	3[127]	AGTGCAGGGAATGGTCAATAA	21	
4[27]	4[140]	GCTGAAAAAGTGATA	14	
5[140]	5[27]	AGGGTGTGGCATCA	14	
6[27]	6[133]	AAACACGAGGAAACGCAATGG	21	
7[133]	7[27]	GTTACCGAAGGAAACAGAGA	21	
8[27]	8[133]	GAAAAAATAGCAATAGCTAT	21	
9[133]	9[27]	AGAGCAAGAAACATGGCCCC	21	
10[27]	10[133]	ACATTCAACTAATGAGGCTGT	21	
11[133]	11[27]	TTCGGTCTGTCGAGATACATA	21	
12[27]	12[133]	CCCTCACCGATAGTTGCGCCG	21	
13[133]	13[27]	TCTTAAACAGCTTATGTTTAA	21	
14[27]	14[133]	CAAAATAGCTTGTATCGGTTT	21	
15[133]	15[27]	AGGAGCCTTTAAGAGAGGCTT	21	
16[27]	16[133]	CAGAGATTTTTTACGTTGAA	21	
17[133]	17[27]	GGAATTGCGAATAATAGGGGT	21	
18[20]	18[126]	GCGCCACAATCAATAGAAAAAT	21	
19[126]	19[20]	AAAAGTTTATTTTGTCAATTCG	21	
20[34]	20[140]	ATCGGTGCGGGCCTCTCAAAG	21	
21[140]	21[34]	AAACGTGCTATTACGCCAGC	21	
22[34]	22[126]	CTGCAAGGCCATTAAAGTTGATACATAAAGGTGGCAA	35	
23[126]	23[27]	AAACGTAGAAAAATACAGGTAACGCCAGG	28	
24[27]	24[133]	AGCTACAAAAGAACTGGCATG	21	
25[133]	25[27]	AGAATAACGGAATACCTTTT	21	
26[27]	26[133]	TAGCTTTGAGCGAGGTACATC	21	
27[133]	27[27]	CAGCATTGACGAGGGAGATAA	21	
28[27]	28[133]	TAACCTCACCGGCCACCACC	21	
29[133]	29[34]	ACCTCAGAAAAACATCGGCGAAACGTA	28	
74[34]	74[133]	CATTATGACCTGTTAATGCCCTTGCC	28	
75[133]	75[27]	AGTGCCTGTATAAACAGTAAT	21	
76[27]	76[133]	TAGAACCCTCATGGAGTGTAC	21	
77[133]	77[34]	GATGATACAATATTTTAAATGCAATGCC	28	
30[41]	30[126]	ATCGCTCCAAATAAGAAACGA	21	
31[126]	31[41]	ATATTTATTTATCCCACTGAT	21	
32[48]	32[133]	CATCAGGAACAACAGTTACAA	21	
37[133]	37[133]	CTAATTGCGCAAGCGTTTT	21	
38[48]	38[133]	GCGACCTGCTCCAAGAAAAAT	21	
39[133]	39[48]	GACCTGAACATGTTACTTAGC	21	
40[48]	40[133]	TGCGTTATACAGATAAAGTGA	21	
41[133]	41[48]	TCAACAATAATTCTTACCACT	21	
42[55]	42[133]	AGCGAGGCGCAGACGGTAACCTTGCTTC	28	
43[133]	43[48]	AATCTGCTATCTTAAATTTA	21	
44[48]	44[133]	TCTTCTGACTAATTAATTTTC	21	
45[133]	45[55]	TATGTGAGTGAATCAATCATAAGGGAAT	28	
46[55]	46[133]			

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	
42[124]	34[105]	AAGTTACCTTCGAAAAAGATTGTTTGCTCAAGAAGGGGGCCAAGTGG	48	
30[111]	24[98]	AATCGGGACGACATCAAACCTCCATTGA	28	
8[104]	13[90]	AATGAGCTGATTTATAACGCTGGGCATGCTCGCTTGCTCTCG	42	
53[60]	12[63]	AATGAGTAACGCCACGTTTTTCGTGGGCAGC	31	
52[124]	47[124]	ACACCCGAACCTTGCTGCGCCTTATCA	26	
35[64]	40[65]	ACATAATGCCAGGCGGGCCAGGGGTCTGACGCCTCTCCT	39	
48[55]	48[35]	ACCAGGCGTACGACAGGAAAGA	21	
29[105]	32[98]	ACCATGGGTCGACTGCAGAATGCCTAGAGCCAGG	35	
26[111]	30[98]	ACCTCCACCGTACAGTTGTTAGCGGCG	28	
33[32]	38[32]	ACGCGGGTCTGTTATCCACA	20	
46[124]	50[105]	ACGGTAACTATCGTCTTGAGGGATTAGACCCCGC	34	
11[63]	20[70]	ACGTAGTGGGCATGGCCGCTATGGCTGATGATAT	35	
6[97]	53[97]	ACTAGAATGTGATGCAATTGCCCCCCCC	28	
37[35]	2[35]	ACTATGGCGAATAGATGCGAATTTTCAA	28	
0[76]	37[90]	AGAGCAGCGGTATGAGATTATCAAACCAACACGGCTATGAA	42	
29[64]	34[65]	AGATGGGCACCACCCCGTGACTAAGGTCATGTACTGGG	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]	AGTTCCGACCCTGCCAACCAACCGCTGG	27	
13[91]	6[98]	ATAAGCGGCCATTTGCGCGTCTACAATTAACCACA	35	
30[97]	35[97]	ATACCGAGTCGGTCCGGGCCATCAATGGACCGTAATCATTGA	42	
18[62]	14[63]	ATACTTCTGGTGGTTACGCAGTGACGCG	28	
37[77]	19[90]	ATATGGGCGGCATCCAGCGATGTTTCGCTGTGGCGGCGGTCC	42	
42[90]	48[77]	ATCCGGCAAACAGCGGCTACACTAGAAGCCCACGTTAAGGGA	42	
27[84]	26[64]	ATCTGAGCCGCCCATTGCCGGACACGCTGAACTA	34	
44[124]	39[111]	ATGTAGCGGTGCTACAGAGTCTGCGCCTTCCGTGAACTCC	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]	ATTTGACAGGTTGCCAGCCGGCCACTC	28	
21[56]	16[63]	CACTGCAGTGGCTGAAGTGCCACCTGGTTACTTG	35	
12[83]	6[63]	CAGGGGTTTTTAACAAAAAATGTCAAGCTCTAAA	35	
19[63]	22[63]	CATGCTTAGACGTTGCGCGTACGGGCAG	28	
17[63]	30[70]	CCATGCCGAGAGTGCAGGGCAGTCAAGTAGCTTC	35	
39[49]	51[62]	CCCCTGGAAGCTCTAAAGATGAGGTGGATCACAACATAGGC	42	
15[49]	38[49]	CCCCGAATTGTAGTGAATAATTGGGGACCTAATTGATGGCGG	42	
14[62]	15[48]	CCCTGTAGCGGCGCATTAAAGTCACATTT	28	
47[105]	2[105]	CCGACCGGGGGGTGGGCCCAACCGGCT	28	
7[63]	51[76]	CCTTTAGGGTTCAAAGGTGTGTTCTTCCCCACAGCCCTCCTT	42	
2[118]	45[124]	CGACAAGATGGGGTGGACCGACAGAGCGAGGTAA	34	
18[118]	0[112]	CGCATTGAGCCGGAACCGGG	21	
5[63]	52[60]	CGGCTTTCCCGCTCTTCTCCTGAGGCTCAATCTAAAGTATATA	45	
35[98]	48[98]	CGTCAATAGATCCTGGGCGAAGTTTCAG	28	
25[84]	24[64]	CGTCAATGGGGTGGAGTCAGCTTGCCGTAGGTGA	34	
39[70]	32[84]	CGTCAGTGAACGAAACTCCTGACCCATTGACGTTTACCG	42	
33[112]	40[119]	CGTTACTGTACTGCGTACTTGGCATATGCAGAAAA	35	
5[98]	5[124]	CTATTGCTTTATTTGTAACCATTATAA	27	
26[125]	21[125]	CTCTGCTAGTCCCGGGCGATGATTGCCC	28	
16[90]	23[90]	CTGGGTACGGCGGTACGAACTCACCATGGTAAAGTTGGAAA	42	
36[90]	13[83]	CTTAACGCGGAACTTTTCTCTGATCTTGAAAGCAA	35	
38[97]	42[98]	CTTTCAACTAGGGTTTGATCTTAGCGGTGGTTTTTGTTGGTA	42	
52[97]	46[84]	GAAAAGGACCCCCCGGTAAAGACACGAC	28	
50[69]	38[70]	GACGAGCCGAAACCCCGATTGTGCTTTGCATACATATTACTA	42	
19[35]	21[55]	GAGAACTGGTTGCTTGACTCTGAAGTCGATGAAG	35	
23[98]	11[104]	GAGTCAAACCGCATCCAGCATTGCTCAGCCCTTT	35	
16[83]	10[63]	GAGTCGCCGCCCTGCACTCAACCAACTTGATTAGG	35	
39[119]	51[125]	GATCCCTCCGGTATATTGCCAGCCCTGCTCGGTG	35	
19[70]	31[69]	GATGCCGCCTTCTGCCTGCTGAGAAGTC	28	
21[98]	9[104]	GCACGAGAACGCTAGGTTGTGCGGAGCTTTATAAG	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]	GCGTGGCGCTTTCTCCTTTCTCCCTTCTGTTACCGGATACCTG	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]	GGGCCCCGACTAAAGGGCGGGCTCAGAA	28	
53[84]	5[83]	GGGCCTGATTCATTTTATGTCTTATTTG	28	
1[49]	49[55]	GGGGACTTGCCAGCAAGTCA	21	
20[111]	23[111]	GGTAGCCGAAGCGGCTGCCAAACCGCTA	28	
33[70]	38[77]	GGTGCAGTCCCACCGTAATTG	21	
49[112]	43[124]	GTCTTTTTTGCTCTCTGCTGAAGCCA	27	
12[62]	12[35]	GTGACCCTACACTTGCCAAGGGTTATT	28	
17[112]	32[112]	GTGATCGTGATGTATCAGCCCCGCTGCGAGTCCCGGTGCTTG	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]	TATTTGAATGCGCGGCGGGTGTGCTGCTGGGGGATCCTCAT	42	
1[119]	3[125]	TCAAGCGTCCTGATCCCCCTGA	21	
32[41]	36[35]	TCACCTCTTACCAACTGGGC	21	
20[125]	15[125]	TCAGCAAGGCCGTC	14	
2[55]	50[35]	TCAGGACGTTTTTCAAATCGACGAAAGGCCAGGAA	35	
23[112]	28[112]	TCCACGCGCCAAAATTTGGAATATATAGGACGGTTCGGTACC	42	
23[91]	27[97]	TCCCCGTCGTCAATGGGGCGGACGCCTATCCGGTA	35	
51[63]	18[63]	TCCGCCCTGGTTCTCCCTAACCCCTTTGC	28	
21[35]	14[35]	TCCTCCTCAGCTTGTTCCGCGATTTAGA	28	
33[56]	0[56]	TCCTTGACTAATGCAGATGCATCTGTTG	28	
28[97]	38[98]	TCGAAGCCCTCGCCCTTGCTCGCAGTTTAAAGTCCGCCAAC	42	
1[98]	4[98]	TCGAATGTCCATCCGAACAGTACAACAA	28	
9[63]	1[76]	TCGACCCCAAACTACAAATGGTTTTTTAAGTTCATGACACA	42	
36[125]	31[111]	TCTACTTTCATCTCGTGATGGACCCAG	28	
9[84]	16[91]	TCTATTCGGAACAAATAGACGGTTTTTCGGGCGGA	35	
10[104]	15[90]	TCTTGTTCCAACTTTTTGATGCACGCTGCCGTAATCTGCTC	42	
5[84]	8[84]	TGAAATTTGCAGTGAAAAATACAAAAA	28	
32[69]	33[55]	TGGACGTAGCCTTCGGGCACGCCGCTCG	28	
45[84]	50[70]	TGGCAGCGAAAGGATCTTCACCTAGACT	28	
29[112]	0[119]	TGGCGACCGGTGGAACCTTGATATGGGAAGTCCCGGGCAGGACAAAAAG	49	
51[77]	3[83]	TTAAATTAAAAAGATGCTCGCTCGATTTCTTTTCA	35	
46[83]	53[83]	TTATCTCGGCTGTGTGCACGAAATGAAGTTTTAAATATGGCA	42	
49[105]	37[118]	TTATTCTCGCCCTGGTGGAAATCGAATC	28	
1[56]	3[62]	TTCCACATTCCGCCCCGCTCC	21	
38[111]	27[111]	TTCCGAACATTGGGGCGGTCCGGATCT	28	
47[63]	45[76]	TTCGCTCCAAGCTGTCAAGTTGCTGTAGGCTCACGCTGTAGG	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	-
-	-	AAAGGGGGTTTTGGGTTGATCCGTTCCAAAAATG	35	-
-	-	AAAGTTTTCTACCCTCAGCAGCGAAAT	28	-
-	-	AAATCCATATAACTATATGTACAAGAAC	28	-
-	-	AAATTGGGACGAGACCACATTCAACTAT	28	-
-	-	AACAAGCTTCATCAGTTGATTAGAGCAGCACAGGA	35	-
-	-	AACATATAACCAGAAGGAAACCGAGGA	27	-
-	-	AACCAAAAGGAATTTAAAAACAAAAGCTACCAGT	35	-
-	-	AACGTGGATGAACGCAACCATTATCAGCTTGCTTTAAAAAAG	42	-
-	-	AACTAACGGAACATAGGAATCATTAA	26	-
-	-	AAGGAGCCTTTATACTGAGAATAGAAAGACTTGCAGGGAGTT	42	-
-	-	AAGGCACCAACCTCAGTACAACTAA	26	-
-	-	AATACTGCCCAGCGGATTTGTAAATGAATTTTA	34	-
-	-	AATAGCCGAACAAAGTTAAATTGTTTGCCAGCAG	34	-
-	-	AATCAGATTTTATTGGGTATTTGTCTTT	28	-
-	-	AATTGTGTGTCGTCTCAACAGTTTCAGCGGAGTCAGCGATCT	42	-
-	-	ACAAATAAGATTGATGATAA	20	-
-	-	ACAACGCCTGTAGCATTCCAACGTTAGATCATCG	34	-
-	-	ACAGGAGTGTA CTGGTAATGGCTTAACGATTATTATTT	38	-
-	-	ACAGTTCCTAAAGTAATCCGCAAAGAGGGAACAACGCTCCAA	42	-
-	-	ACCCTGAACCATAACAACATG	21	-
-	-	ACTCAATAGAAACCAATCAATGAAACCATCGATAGAGAGCCA	42	-
-	-	ACTGGCTGGTAAATTACCGTCACCGAC	28	-
-	-	ACTGTATGGGATTTTGCTAAATTGCGAACTGACCGACCAGG	41	-
-	-	AGAAAACGTCATAAAAGAAGTGAATAA	28	-
-	-	AGAAAATGAAATTAATGCGATTTAATAA	28	-
-	-	AGACTAAAGACTTCTGTCAATATAGAATTC	31	-
-	-	AGATAAGTTTTTAAGAAAACCTTTGTGAATTTATCA	35	-
-	-	AGCCCGGAATAGGTGATTGTATCGGTT	27	-
-	-	AGCGTTATACAAATTCTGTTTAACCGACCTGACCTA	38	-
-	-	AGCGTTTATGACAAGTGACAACTTTG	28	-
-	-	AGGAATAAACACCAATAACAAAGCTGCTTATGCAA	35	-
-	-	AGGTGGCAAGAACTGGCATGAAACCGCCCCCTCAGACCAAATC	42	-
-	-	AGTAATTCACCGGACAACAGTAGTTAATTTTCCCT	35	-
-	-	AGTCAGATTGCTATCCTGAGCAAAAGCGCAAGAAA	35	-
-	-	AGTGCCGTCGAGAGCTCAGTAAAGGATTTTAAGAGCCTATTA	42	-
-	-	AGTTTCCTAAAGTACCGACATCTTAATT	28	-
-	-	AGTTTGAAATGTATCATTTACCAGGAGGGGG	31	-
-	-	ATAAAGCGCCATATGAGAATAATTAAAC	28	-
-	-	ATACGTACGAGCCATTTGCCAACGACGAACGAGGC	35	-
-	-	ATAGCAAGCCCAATCCACCCTCATTTTCCCGCCACCCTCAGA	42	-
-	-	ATCAAAAAGCGTCCTAATAGT	21	-
-	-	ATCACGTTGAAAATCTCCAACGAGGTGGCCGACAGCCATCTCCACCGG	48	-
-	-	ATCCCAATACAAAATTTGCC	21	-
-	-	ATCCTAATCCTGATCCAGCTAAGCGTCTTTAACAA	35	-
-	-	ATCGCAAGACAAAGTTAATTTGGCTTATCCGGTTGCATCGAG	42	-
-	-	ATCTTACCGAAGCCCTTTATGTAGCGATAATATCGAAGCCTTTATCAA	48	-
-	-	ATGCTGATGCAATTTAAGCAAGCAATAGTAAGAGCAAC	38	-
-	-	ATTATTCGTCGCTGAGGCAGAAAGCGCCTCAGAAATTGGCC	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	-
-	-	CCATAAAAAACAGGGAGATGATATTATAC	28	-
-	-	CCCTCAGAGAGCCATTTCATAATCAAAAATACCGA	35	-
-	-	CCTTATCAAGGCCGATCTACGTTTAAGAATGGTTTTTGACAG	42	-
-	-	CCTTTACAGAGAGAATAACATTTTTTGTT	28	-
-	-	CGACTTGATTTCTGATTATCAAGCGCA	28	-
-	-	CGCCACATAGCCCGAGCCGCTACCCAA	28	-
-	-	CGGATATCGCATAGTAGTTGCAATTTCTTAAACAG	35	-
-	-	CGTCGCTATTAAGGAACCTTGCTTTTTCTACAGAGGCTTTGAGA	45	-
-	-	CGTTGGGAGAAAGAAAGCCGTTATAGAACATCTTC	35	-
-	-	CTTTTACATATGGAACAGTA	21	-
-	-	GAAAACATAGCGAACTGTCCATGTGAGTAAATTGCACAGACA	42	-
-	-	GAAACGCAAGGGCGACTTAAGAAAAGTAAGCAGA	34	-
-	-	GAAAGTAAGGATTACCATATAATTATCATCATACCGAATTTA	42	-
-	-	GAACAAACAAATAACGGGAGGGCGTTTTTAAACAA	35	-
-	-	GAACAAAGAACGAGAGCTATAATATACA	28	-
-	-	GAACCGCCACCCTCTTAGTACCGCCACCTACCGTACTCAGG	42	-
-	-	GAAGAGTCAATATTAATGCAGACGACAAAGCGAACCAGAAAT	42	-
-	-	GAATTAACCTGAACACCCTGCC	21	-
-	-	GACCTGCCCTGATAACTCATCAAGAGGCGGGTAAA	35	-
-	-	GAGAATCCAACGCTATCATAAGCGTTAA	28	-
-	-	GAGAATGCTAATGCAGATACATAACGGA	28	-
-	-	GATGAAACAAACATCAAGAAAATTCATT	28	-
-	-	GCAAAATTTGAGCCATTGAGGAAGACAAAAGACA	35	-
-	-	GCATCGGAACGACATTGAATCCCCCTAGGAAAAAG	35	-
-	-	GCTAACGCAATTTTGCGAATTTACCAAG	28	-
-	-	GCTGGCTCATAAGGCCGGAACCAACGGAATTATAC	35	-
-	-	GTAACCAAGGAACCCATGTACTAGGGTAGCAACGGATGAGGA	42	-
-	-	GTAGGCTTTTGCAATATTTCACTAAAAC	28	-
-	-	GTGTGATAAATAAGTTACTAGCAAAATAGCGAGAACAATTCT	42	-
-	-	GTTTACCAGCGCCAGAGGGAACATTATA	28	-
-	-	TAAAGGAACAACTTTTTCCAGCAGACAGCTGAGTT	35	-
-	-	TAACGTCAGTAAGCGAGCGGAACAGTTG	28	-
-	-	TAATAAGAGCAAGAAACAATTAGATAACAGCATGT	35	-
-	-	TACAGGTAAGAAAAGAAACGTAGCACCA	28	-
-	-	TACTTAGGAACCGAATAATAATTTTTA	27	-
-	-	TCAACCGATTTGGGAATGAAATAGCAATAGCTAA	34	-
-	-	TCAATTATTTGCACTGTTTGGGGCAATTCCAGAAGGTCATAC	42	-
-	-	TCATTAACCTGGAAGAACAAATGCTTTAAACGCGAGTTGATTT	42	-
-	-	TCATTACGCCACCAGAGGTTGATAAGTT	28	-
-	-	TCCATGTTTTTAAACATTTCAGTGAATGA	28	-
-	-	TCCTTATTACGCGAGCGGAACCGCCCAAGAACTTGCATCTGTAGCT	49	-
-	-	TCGTCACAAAACGATTTGACCCGGAATC	28	-
-	-	TCTGAGAGACTACCTCCTGAACGCCTGTAAATCA	35	-
-	-	TGCCCCCTGCCTATCAGATGATTCATAT	28	-
-	-	TGCCTTGAGTAACCATTCTGCGAAACCA	28	-
-	-	TGGAAGGTTACATTTAACACGAAAAGAT	28	-
-	-	TTAACAACGCCAACATGTAATTTAGGA	27	-
-	-	TTAACGTTTCGGAAGCTGAGACTCAGTGCCCGTAT	35	-
-	-	TTAAGACAAATACATACATAACCACGGAAGGCAGG	35	-
-	-	TTACCATTGAATTAATTGACGTCATATGTATTTTGACGTAGA	42	-
-	-	TTAGAGAATCAAGATATTTACGTAATCA	28	-
-	-	TTAGCAATCACAATGCCAGCAAATTTCA	28	-
-	-	TTCAGCTCAAATATATAAGAATAATAGCTTAGATT	35	-
-	-	TTCATCGACATTATTATAGTCAGAAGGAGGTCTTT	35	-
-	-	TTCTGAAGTAGATTTCGTAAAACATAATAA	28	-
-	-	TTCTGCCAGATTAGGGGTAATAATTGAG	28	-
-	-	TTTCATTGCCCGCTTTTGCGGGATCGGAACGGTGTAGCCAGA	42	-

Start	End	six-helix bundle sequences (p7560)	Length	Color
3[392]	1[405]	AAAACGAGAATGCCATGCCTTTAAACAGTCAATTGAATCCCCC	42	red
5[294]	2[294]	AAAAGAACCTCTGAATCGGTTGTACCAAGCAAAATTAAGCAA	42	blue
2[419]	5[419]	AAAAGAAGTTTTAAAGACGACGATAAAATCATAACTACGTGA	42	black
3[896]	1[909]	AAACAATGAAATAACCCAATAAAGAGTACAAGAATTGAGT	42	red
2[209]	5[209]	AAACGTTAATATCAAAAACAGGAAGATGATAATCAGTTGCA	42	black
5[798]	2[798]	AAAGAGTCATCTTTTTCATAGCCCCCTTAACCGTCAGACTGTA	42	blue
4[909]	0[896]	AAAGCAATAGCTATTGTCTGGTAATATCAGAGATAACCCAAG	42	orange
3[1064]	1[1077]	AAAGCCTGTTTAGCGAATCATAATTACTCCATAAGAATAAAC	42	red
3[140]	1[153]	AAAGCGCCATTCCGTGGTGCCGGAACCCCTTCCGGCACCG	42	red
1[364]	4[364]	AACAAATATCGCGTAAGCAAACCTCAACGACTCCATATTATA	42	orange
4[1203]	0[1190]	AACAGAAATAAGAGCAGAAGATAAAACTACTTCTGAATAAA	42	orange
0[475]	3[475]	AACATTAAATCGGAATTTTCAACTTTAATTGGCTCATTATATA	42	blue
2[251]	5[251]	AACCGTTCTAGCAAAGGCCGGAGACAGTGATTCAAAAATCCT	42	black
4[1035]	0[1022]	AACGCGCCTGTTTAACACGACCAGTAATAGGTAAAGTAATAT	42	orange
3[854]	1[867]	AAGACACCACGGCAACATATAAAAGAAAAATACATAAAGGT	42	red
4[153]	0[140]	AAGCCATTCAAGCTGTTTTTCTTTTCACACTCCAGCCAGCAG	42	orange
2[1175]	5[1175]	AATAACGGATTCAAGAATAATACAGTAACTCAGGTTAAATAC	42	black
1[1120]	4[1120]	AATAATTAATTTTCAGATTAAAGACGCTGGCTATTAGAAACAG	42	orange
4[993]	0[980]	AATCAGATATAGAAATCGTCTGAAATGGAAGCAAGCCGTTTT	42	orange
0[223]	3[223]	AATCAGCGTCCACGTATGTACCCCGTTTTGTATAAGCAAATA	42	blue
5[756]	2[756]	AATCCTGGCCAGAACAACAAATAAAGCGAGGTTGAGGCA	42	blue
2[1133]	5[1133]	AATCGTCGTATAATAAATCAATATATGTTTAATGGTCTTTA	42	black
4[321]	0[308]	AATGGCATCAATTCAGATAGGGTTGAGTCGCAATGGTCAAC	42	orange
3[1148]	1[1161]	AATTAATTACATATCAACATCAAGAAAAAAGAAGATGAT	42	red
5[168]	2[168]	ACAGCTGTATCGGCTGCCAGTTTGAGGGTTACGTTGGTGTAG	42	blue
3[728]	1[741]	ACAGGAGTGTAACCTACATGGCTTTTGATCGTTCCAGTAAGC	42	red
5[420]	2[420]	ACCATCAGCGTCCAATAAGTAAATGTTTAAGAGGCTTTTGC	42	blue
1[784]	4[784]	ACCGGCATTTTCGGTCATAAATCAAAATCGAGGCCACCGTAAT	42	orange
4[531]	0[518]	ACCGTCAATCATACGGCGAACGTGGCGTAAATTGTGTGCAT	42	orange
3[1106]	1[1119]	ACCTTTTTAACCCATCATAGGTCTGAGATTAGTGAATTTATC	42	red
0[181]	3[181]	ACGACAGATTGCCACAACCCGTCGGATATGGGATAGGTCTC	42	blue
3[518]	1[531]	ACGAGCGCAGACACCATGTTACTTAGCTCAAAATCCGCGACC	42	red
1[490]	4[490]	ACGAGTAATCTTGATAACAAGGCTGCTCCCCGATTTTGAAAG	42	orange
2[83]	5[83]	ACGCTCGCCTGCTCAATGTCCCGCCAAGAATTGTAGCTGCA	42	black
1[1036]	4[1036]	ACGTAATTTAGGCAAAAGTACCGCAAAAAAAGGGTAAGGCC	42	orange
1[1078]	4[1078]	ACTAGTTAATTTACGACCGTGTGATAATGAAAGCAATGCTG	42	orange
4[573]	0[560]	ACTCCATTAACGGCGGGCTAGGGCGCGAGGGTAGCAAAG	42	orange
0[895]	3[895]	ACTCCTTATCGGCCCTTACCGAAGCCCTGTTACCAGAAAGGAG	42	blue
1[238]	4[238]	ACTGATAAATTAATCAAAGGCTATCAGGCAGGCCAAAGGGTG	42	orange
5[42]	2[42]	ACTGCCCGAAATTGTCATGGTCATAGCTAAACGGAGGATCCC	42	blue
4[867]	0[854]	AGAATAAGTTTTATTATAACATCACTTGCCGTAGAAAAACAG	42	orange
0[349]	3[349]	AGATTTAAGTCCACTTAATTGCTGAATAAACTAAAGTACGGG	42	blue
5[462]	2[462]	AGCACTATTACGGAACCAACTAACGAGCCAGTCAGGACG	42	blue
2[923]	5[923]	AGCGCATTAGACAGTAGCAGCCTTTACATAACGTCATATTAC	42	black
4[237]	0[224]	AGGCATGTCAATCACTGGTTTTGCCCGAGTCATTGCCTGAGTA	42	orange
5[378]	2[378]	AGGGCGAAGACCGGTTTAATTCGAGCTTTCATTAAGAGGAAG	42	blue
1[952]	4[952]	AGTAGTTGCTATTTCCAACGCTAACGAGCATGGAAACGCGAG	42	black
2[629]	5[629]	AGTGAGAAATAGAGTATGGGATTTTGTAAAGTAAATTTAATGC	42	black
4[489]	0[476]	AGTGAGATGGTTTAACCTTAAGGGAGCATTCAAGTGAATAAC	42	orange
4[1161]	0[1148]	AGTTAACAATTTCAAGCCCTAAAACATCATTACCTGAGCAAA	42	orange
5[672]	2[672]	ATAACGTACACTGAGCCCAATAGGAACCATCCTCAGAGCCAC	42	blue
3[980]	1[993]	ATAGCAAGCAAATGAATCATTACCGCATTTTATTTTCATC	42	red
3[266]	1[279]	ATATTTTAAATGAAATTTTTAGAACCCTTCAACGCAAGGA	42	red
3[182]	1[195]	ATCAACATTAAACCTTCCTGTAGCCAGCGATAATTTCGCGTCT	42	red
0[1231]	3[1231]	ATCAATAAACACCGGAACGTTATTAATTAACAAAGAAACCGA	42	blue
0[1189]	3[1189]	ATCGCGCACCACCAAATTGCGTAGATTTAGTACCTTTTACAT	42	blue
3[224]	1[237]	ATCGTAAACTAAAGAGAAATCGATGAACGTAGTCTGGAGCAA	42	red
4[69]	0[56]	ATCTCTGACCTCCTAGTCGGGAAACCTGGCACGAATATAGTT	42	black
5[1134]	2[1134]	ATGCGCGATAGCTTCTTGAGTAATCCTTGACCTTGCTTCTGTA	42	blue
2[167]	5[167]	ATGGGCGCATCGTCGCGGATTGACCGTATCTCCGTACGGGCA	42	black
0[1105]	3[1105]	ATGGTTTCACAGACTGGGTTATATAACTGACAAAGAACGCCT	42	blue
1[826]	4[826]	ATGTAATATTGACTACCGACTTGAGCCGTTGTATCATATG	42	orange
4[1077]	0[1064]	ATGTATCATATGCGGAACCTTCTGACCATAAGGCGTTAAAG	42	orange
0[307]	3[307]	ATTATGATAGCCCGTACTAATAGTAGTACAAGAATTAGCGC	42	blue
0[643]	3[643]	ATTTTTTCAGGGCGTCTTTCAGACGTTAACCAACTTTCAATA	42	blue
2[1049]	5[1049]	CAACGCCAACATGACTCAACAGTAGGGCACCAGTAACATTCT	42	black
3[1232]	1[1245]	CAACTCGTATTACAACTTTACAAACAATATGATTTAGAAGTA	42	red
0[727]	3[727]	CAAGAGAGATTAAATTAACGGGGTCAGTATGCCCCCTGCCAT	42	blue
2[1007]	5[1007]	CAATAATCGGCTAGAATATCCCATCCTAGTCTGAACATTGG	42	black
4[783]	0[770]	CACCACCCTCAGAGTTTTTATAATCAGTACCGGAACAGACT	42	orange
2[671]	5[671]	CACCCTCATTTTACAGAACCGCCACCCCTTTTAGTAAGCACGT	42	black
5[1008]	2[1008]	CAGATTCAGTACCGCATCCAAGAACGGTTGTAGAAACCAAT	42	blue
5[1218]	2[1218]	CAGTATTTAATCCTATCAGATGATGGCATACCAGAAGGAGC	42	blue
0[1147]	3[1147]	CATAGGAACTGATTTTGAATTACCTTTTGAGTGAATAACAA	42	blue
3[560]	1[573]	CATGAGGAAGTTAAGAGGACTAAAGACTAACGGCTACAGAGG	42	red
4[741]	0[728]	CATGGTAATAAGTTGGGATTTTAGACAGTCTGAATTTACCCT	42	orange
0[769]	3[769]	CATTAAGAAGAGTGCCACCACCCTCAGACAGATTGACAGCA	42	blue
3[56]	1[69]	CATTTCTCCGAAGAGACGCAATTTACATGTGGGCCTTGAATC	42	red
5[966]	2[966]	CATTTTGAATCTTATGCACCCAGCTACACCGGTTTTGAAGCC	42	blue
4[657]	0[644]	CCAAAGTTTTGTGCGCTACTATGGTTGCACAAACTACAACCT	42	orange
1[658]	4[658]	CCCAGGGATAGCAAGTTTCTGTCACAGTTTTGACGCGGCCAC	42	orange
2[377]	5[377]	CCCGAAAGACTTTTGAAGCAAGCGGATCCCTGACACGTCAA	42	black
3[770]	1[783]	CCCTCAGAACCGGTCTCCCTCAGAGCCTCGCCACCACCGGA	42	red
0[601]	3[601]	CCCTCAGCTGCGCGTTGATACCGATAGGCATAACCGATAGC	42	blue
4[195]	0[182]	CCTGTGAGCGAGTATTCACCGCCTGGCCGCCATCAAAAACG	42	orange
0[55]	3[55]	CCTGTGTGCTTTCGGGTTGGTGTAATGAACCTCGATAAAGAT	42	blue
5[1176]	2[1176]	CGAACGAAGAGGCGTGAATACCAAGTTATTATCGGGAGAAAC	42	blue
2[881]	5[881]	CGCAATAATAACCAGATAGCCGAACAAATTTTAAGGAAGAAC	42	black
5[924]	2[924]	CGCCAGCGTAATTGTGAACACCCTGAACCATAAAAACAGGGA	42	blue
4[111]	0[98]	CGCGCACGACTTAAACGCGCGGGGAGACCAAGCTTTCTCCC	42	orange
0[811]	3[811]	CGTTTTGCCTGTCCAATGAACCATCGATGTTTGCCTTTAGCA	42	blue
4[1245]	0[1232]	CTAATCCTTTGCCCCCTGCAACAGTGCCAATACATTTTGAGTC	42	orange
1[574]	4[574]	CTGAGTTAAAGGCCAGACAGCATCGAACTGGCAAGACAATG	42	orange
0[97]	3[97]	CTGCCATATCGGCCGTGTCTTAGTGCTAATAACCCCGCTGT	42	blue
0[433]	3[433]	CTGGATACCCAAATTAAAGAGCAACACTAACCAAAATAGCGAC	42	blue
1[154]	4[154]	CTTAACCGTGCATCCTCAGGAAGATCGCCAGTGAGGGGAACA	42	black
4[615]	0[602]	CTTTTCTTAAACAGTAACCACCACACCCAAAGGCTCCAAACA	42	orange
5[546]	2[546]	GAAAGCGGAGATTTACCAAGCGCGAAACTTACACTAAACAC	42	blue
5[336]	2[336]	GAACAAGGTTTGACCAATTCTGCGAACGAGTGTCTGGAAGT	42	blue
1[1204]	4[1204]	GAATATTCCTGATTGATTGTTTGGATTAAGAGGTGTTTGAGT	42	orange
2[503]	5[503]	GACCTTCATCAAGACAGATGAACGGTGTACCAACTTTAGAGC	42	black
1[1162]	4[1162]	GAGCCTGATTGCTTAATTATTCTATTTACGCCATTATAACGTC	42	orange
3[308]	1[321]	GAGCTGAAAAGGCATATTTTCATTTGGGAAATAACCTGTTTA	42	red
2[587]	5[587]	GAGGCTTGCAAGTTCAACCATCGCCCACTTGCGCCGTGTAGC	42	black
2[839]	5[839]	GAGGGAGGGAAGCAACCAGCGCCAAAGAAGAAAAATGCAATAC	42	black
1[322]	4[322]	GCAACAGTTGATTCCATTAGATACATTTGTTGTTCTGTAGCTC	42	orange
5[210]	2[210]	GCAAGCGTCAATTTTCGATTAAATTTTTTGGTATTAAATTGT	42	blue
1[700]	4[700]	GCACATGAAAGTATGGATTAGCGGGGTTGCGGGAGGTAACAG	42	orange
4[951]	0[938]	GCATCCAAATAAGAACAGGAAGAACGCTGCTTTCCAGAAG	42	orange
3[434]	1[447]	GCCAAAGGAATATCTAATGCAGATACATAGGAATACCACAT	42	black
5[630]	2[630]	GCCGCTACACGTTGAAGGAATTGCGAATGTCAGTTTCAGCGG	42	blue
0[391]	3[391]	GCGAACCAAAACCGAAATCAGGTCTTTATGCATCAAAAAGAG	42	blue
2[797]	5[797]	GCGCGTTTTTCATCGAGCGACAGAATCAAAGCAGCACCGAGTA	42	black
3[644]	1[657]	GCGTAACGATCTTCAGACAGCCCTCATAAAGCCTGTAGCATT	42	red
3[1022]	1[1035]	GCTAATGCAGAACGCAATAAACACATGGTTCTGTCCAGACG	42	red
2[125]	5[125]	GCTGCAAGGCGATGCCTCTTCGCTATTAAAGGGCGTGCGTAT	42	black
2[1217]	5[1217]	GGAATTATCATCACTTATCATTTTGGCGTTAAAAGAGGCGGT	42	black
5[714]	2[714]	GGAGGCCAGGATTATAAGAGGCTGAGACTGTATTTCGGAACC	42	blue
5[1050]	2[1050]	GGCCAACAGAATATGAGGCATTTTTCGAGAGCGCCATATTTAA	42	blue
1[70]	4[70]	GGGAGTGACTCTATCAACTCGTCGGTGGTGCCTTCCAACTT	42	orange
1[868]	4[868]	GGGGAATACCCAAAAGTATGTTAGCAAACTGAGTAAAAAGTA	42	orange
5[588]	2[588]	GGTCAGCAGCGAAGCTTTTGGGGATCTTTATTCCGTCGCT	42	blue
2[755]	5[755]	GGTCAGAGCATTAACCAAGAGCCGCGCCGCCAACCGCCAG	42	black
1[112]	4[112]	GGTTAAGTTGGGTAACGACGCGCCAGTGGGCGGTTATCGGTG	42	orange
1[196]	4[196]	GGTTTGTTAAATTTTAACCAATAGGAACTGAGAGAGAAAAG	42	orange
3[476]	1[489]	GTAATTGGGCTGAGAAACACCAGAACGGAAGGCTTGCCCTG	42	red
3[686]	1[699]	GTATAGCCCGACCTCGAGAGGGTTGATCAAGGCGGATAAGT	42	red
4[363]	0[350]	GTATGGCTTAGAGCTATTAAAGAACGTGAGGTCAAGATTAGT	42	orange
4[825]	0[812]	GTGAAACGTCACCATCAGCGAAATTAACCATTTGGGAATTAG	42	black
0[853]	3[853]	GTGAATTATTAGTATTGTCACAATCAATCAAAAGGGCGACCA	42	blue
1[742]	4[742]	GTGGCCTTGATATTTGAAAGCGAGCTGAACGTTCCAGAAC	42	orange
1[994]	4[994]	GTGCTTTTCCTTATCACTCATCGAGAACATTATTTACAAGAA	42	black
5[252]	2[252]	GTTTGATAGATCTAGCCGAGAGGTAGTCAATATGATATTTC	42	blue
0[1021]	3[1021]	TAAACCAACCAGTCTCAACAATAGGATAAATTTACGACATCA	42	blue
2[293]	5[293]	TAAAGCCTCAGAAATCATACAGGCAAGGGCATTAAATAAATC	42	black
4[405]	0[392]	TAACCATAAATCAATCTATCAGGGCGATTCAAAATATTCAA	42	orange
0[1063]	3[1063]	TAATAAGAGAGATATTATACAAATCTTTTAATTGAGAATAA	42	blue
0[559]	3[559]	TACAACGAAAGAGGTAAATACGTAATAGGCAAAAGAAATTT	42	blue
4[279]	0[266]	TACAATGCCTGAGTCCGAAATCGGCAAGAAAGCCTTTATTAT	42	orange
0[517]	3[517]	TACCCAAGGAAAGCAGGGAACCGAACTGACAGACCAGGCGGA	42	blue
0[685]	3[685]	TACCGTAGCTTTCCCGTACTCAGGAGCGAGAACCAGCCACAA	42	blue
5[1292]	2[1092]	TACGTGGGAAATACTCTTCTGACCTAAAGAGAGAAAACTTTT	42	blue
1[280]	4[280]	TAGCATAAAGCTAAATACTTTTGGCGAATCCCTTCATCCAA	42	orange
1[910]	4[910]	TAGGGAGAAATTAACAGCGCTAATATCAGCAGAACCAAAAAATG	42	black
4[1119]	0[1106]	TATCCGCTTAGTGAATATTTTTGAATGAGAAGAGTCAATTA	42	orange
0[979]	3[979]	TATCCTGACGCTCAGGCTTATCCGGTATCGACTTGCGGGACA	42	blue
2[713]	5[713]	TATTATTCTGAACGCGTATAAACAGTTAGCCTTGACTAAACA	42	black
5[882]	2[882]	TCAAACATTACGCAGAAGTGGCATGATCAAAACCGAGGAAA	42	blue
2[1091]	5[1091]	TCAAATATATTTTCAAATCCAATCGAAATATGTAGTAAAGAA	42	black
0[139]	3[139]	TCACGACCAGGGTGGCGCAACTGTTGGGCGCCAGCTGGCGGC	42	blue
0[937]	3[937]	TCAGAGGCATTGCAACAGATTTTTTGTGTAGAGAATAACATA	42	blue
1[448]	4[448]	TCATCTACGTTAATTAGAAAGATTCACTCGAGGTAATTACC	42	orange
2[545]	5[545]	TCATCTTTGACCTACCTAAACGAAAGGCCACTAAAGGGGAA	42	black
3[350]	1[363]	TCATTTTTTGGGCGATCTCTTTTGATAAGAGAGAGTACCTTT	42	red
1[406]	4[406]	TCGCCAGAGGGGGTACTGCGGAAATCGGGCCCACTTCGTT	42	orange
4[699]	0[686]	TGATAGGTGTATCATCGTTAGAATCAGATTGCTCAGTACCTG	42	orange
1[532]	4[532]	TGCCCAGCGATTATGTATCATCGCCTGAAGAAGGCGGAAGGC	42	orange
5[126]	2[126]	TGGGCGCGTTGTAAACGCCAGGGTTTTTCAGAAAGGGGATGT	42	blue
3[98]	1[111]	TGTGAATTCATGGGATGTTCTTCTAAGGAGAGAGAAGCCAG	42	red
2[965]	5[965]	TTAAATCAAGATTTTTTAGCGAACCTCTCTAAGAATACCTA	42	black
1[616]	4[616]	TTAAGGAACAACATAAAATCTCCAAAAGGCCGCGGAATTTT	42	orange
5[84]	2[84]	TTAATGACTGTAAAGGATACCGACAGTGTCTAATCTATTTT	42	blue
3[812]	1[825]	TTAGCAAGGCCGTTCCAGTAGCACCATTTTAGAGCCAGCAAA	42	red
3[938]	1[951]	TTATTTATCCAGTACAAATAAAGCAAGCTAATTTTGCC	42	black
2[335]	5[335]	TTCAATCCATATTATGTTTTAAATATGCTAATGCTCAGTTTG	42	black
5[840]	2[840]	TTCTTTGATCACCGGAAATTAATTCATTGATTCAACCGATT	42	blue
5[504]	2[504]	TTGACGGATCAACGCAAGAACCGGATATCGCATAGGCTGGCT	42	blue
3[1190]	1[1203]	TTGCACGTAAAACACTACCATATCAAAACATGGAAGGGTTA	42	red
2[461]	5[461]	TTGGGAAGAAAAAGCGATTTTAAAGAACCATTTGGCCGTAA	42	black
4[447]	0[434]	TTTACGAGGCATAGCAAGTTTTTTGGGGAGTTGAGATTTAGA	42	orange
3[602]	1[615]	TTTCGAGGTGAAGTATCGGTTTATCAGCGTAGGAGCCTTTAA	42	red
0[265]	3[265]	TTTTGAGGGTGGTTAATGTGTAGGTAACAAATCACCATCAT	42	blue

Start	End	six-helix bundle staple sequences (pEGFP)	Length	Color
-	-	GACTAATCGGAACAAACCGGGCGCCCCTGCATTTCAGGGCACCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGACAGCTGAGATGCAGCCACGATAGCCGCTTTGCAGTTCTTATTCGCATAAGGGCTAGTCC	63	-
-	-	ACGCCCCGTCTGGCCATGCTTTGCATACTCTGCCCGGGCGCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CAGTGACAACGTCGGCCAGTCCCTTCCCGCACTTCGCCCAATATTCGCATAAGGGCTAGTCC	63	-
-	-	AGCATTGCATCAGCGAGATGACAGGAGATTCTGCCGCAAGGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ATGCAGCCGCCGCAAGCACAGCTTCGAAGGTGGGCTGCTGGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GAGCCTGGCAAGGTCATGATGGATACTTTCCGGATCAAGCGTATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGCAGAGGGGACTTGCGATGTTTCGCTTTGGGCAGGTAGCATATTCGCATAAGGGCTAGTCC	63	-
-	-	CGTGCTCGCTCGATTCCACACCTGGTTGAACAGTTCGGCTTCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCTGATCGACAAGAGCTCTTCGTCCAGATCGGCGGAGCCCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGATCGCCATGGGTCCTTGAGCCTGGCGCTGACTACCGAGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGGCAAGCAGGCATCCGGCTTCCGAAAAATCCAATATTGAGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGCATGCATGCTCGCACGACGAGATCCTTCACCATGATATTATTCGCATAAGGGCTAGTCC	63	-
-	-	GTCGGGCTTTGCATGCCACAGTCGATGAGCGGCCATTTTCACATTCCGCATAAGGGCTAGTCC	63	-
-	-	GCCACACCCAGCCGACTTCTGCCTGCTGAGGAAGCGGTACCATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGGTAGCCAACGCTGCTCTTCAGCAATACGGCCATTCCGCCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCAAGAAGGCGATATACCGTAAAGCACGGGGAGCCGGGTCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	GAAGAACTCGTCAAATGTCCTGAGGTCATGGTCTATGGGGACATTCCGCATAAGGGCTAGTCC	63	-
-	-	TTTCCACGCGGCGAGAAGGCGATGCGCTGCGAGTCCCGCTCAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ATCGGGAACCTAAGGTTGGGCGTCGTTTTTCGAACCCACCATTCCGCATAAGGGCTAGTCC	63	-
-	-	ATCTCGTGATGGCACTGACACACATTCCTCGGAGGATCATGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	AACCTTTCATAGAAAAAACGATTCCGAAGCCAGCCGGCGTCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCGTGTTTCAGTTAATGAGATCCCCGCGACAGCTGAATCGAAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TTGTCTCCTTCCGGGGCGGCGGTTGCCGTTTATGGGTTCTTTATTCGCATAAGGGCTAGTCC	63	-
-	-	CCGCCTCCTCCAGCGCCTCCCCCTAGGGGCTTCCTTCCGGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGAAGAAAGGACTCTTTTATTCTGTCTTTCATAGCGCGGGCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCCAACACCGTGCGTTCTTTTTCAATATTGGCCCCAATGGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGGGACCGAACCCTCGACAGAGTGCCATGGGGTCTCGGTGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGCTGGGCCTTCACGAAACGCGGGCGTATTATTGACAAACGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGGCTGCGAGCCTAGCGTTTATGGGCTACCTGAAAAGCATTTATTCGCATAAGGGCTAGTCC	63	-
-	-	ATCAGGGAAAGGAACCGAACTTGGGGGGCTCCGCCCGACGTATTCCGCATAAGGGCTAGTCC	63	-
-	-	GTGGGGATTATTGTGTATATATGAGTAATGGCAGGGCCTGTCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TAAATCAATCTAAACTCATGAGCGGATACTCACGTTAAGGGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACCTAGATCCTTTTTTATCAAAAAGGATTGGATTTTGGTCATATTCCGCATAAGGGCTAGTCC	63	-
-	-	GAGATCTCAAGAAGCAGTGGAACGAAAACATATTTGAAGTTTATTCGCATAAGGGCTAGTCC	63	-
-	-	GCAGAAAAAAGGAAAATTAATAATTTTGGTGGATGAATGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TTTAGAATGACGCTATCCTTTGATCTTTGCAGCAGATTACGCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGGGGTCAAATAAACACCGCTGGTAGCTGTTTGCAAGCCAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ATCCGGCAAACAAACAAATAGGGGTTCCCTACACTAGAAGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	GTTACCTTCGAAATGCGCTCTGCTGAATCGACAGTATTTGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	TAGCAGAGCGAGGTTGGCCTAACTACGGGCGCACAGCTCTTGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GTAACAGGATTATCAAGAGTTGGCGACTAGACATATTTCCCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	GAAAAGTGAAGTGGATGTAGGCGGTGCTACCAGCAGCCACTGATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGTTCTTGCCACCTAGTCCAACCCGGTATATCGCCACTGGCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TAATATCGTCTTGACGCGCCCTGTAGTTCGGTGTAGGTAGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCCGTTTCAGCCCAGGCTGTGTGCACGAACCGTTTCGCTCCAAATTCCGCATAAGGGCTAGTCC	63	-
-	-	GCCCTTCTCCCTTTGTAGGTATCTCAGCGGCGCATATCCGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GATACCTGTCCGTGCCGCTGCGCCTCTCGTGCGCTTTAAGCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGGCGGGCTCACGCCGGGAAGCGTGGCGTCTGCCGCTTACCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CTCATAGTGTGGTGTGGAAGCTCCCTCCTGTTCCGACCCAGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCAGGCGTTTCCCCGTTACGCGCAGCGTGCTCCGCCCCCTTATTCGCATAAGGGCTAGTCC	63	-
-	-	AGGTGGCGAAACCCAATCGACGCTCAAGCTTGACGAGCATCAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CAAAGGCCAGCAAAGCGTTTTTCCATAGGACCGCTAAAGATAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACATGTGAGCAAAAGACAGGACTCACAGTTATCATACACTTGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCAGCGGTTGCTGAGGCCAGGAACCGTGGACGCAGGAAAGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGGCCGCCCTAGCGTGGCGGTAAATACGGAATCAGGGGATAGCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TAATAACTAATGCACCCGCTCCTTTCGCGGGCCATTTACCAAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TATGAACTAATGACGGAACCTCATATATAAGTAAGTTATGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACGGGAACATACGTGCGGTCAGCCAGGCTTCTTCTTACTATATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGGCGTTACTATGCCCCGTAATTACCCAACCTCCGACCTTCCTATTCCGCATAAGGGCTAGTCC	63	-
-	-	TTCTCGCTCGTTGGCATTATTGACGTCAATGAAAGTCCCTATATTCCGCATAAGGGCTAGTCC	63	-
-	-	GCGGGGGCACGTTACGTTTACCGTAAATTTGACGTCAATGAGATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACTGCCAAGTGGGCGCCGGCTTTCCTCGTGGGCATAATGCGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGGGCGTACTTGGCCGTCATTGACGTCAATCAGGCGGGCCATATTCCGCATAAGGGCTAGTCC	63	-
-	-	TTAGCGATGACTAAATAAGGTCATGTACTCAAGCTTTGATGTATTCCGCATAAGGGCTAGTCC	63	-
-	-	CACCATGGTAATACATATGATACCGCCCATCCAACCTAAATCATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGGGGCTAAGTCCCTACGTAGATGTACTACCAAAACCGCATATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGTAGGACCTTTATGAGTCAAACCGCTATTGATGTACTGAAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CTTGAAATCCCCGGGGTTCGATTTAGGAGTTGTTACGACAATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACAACTCCCATTGGTTGATTTTGGTGCGCCATTTTGGAAGATTCCGCATAAGGGCTAGTCC	63	-
-	-	TCTCTGCTTATATAGCGTCAATGGGGCGTGCTTTAGTGGAAGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CACTAAACCAGCCCACGTCAATGGTCCGTCTGAGGCGGCACCATTCCGCATAAGGGCTAGTCC	63	-
-	-	TCGACCCCCCATTTGACCTCCCACCGTAGGGATCTGACGGTTATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCTACCGCAAAAAAGCTTGAGCTCGAGAGTAGCGCTAGCGCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CTGCAGAATTCGAACTTGATTAGGGTGACACCACCCGGTCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	ACCGGTGGATCCCGTTGCTCACCATGGTCAGAACAGCTCCTCATTCCGCATAAGGGCTAGTCC	63	-
-	-	GCCGCCGACACGCTCGACCAGGATGGGTGGTTCACCGTCGAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGCCCTCGCCCTCCGGCCCGCGGCTTCAATGAATACGTAGTGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGCCATCGTCCAGCTGAAC TTGGCCGCACGTAGGTGGCATATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGTCGCCGCCCTGATGCCGGTGGTGACGGGTGTCAGCTTGCCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGGCACGGGCAGCTTAGACGGTTTTTCGGTCGTGCTGCTTTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CCGTAGGTGAGGGTCGGCTGAAGCACTGTTGATGTGGTCGGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GTCTTTGAAGAAGAGCGGACTTGAAGAACCCTTTGTGGGCCAATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGTTGCCGTCGTAGGGTCACGAGCTCGATCGCCGGACGTTGGATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGTCCACGGGCATGTGGTGCGCTCCTGGCCCCGGGTCTTGATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGCCTTCGTTCTTTGGTTACACAGGGTGACTTCACCTCGGCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CTTCAGCTCGATGCAATAGTGGACTCTTGATATAGACGTTGTATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGGATGTTGCCGTCTACTCCAGCTTGTGACGTGGCTGTTGTAATTCCGCATAAGGGCTAGTCC	63	-
-	-	GTCGATGTTGTGGCTGCTTGTGCGCCATGTTCCAACGATGCCATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGTGCCGTCCTTGCTCCTTGAAGTCTGGGGTGACTGGAAATTCCGCATAAGGGCTAGTCC	63	-
-	-	CAACACTGTTCTTCGGATCTTGAAGTTCCGCCGCGAGCTGCAATTCCGCATAAGGGCTAGTCC	63	-
-	-	TGATGCCCAACCTTGCCGTCGCCGATGGCTGGTAGTGGTTCAATTCGCATAAGGGCTAGTCC	63	-
-	-	GGGCAGCAGCACGGATCTCGGTCTATTCTCCAGCAGGACCTATTCCGCATAAGGGCTAGTCC	63	-
-	-	AGGGCGGACTGGGTTGTTGGGGTCTTTACCATGTGATCGCGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CTGGCCGCTTTACTGCGGCGGTACGAATTTTGATGGTTGTATTCCGCATAAGGGCTAGTCC	63	-
-	-	ATCTAGAGTCGCTCGCTCAGGTACCTCTTAAAGTTTATAAGATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGATTTTGATCCCGTGACAGCTCGTCCCATGGCTGATTATGATTCCGCATAAGGGCTAGTCC	63	-
-	-	CGAGAGTGCCGATTTTTTTTTAAAGCAAGACAAATGTGGTAACATTCCGCATAAGGGCTAGTCC	63	-
-	-	GGAGGTGTGGGAGTTCGGCCTATTGGTTTTTATTTGTAACGCATTCCGCATAAGGGCTAGTCC	63	-
-	-	AATTGCATTCATTTAAACAAGTTAACAATCATTATAAGCTGATTCCGCATAAGGGCTAGTCC	63	-

	Start	End	icosahedron monomer A core sequences	Length	Color
	5[35]	1[41]	CTTTATCGTAAAACTAGCATATTTCAACCGTTCTA	35	Red
	4[41]	1[35]	AGGGTGAGAAAGGCAAGAATTAGCAAAAATCGGTT	35	
	1[42]	3[55]	GCTGATAAAATTAATGACATAAAGCTAATTAAGCAATAAAGC	42	
	0[55]	4[42]	CGATGAACCGGTAATTCAGCAGCAAGGATAGGTAAGATTCAAA	42	Blue
	3[56]	5[69]	CTAATTGGGCTTGACTGAGTAATGTGTAAAAATTTTTAGAAC	42	
	2[69]	0[56]	GAACGAGTAGTACAGCCGAGAGGGTAGGCAAAACAGAGAAT	42	
	5[70]	1[83]	CCTCATATATTTGACCTGAGAGTCTGGACTATTTTTGAGAGA	42	Blue
	4[83]	2[70]	AATAAAATGCAATGCGGATGGTTTAATTTTCGACGAGAAACCCA	42	
	1[84]	3[97]	TCTACAAAGGCTACATAAAGGCTTGCCCTAACCTTTAATCATTG	42	
	0[97]	4[84]	GTATCAGGTCATTTGGGACAGATGAACGGCTGACCAACTTTGA	42	Red
	3[98]	5[111]	TGAATTACCTTATGATAAGGGAACCGAATGTACAGCCAGCG	42	
	2[111]	0[98]	TGCTCAATTCAGTGAAACGGAGATTTGTAAAGCGCGAAAACAA	42	
	5[112]	1[125]	GCATAGGCTGGCTGCCAGGATTATACCTCATCGCCTGTATAA	42	Red
	4[125]	2[112]	GCAGACGGTCAATCCGATTTTAAGAAGCTCAACGTAACAAAGC	42	
	1[126]	3[132]	ATTGTGTCGAAATCTTCATTACCCAAATGGCTCAT	35	
	0[132]	4[126]	TTGACCCACCTTCATCAAGAGAGCCGGAACGAGGC	35	Red
	11[35]	7[41]	AGATACACCTTATTAGCGTTTAAGGCCGGAACGT	35	
	10[41]	8[35]	GAATTAGAGCCAGCAAAAATCTACGTTAGGTAGAA	35	
	7[42]	9[55]	CACCAATGAAACCAACACATTATTACAATAAACGAACTAA	42	Red
	6[55]	10[42]	TTCCGTCATAGCCCTAACGCCAAAAGGACTTGAGCCATTTGG	42	
	9[56]	11[69]	CGTAAACAGTTTCAGATCACCCTCACCAGCAATTACGAGCCATAG	42	
	8[69]	6[56]	CCTCAAAATGCTTGATCGATAGCAGCACTTTTTCATCGGCATT	42	Blue
	11[70]	7[83]	TAAGAGCAACACTACAGACTGTAGCGCGGTAAATCAGTAGCGA	42	
	10[83]	8[70]	ATTAAGGTGAATTAAAACGAGAATGACATTCATTGAATCCC	42	
	7[84]	9[97]	CAGAATCAAGTTCAGAATCGTCATAAATCATAAATCAAAAAT	42	Red
	6[97]	10[84]	ACTGCCTTTAGCGTTTCATAACCCCTCGTTGACGGAAATTTATTC	42	
	9[98]	11[111]	CAGGTCCTTACCTGGAAGGTAATATTTACCAGACGACGAT	42	
	8[111]	6[98]	CGTCCAATACTGCGCGGAATAAGTTTATAGAAGACGCAAGAC	42	Red
	11[112]	7[125]	AAAAACCAAAATAGTGGCAACATATAAATTTGTGCACAACTAA	42	
	10[125]	8[112]	ACCGATTGAGGAGGACTATTATAGTCATTTAGACTGGATAG	42	
	7[126]	9[132]	TAGAAAAATTCATATGTAATAGTAAATGGAAGCAA	35	Red
	6[132]	10[126]	ATAAAGGCGAGAGGCTTTTGCAAGGGCGACATTCA	35	
	17[35]	13[41]	CTTTAATAGAGTCAATAGTGAGAAACAGTACATAA	35	
	16[41]	14[35]	ATTAATTACATTTAGAGGAAGCCGAAAAAAGCGA	35	Red
	13[42]	15[55]	ATCAATATATGTGATTAATTCGAGCTTCGACTTCAAAATATCG	42	
	12[55]	16[42]	TTAAGACGCTGAGATGCTCCTTTTGATAATCAAGAAAAACAAA	42	
	15[56]	17[69]	CGGTTTAGCTATATATGATGAAACAAACAGAGGTCATTTTTG	42	Blue
	14[69]	12[56]	GGTCAATAACCTTTTGTGAATAACCTTGACGCGATAGCTTAGA	42	
	17[70]	13[83]	CGGATGGCTTAGAGATCCTTGAAACATTTCTGTAAATCGTCT	42	
	16[83]	14[70]	CTGAGCAAAAGAAGTTTCATTTGGGCGCTACATTTTCGCAAAAT	42	Red
	13[84]	15[97]	GCTATTAATTAACGTTTGACCATTAGACGAGCTGAAAAGGT	42	
	12[97]	16[84]	TATTTTCCCTTAGACTTAATGTCTGAATTTCAATTCAATTAC	42	
	15[98]	17[111]	GGCATCAATTCTACGCAGAGGGCAATTAATAAGCTGTAGCT	42	Red
	14[111]	12[98]	AACGAGTAGATTTAGTCAGATGAATATATAGATTTTCAGGTT	42	
	17[112]	13[125]	CAACATGTTTTTAAAAATAAGAAATTTGCGCAGTAACAGTACCT	42	
	16[125]	14[112]	AGTTACAAAATCGCTAATAGTAGTAGCATTCCCAATTTCTGCG	42	Red
	13[126]	15[132]	TTTACATCGGGAGACATATAACAGTTTGATTAACT	35	
	12[132]	16[126]	AACAGAATATGCAACTAAAGTTGCTTTGAATACCA	35	
	23[35]	19[41]	GTCTCGTGGTTAGAACCTACCATTTTGTCGGGAACA	35	Red
	22[41]	20[35]	CTTTGCCCGAACGTAATCCCGTAAAAATAAAGTT	35	
	19[42]	21[55]	AAGAAACCAACAGATTAGTGATGAAGGGAAGCCGACAGGCG	42	
	18[55]	22[42]	TCTGAATAATGGAACGCTGCGAGCCTCCACTCGTATTAAATC	42	Blue
	21[56]	23[69]	GCGCCGGCGCGGTCAAACAATTCGACAGGCGAGAGCACATC	42	
	20[69]	18[56]	CGCACTCAATCCCTAGGAGCGGAATTATGTTTGGATTATACT	42	
	23[70]	19[83]	CTCATAACGGAACGATATAATCCTGATTCATCATATTCCTGT	42	Red
	22[83]	20[70]	AGTATTAGACTTTTATGCGGTATGAGCCGATTGACAGGCGTTT	42	
	19[84]	21[97]	TTATCAGATGATATGCATCAGCGGGTTCGGTCACTGTTGCC	42	
	18[97]	22[84]	ATGGCAATTCATCATGCGCGACTTGTAGTTTGAGGATTTAGA	42	Red
	21[98]	23[111]	TGCGGCTGGTAATGCAATAGATAATAACAACGTCAGCGTGGT	42	
	20[111]	18[98]	GCTGGAGGTGTCCTACTGGTCAGTTGGCACAACCCCTCAATCA	42	
	23[112]	19[125]	GCTGGTCTGGTCAGTGAACCTCAAATAATAACAACAGTTGAA	42	Red
	22[125]	20[112]	TAGATTAGAGCCGTGGTAAAGGTTTCTGCAACCAGCTTACG	42	
	19[126]	21[132]	AGGAATTGAGGAAGTGGTGCCATCCCACTGCTCGT	35	
	18[132]	22[126]	ACCTTGCCAGCAACCGCAAGAGCACTAACAACTAA	35	Red
	29[35]	25[41]	ATTATTTGCTGAGAGCCAGCTAGTCTTTAATGCG	35	
	28[41]	26[35]	AAGCGTAAGAATACTGCTGGTAATATCCAAAAACG	35	
	25[42]	27[55]	CGAACTGATAGCCCGCCATTGCAACAGGAGAACAATATTACC	42	Red
	24[55]	28[42]	CTGCAACAGTGCCCAACATTGGCAGATTCCTTCTGCACCTGA	42	
	27[56]	29[69]	GCAATTTAGGCGAGACAACAGAGATAGAAACCAAGTCACACGAC	42	
	26[69]	24[56]	ACGCCAACATGTCATAAAACATCGCCATAGTATTAACACCGC	42	Blue
	29[70]	25[83]	CAGTAATAAAAGTGGAGGTGAGCGGCTCAAAAAATACCGAAC	42	
	28[83]	26[70]	CGGGACATTTGCGCGCATTTTCGAGCCCGCCATATTTAAACA	42	
	25[84]	27[97]	GAACCACCAGCAATGCTTAATTGAGAATAGTAATAAGAGAAT	42	Red
	24[97]	28[84]	ATGAAGATAAAACATGATAAATAAGCGTTTGAAATACCGAC	42	
	27[98]	29[111]	ATAAAGTACCGACACCTAAATTTAATGGTTAAATAAGAATAA	42	
	26[111]	24[98]	CGCTCAACAGTAGGAACATATATGTAATGCTTAGGTTGGGTT	42	Red
	29[112]	25[125]	ACACCGGAATCATACTTTTTAACCTCCGGCTGATGCAAAATCC	42	
	28[125]	26[112]	ATTTTCATCTTCTGAAAAGGTAAAGTAATCAGTATAAAGCCAA	42	
	25[126]	27[132]	AATCGCAAGACAAAATACAAATCTTACTCTGTCC	35	Red
	24[132]	28[126]	AGACTACATTACTAGAAAAAGATATATTTTAGTTA	35	
	35[35]	31[41]	AACAGCTAACGAAAGAGGCAAAAGACAGCATCGGAA	35	
	34[41]	32[35]	GAGTTAAAGGCCGCAATAATTTTTTTCACGAGCCTT	35	Red
	31[42]	33[55]	CGAGGGTAGCAACGAAAGGCTCCAAAGGTTGAAATCTCCA	42	
	30[55]	34[42]	AGGCACCAACCTAATGATACCGATAGTTCTGAGGCTTGCAAG	42	
	47[35]	43[41]	AACCACCCCTATTATTCTGAACAGTAAGCGTCATA	35	Red
	46[41]	44[35]	CATTAAGGCCAGAATCACCGGAACGACACCCCTC	35	
	43[42]	45[55]	CATGGCTTTTGATGTCCCTCAGAGCCGCGCCACCACCGGAAC	42	
	42[55]	46[42]	TGCCTATTTTCGGAACCAAGAGCCGCGCAACAAATAAATCCT	42	Red
	59[35]	55[41]	CAATAATATCCTGAATCTTACGATATAGAAGGCTT	35	
	58[41]	56[35]	TTTCATCTGAGGAATCAGCTAATGTCAGAGAACAAG	35	
	55[42]	57[55]	ATCCGGTATTCTAAAATAGATAAGTCCTACGCGCTGTTTAT	42	Red
	54[55]	58[42]	CCAGCTACAATTTTCGGCTGTCTTTCCTCAAGCCGTTTAT	42	
	101[35]	97[41]	CACCGCGTTTTTTGGGGTCGGTTGAGTGTGTTG	35	
	100[41]	98[35]	ATCGGCAAAATCCCATGAATCGGCCAACCAAGGTTG	35	Red
	97[42]	99[55]	CAGTTTGGAACAAGTGCCTATTGGGCGCGCGCGGGGAGAGGC	42	
	96[55]	100[42]	ATCACCCAAATCAATGGCCCTGAGAGAGATGGTGGTTCGGAA	42	
	113[35]	109[41]	CGACGTTCCAGCAGTTGGGCGGCCATGTTTACCA	35	Red
	112[41]	110[35]	CGGGAACGGATAACGCGATCGGTGCGGGGGATGTG	35	
	109[42]	111[55]	GTCCCGGAATTTGTAGCTGGCGAAAGGGCCTCTTCGTATTA	42	
	108[55]	112[42]	CTGCTCATTTGCCGGTAAAACGACGGCCAGGTGGAGCCGCGA	42	Red
	39[98]	41[111]	AACTTTCAACAGTTCCCTCAGAACCGCCCTCATTTTCAGGG	42	
	38[111]	36[98]	CACAGACAGCCCTCCAGTACCAGGCGGAGATTAGCGGGTTT	42	
	41[112]	37[125]	ATAGCAAGCCCAATAAGAGAAGGATTAGTAAGTGCCTCGAG	42	Red
	40[125]	38[112]	GTTTAGTACCGCCATCAGCGGAGTGAGACGCTGTAGCATTC	42	
	37[126]	39[132]	AGGGTTGATATAAGAGTACAACTACAATAGAAA	35	
	36[132]	40[126]	ACTCCTCAGGAACCCATGTACACCGTACTCAGGAG	35	Red
	51[98]	53[111]	AGAATCGCATGATCGATTAGACGGGAGGTAATTGAGCGCT	42	
	50[111]	48[98]	CTTACCGAAGCCCTTTATCCCAATCCAAAATAAACAGCCATA	42	
	53[112]	49[125]	AATATCAGAGAGATTTTGCCAGTTACAATAAGAAACGATTT	42	Red
	52[125]	50[112]	TAAAAACAGGGAAGTAAGACTCCTTATTATAGCAATAGCTAT	42	
	49[126]	51[132]	TTTGTTTAACGTCAACAAGAAACAATGAAACGCAGT	35	
	48[132]	52[126]	AGCCTAAAACCCACAAGAATTGAGAGAGAATAACA	35	Red
	93[98]	95[111]	ACTTCTTTGATTAGCACACACCCGCGGGTTGCTTTGACGA	42	
	92[111]	90[98]	ACGGTACGCCAGAAAAGCCGCGAACGTTTTAGAGCTTGACG	42	
	95[112]	91[125]	GCACGTATAACGTGAAGGAGGCCCGGAGGAGAAAGGAAG	42	Red
	94[125]	92[112]	ACGCTGCGGTAACATAAATCACTTGATTTTAGACAGGA	42	
	91[126]	93[132]	GGAAGAAAGCGAAAAGGCCGATTAAGGGCTGAG	35	
	90[132]	94[126]	AACCTACTTTTCTCTGTTAGACAAGGTAGCGGTC	35	Red
	105[98]	107[111]	ATTGCGTTGCGCTCGGGCGTTTTACGCTGTTCTTCGCGTC	42	
	104[111]	102[98]	AAATTGTTATCCGCAGCCAGCGGTGCCGAGTCCCGGGTTAC	42	
	107[112]	103[125]	CGTGAGCCTCCTCATCGTTAACGGCATCGTGCCCTGCATC	42	Red
	106[125]	104[112]	GGCCAGAATGCGGCACCTGCCCGCTTTCCTGTTTCTGTGTG	42	
	103[126]	105[132]	AGACGATCCAGCGCAATCATGGTCATAGAGTCGGG	35	
	102[132]	106[126]	CAGCAAAACAGTTGAGGATCCCTCTGTGGTGCTGC	35	Red
	117[98]	119[111]	GGTGCCGGAACCAAAAAATAATTCGCGTTAAATGTGAGCGA	42	
	116[111]	114[98]	CGCATCGTAACCGTAAATATTTAAATTCAGGAAGATTGTAT	42	
	119[112]	115[125]	GTAACAACCCGTGAAAAGCCCCAAAAATAAACGTTAATATT	42	Red
	118[125]	116[112]	ATAGGAACGCCATCGGCAAGGCCATTTTGGGTAGATGGG	42	
	115[126]	117[132]	TTGTTAAAAATTGCTGGGATAGGTACCGGCCATT	35	
	114[132]	118[126]	TAATCAGGATTCCTCGTGGGATCATTTTTTAACCA	35	Red
	Start	End	icosahedron monomer A non-crossover vertex staple sequences	Length	Color
	8[34]	6[19]	AGATTTCATCAGTTGAGTTTTTTTTTTTACCATTAGCGCCATCTT	46	Red
	3[133]	0[133]	TATACCAGTCAGTTTTTTTTTTTGATACGCGATTTTTTTTAAACACTCATCT	52	
	32[34]	30[19]	TAATTGTATCGGTTATTTTTTTTTTTTAGCAGCGAAAAGAATACA	46	
	39[133]	36[133]	GGAACCACTAAATTTTTTTTTTTCACCTATAGTTTTTTTTTAAAGGGCTGAG	52	Red
	44[34]	42[19]	AGAACCGCCACCCCTATTTTTTTTTTTTACCGTTCACATGAAG	46	
	56[34]	54[19]	AAAAATAATATCCCATTTTTTTTTTTTAGCAAAATCACAAACGCTAA	46	
	27[133]	24[133]	AGACGACGCAATTTTTTTTTCGTTGAACGTTTTTTTTTCATAGGTCGAG	52	Red
	14[34]	12[19]	ACCAGACCGGAAGCAATTTTTTTTTTTTTTAATGATTTATCAAA	46	
	9[133]	6[133]	AGCGGATTCATTTTTTTTTTTAGGGGGTTTTTTTTTTTGAATAACATAC	52	
	51[133]	48[133]	ATGTTAGCAAACTTTTTTTTAAAGAGAAAATTTTTTTTTTCGCTCTTCCAG	52	Red
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Start	End	icosahedron monomer B core sequences	Length	Color
65[35]	61[41]	CAGGAGGAGGCTGAGACTCCTACAGGAGTGTACTG	35	Red
64[41]	62[35]	TGAATTTACCGTTCCCTCCCTCAGAGCCACCCTC	35	
61[42]	63[55]	GTAATAAGTTTTAAACCTCAGAGCCAGCCACCCTCAGAAC	42	
60[55]	64[42]	ATGAAAGTATTAAGTTGAGGCAGGTCAGGAAAGCGCAGTCTC	42	Blue
63[56]	65[69]	CGCCAGCTACAATTTTAAAGCCAGAATGACGATTGGCCTTGA	42	
62[69]	60[56]	GCTATTTTGCACCCCGGGGTCAGTGCCTTATTATTCTGAAAC	42	
65[70]	61[83]	TATTACAAAAACCCCTATTTCGGAACCTGAGTAACAGTGCC	42	Blue
64[83]	62[70]	AGAATAAATCCTCATTATCCTGAATCTTAATCAAGATTAGTT	42	
61[84]	63[97]	CGTATAAACAGTAAGTTTTGAGGCCTTAACCAACGCTAACGA	42	
60[97]	64[84]	ACTAATGCCCCCTGGTTTTTATTTTCATATCGAGAACAGCA	42	Green
63[98]	65[111]	GCGTCTTTCAGAGCAAGTACCGCACTCCGTAGGAATCATT	42	
62[111]	60[98]	CCGACTTCGGGGAGGAAAAATAATCCTAGATAAGTCCTGA	42	
65[112]	61[125]	CCGCGCCCAATAGCCTGTTTATCAACAACATCTTAATTTACG	42	Blue
64[125]	62[112]	AACGGGTATTAACCCCTAATTTGGCAGTTTTTAGCGAACCTC	42	
61[126]	63[132]	AGCATGTAGAAACCAAGAACCGGAGGCGGTACAAAA	35	
60[132]	64[126]	AACGCGCAAGCAAATCAGATACTTATCATTCCAAG	35	Blue
71[35]	67[41]	AGAATTACTCAAATATCAAACCCGAACGAACCACC	35	
70[41]	68[35]	TTAATGCGCGAACTATCCAATAAGAAAGCAGCCT	35	Red
67[42]	69[55]	AGCAGAAGATAAAACAAAATGAAATACGATTTTTGTGTTA	42	
66[55]	70[42]	TCACCTTGCTGAACACTGAACACCCTGAATGGCTATTAGTCT	42	
69[56]	71[69]	ACAATACCCAAAAGGACAATATTTTTGAACAAAGTCAGAGGG	42	Blue
68[69]	66[56]	CAATAATAACGGGTGAGAGGTGAGGCGGAAAAATCTAAAGCA	42	
71[70]	67[83]	TAATTGAGCGCTAAGCCAGCAGCAAATGTCAGTATTAACACC	42	
70[83]	68[70]	GAATACGTGGCACAACCTGGCATGATTAACACCGAGGAAACG	42	Green
67[84]	69[97]	GCCTGCAACAGTATAAGTTACCAGAAGGAGACTCCTTATTAC	42	
66[97]	70[84]	ACGCCACGCTGAGATATCAGAGAGATAAACCTGAAGCGTAA	42	
69[98]	71[111]	GCAGTATGTTAGCAATAGAACCTTCTGCCACAAGAATTGA	42	Red
68[111]	66[98]	CAGATAGCCGAACATTTGACGCTCAATCTCATGGAATACCT	42	
71[112]	67[125]	GTTAAGCCCAATAAAACAGGAAAAACGCGTCTGAATGGATT	42	
70[125]	68[112]	TCTGGCCAACAGAGAACGTAGAAAAATCTTAAAGAAAGTAAAG	42	Blue
67[126]	69[132]	ATTTACATTGGCAGTACCGAAGCCCTTTATACATA	35	
66[132]	70[126]	CCATTGCTAAGAGCAAGAAACAATAAAAGGGACAT	35	
77[35]	73[41]	GAGGGAGGGTGTGTTTCAGCAATCATTGCAAGCGCT	35	Blue
76[41]	74[35]	CCACGCAACCAGCTGCAAGACACCACGATTCTATA	35	
73[42]	75[55]	TTGCACTCAATCCACAATCAATAGAAAGAATAAGTTTATTT	42	
72[55]	76[42]	ACATCCCTTACACTGGAAGGTAATATTTTCGGTGGTGCCATC	42	Blue
75[56]	77[69]	TGAGCGCGTTTTTCACAACGTCAGCACCGGACGGGAAATTTATTC	42	
74[69]	72[56]	GCGTCAGACTGTTCCGCCGGGCGCGTTGTTTGCTCGTCATAA	42	
77[70]	73[83]	ATTAAGGTGAATTTGGGTAAGGTTTCCGGTATGAGCCGGG	42	Green
76[83]	74[70]	AACCGCAAGAATGCTCGGCATTTTCGGTCAAGTTTGCCTTTA	42	
73[84]	75[97]	TCACTGTTGCCGTAGTAGCGAGAATCATAGCCCCCTTAT	42	
72[97]	76[84]	CCTGCGGCTGGTAAATCACCGTCACCGAGTCTGGTCAGCAGC	42	Red
75[98]	77[111]	TAGCGTTTGCCATCTCAGCGTGGTGCTGCTTGAGCCATTTGG	42	
74[111]	72[98]	GCAGCACGTAATCTCCGCAACGCGGAACGATGCTGATTG	42	
77[112]	73[125]	GAATTAGAGCCAGCGAAGGGTAAAGTTATCCGTTTTTTCGTC	42	Red
76[125]	74[112]	GGACTTGTAGAACGTTTTCTAATAACAAATGAACCATCGATA	42	
73[126]	75[132]	TCGTGCGTGGCAGCGAAACGTCACCAATCACCG	35	
72[132]	76[126]	TAGTGATAAAATCACAGTAGTAACGGAACGTGCC	35	Red
83[35]	79[41]	GTCAATCTAAAAAATCCCGTGAGATAGACTTTCT	35	
82[41]	80[35]	GGCGAAACGTACAGGAAACAAAGTACAATCGAAAT	35	
79[42]	81[55]	CCGTGGTGAAGGGACCTGATAAATTGTGCGGAGATTTGTATC	42	Red
78[55]	82[42]	TGTGTACATCGACAATAAGGGAACCGAACCCGGAAACAATC	42	
81[56]	83[69]	ATGAGATGGTTAAGGAACGGATAACCTCTGACCAACTTTGA	42	
80[69]	78[56]	TAAATTGGGCTTCGTAGCTCTCAGGAAAGCAGTTGGGCGGT	42	Blue
83[70]	79[83]	AAGAGGACAGATGAGCTCATTTGCCGCCAAGAGACGAGAGAA	42	
82[83]	80[70]	GTGGAGCGCCACGTTTCAACTTTAATCACCAGAACGAGTAG	42	
79[84]	81[97]	ACAGCGGATCAAGTCCCTGACGAGAAACATTGTGAATTACCT	42	Green
78[97]	82[84]	ATACTTAAATTTTACGGTGTACAGACCGGTAAATTCAGAG	42	
81[98]	83[111]	TATGCGATTTTAAGCTTGACATATCCGAGGCGCATAGGCTG	42	
80[111]	78[98]	GTGAATAAGGCTTGGCTGCAAGGCGATTCTGGCGAAAGGGGG	42	Red
83[112]	79[125]	GCTGACCTTCATCACGCTATTACGCCAGAAGTTGGGTAACGC	42	
82[125]	80[112]	ACTTCATGCTTCGGAACCTGGCTCATTATAAGCTGCTCATTCA	42	
79[126]	81[132]	CAGGGTTTTCCAGAAATCAACGTAACAACCAAGTC	35	Blue
78[132]	82[126]	GCCTCTTAGAGTAATCTTGACCCAGTGCCAAGCTT	35	
89[35]	85[41]	GTCTGGCTCAGGCTGCGCAACGTAACCGTGCACTCT	35	
88[41]	86[35]	TTGACCGTAATGGGAAATTGTAACGTTTTAAATC	35	Red
85[42]	87[55]	GCCAGTTTGAGGGGGCATTAAATTTTTGAATATTTTGTTAAA	42	
84[55]	88[42]	GCGCAATTCGCCATCTTCTGTAGCCAGGAACAAACGGCGGA	42	
87[56]	89[69]	ATACTCACATTAATCGGATTCTCCGTGGCTTTCATCAACATT	42	Blue
86[69]	84[56]	ATGAGTGAGCTATCACGACGACAGTATCGGAAACAGGCAAA	42	
89[70]	85[83]	AAATGTGAGCGACGCCGCTTCTGGTGCCGGCCTCAGGAAGAT	42	
88[83]	86[70]	TCGTAACAACCCGTTGCGTTGCGCTCAGCGCTGGGTTGCCCTA	42	Green
85[84]	87[97]	CGCACTCCAGCCAGGCATAAAGTGTAATGCCGCTTTCAG	42	
84[97]	88[84]	TCAGCTTTCGGCATGAGCCTCCTCACAGCCTGTTCTTCGCG	42	
87[98]	89[111]	TCGGGAAACCTGTCTGCCAGCACGCGTGTGAGGATCCCCG	42	Red
86[111]	84[98]	CATACGAGCCGGAACGATCCAGCGCAGCGGTGCCCTCGCA	42	
89[112]	85[125]	GGTACCAGAGCTCGAGCAGCCAGCGGTGCTGTCACTGCGCGCC	42	
88[125]	86[112]	CATACCGGGGGTTTGTGCCAGCTGCATTACAATTCACACAA	42	Red
85[126]	87[132]	TGTGCACTCTGTGGATTGTTATCCGCTCAATGAAT	35	
84[132]	88[126]	GTTACCTATTGTAATCATGGGCGTTTTTTCACGGT	35	
155[35]	151[41]	GTTTGAAACAGACGACGACAATACAGTAGGGCTTAA	35	Blue
154[41]	152[35]	CATATGCGTTATACGTAATGCTGATGCACTTTTT	35	
151[42]	153[55]	TTGAGAATCGCCATAAGAACGCGAGAAAAATCCAATCGCAA	42	
150[55]	154[42]	AAAGTAATTCTGTCATACCGACCGTGTGAGCCTGTTTAGTAT	42	Red
41[35]	37[41]	ATTTGAGGCAGTAAACAGAGAGCGGAATTATCA	35	
40[41]	38[35]	TTGAGTAACATTATTTGGCAATCAACAATCTTTA	35	
37[42]	39[55]	TCATATTCCTGATTAGGTTATCTAAATGTTGAAAGGAATTG	42	Red
36[55]	40[42]	TATCAAAATTATTTGATTTAGAAGTATTTAATTTTAAAAAGT	42	
119[35]	115[41]	GCGGCTCTAAATCGGAACCTTCCACTATTAAAGA	35	
118[41]	116[35]	TAGCCCTCAGATAGGTTTTCGATTATGGGCGGGCAAC	35	Blue
115[42]	117[55]	ACGTGGACTCCAACCTCACCAGTGAGACGCCAGGGTGGTTTT	42	
114[55]	118[42]	GTGCCGTAAAGCACACGCTGGTTTGCCATAAATCAAAGAA	42	
107[35]	103[41]	TTTTGCGTCCAATAAATCATATAGATTTAGTTTGA	35	Blue
106[41]	104[35]	AGTTTCATTCCATATTTTAATTCGAGCTCAGGTCA	35	
103[42]	105[55]	CCATTAGATACATTGAAGCAAACCTCCAATCAAAGCGAACCAG	42	
102[55]	106[42]	TAGTAGCATTAAACAGATGGCTTAGAGCTGTACGGTGTCTGGA	42	Red
173[35]	169[41]	ATGACAAACTCATCTTACCTACAGAGGCTTTGA	35	
172[41]	170[35]	CCCTCAGCAGCGAAAAAAGGCTCCAAAGCTTTCG	35	
169[42]	171[55]	GGACTAAAGACTTTTCGGTTTATCAGCTTAGGAGCCTTAATT	42	Red
168[55]	172[42]	GAATACACTAAACCAACCATCGCCACTTGCGGGATCGTCA	42	
159[98]	161[111]	CATAGGTCTGAGAGGAGCAAAAGAAGATTACATTTAACAATT	42	
158[111]	156[98]	TCGCTATTAATTAATACATCGGAGAAAATACAGTAACAGTAC	42	Red
161[112]	157[125]	TCATTTGAATTACCACGTGAGTGAATACAATAACGGATTCTG	42	
160[125]	158[112]	CATTTCAATTACCTACTACCTTTTTAACGCTTCTGTAATCTG	42	
157[126]	159[132]	CCTGATTGCTTTGAGAGTGAATAACCTTCTCCGGC	35	Blue
156[132]	160[126]	AGGTTTATTTTTTAATGAAAAGAGGCGAATTAT	35	
33[98]	35[111]	CTGAGTTAGAAGAACACAGGGCGCTACTTTCTCGTTAGAAT	42	
32[111]	30[98]	TATAATCAGTGAGGAAGAAAGCGAAAGGGTGGCGAGAAAGGA	42	Red
35[112]	31[125]	CAGAGCGGGAGCTAGAAAGCCGGCAACAGCGGGCGCTAGGG	42	
34[125]	32[112]	CTTAATGCGCGCTTCAAACATATCGGCCCTGAGAAGTGTTTT	42	
31[126]	33[132]	CGCTGGCAAGTGTAGGTACGCCAGAATCTTGCTGG	35	Blue
30[132]	34[126]	TGACGGGAACAGGAGGCCGATCCACACCCGCCCGG	35	
111[98]	113[111]	TACCCCGGTTGATATAAATGCAATGCCTAGAAAGGCCGGAGA	42	
110[111]	108[98]	GATCTACAAAGGCTTGACCAAAAACATGCATAAGCCTAAAT	42	Red
113[112]	109[125]	CAGTCAAATCACCAAATAAAGCTCAGATGAAAGCTGTAAT	42	
112[125]	110[112]	ACCCTCATATATTTATCAGAAAAGCCCAAGCTATTTTGTAGA	42	
109[126]	111[132]	ACTTTTGCGGGAGAATGCCGGAGAGGGTAAAAACA	35	Blue
108[132]	112[126]	ATTAAGCTCAATATGATATTTCAAAAATTTTTAGA	35	
165[98]	167[111]	AGCAAGCGGATTGTATCATAACCTCGAGAGGCTTTTGCAA	42	
164[111]	162[98]	TCATTGAATCCCCAAGATTTCATCAGTTAACATTATTACAGG	42	Red
167[112]	163[125]	AAGAAGTTTTGCCACGAACTAACGGAACGAGATTTAGGAATA	42	
166[125]	164[112]	AGTAAGAGCAACACCATCAAAAAGATTAAATCGTCATAAATAT	42	
163[126]	165[132]	CCACATTTCACTAATCCAATACTGCGGAAGAGGAA	35	Blue
162[132]	166[126]	AATAAAGAGGGGGTAATAGTGAATTACGAGGCAT	35	
177[98]	179[111]	AGAAAGGAACAACCTCCCTCAGAGCCACCGAACCCATGTACCG	42	
176[111]	174[98]	TCTAAAGTTTTTGCGGTTGATATAAGTAGATAAGTGCCGTCG	42	Red
179[112]	175[125]	TAACTAGTGTTCCTCAGTACCAGGCGTAGCCCGGAATAGG	42	
178[125]	176[112]	CCTCAGAACCGCCAAAAGGAATTGCGAAAGTTAGCGTAACGA	42	
175[126]	177[132]	TGTATCACCGTACTCAGACAGCCCTCATTAATAAT	35	Blue
174[132]	178[126]	GGTTTTGGTCACCAGTACAAACTCAGAACCGCCAC	35	
Start	End	icosahedron monomer B non-crossover vertex staple sequences	Length	Color
68[34]	66[19]	TTACAGAGAGAATAACTTTTTTTTTTAAAAAATACCTCAATCA	46	Red
63[133]	60[133]	TAAACAGCCATATTTTTTTTTTATTCTAATCATTTTTTTTCAGCTAATGCAG	52	
152[34]	150[19]	CAAATATATTTTAGTTTTTTTTTTTTTCAACGCTCAAAACAACAT	46	
159[133]	156[133]	TTAGGTTGGGTTTTTTTTTTTTTATGTATACCTTTTTTTTTTCGTTAGATTTTC	52	Blue
38[34]	36[19]	GGAGCACTAAACAATAATTTTTTTTTTTTCCACAGAAGAATAAGAA	46	
116[34]	114[19]	AGCTGATTGCCCTTCATTTTTTTTTTTTGAACAAGAGAAAGGGAGC	46	Red
87[133]	84[133]	CGGCCAACGCGCTTTTTTTTGTGAATGCTGTTTTTTTTTATCAGATGCCGG	52	
74[34]	72[19]	TGGTTTACCAGCGCCATTTTTTTTTTTTTCAGCGGGGATCGTTAAC	46	
69[133]	66[133]	AAGGTGGCAACATTTTTTTTTTATCTATTCTATTTTTTTTATTACCGCCAG	52	Blue
33[133]	30[133]	TAATATCCAGAATTTTTTTTTTGGAACGCGGTTTTTTTTTGAATTTAGAGCT	52	
170[34]	168[19]	AGGTGAATTTCTTAAATTTTTTTTTTTTAGCAACGGCCCCAGCGAT	46	
177[133]	174[133]	TTTTTTCAGTTGTTTTTTTTTTTCCACAGGATTTTTTTTTTAGGATTAGCGG	52	Red
62[34]	60[19]	AGAGCGCCACCAGAATTTTTTTTTTTTTTTTGATGATCAAGAGAAG	46	
75[133]	72[133]	GAACCAGAGCCATTTTTTTTTTAGGCGCTCGGTTTTTTTTTACAGGCGGCTT	52	
80[34]	78[19]	CCGCGACCTGCTCCATTTTTTTTTTTAATTTGTGAAAAAAAAGC	46	Blue
86[34]	84[19]	AGCTCATTTTTTAACTTTTTTTTTTTTGGGCGCATCTGTTGGGAA	46	
111[133]	108[133]	GGAAGATTGTATTTTTTTTTTAAATTAAGCCTTTTTTTTTTAGAATTAGCAAA	52	
104[34]	102[19]	GGAAGTAGAGGTACCTTTTTTTTTTTTTTTCGGAACGAGCAGGCAAGG	46	Red

Start	End	icosahedron monomer C core sequences	Length	Color	
125[35]	121[41]	AAACAATAGATTTTCAGGTTTCAGATGATGGCAAT	35	Red	
124[41]	122[35]	GAAACCACCAGAAGGAAGTTATCTAAAGAGCCG	35		
121[42]	123[55]	TCATCAATATAATCACAATAATAGATTATATCTTTAGGAGC	42		
120[55]	124[42]	TAAAGAAATTGCGTTCCGACAACTCGTATTTTTTCGGGAACAAA	42		
123[56]	125[69]	ACGTGCCGTAAGACGAGTAACATTATCATAAATCCTTTGCC	42		Blue
122[69]	120[56]	TTTGGGGTCGAGTACTGATTGTTTGGATACGTA AAAACAGAAA	42		
125[70]	121[83]	GAACGTTATTA AATTC A A A A T T A T T T T G C T A T A C T T C T G A A T A	42		Blue
124[83]	122[70]	AATTTTAAAGTTTACTAAATCGGAACCCCAAATCAAGTTT	42		
121[84]	123[97]	ATGGAAGGGTTAAATACGTGAACCATCACTAAAGGGAGGCC	42		Green
120[97]	124[84]	GCGAACCTACCATACAAAAGATAGCCCGCAAAATCCCTTAT	42		
123[98]	125[111]	CGATTTAGAGCTTGTGGTTCGAAATCGGAGATAGGTTGAG	42	Red	
122[111]	120[98]	GGCGCAGGCCACCAGCGATTGTCCTCCACCAGTGAGACGG	42		
125[112]	121[125]	TGTTGTTCCAGTTTGTGGTTTTTCTTTTTCCACGCCCTGGCCC	42	Blue	
124[125]	122[112]	ATCCTGTTTGATGGACGGGGAAGCCGAAAACCGTCTATCA	42		
121[126]	123[132]	TGAGAGAGTTGCAGACGTCAAAGGGCGACGAACGT	35	Red	
120[132]	124[126]	CGCCAGGGGAACAAGAGTCCACCCAGCAGGCGAAA	35		
131[35]	127[41]	TATGGTTTTACGCCAGCTGGCGAAGATCGCACTCC	35	Red	
130[41]	128[35]	GTGCATCTGCCAGTGAAGGAGCGGGCGCGCGTAA	35		
127[42]	129[55]	AGCCAGCTTTCGGTAGCGGTACGCTGCTAGGGCGCTGGCA	42	Red	
126[55]	130[42]	GGGCTCTTCGCTAGCTTTGACGAGCACGGCGCATCGTAACC	42		
129[56]	131[69]	AGCATCAATTGCCCTCGTTGGTGTAGTATGATACGTGCTTT	42	Blue	
128[69]	126[56]	GATTAGTAATAATGCACCGCTTCTGGTGAGGGCGATCGTGC	42		
131[70]	127[83]	CCTCGTTAGAATCACGCAACTGTTGGGACCGGAAAACGAGCA	42	Blue	
130[83]	128[70]	AATGGGATAGGTAGAGTAGAAGAACTCAGCAATACTTCTTT	42		
127[84]	129[97]	AAGCGCCATTCGATAAATTAACCGTTGTAACATATCGGCCTT	42	Green	
126[97]	130[84]	CACCATTCAGGCTGGAGCGGGAGCTAAAGCGGGAATTGACCGT	42		
129[98]	131[111]	GCTGGTAATATCCACCGTGGGAACAAACCAGGAGGCCGATTA	42	Red	
128[111]	126[98]	TCTGTCCATCAGCGAGAACGCCATCAAGCTCATTTTTTAAC	42		
131[112]	127[125]	AAGGGATTTTAGACTTTTTTGTAAATCAAAAATCTCCGCTC	42	Red	
130[125]	128[112]	ACCCGTCGGATTCTGAACAATATTACCGACGAGTAAAGGAG	42		
127[126]	129[132]	TGGCCTTCTGTAGTAATCAGTGAGGCCCAAGCCA	35	Red	
126[132]	130[126]	CATTA AAAAGGAACGGTACGCCGTGAGCGAGTAACA	35		
137[35]	133[41]	AACAGAGTCTACGTTAATAAAAACCCAGAACGAGT	35	Red	
136[41]	134[35]	AACAAAGCTGCTCAAAATACCTACATTTATTGGCA	35		
133[42]	135[55]	AGTAAATTGGGCTTAATGGATTATTTACTGACGCTCAATCGT	42	Red	
132[55]	136[42]	GTTGGGAAGAAAAATAGAACCTTCTGACCCAAATCAACGT	42		
135[56]	137[69]	CTCAAAATGAAAAATACCGGATATTCATTACCTGAAAGCGTAA	42	Blue	
132[56]	133[83]	GAGAGCCAGCAGGAGAGATGGTTTAATTATACCGATCGAGAC	42		
137[70]	133[83]	GAATACGTGGCACAAGAACTGGCTCATTTCAACTTTAATCAT	42	Blue	
136[83]	134[70]	TAATCTTGACAAGACTAAAGCATCACCTAACAGTGCCACGCT	42		
133[84]	135[97]	TGTGAATTACCTTTTTAACACCGCTGCTGCTGAACCTCAAA	42	Green	
132[97]	136[84]	TGTATGCGATTTTAGACAATATTTTGAACCTTCATCAAGAG	42		
135[98]	137[111]	TATCAAAACCTCAAGCATAGGCTGGCTGATGGCTATTAGTCT	42	Red	
134[111]	132[98]	TGAGGCGGTGAGTAACTTAGCCGGAACGCGGACCTGCTCCA	42		
137[112]	133[125]	TTAATGCGCGAATATTGTGTGAAATCAGGCGCAGACGGTC	42	Red	
136[125]	134[112]	TGTACAGACCAGGCTCAATATCTGGTCAAGATAAAACAGAGG	42		
133[126]	135[132]	AATCATAAGGGAACGAACACACGAGAGTTGGCA	35	Red	
132[132]	136[126]	CTGATAAGATAGCCCTAAAACGGACAGATGAACGG	35		
143[35]	139[41]	ATTAACAGCGCGAAACAAGCATGAGGAAGTTTC	35	Red	
142[41]	140[35]	AGGGTAGCAACCGCAGTCTGAACAAGATAGAAAC	35		
139[42]	141[55]	CATTAAACGGGTAAAAATTTACGAGCATGAAAATAATATCCCA	42	Red	
138[55]	142[42]	CAGCGATTATACCACAAGTACCGCACTCACAGCATCGGAACG	42		
141[56]	143[69]	TCTTTTATCTGAACTCAGCAGCGAAAGATCGAGAACAGCA	42	Blue	
140[69]	138[56]	ACCCAGCTACAATTAATACGTAATGCCATCATCTTTGACCCC	42		
143[70]	139[83]	AGCCGTTTTTAACTTATACACTAAAACACCTACGAAAGCACCA	42	Blue	
142[83]	140[70]	GCGGGATCGTCACCTCTTACCAACGCTAAGTTGCTATTTTGC	42		
139[84]	141[97]	ACCTAAAACGAATCCTTAAATCAAGATTACGAGCGCTTTTCC	42	Green	
138[97]	142[84]	TTAGAGGCAAAAGATCATCGTAGGAATCTAAGGCGCGTTTT	42		
141[98]	143[111]	AGAGCCTAATTTGCGGCTTGAGGGAGTATTACCGCGCCCAA	42	Red	
140[111]	138[98]	GGAGGTTTTGAAGCGAGGTGAATTTCTTGTTTATCAGCTTGC	42		
143[112]	139[125]	TAGCAAGCAAATCACTTTAATTGTATCGAAACAGCTTGATAC	42	Red	
142[125]	140[112]	TATTCGGTCGCTGACAGTTACAAAATAACCTCCCGACTTGGC	42		
139[126]	141[132]	CGATAGTTGCGCGGGCGTTTTAGCGAAACAGCCA	35	Red	
138[132]	142[126]	AAGGAGCGATATAGAAGGCTTACGCATAACCGATA	35		
149[35]	145[41]	CACCTCTTTTTTTCAGTTGAGTTTTGTCGCTTTT	35	Red	
148[41]	146[35]	TAGCATTCACAGATAAGTATAGCCCGGTACCGCC	35		
145[42]	147[55]	CCAGACGTTAGTAACTCAGGAGTTTAGAATAGGTGTATCAC	42	Red	
144[55]	148[42]	ATTGCGAATAATAAATTTTCAGGGATAGAACTACAACGCCTG	42		
147[56]	149[69]	CGTATAGTCAGAAAGTCGTACCAGTACACAAGCCCAATAGGA	42	Blue	
146[69]	144[56]	TACCCTGACTATTAATGAATTTTCTGTAGAACAATAAAGGA	42		
149[70]	145[83]	ACCCATGTACCGAAGTGAGAATAGAAAGTGGGATTTTGCTAA	42	Green	
148[83]	146[70]	AATAACACTGAGTTCAAAGCGGATTGCAAAAAATCAGGTCTT	42		
145[84]	147[97]	ACAACTTTCAACCCAATTGACCATAAATCTCAAAAAGATTAAAG	42	Green	
144[97]	148[84]	TAAGTTTCAGCGGAGAAGTTTTGCCAGACGAGAGGCTTTTGC	42		
147[98]	149[111]	AGGAAGCCCGAAAGAAAAAACAAAATAGGGGGTAAATAGTAA	42	Red	
146[111]	144[98]	GTTCAGAAAACGAGACATTCAACTAATGTTGAGATTTAGGAA	42		
149[112]	145[125]	AATGTTTAGACTGGGAAAGATTCATCAGCAGATACATAACGC	42	Red	
148[125]	146[112]	TACCAGACGACGATACTTCAAATATCGCAAATGCTTTAAACA	42		
145[126]	147[132]	CAAAAGGAATTACGATTGAATCCCCCTCGTTTTAA	35	Red	
144[132]	148[126]	ACAGGTAAATAGCTCCAATACTCATAACCTCTGTT	35		
53[35]	49[41]	TGCCTGTTCCGCCAACGCGCGAGCCGGAAGCATAA	35	Red	
52[41]	50[35]	CCTGTGTGAAATTGGCGCAGTGTCACTGAATGCGGG	35		
49[42]	51[55]	AGTGTAAGCCTGGGGTGCTGCGGCCAGCGCGCTGTGCACT	42	Red	
48[55]	52[42]	GCTGCATTAATGAATCTTCGCTCCGTGGGTATAGCTGTTT	42		
161[35]	157[41]	GGCGTAAGCGGCCTTTAGTGAGCTCTCACGGAAAA	35	Red	
160[41]	158[35]	CCCGGAATTTGTGAGCGATTAAGTTGGGAAAACGA	35		
157[42]	159[55]	AGAGACGCAGAAACAGTCACGACGTTGTTAACGCCAGGGTTT	42	Red	
156[55]	160[42]	AAAAAGCCGCACAGATTAGAGGTGGAGCCATGTTTACCAGT	42		
179[35]	175[41]	AATATAATTTAGCAAAATTAAGGCAAATGGTCAATA	35	Red	
178[41]	176[35]	ATTCTGCGAACAGCGGGAAGCAAACTCCCTCCTTT	35		
175[42]	177[55]	ACCTGTTTAGCTATAGTACCTTTAATTGAACAGGTACAGGATT	42	Red	
174[55]	178[42]	GGCAAGGCAAGAATGCTGTAGCTCAACACAGTTGATTCCCA	42		
167[35]	163[41]	TATTCATGGAACAGAGCCACCGTAATCAGTAGC	35	Red	
166[41]	164[35]	TAGCAAGGCCGGAATCACAATCAATAGAAAGGGCG	35		
163[42]	165[55]	GACAGAATCAAGTTAGCGCCAAGACAAAAATTCATATGGTT	42	Red	
162[55]	166[42]	TAATCAAAATCACCTAAAGGTGAATTATAGCACCATTACCAT	42		
95[35]	91[41]	CGGTTAATAATGCAGAACGCGTTAACACGCCCAAC	35	Red	
94[41]	92[35]	AAAGCCAACGCTCACAAGAACGCGAGATCTTCTG	35		
91[42]	93[55]	ATGTAATTTAGGCATTTAGTTAATTTCAAAACTTTTTCAAAT	42	Red	
90[55]	94[42]	ACAACATGTTCAGCATAAGAATAAACACATTTTACCAGTAT	42		
45[98]	47[111]	ATCAGATGCCGGTCCGCAAGAATGCCAAACAGCTTACGGC	42	Red	
44[111]	42[98]	GGTCACTGTTGCCCGTCGCTGGCAGCTGGTCCGTTTTTTCG	42		
47[112]	43[125]	TGGAGGTGTCCAGCGTTCCGGCAACGCCGGCCAGAGCAC	42	Red	
46[125]	44[112]	CTGGTCAGCAGCAATACCTGCAGCCAGCTGCGGTATGAGCCG	42		
43[126]	45[132]	TCCTCATAACGGAAACCGCCGGGCGCGGTGGTGCCG	35	Red	
42[132]	46[126]	GATTGCCATCAGCGGGGTATAGCGTGGTGCTGTT	35		
153[98]	155[111]	AAACAGGAAGATTGAAGATTCAAAAGGGAATTATGATATTCAA	42	Red	
152[111]	150[98]	AGAGTCTGGAGCAATTTTGCGGGAGAAGATTATGACCTGTGA	42		
155[112]	151[125]	CCGTCTAGCTGATGTTGTACCAAAAACCTTTATTTCAACG	42	Red	
154[125]	152[112]	GTAATGTGTAGGTATATAAGCAAAATTCAGGTCAATTGCCCTG	42		
151[126]	153[132]	CAAGGATAAAAATTTCTACAAGGCTATTA A A A T T G	35	Red	
150[132]	154[126]	TAAATCGAAATTAATGCCGGAAATGCAATGCCTGA	35		
171[98]	173[111]	TAGGATTAGCGGGGAATAATCCTCATTTACCGTTCAGTAA	42	Red	
170[111]	168[98]	CCCGTATAAACAGTCAGAGCCGCCACACCTCAGAGCCACCA	42		
173[112]	169[125]	GCGTCATACATGGCCTCAGAAGCCGCACGAAACCACCAAG	42	Red	
172[125]	170[112]	GATATTCACAAACATTTTGTCTCAGTACCTTTGAGTAACAGTG	42		
169[126]	171[132]	GCCGCGCCAGCATAACGGGGTCAGTGCAGGCGGA	35	Red	
168[132]	172[126]	CGCCACCTTTTGATGATACAGAGACGATTGGCCTT	35		
99[98]	101[111]	ACATAAAGTGGCAAAATATCAGAGAGATAGAGCAAGAAACAA	42	Red	
98[111]	96[98]	ACCGAGGAAACGCAATTTACAGAGAGAATAAAATGAAATAGC	42		
101[112]	97[125]	TGAAATAGCAATAGTTTGTTTAACGTCAAACATAAAAACAGG	42	Red	
100[125]	98[112]	GGTAATTGAGCGCTACATATAAAGAAAGTTACCAGAAGGAA	42		
97[126]	99[132]	GAAGCGCATTAGACGATAGCCGAACAAACGCAAG	35	Red	
96[132]	100[126]	ACGATTTCTATCTTACCAGGAACAAAGTCAGAG	35		
57[98]	59[111]	CCGGCTTAGGTTGGAGAAAACAAAATTTATTTAATGGAAACA	42	Red	
56[111]	54[98]	TTGAAAACATAGCGTGATTGCTTTGAATAACAATAACGGATT	42		
59[112]	55[125]	GTACATAAATCAATTTTACATCGGAGAACCAAGTTACAAAA	42	Red	
58[125]	56[112]	TGAAACAAACATCAGTTATATAACTATATTCCTCTAGAATCC	42		
55[126]	57[132]	TCGGCAGAGGCGAGCTATTAATTAATTTGTAAT	35	Red	
54[132]	58[126]	AGTACCTATATGTGAGTGAATGCAAAAGAAGATGA	35		
Start	End	icosahedron monomer C non-crossover vertex staple sequences	Length	Color	
128[34]	126[19]	CCACACAGACC CGCCTTTTTTTTTTTTTCGGCCTCAGGAAGGGGG	46	Red	
123[133]	120[133]	GGCGAGAAAGGATTTTTTTTTTCTCCACAAGCTTTTTTTTTTTCGCTATTGGG	52		
50[34]	48[19]	CGGGCGTTTTACGTTTTTTTTTTTTTCAACATACGGGGAGAGGC	46	Red	
45[133]	42[133]	GTGCCCCCTGCATTTTTTTTTTCAATCGTGCTTTTTTTTTTAAACGATGCT	52		
158[34]	156[19]	CGGCGAGTGCCCAAGCTTTTTTTTTTTTGAAGGGATAGGAAGGGTA	46	Red	
176[34]	174[19]	TGATAAGAGGTCATTTTTTTTTTTTTTATACATTTCCAATAAAGC	46		
147[133]	144[133]	TTGAGCTTCAATTTTTTTTTTATTACGTCATTTTTTTTAACAACATTATT	52	Red	
134[94]	132[19]	GATTCACCGAGTCACACTTTTTTTTTTTGACGAGAAACGAATTA	46		
129[133]	126[133]	TTGCAACAGGAATTTTTTTTTTTTACCAGTTATTTTTTTTAGTAAATTCG	52	Red	
153[133]	150[133]	TAAACGTTAATTTTTTTTTTTAGAGATTAGTTTTTTTTTTAGAGCAATAAGC	52		
92[34]	90[19]	ACCTAAATTTAATGGTTTTTTTTTTTTTCGCCATATCTCTGTTTAT	46	Red	
57[133]	54[133]	GCTGATGCAATTTTTTTTTTTCGTCATTATTTTTTTTTATATACAGTAAC	52		
122[34]	120[19]	TCATAAGATAATACATTTTTTTTTTTTCTGATTATAACGTCAGA	46	Red	
135[133]	132[133]	AATCAACAGTTGTTTTTTTTTTCGAACCGAACTTTTTTTTTTTGTATCATCGC	52		
140[34]	138[19]	CAATCAATAATCGGCTTTTTTTTTTTTAGACTTTTTTACAACGGA	46	Red	
146[34]	144[19]	ACCCTCAGAACCGCCATTTTTTTTTTTCGATCTAAAAATCTCCCTCAGAGC	46		
171[133]	168[19]	TAAGTCAACGCTGTTTTTTTTTTTGTACATTTTTTTTCTCCCTCAGAGC	52	Red	
164[34]	162[19]	ACATGTCAGGCGATTGTTTTTTTTTTTATAGCAGCACACCGGAAC	46		
99[133]	96[133]	ACACCACGGAATTTTTTTTTTAAAGCAGGAGTTTTTTTTTCCAATAAGAA	52	Red	
141[133]	138[133]	TATTATTTATCCTTTTTTTTCGGAACAATTTTTTTTTTAAAGGCTCCAA	52		
Start	End	icosahedron monomer C crossover vertex staple sequences	Length	Color	
129[19]	53[34]	GAGAAAGCTTGAGGGGATTTTTTTTGCCATTTTTTTTCTGCCAGACACGG	52	Red	
51[19]	161[34]	GACGATCCATTATCCGCTTTTACGCTCTGCAGTTTTTCGGCTTGACATATCCC	52		
159[19]	131[34]	TGCTGCAAGGATAGACTTTTGCTACAGGGCGCGTAC	38	Red	
137[19]	137[34]	GAACCAGGACTAGATTTAGTTTTCACTATGCGGTTTTAAGGGACATTCTGGCC	52		
135[19]	131[144]	CGCTCATGGTTCAGTGAATTTTTTAATAGAAAT	32	Red	
154[144]	179[34]	TTTTAGAGGGTTTTTAGAGCTTAATTGCTG	30		
93[19]	125[34]	ATCGCAAGAACAGTAGGGTTTTCTGAAACCTTTTAAAGTATTAGACTTTAC	52	Red	
123[19]	143[34]	GGAATTGAGGAGCGGAATTTTAAAGAAATCGCTTTTCATTCCAAGAACGGGT	52		
141[19]	95[34]	CAATAGATATACAGAGGCTTTTCCGTGTGATAAATAAG	38	Red	
147[19]	167[34]	GGGTTGATACAGCCCTCATTTTAGGTCGAGTGTTTAAAGTATTGACGGAAAT	52		
165[19]	101[144]	TTTATTTGACCTCACCATTTTACCCTCCCTT	32	Red	
142[144]	149[34]	CGCCACGCTTTTCCACCTTCAGAGCCAC	30		
Start	End	icosahedron monomer C connector staple sequences	Length	Color	
51[56]	53[69]	CTAAGGAAACCGAGGAATTCGTAATCATAGCCTCCTCACAGT	42	Blue	
50[69]	48[56]	CAAGTTTACCAGGTGGTGCTAATGAGTAACCTGTGCTGCCA	42		
53[70]	49[83]	TGAGGATCCCGCTCTTCCAGTCGGGAGAGCTAACTCACAT	42	Blue	
159[56]	161[69]	TCTTAAGACGCTGACGAAACGTACAGCGCCGCGACGGGAACG	42		
158[69]	156[56]	CGATAGCTTAGACCAGCGGATCAAACCTAAAAAATCCCGTAA	42	Blue	
161[70]	157[83]	GATAACCTCACAGGTGACATCGACATAAAATTTCTGCTCAT	42		
177[56]	179[69]	TCTGTGTAACAATTTTATTCATATAAATGTTTAAATATG	42	Blue	
176[69]	174[56]	TGTTGATGGGATAGATTTCTATTTGGGGCAATGAATCATACA	42		
179[70]	175[83]	CAACTAAAGTACATGTAGCATTAACATCCGCGAGCTGAAAG	42	Blue	
165[56]	167[69]	TAAATCAAAAATCAGCAAAATCACCAGTCACCGTCACCGACT	42		
164[69]	162[56]	AGAATGACCATACCTGCCCTTAGCGTCATTGCCATCTTTTCA	42	Blue	
167[70]	163[83]	TGAGCCATTTGGAACCCCTTATTAGCGTGAAGTGGCGGTT	42		
93[56]	95[69]	ATAAAGAGTCTGCTATGCGTTATACAACGGAATCATAATTA	42	Blue	
92[69]	90[56]	GGCCACCGAGTAATGAGGCATTTTCGAGGACGACGACAATAA	42		
95[70]	91[83]	CTAGAAAGGCCACAGTAATTCGTCCACCAAGTAATAAGGA	42	Blue	
46[83]	44[70]	GGTCAGAGGATTGGCTGGTGTTCAGCGGTAAAGTTTTCCTT	42		
43[84]	45[97]	AACGGGGTCAGTTCTCGCGCTGGTAATGAAATCGTTTAACGGC	42	Green	
42[97]	46[84]	TCGCTTGTAGTAACGTGCCATCCACGACGGCAGCACCGCTC	42		
154[83]	152[70]	GAACACCGGAATCACCCCGTTGATAATGAACGGTAATCGTA	42	Green	
151[84]	153[97]	CAGAGGCATTTACACAAGAGAATCGATCAGAAAAGCCCCAA	42		
150[97]	154[84]	ATCGAGCCAGTAATGTCAAATCACCATCTGAGAAAAGCGCGGA	42	Green	
172[83]	170[97]	AAGGCTTGACGGGAAGAGGCTGAGACTCTATTCGGAAGCCTA	42		
169[84]	171[97]	AAAAGCTTAACCTTAATGCCCTTGACCTCAAGAGAAGCTA	42	Green	
168[97]	172[84]	CGGCCACTACGAAGCGAGTCTGCTGAAATTAAGCGAGAAATGGA	42		
100[83]	98[70]	GAGCCCCAGCAGGAGGATGTTAGCAAAACCCAAAAGAACTGG	42	Green	
97[84]	99[97]	ACGTCAAAGGGCCCAATAAACGGAATACGTAGAAAAATACAT	42		
96[97]	100[84]	AGGAAAAACCGTCTTAAGCCCAATAATAAACCCACAAGAATT	42	Green	
58[83]	56[70]	TTCAAGTACCGCACTAGGTCTGAGAGACGACGCTGAGAAGAG	42		
55[84]	57[97]	GACTTGGGGAGCCATAGCTTAGATTAATACCTTTTAAACCT	42	Green	
54[97]	58[84]	CGGTTTTGAAGCCTATTTGAATTACCTTTATCATTTTAAACAA	42		

[illegible]