

Start	End	Sequence S1 (16-layer 4-helix-per-x-raster block)	Length	Color
0[48]	10[52]	TTGTAGCCTATCGGTTTTTGACACCAGTAATAAAAGACGTGGCACCGAACTTTA	53	
0[69]	3[76]	GTCCATCTCCAGAAACGCTCACTGGCCAACAGCA	35	
0[90]	8[91]	GGCCACCGCGCTTTCCTCGTTCAAATCAGAGTCCATGAGTGT	42	
0[111]	10[115]	AAGTGTGTGAGCGGGTGTGCTTGGCGTCACTGCGGTGGCGAAAGGGACACC	53	
1[53]	8[45]	GCTCACCGCCAACCTCTTATCTAAAT	28	
1[77]	0[70]	ACCGCCAGAGTAAAGAGTCT	21	
2[97]	10[91]	CACGTATAACGTACAGTAGGGCGCTGGCAAAGCGAAAAGCACTTGCAGC	49	
2[118]	8[108]	TACTATGAGCTAAACCCACTAGGACTCCAAGAATAGCCC	39	
3[77]	7[83]	TAGAAGCTTGCAACAGGAAAACAATATTAGGTGAGCAGTTGGCAAATTT	49	
4[62]	1[52]	TAAGAATGGACATTTGGAAATACCTACACCTT	32	
4[83]	9[73]	GGCCCTTCTGACCTAGATAAACTTTGCCACAA	32	
5[60]	0[49]	CACGTATTAAGGTAAATAACGCAAATTAACCG	31	
5[77]	4[84]	ACTCGAGGTGCGGTAAGGAGC	21	
5[102]	0[91]	TCGCATCACCAGCACTTTATAATCAGTGA	31	
5[123]	0[112]	CCGGCGATGGCAGGAGGGCAGAATCCTGAG	31	
7[42]	2[35]	AATATCATGCAACATAAAAAATACAGACAATATTTTTCACACGGCTCAAT	49	
7[63]	4[63]	ATCTGGTGCGGTACAGCAGAGAAAGCG	28	
7[84]	6[77]	GGAACAAAGTTTTTTGGGGAG	21	
7[105]	2[98]	AGAACGTCGTGAACGAACCTGAAAGGAAGGGAAGAAGTGTATGACGAG	49	
8[44]	18[52]	ATCGAGGATTGTTTGAGATCATATTCTGATCTGAATAAGGTTTAGAGA	49	
8[69]	11[69]	GGAAATTGTTTACAACGAACGTTGATGGC	28	
8[90]	16[91]	TGTTCCACGGTCACGCTGGTACGAGCCTCCCCGGCCGTGAG	42	
8[107]	18[115]	GAGAGCAGGTGGCCCTATTGGGCGCCAGGGAACCTGTCTCACATCCCC	49	
9[74]	15[83]	TTCTACCTTTACATCAAGAAAAAG	24	
9[77]	8[70]	GACAACGTGTCAACAGTTGAAA	21	
10[51]	17[45]	AAATAGAGTCAATAACCAAAAGAATTTGAATTACCTTCTGT	42	
10[90]	18[91]	AAGCGTAGCGGGGAGAGGCGGTAATGAAGGTGCCTCGCAGTG	42	
10[114]	17[108]	GCCGAAAATCGCTCACATTCGTAACGCGTGCCTGTTCCGGTG	42	
11[70]	10[77]	AATTCATCAATAGCTTAAATC	21	
12[83]	17[73]	ACTAATCCTGATTGTACAGTAGATAGCTCCCT	32	
13[39]	7[41]	GTACCTGATTACATTTTTTTAGGAAACCTCA	31	
13[60]	7[62]	CAGGGAGAAAATTAGACAGGAAGGAATCAAT	31	
13[77]	12[84]	ACTGTAAAGCCTGGTCGGCCA	21	
13[102]	7[104]	AGTACAACTTTTGCCCATAGGGTCTATTAA	31	
15[42]	5[38]	ACCTGAGGGATTTCGGATTTTCATGGAAGGGTTAGAAATTATCTAACATTTTCGC	53	
15[63]	5[59]	GAAACAATACATCGATGAATATTTGGATTATACTTTATCAGATATTAATGAAC	53	
15[84]	14[77]	TTGAGGAGGAAGCATAAAGAG	21	
15[105]	5[101]	GCTCGAAAATCCACGAGCTAACGTGCCAGCTGCATTTTTCGTGAGAGAGTAAA	53	
16[69]	19[69]	CTTTAATAATTTTTAGATTAATGTAAA	28	
16[90]	24[91]	CCTCCTCGAGCGCGCTGTGCTACGGCTACGTCACTAACGGA	42	
17[46]	26[52]	AAAGTCAATATAGGTTGGGTTATAAAAACTTAAGGCGTCATG	42	
17[74]	23[83]	TAGTAATTACTTAGGCAGAGGCAC	24	
17[77]	16[70]	AATCCTTACCAAAATTAATTA	21	
17[109]	26[115]	CTGATCAGACGTTTCAGCAAATCGTCTGCGGCCAATCCGTCCC	42	
18[51]	25[45]	AGATCGTCGCTTAGTATTTAAACAATAAAGTACCGACAATGCA	42	
18[90]	26[91]	TCACTAAAAACATCCCTTACAGGTTTCTCATTGCAGGCGGCC	42	
18[114]	25[108]	TGCCGGCCAGTGCCATCGGTACGTCCGGCCAGAGCACACGA	42	
19[70]	18[77]	TGCTGATGCAAAAATACATAGC	21	
20[83]	25[73]	TCTCCAATCGCAAGCACCGGATATCCAGATA	32	
21[39]	15[41]	TGTGTTATACCTTGCTTTTTTAATTTCAATT	31	
21[60]	15[62]	TAAAGCCTGTTATTAATCAATTTAGATGAT	31	
21[77]	20[84]	ATCATCAGCGGGGTTTGCTCG	21	
21[102]	15[104]	CTTACCAGTACTCTGTTTCGCGGTACCGA	31	
23[42]	13[38]	GCCATATCATATGCGATAAAATTTCAAATATATTTTCCGGCTGTGAATTTTGC	53	
23[63]	13[59]	ATGTAATTAGAAAAGATAAAACAAGAACGCGAGTAACTATAGACGTACGT	53	
23[84]	22[77]	TTGTAGAGGAGGTGCCAGCA	21	
23[105]	13[101]	CTGGTCTCCACGCATCGCACTTGGTAATGGGTAACTGGTGTGATCCAGAATG	53	
24[69]	27[69]	GTAATAAAACAATATCCTAATGCAAGCC	28	
24[90]	32[91]	ACGTGCCAATGATGAAGGGTAGGTGGAGATGTGCTTATTACG	42	
25[46]	34[52]	GAAAAACCAATACCGCACTCATCTAGCAAGGGTTTTGGCAA	42	
25[74]	31[83]	AGTATTTTGCGATTTTTTGTTGA	24	
25[77]	24[70]	CCTGAACGGATTTTCGAGCCA	21	
25[109]	34[115]	TGCAAAAAAGTTAAATTTCTGCTCTTCTCCGTACAGCGGTAT	42	
26[51]	33[45]	TAGCGCGCTTTATCCTATCCCAATTACAGAGAGAATACAAA	42	
26[90]	34[91]	TTTAGACGCAGAAACAGCGGCTCTCACC CGGAAACACTCCA	42	
26[114]	33[108]	GTATGATTGCGGCCAGTTGGGTAGATCGGTGCGGGCCGTGC	42	
27[70]	26[77]	GTTTTTATTTTCGAAAAATAA	21	
28[83]	33[73]	GAATCGTAGGAATCGATTAGTGAGTTAAATCA	32	
29[39]	23[41]	ACTACCAACGCAGCTAAAAGGTAAGAGAATC	31	
29[60]	23[62]	CTTTACAATTGTTTATCGAGAATACGCCAAC	31	
29[77]	28[84]	TGCGGATAACCTCAGGAAAAA	21	
29[102]	23[104]	CGGTTTCAGAAAGTTAAATCCTCACGTGGTG	31	
31[42]	21[38]	ATTATTTGAATCTTTGCGGACAAATCAGATATAGAACCAAGTCAATAAACCG	53	
31[63]	21[59]	AAGAAACACCCAGCAAATCAAATTACCGCGCCCAAAGAACAATTACGAGTAAA	53	
31[84]	30[77]	AAGGGGGCCGCCACGGGAAT	21	
31[105]	21[101]	GATTAAGGGCAAGCCGAACGTGGTGAAGGGATAGATCAAACCCGCACAGCGG	53	
32[69]	35[69]	GAAAAACGCTAATGCCCAATAAACCGA	28	
32[90]	40[91]	CCAGCTGCCCTTTCCGGCACCAATCAGAAAGCCCATATGTA	42	
33[46]	42[52]	GTCAAAATGACCGAACAAGTTACATGATTACAAAGACTAGC	42	
33[74]	39[83]	GAGCAATCAACCGACTTGAGCCAT	24	
33[77]	32[70]	AGATAACGCAACGTCAAAAAT	21	
33[109]	42[115]	CGGCCTCAGGACGTTGGTGATAGATTAACAACTGGCCTTTCTA	42	
34[51]	41[45]	GAAAGAGGGTGGTTTACAAAGGTGACCACTAGCACCATGTAA	42	
34[90]	42[91]	GCCAGACTTGACCGTAATGGGGTGGGAACCATCAAGGAGAGG	42	
34[114]	41[108]	CGGAAACCAGAATTCGCTTGATACGTAAACTAGCATAAGG	42	
35[70]	34[77]	GGAAACGCAATAGAAAGAATT	21	
36[83]	41[73]	CGATAACGGAATACTTATTTTTTTCATCCCTT	32	
37[39]	31[41]	AAAAAAGACACCTGAAACATAAACAGCCAT	31	
37[60]	31[62]	CGGTTCATATAATTGAGGCAGCCTTCCAAAT	31	
37[77]	36[84]	GTCCAATAGGAACGCAACGG	21	
37[102]	31[104]	AATTTTTGTGCTCTGTCTTCGCGCAAGGC	31	
39[42]	29[38]	ATTCATTACGCGCCAGAAACGAGACTCCTTATTACCAGATAGAATAGCACCG	53	
39[63]	29[59]	ACCGTCATAGAAAAATAAGTCCAAAAGAACTGGCCAGAAGGAATAAGAAAGC	53	
39[84]	38[77]	AATCAGACTCATTTTTTAACA	21	
39[105]	29[101]	AGGAAGAATTAATTCGCGTCCCGTGGATTCTCCATAGGTCAAGATCGCAAT	53	
40[69]	43[69]	GAGCCAGAAGTTTGGGCATTTACCCCTC	28	
40[90]	48[91]	CCCCGGTCTTATTTTTGAGAGATAAAGCAAAAGGTATATTTT	42	
41[46]	50[52]	TCACTTATTAACCGCCTCCCTCACACCAGACAAATAAGTTT	42	
41[74]	47[83]	TAGGCGCAGTAATGCCCTGCCG	24	
41[77]	40[70]	CGTCAGATGATTTGGGAATTA	21	
41[109]	50[115]	CTAGATAAAATTTCAAAGGGTGAGAAAAATTTCTGTAATTTTT	42	
42[51]	49[45]	CCCGTAGCGATTCCAGTACAGTGCCATGAAAGTATTAACCA	42	
42[90]	50[91]	GTAGCGTTGAGTAATGTGTAGTATTTTATGTACCAACGGTGT	42	
42[114]	49[108]	GCTTCAGGTCAAGAATTTAATAGTTGGTCAATAACCTGGTTG	42	
43[70]	42[77]	AGAACCGCCACCCAGCGCT	21	
44[83]	49[73]	TGCTCAGAGCCACCCAGAATGGTGTATCTTGA	32	
45[39]	39[41]	TATATACATGCAGCACCTACCATTTGGAAATT	31	
45[60]	39[62]	TCATTTACCGCAGAATCCAAAATCAATTATC	31	
45[77]	44[84]	GAAGCTAAATCGGTAATGCAA	21	
45[102]	39[104]	CATTTAAGCAATCTACAGTCAATCCAAAAAC	31	
47[42]	37[38]	TTGAGTAAAGCGTCTCACAAAACCACCACGAGCCACCGGGCGTTTGATAT	53	
47[63]	37[59]	AACAGTCTCTGAATTAAGCACCCCTCAGAGCCGCGAGCCGCTCGGTCAACCA	53	
47[84]	46[77]	CGAGCTGCTCAGAGCATAAAA	21	
47[105]	37[101]	ATTCTACAGCAAAATATGACCTTAGAACCTCATAGTAAAGATAATGCCAAAT	53	
48[69]	51[69]	CTATTATGAGAGGGACCGTACTAGGAAC	28	
48[90]	56[91]	CATTTGGGCAGTTTCATTCCAAGTCAGATCATTGAAATACTG	42	
49[46]	58[52]	GGCACCCTTTGTTCAGGATAGCACTACAACATAATGAACGA	42	
49[74]	55[83]	TATCAACTTTGTTTATCAGCTCA	24	
49[77]	48[70]	AAGTATAGGCTATTTCGGAAC	21	
49[109]	58[115]	ATTTATGAAGGTCATTTTTGCGGGGAAGCACTTCAAAGGC	42	
50[51]	57[45]	AGTGGATAAGGAGTGAGAAAGGAGGCTTGATACCGATATCGC	42	
50[90]	58[91]	CTGGACCTAATTGCTCCTTTTAGGATTAATTAAGAATCATAA	42	
50[114]	57[108]	AAACCAATTGGTCTTTCTTTAAATGTTTAGACTGGATAAAC	42	
51[70]	50[77]	CCATGTACCGTATTGGAATAG	21	
52[83]	57[73]	CCACACTGAGTTTCATTTGCGCAGCGACGCT	32	
53[39]	47[41]	CAGAGGAACAGCTCAGTGAGGCTGCAGTGCC	31	
53[60]	47[62]	TCTTTACGCGTCCGCTCTGAAACCGTATA	31	
53[77]	52[84]	TATGCATCAAAAAGGAGAGTA	21	
53[102]	47[104]	GCCCTATTATTATAACATTTAGCTGGCATCA	31	
55[42]	45[38]	GGCTCCAAATAGAAACGTTAGGCCTGTAGCATTCCCCCTCATCCCTCAGTTGA	53	
55[63]	45[59]	TTGTATCCAACAGTGTATGGGCTCACCAGTACAAAAGCCCAATCAGGAGATCC	53	
55[84]	54[77]	TAAATATAGCAAAAGCGGATAA	21	
55[105]	45[101]	TCAAAATGACCCTGACGAAAGAAACTCCAACAGGTCGATAAGACTAAAGTAAAA	53	
56[69]	59[69]	GAATTTCTAAAGGCAAGACAGCACTACG	28	
56[90]	63[104]	CGGAATCCGGTTTACCAGACGGCTTGAGTCATTACCCAAATC	42	
57[46]	61[59]	TGATAGCAACAACGGGTAATAATACCTAAAACAATTGTGTCGA	42	
57[74]	63[83]	TTTTACTTAGATCTTGACAAGAAC	24	
57[77]	56[70]	GCGGGATGTTGCTTTCGAGGT	21	
57[109]	61[122]	CAAGTAAGAGTTGAGATTTAGGAAATCTACGTTTAAGAACTG	42	
58[30]	63[41]	CTTACCGATACCGAACTTACAGACCAGGCGC	31	
58[51]	63[62]	GGGGCTTGCAGACGGTGGCTGACCTTCATC	31	
58[90]	61[101]	CCCTCTCACAGGTAGAAAGATTACGGATTGTGAATTAC	39	
59[70]	58[77]	AAGGCACCAACCTTACCCTCA	21	
60[83]	60[84]	TATAAAACGAAAGACTGCTCCATCAACTTTAATCAACAACAT	42	
61[39]	55[41]	TCGAAGGGAATATTGGGTTGCGCAAAAAA	31	
61[60]	55[62]	AATGAGGCGCAGGGATTTAAACACCTTTAA	31	
61[102]	55[104]	CTTAAATTGGACGATAAAGCGTCCATCCCC	31	
63[42]	53[38]	ATAGGCTCAATCATCCTGATAACTCATCTTGACCTCCATTAGGCTACATTT	53	
63[63]	53[59]	AAGAGTACCGGAACCCGCGACGGAAGAAATACAGTAATGCCATCGGAATTT	53	
63[84]	62[77]	CGGATATATGGTTTAATTTGT	21	
63[105]	53[101]	AACGTAAAGTAGTATGCGATTATAATAAACGAACTCATCAGCAACACTGGAA	53	

Start	End	Sequence S2 (10-layer 6-helix-per-x-raster block)	Length	Color
0[48]	5[48]	TTTCTTTGAGTTGCCCTTATAGAGTCCAATCACCCAAGGGAG	42	
0[69]	5[69]	GTATTGGGCTGGTTGGTTCCGGGACTCCCGATGGCCTTGACG	42	
0[90]	12[91]	GCGCGGGAAGCTGGGGTGCTATTGTAAACTCTTCGGTTGGGA	42	
0[111]	5[111]	TGCATTAAGCTAACCAGCCGTTCTGTAATGTTACCTCATTTCT	42	
2[34]	12[28]	AGAATAGGCCTGGCTACTTCTAAGAACTTCAATCG	35	
2[55]	12[49]	CAAAATCAGCAAGCGCAAATTTGCTGGTGAAATAC	35	1680566
2[76]	10[84]	TGATGGTTGCCCCAGTAAAAGTATTACCGCCAGGGTGCGGGCACGACGG	49	1680566
2[97]	14[91]	AAAGTGTAAGCAAAACCCGGGTACCGAATGACAACAGGAGAGGGACGA	49	
2[118]	12[112]	CAACATATCACATTAGGGTTTGCGAAACGCCATT	35	
4[34]	13[31]	GTTTTTTCAGTTTGGAGCTAGAACGGTATGGCTACAGA	39	
5[28]	20[31]	AAATCGGGGGCGCTCCACACCCAGCAGCAGCCCTAACAT	39	1680566
5[49]	20[52]	CCCCGAAAGCGAACGCCGCTCAACAGTAAATACTTAA	39	
5[70]	9[73]	GGGAAAGCCGGCTCACCGTCTATCAGGGAACGTCAGACGAGCGAGG	46	
5[91]	16[91]	GCATTTTCATATAGGCTAATCTCGAGTAA	28	
5[112]	20[115]	TCCGAACGCAACTCTGGAGTGTTTCATCAGCGATTCTGG	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]	TCTGTAATCTGACCAGCTACGTGGTGCTTCATGGTTAGT	39	
8[51]	24[49]	TCGAGAAGTGTGGCACACAGTAATCTTCTGATTCAAGTTAACGGA	45	
8[114]	24[112]	GCTTTCTTCTCCGTGCACAGCCAGGGAGACAGCCTGAGCGGGAGA	45	
9[74]	23[83]	CCAACCTGAAGGCCAACATCCTGAATATACAGTAACTT	38	
9[84]	2[77]	GCTTTCTTGTCCCGCCAAATTAAGGGCGTCTGT	35	
10[83]	0[70]	CCAGTGAGCAGGCGGAGAGGCGGTTTGC	28	
11[42]	6[42]	TCGGCCTAACCGTTAATCTGTAGAACTCTTAATGAGGAGCG	42	
11[63]	6[63]	AGAACAAAGTCTGTAATCAGTACGTATAGCGTACTAAAGGAA	42	
11[105]	6[105]	GCCAGCTTCCAGTGTTGGATGGAATTGTCTCGCCCGTCGGTG	42	
12[48]	17[48]	CTACATTACACGACGACAATAGCCATTAGCCACGCATATCAA	42	
12[69]	17[69]	GAAAAACACATTCTAGCGTAAACCACCAATTAACATCTGGTC	42	
12[90]	24[91]	AGGGCGAGAGTATCGGCCCTCAAATATGACTCATATCGCAAGG	42	
12[111]	17[111]	CAGGCTGCGCACTCTCTGCCAACAAACGACATTAATTTTTAA	42	
13[32]	24[28]	TTCAGAACCTAATAAAGTTGAATA	24	
14[37]	0[28]	TGAACGCCAGGTAGCAACCTGAGATCACCAGTGAGACG	38	
14[90]	26[91]	CGACAACAGCGTCGGATTCTCATGAACGTTAATGCGGCAAAG	42	
14[100]	0[91]	GAGAGCCAGGCACGACGATGAGTGATGAATCGGCCAAC	38	
15[60]	0[49]	CGAGAATACGTTTTTATCCATCACGGTCCACGCGCCAGGGTGTT	45	
15[123]	0[112]	GTAATCGTAAAGTGGTTAAGCCCAATTGCGCCTGTCGTGCCAGC	45	
16[90]	28[91]	CAACCAGATTTTTGTTAAATCTGTTAAATCATATGCAAATGG	42	
17[28]	32[31]	TTGCTGACACTAACCATTTGACAAAATCTAACCTTTTCT	39	
17[49]	32[52]	ACCCTCATATCTAATAGACTTAAGAGTCTCGCTATGTAT	39	1680566
17[70]	6[84]	AGTTGGCAAATCAAGTGAGGCCTATAACCCCGCTTGGCCTTG	42	
17[112]	32[115]	CCAATAGAAATTGTATCAGAATTGACCAGGGCGGTTTT	39	
18[41]	2[35]	TTAGGAGACCTCAATGAGAGCCGCCGCGCAGAGCGGGAACAAATCAA	49	
18[62]	2[56]	GGAAGGTATCAATACCGCCTGACAGGGCACGTGCTAGAACGTAATCGG	49	1680566
18[104]	2[98]	AATATTTAGCTCATATGTGAGATTTACGCAACCTTGCTCGAAGAAGCAT	49	
18[125]	2[119]	AATATTTGAACGCCGCCAGCTACTCTATGTGTCTCATAGCTTTCCACA	49	
19[84]	28[73]	ATGTCAAATTCGCATTAAACAGTTGAAAGCAACTCGAGCT	39	
20[30]	36[28]	TATGCGGAATAACAGTACGAATTATAAAGTATTCAGCTTAATCGG	45	1680566
20[51]	36[49]	TTTTGATTATTGAATTACTGAGCAATATAAACTGTTTAGAGCATG	45	
20[72]	35[76]	CCTTCATCAAATTACATAACAACTTTGAGGTCCTGA	38	
20[114]	36[112]	AGCATTTTTGTCCAATAGCATAAAGAAACGCATAAAAGAAGTT	45	
21[84]	9[83]	TGATAAAGTAATCGTAAATTATAAAACCTTCTGCCGCCAA	42	
23[42]	18[42]	GTAGATTATAATGGATATTCCTAAAAGTGAAGTATAATATCT	42	
23[63]	18[63]	CAGATGATTGTTTGTGGCAATTTGCCGAATTCGAGAATTGA	42	
23[84]	12[70]	TAGAACCTATTCAACCGTTTAAGAGATATCCATTGCAACAG	42	1680566
23[105]	18[105]	ATGCAATGTCAAATGGTAGCTAAACAAGGTTGATAAAACGTT	42	
24[48]	29[48]	TTCGCCTCAATTACCCTTTTTTAAATCGAATAGTGTTGGGT	42	
24[69]	29[69]	ATCGGGAATGATGATTAACAATTTTCCATTAAAGATAAATGC	42	
24[90]	36[91]	ATAAAAAAGCAAAATTAAGCTCAAAAAGCGTCCAAATAGTA	42	
24[111]	29[111]	AGCCTTTCCTCAGAAATCATATCATTTGTTAGATATCTGGAA	42	
26[37]	11[41]	GGATATCATCAAGGGTTACCAGTCTTGACGCCAAACTA	38	
26[90]	38[91]	AATTAACAAAACCTGTTTAGCGAACCAGAGTCAGAAGGAATT	42	
27[60]	11[62]	TAATTTCAATCAGATGAGATTATAAAAAGGGGTCATGAATATCC	45	
27[102]	11[104]	TTTCAGGCAACGGAGAGCACCATCGGAAGATCGCAACTCTATTAC	45	
27[123]	11[125]	GAAATTAACAAGAGATCAAAGGCCCTTCCGCGCCATTGGGGGAT	45	
28[72]	38[73]	TAGTTAGAATTTACTAGGGCAGAGTCAT	28	
28[90]	40[91]	TCAATCAATATGCAACTAAAGTAGCTCAAGGATTAATCTA	42	
29[28]	44[31]	AACCTCCTTAATTTACCGACCCTTTCATAGCGAAGCAA	39	
29[49]	44[52]	TATATAAATTTTTGCGTTAACTTACCAGGAGGTTAGAG	39	1680566
29[70]	19[83]	TGATGCAAATCCAATAGCGATTACTAGC	28	
29[112]	44[115]	GTTTCATTAATTGCTTGCTCCAGTCAGATTACAGACAG	39	
30[41]	14[38]	ATTTTAGGGCTTAGAATTTATGGATTTATTGAGTAAACATCTTTT	46	
30[62]	15[59]	CGAGAACTATATGCGCTGAGTACAAACAACGTTACGAA	39	
30[76]	45[73]	CAAGACACGGAATCAGCTACACAAGATTATTGAGTCGCA	39	
30[104]	14[101]	AATGCTGTACGGTGCAATTCGTACCCCGAGAATCGCGTGGGAGTTT	46	1680566
30[125]	15[122]	TAGAGCTTCCATATATTTAGTAAGCCCTGAGAGTGACC	39	1680566
32[30]	48[28]	TACAATTGAGTTATCCGACGGGTACGCAGTAGTGGCAAGCGACAT	45	
32[51]	48[49]	CATACAACGCAGCAAATGCACTCACATGATTGCAAAGAACCAGCG	45	
32[114]	48[112]	AATCATCAAATGCAGACCCTCGTTTTGTATGACCCCAATGCCA	45	
33[84]	21[83]	CTATTATACCGGAAGCAAAACCTTGAAAAAATTATACTAGC	42	
35[42]	30[42]	AACGCGCGTACCGAATATTTAATGCGTTAAATAAGCAAATAT	42	
35[63]	30[63]	TAGATAACCAGTAATAATTTAAAAAGCTAAACACAAGAACG	42	
35[77]	24[70]	ACAAGGACTGGATATCAGGTCTTACATATCAAGATTAGTACCTTTTAC	49	
35[105]	30[105]	GGAATCGAGAATGACGGATTGTGAGCTCCTTAATGAATAT	42	
36[48]	41[48]	TAGAAACAAGTACCAGATATACTTGCGACGCTAAATTTATC	42	
36[69]	41[69]	CCATCCTCAAGCAACGCGCCCTTAAATATTTATAAACGAT	42	
36[90]	48[91]	AAATGTTCAGCATAGTAAGAGTTGTGTCTACACTAACCTAAA	42	
36[111]	41[111]	TTGCCAGATCATAATACATAAACACATTGACGTTGAATTTCA	42	1680566
38[58]	23[62]	GCACAACATGTAAGAGAAAAAGAAGGAACAATTAACGT	38	
38[72]	47[76]	TACGCGTTTTCGGAATATTTATTT	24	1680566
38[90]	50[91]	ACGAGTCATATAAAACGAACTCAGGCGCACTTAGCAGCATCG	42	
39[39]	23[41]	CCGAGAAGGCAATCGCCAAAAGGTTCAATTTGATTGCTAAATTGC	45	1680566
39[102]	23[104]	GAACGCCAAAAGCAAAGCCATAAAAAATAAGATTTCAAATTTTAA	45	
39[123]	23[125]	AAATCAACTAAAGATTACAGTTCAGCTAAATACTTTTGAATGTG	45	
40[90]	52[91]	CGTTATTAAATTGGGCTTGAGAACACCAAGTAATCGCCGACA	42	
41[28]	57[34]	TAAACAGAGGGAAGGAACAAATTTTCATAGCAGCATGATGATGCAGTG	49	
41[49]	57[55]	CCAATCCCAGAGAGGAGCGCTCCCTTATGACAGAAGTAAGCGGCCGTA	49	
41[70]	30[77]	TTTTTGTTTAACGTTGCACCCATCTCCAACAGGTCACATGTTTTAATCG	49	
41[112]	57[118]	ACTTTAAATAAGGCATATTCACAGCTTGATATTCATAGTTAACCACTA	49	
42[41]	26[38]	TAAAAACCCATATTCGAGCGTGTGTGATATACAAAGCTTCTGTAAT	46	
42[62]	27[59]	GCCTTTAAATAAGCCTGAATATAAGAACTGTTTATAAT	39	
42[83]	57[76]	TAGTCAAAAATGAAAACCCACTCGGCATAGCGTCAGTCTCTGCCCTGC	49	
42[104]	27[101]	GACGAGAATGGTTTGGAAGAAGAGAGTATCAAAGCTATA	39	
42[125]	27[122]	TCAGTGATCATTGTATTACTTTTGATTATCGCGAGCT	39	
44[30]	59[41]	TAGAGCAGATGGCCGAAAATATTGAGACTCGCTCAGTACCAGGC	45	
44[51]	59[62]	CAAACCAGAATAGCACCATTAAAGACATGAATGCCGTCGAGAGGG	45	1680566
44[114]	59[125]	ATGGACGGTCTCACCTGAGGACTCAGAGCCTAGTACCGCCACCC	45	
45[74]	59[76]	ATATAGAGCCTCACCGATTGGAAGGTATA	31	
45[84]	33[83]	CCATGTTATAGGCTGGCTGGAAGTTGCTGTAGGAAGCCCTGA	42	
45[102]	35[104]	ACGTGATAAACAACTAGGGGTATACTGC	31	
46[37]	35[41]	TTATTAACCCAATCAAAATGCAG	24	
47[42]	42[42]	AAGAAACAAGACTCCAAGTTGAAACAAGGTAATTAATAACA	42	
47[63]	42[63]	GAATAAGCCCCAAAAGAGGAAATAAGCCCGAGAGATAATAGCA	42	1680566
47[77]	36[70]	TGTCAGCAAAAGAAGAAATCCGCGACAATTATTTTAAAAAATAATATC	49	
47[105]	42[105]	CATCTTTCATCGCCAGGCGCAAACGGTGGAACCGTTGCCCT	42	
48[48]	53[48]	CCAAAGAATTATTCATTACCACAGTAGCTAGCGTTCTCTCCCT	42	
48[69]	53[69]	AATTCATATACCGAGCAAAATGCCTTTTTTCGGTTCAGAAC	42	1680566
48[90]	59[104]	ACGAAAGCAAGGTTAGCAACGCAGGGATTATCACCCTACTCA	42	
48[111]	53[111]	CTACGAAAGGCTTTCAGCAGCTAACCGAATACCGACCAAAAG	42	
50[90]	57[97]	GAACGTTGCAACAACCATCGCAGTTTTTGACCGTAA	35	
51[60]	35[62]	GTTTCACCAGGGAACCCGAACCTGGTCGAGAAAATTTACTCAACAA	45	
51[123]	35[125]	GCTGGGATCGAATCATAACGGAGATTACCAGTTGCAAATATTCAT	45	
52[90]	55[97]	ATGACGCCAAATCTCCAAAAAATAATTGAATTTT	35	
53[28]	55[34]	CACCACCCAGCATCCTTGAT	21	
53[49]	51[59]	CAGAGCCGAACCACAAATCCTCATTAAACGTTCCATCAA	39	
53[70]	42[84]	CGCCACCCTCAGTGGTTTTCAAACCTTCATCAAGGAACGAG	42	
53[112]	51[122]	GAGCCTTACAACTAGCTAAACAACTTTCAGCCCTCGGTC	39	
54[41]	39[38]	GCCGCCGGGAACCGTGCCATCGTCAGAGTGAAATACCTC	39	
54[62]	38[59]	GCCACCAGCCACCCCATAGCCAATATCAAATAATATTGAAGCAATA	46	
54[83]	54[84]	GTAGCCACCACCCTTGAAAGCGACGTTAGTAAATTTTTTAC	42	
54[104]	39[101]	TGCGAATAAAGGCTTAGTTGCTTGACAATACAGACAACG	39	1680566
54[125]	39[122]	GAAAGGATAATTGTTCTTAAATTACCCAAAAGAGGGTAG	39	
55[35]	46[38]	ATTCACATGGCTTTCGTAATTTAGCAAAAGCCGAACCTTA	39	
55[98]	45[101]	CTGTATGGATCTAACCACGCAGAAAGACCGGA	32	
57[35]	47[41]	CCTTGAGAGAGGCTGACGGAACAAAAGGCATATAA	35	
57[56]	47[62]	TAAACAGTTCTGAAGTGAATTATGTTTTCACCACG	35	
57[77]	45[83]	CTAGGAACCCATGTTCTGTTTCCAGCAGACTGTATGGGAATATCTGCT	49	
57[98]	47[104]	CACTGAGTCATTTTGTACAGGGCACCAAAACACT	35	
57[119]	47[125]	CAAACCTACCACCCTAAAGACTAATACGTAGCGATT	35	
59[42]	54[42]	GGATAAGAGTATTATAACAGTTTATACAAACAAATCACCAGA	42	
59[63]	54[63]	TTGATATCCTATTATTAATGCAATTTACGCCAGAACAGAGCC	42	
59[77]	48[70]	GCCCGGAATAGGTGAGCAAGCCCAATATCTTGAGCAGCAATCAATAGAA	49	
59[105]	54[105]	GGAGGTTACCACCCTTTCGTCGCGTAACGGATTTTAAGGAAT	42	

Start	End	Sequence S3 (8-layer 8-helix-per-x-raster block)	Length	Color
0[55]	3[45]	TCGAGGTGCCGTAAAGCCGGCTGCGCGTTGC	32	Orange
0[76]	3[66]	CCCAATCAAGTTTAAAGGAAGCTGGCAAACGT	32	Purple
0[97]	16[91]	GGCCCACTACGTGAGGCGAGATAGGGTTGTTGCCCGCTGGAGTGCCATC	49	Dark Gray
0[118]	3[108]	AAAACCGTCTATCAGTTCCAGATCCCTTAGCG	32	Cyan
0[139]	4[129]	GACTCCAACGTCAACCACTATGGTGGTTCAGCAGTTTT	39	Light Blue
2[55]	16[49]	GGTCACGGGAACGTTAGATTAATCCTTTCAAAGAA	35	Light Green
2[76]	15[76]	TAGGCGCGGAAGAATTTAGGAAATTTTA	28	Yellow
2[97]	18[91]	AAAAGAATAGCCAGCACCCCTGAGAGAGTGCCGGTGCTTTGCTCCGGCC	49	Green
2[118]	16[112]	CGGCAAATTTGGAATGCGGTACGGGGTCCAACGGC	35	Orange
3[46]	7[48]	TTTTAGACAGAGTAAAAGAAGAACTGCAACA	31	Blue
3[67]	7[69]	GCTGGAGGCCCCGAAATATAACATGGAAATA	31	Light Green
3[109]	7[111]	GTACACAGTGGCGCGGGAGTCGGGAAAGCCT	31	Pink
4[34]	13[31]	ACGCCAGGGCGCGTTGCTGAATCAG	25	Light Blue
4[55]	17[52]	GGGATTTGACGAGCGAAAAATGAAAGGAGCACGTAATCC	39	Cyan
4[76]	18[73]	CTAAACATTCTCGCGCTGAGTCTAAACCTA	32	Blue
4[97]	20[91]	TTCACGCGCTGGGAATCATTAAATGAATCGCACGCGCAGTGCTCCCGTA	49	Pink
4[118]	17[115]	ACGGGCACAGCTGGGGTTACCCTTACATTGCTCTCTTG	39	Green
6[34]	11[31]	ATCGGCCACAGTGAGAAATCAAGA	25	Blue
6[55]	28[52]	CTGAGTAGAGTCTGATGCGCGGGTCAGTCAGAGGCGCTTTTACAACG	46	Orange
6[76]	28[73]	ATTAGTATAACCGTTTGAATGCAACAGTATACCAATAACGGAAATT	46	Blue
6[97]	8[94]	TCGTGCCAGCTGACCGAGCCGGAAGCATACAA	32	Blue
6[118]	28[115]	GCTTTCCGAGAGGCTCATACCCTCTGGTGTACAAAGGGTAATCT	46	Light Green
7[18]	8[31]	CAGAACATATTACC GCCACA	21	Purple
7[49]	27[52]	GGAAAAATACATTGAAGCGTAAGTGAATATTACATTAAATTTAAAA	46	Purple
7[70]	6[77]	CCTACATTTTGATATTCTTTG	21	Cyan
7[112]	27[115]	GGGGTGC GTGTGAACGGGTACTGAGAGAACAGCGGTGCGCAACTTC	46	Pink
8[30]	27[31]	CGAGATAGAAAAATCGTAACATCACCGACCGACCG	35	Dark Gray
8[41]	6[35]	CACCACTCAGCCATTCAAAT	21	Green
8[62]	6[56]	GATTATTGCTCATCATCTTGC	21	Orange
8[76]	27[73]	AATCGTCAGACAATGTACATATGAATTAAGTTAATTGCG	39	Green
8[93]	23[90]	TTCTCTCAGGTGAAGGGATAATGGAGCCG	31	Blue
8[104]	6[98]	TCCGCTCAAAGTGTAACCTG	21	Light Green
8[135]	6[119]	GGTCATAGCTGTTTCTCTAATGAATGCC	31	Pink
9[84]	8[77]	CGTGAGCCACACACACGCTC	21	Orange
11[32]	28[31]	TAAAAATTACCATGAATAATTG	21	Blue
11[84]	4[77]	TCCAGCGTGCCTGTTCTTCTTTGTAGCAGCGGGAG	35	Yellow
12[44]	8[42]	AGCGTGAGGCAACTGATGACCTGAGCAGATT	31	Dark Gray
12[65]	8[63]	AGCCCCCTGGCTATTAGTGGCACTGAAATG	31	Pink
12[107]	8[105]	AGCGCCTGTGGGGGGTTGGATCCATTGTTA	31	Dark Gray
13[32]	31[31]	TTGAAATTGCTGATGGCTCAGCTAAAGT	28	Dark Gray
13[84]	2[77]	AAAGGTTCCCCCTGCATCACATTAGAATCGGGCGC	35	Dark Gray
15[14]	11[24]	TTAGACTTTACAAATTTGAGGTATCTGGCCTCAAACCAG	39	Orange
15[63]	12[66]	CGTTATTGCACTAAAGGTTAAGCC	25	Light Green
15[77]	0[77]	AAAGTCAGCTTACGTGCGGTGGTAATCAGCGAAAACCATCA	42	Pink
15[105]	12[108]	GCATCAGTGAGCCGAAACATCCTGC	25	Blue
16[48]	19[45]	ACCACCACAATATAAAACAGAACAG	25	Orange
16[76]	19[66]	TAACATTATCATTTTGATTATATATCAAAGAAA	32	Cyan
16[90]	32[91]	CCACGCAAAACATCCTCATAACGAGTAAGCTCATTTTCGCAT	42	Blue
16[111]	19[108]	AGCACCCTGCCGAGCTGCTAGTG	25	Light Green
16[139]	20[129]	CAGCAGAACCGCAGCGTGGTACGCGGTACGATGCGCAG	39	Dark Gray
17[53]	12[45]	CATGAAGGAGACAACTCGTATTAAGAGCCGTAACAGTTCTAA	42	Dark Gray
17[39]	32[49]	TGACGACGACATATCCCATCATT	24	Orange
17[116]	32[112]	TAGTTCAATCAACGCCAAACGTTA	24	Blue
18[37]	0[35]	AAGGCAAAATCCAATAGAACGGGAAGCACTA	31	Blue
18[58]	0[56]	TTTATTGAGGCAACTAAGCGGAGATTGGGG	31	Orange
18[72]	31[76]	CCACTTCTGAGGTAAGGATGTGA	24	Blue
18[90]	34[91]	AGAGCGGGAAGCCGACAGCGACGACAGACAAACGTAAAACT	42	Orange
18[100]	0[98]	GCCTCGTCATGGTCACTGAGTGTTGGGCGAT	31	Blue
18[121]	0[119]	TTTCTGGTGTGCGCGGTCAAGAGTAGGGCGA	31	Purple
19[46]	23[48]	TACGAATTATAAAATTAACCTTGTAGCGAT	31	Orange
19[67]	23[69]	CAAGTTACAATTTCTTAATCAATCGCTGAG	31	Purple
19[109]	23[111]	ATGTCGACATCGCAGATAGACTTAACCTCA	31	Pink
20[90]	36[91]	AAAAATTTAGCTCTCAGGGAAGATCGGTCCAGCCATAGCTGA	42	Pink
21[39]	2[35]	AACCTCATTTCAACAGAGATCACCTACTATGGTAACCAC	38	Dark Gray
21[60]	2[56]	CAAAATCGCGATTAAACAGCAAAATACGTATAGTGTAGC	38	Green
21[102]	2[98]	AGAAAAAAAACCTGCCGAGCGTTGCAGCAATAAATC	38	Green
21[123]	2[119]	AACGGCGTTTGGTGCTAGATGCCGTTTGCCCCGAAAT	38	Green
23[18]	24[31]	TTTCCCTTAGAATCCTTGGCT	21	Dark Gray
23[49]	43[52]	AGCTTAGGAGACTAAGAACGCACTGAACATGAAAATACATAATTC	46	Blue
23[70]	9[83]	AAGAGTCAATAGGTGGAAACAATGCGTC	28	Blue
23[91]	38[91]	CCACGGGTGCCAAGGCTGGCGGAACCT	28	Orange
23[112]	43[115]	CCGAAAAACGTTGTTGCAAGGACGCAAGTGATGATTAGATAACA	46	Yellow
23[123]	4[119]	CGGGAATTTGCGAGCTCTTACGGGGTTTGCCAGTGAG	38	Orange
24[30]	43[31]	TAGGCAAACTCAGAGGGATTTTTTCATATAATTTT	35	Blue
24[41]	4[35]	AACCTCCGAAAAACACTCTGTCCCTTACGCCCTAGCCACCGGAACGGT	49	Dark Gray
24[62]	4[56]	GGTCTGAATTAAGAATATGTGAGAATACGTCTTTATCCATCAGATTAAA	49	Blue
24[76]	43[73]	TTATCAAAAATATAGCGATTGAGAGAAGTATGTTCAAA	39	Blue
24[104]	4[98]	CGGCCAGAACGGATTCTCGTCAAGTTGATCTGCCAGGCCAACATTGCCC	49	Yellow
24[135]	23[122]	GGGTTTTCCAGTCACGCAAT	21	Orange
25[84]	24[77]	TACGCCACTTTCAGAGTGAAT	21	Orange
27[32]	45[31]	GAAATATTATATCAAGACGGAATACTT	28	Blue
27[46]	24[42]	AGAAATGGTTAAGACAACCTTTTT	24	Blue
27[53]	45[52]	GCCCCAGTTAGCACCCAGGGAGGGGAGC	28	Dark Gray
27[67]	24[63]	ATATTCATCTCTTTTCAATCATA	24	Dark Gray
27[74]	44[73]	TAGCTCTTCTGAACTGGGC	21	Orange
27[84]	11[83]	TCGACTGTGGGCTCTTCTTCTTTTGGCTTGAGCGACGA	42	Yellow
27[109]	24[105]	CCGCTTGGGATGTGCAAAACGA	24	Orange
27[116]	45[115]	TGGCAATATGGAGAGATGAATATATTTG	28	Orange
28[30]	47[31]	AGATAGGCACTCCGACAAGCGTAGCACCGAGCG	35	Light Green
28[51]	48[49]	CTCCAGTAATCGGAGGTAGGAATACCAATGTTTCATCGAATCACC	45	Dark Gray
28[72]	47[76]	CTTTACCGAGCCTTATCATAGCAAATTAGCAAGCCCCC	38	Purple
28[114]	48[112]	GCCATGGGATAGAATCGATCAGAACGAGCTTAGATTAACCATAAA	45	Cyan
29[84]	13[83]	CGTGGGATATCGGCCTCAGCATTCGCTGTTAGAAATATGGGT	42	Blue
30[58]	15[62]	AGATTGTTTGTGCGGAAGCCCGAA	24	Orange
30[100]	15[104]	GAGCGGAACGTCGGTGGGTGCCA	24	Cyan
31[14]	27[24]	TATCAACAATAGATATCGAGATGAATTATCGCCAAATA	39	Blue
31[42]	27[45]	AAAAATAAATAAACTTCGAGCAACAGTATACT	32	Purple
31[63]	27[66]	TTTACGATAATTTCTTATAAAGACCAGTATATC	32	Dark Gray
31[77]	16[77]	GAAACGTTAAATCACAAACCGTCGGAATAATGGACTTGAG	42	Cyan
31[105]	27[108]	CAATAGGACATTAAGACCGTAAGTTTGAGGCA	32	Dark Gray
32[48]	35[45]	CAAGAACTTCATCGCTTTTACTAT	25	Pink
32[76]	35[66]	AATAATCGGCTGTGCGGCCACGGTATTTTTT	32	Dark Gray
32[90]	48[91]	TAAATTTAGGTCAATCATATGCCGGAAGGCAAGCTTTACCC	42	Pink
32[111]	35[108]	ATATTTTGTGATAATGAACGTATT	25	Cyan
32[139]	36[129]	TAAGCAAAATTTAAAAACACTGGAGCGGCTATCAGTC	39	Light Green
34[90]	50[91]	AGCATATCGTAATGCCGAGACATGTTTAGAGTACTAGACTG	42	Orange
35[46]	39[48]	TTTCAAAATAGTCAAAAACCTGATTGAGTT	31	Dark Gray
35[67]	39[69]	CTTACGAGCCCTTTACAAGACGGGAGCAAG	31	Purple
35[109]	39[111]	TTTATATTCAAGTAATGGATAAAATCGGTTG	31	Yellow
36[90]	52[91]	TAAATCTAAATTTTAAATGCAGTCAATATCTGGAATAGTAA	42	Blue
37[39]	18[38]	AACAACAGCCTCATAATGGGCTTATACAGTAAATA	35	Yellow
37[60]	18[59]	AGCTAATTTGTGTTTAGTAAAGCCATCGGGAATTA	35	Pink
37[102]	18[101]	CTGACCGTTGCTTTCCGGGACGGGCTTTGGCA	35	Orange
37[123]	18[122]	ATTTACCAATTGCCGGAACGTGCAAGTTAACCGT	35	Blue
38[90]	54[91]	CATATAAGCCTCAGAGCATAAGCAAAATGGGCGCAAAACGA	42	Purple
39[18]	54[31]	TATCAGAGAGATAACCCAGCCGAAATAATAAGATA	35	Dark Gray
39[49]	59[55]	AAGCCCAATTTTAAGGAAGTGGGTTTTGCTATTATCGATCTATCAGCGG	49	Orange
39[70]	25[83]	AAACAATGAAATAACAGGGAATTGCTAT	28	Orange
39[112]	59[118]	TACCAAAATCAGGCGCATCAAGGAAGAAGATTATTACAGACAGGGAAC	49	Blue
39[123]	21[122]	TTATATTTACGATTAATTCAGGCATCA	28	Purple
40[41]	21[38]	AGCAGATACAAGAAACAAAGTCAATCGCTGAAATAAGAA	39	Cyan
40[62]	21[59]	AAGCCCTATAATAAAGAATTAGAGAAAATCTGACCTTAA	39	Green
40[104]	21[101]	AGAATTAAGCTAAAATTTTAAAGGGGGAAGGGCAAAG	39	Dark Gray
40[135]	39[122]	TAACATCCAATAAATCAAACA	21	Blue
41[84]	53[73]	TTCATTTTAAGCAATAAGCAATAGCTATCTTATTAGAGAAGGGTAT	46	Cyan
42[83]	27[83]	TAGCTCATAAACATAAACGAGCTAGAAGA	28	Pink
43[32]	61[34]	GTCTTGAGTAAGCCAGAAAAAAGATCAGCT	31	Blue
43[53]	61[55]	ATAAGTTTTACTCTGAATTTACGATTTCTT	31	Pink
43[74]	61[76]	GACTACAGAAAAGCGTCAGGAATTCGATAGT	31	Light Green
43[116]	61[118]	GTGCTCAAAAGCAGGATGATAAAATACCAA	31	Yellow
44[37]	17[38]	TGATTAGTTGGCGAACCAAGGATAAACGTAAAT	35	Blue
44[44]	40[42]	TAAATAGAAACATAAAGCCCAAAAAAAGTA	31	Orange
44[58]	30[59]	TGAGTACAACATAAGAAAAGAGAAGTCC	28	Cyan
44[65]	40[63]	AACCCAGCGCAGCAACAAGACTCCTTACCG	31	Blue
44[72]	63[76]	GACGCACCATCCAGCATACCAGAACCACAAAGGGTAG	38	Green
44[100]	30[101]	CAAGGGTAGCGTAATCGGGGATTATGT	28	Orange
44[107]	40[105]	TGTTCCATATACATTTCAAAGGTGAAGGCAA	31	Pink
44[121]	30[122]	GCTCTACAAAAACAAGAGGTCACGCCA	28	Yellow
45[32]	63[34]	GAGTGATATTCTCAGAATCGGTGCGCGGGAT	31	Blue
45[39]	31[41]	TTGCGATAGCTTTTATTGGGTATTGAACAAG	31	Dark Gray
45[53]	63[55]	CAGGCGAGGTGCCAGGACGCCACGGCGAAAG	31	Light Green
45[60]	31[62]	ATCAAACTGTCATTACCTTTCTTATCCTAA	31	Blue
45[84]	29[83]	GGATTAGTAAATATGCAACAATTACCAATAGAAGAATTCTC	42	Green
45[102]	31[104]	AATAACCAGATACCCCGGTTAAAATTTTAAAC	31	Blue
45[116]	63[118]	ATAAGGGGTATATTACAGGAAGTTCATGA	31	Pink
47[14]	43[24]	TCAAGTTTGCCTTTAATCAGGTACCGTATTTCATAAGT	39	Cyan
47[42]	44[45]	GCGGTTAAACCATGGAATTAAGG	25	Light Green
47[63]	44[66]	CGGTCATAGGCCGACCAAGTAATTC	25	Blue
47[77]	32[77]	TTATTTAGTCAGAACAACTCCAACCCGCAAAATCTTCAATC	42	Blue
47[105]	44[108]	ATCAAAACAAAGCGTGCTCCTATGC	25	Blue
48[48]	51[45]	GGAACCACCTCAGACAGACGAGCGC	25	Cyan
48[76]	51[66]	TTGCCATCTTTTCAAGCCGCTGACAGGTTCC	32	Light Green
48[90]	63[97]	GTCAATCAGTCTAATACTCGGAAAGAGCTTTGA	35	Pink
48[111]	51[108]	TCAAAAGTCAATAAATAGTATTAC	25	Pink
48[139]	52[129]	CAGTTCAGAAAACGCCCTCAAGAAGTTCAAATAATGC	39	Orange
50[90]	61[97]	GATAGGAGCACACTATCATAAGCGACCTCATCTTT	35	Blue
51[46]	55[48]	AGTACGGGGTTCGGAACCTCAGTAGTGTATC	31	Yellow
51[67]	55[69]	AGTGTGACTCATGAAAATTAGGAGTTTAGT	31	Orange
51[109]	55[111]	CAGAGGAATTTAGAAAAAATCTATCATTGT	31	Orange
52[79]	42[84]	TGAATAAAGTACGGTGACCTGTT	24	Dark Gray
52[90]	59[97]	GAGCATTAGCGGAACAACATTGGCTGACAGGCGCA	35	Light Green
53[74]	58[84]	TAACAGCCCTGGAACAACCTTAGCCGGAACGCTTCATC	38	Dark Gray
54[30]	59[34]	AGTGCCCCCTTCCAGAGCTAAAC	24	Cyan
54[90]	57[97]	ACTAAACATGGTTTAATTTCATAGTAAGAACC GG	35	Purple
55[18]	57[34]	TGATATAAGTATAGCTTTTACAGGAACACTG	31	Yellow
55[49]	57[55]	ACCGTACCCCTCAGATACAAAC	21	Light Green
55[70]	41[83]	ACCGCCACCCTCAGTCCTCAACGATATT	28	Purple
55[112]	57[118]	GAATTACGACGAGAAATCAAC	21	Light Green
55[123]	37[122]	TGCGACGTTGTTCTACTTTTGACCAAAG	28	Purple
56[41]	37[38]	CCCTCATGGAATAGCCAGGCGGGAATAGTGGCAAGTTT	39	Green
56[62]	37[59]	CCGCCACTCAGGAGTTAGCGGCATGATTGTAGAAATAGC	39	Dark Gray
56[104]	37[101]	GAACGAGACTTAAACGTTAATGAGCTGAGCAAATGATGC	39	Blue
56[135]	55[122]	TGAATAAGGCTTGCCCTCTTA	21	Light Green
57[35]	44[38]	AGTTTTCGTCTGCTTATTCAGTGCCACAATCAATAT	39	Blue
57[56]	44[59]	TACAACGAGCGTAATCTGAAAGGTAATATGCTTACCAT	39	Blue
57[77]	57[76]	CATAACTTTGACAAATGGGCTTGAGAACTGCCATTCCTCA	42	Blue
57[98]	44[101]	ATATTTCAATAGGCTATTACAGACGAGCGCTTTCATAGCT	39	Orange
57[119]	44[122]	GTAACAAAACGGTGCGAGTTGATACATAAGATTCCCAATT	39	Green
58[83]	52[80]	AAGAGGAGAGGCTGTTGA	18	Light Green
59[35]	45[38]	AACTTTCTCTCCAATGGAATTTGGCTCCAT	32	Green
59[56]	45[59]	AGTGAGAATAATTTTTACCAGGTTGACAAA	32	Cyan
59[98]	45[101]	GACGGTCAAAATCCCCCTCGTAAATGTTCTTT	32	Pink
59[119]	45[122]	CGAATTCGATCGCCTCAAAAACCTTGCCAGAGAG	32	Light Green
60[44]	56[62]	AAAAACAGTTAAGTTTTTACCAGGCCACCA	31	Cyan
60[65]	56[63]	ATAATAGAAACATAGTTCTCTGTAGCTCAGAA	31	Purple
60[107]	56[105]	GTCAATCATACAGGCGCTTACCCAAACACCA	31	Blue
61[35]	47[41]	TGCTTTCGATATATGCCCTACCGACGACACTGTA	35	Cyan
61[56]	47[62]	AAACAGCAACCATCCCCCTCAGTAATCAAGCATTTT	35	Green
61[77]	45[83]	TGCACTAAAACACTGCTCCATGTTACAAATACATGGCCCGGTAGGTCA	49	Yellow
61[98]	47[104]	GACCCCCCTAAAACGGAATCTCAGGTGCGGATTGC	35	Yellow
63[14]	59[24]	TAAAGGCCGCTTTTCTGAGGCTCGGTTGCTCCAAGGAT	39	Light Green
63[35]	60[45]	CGTCACCTCAGCACATAACCGAGGTGATTGA	32	Blue
63[56]	60[66]	ACAGCATCGGAACGTGACAACTTGATACGCGA	32	Green
63[77]	48[77]	CAACGGCTACAGAGGGCAAAAGAAATACGCCACCCTAAGCGT	42	Blue
63[98]	60[108]	GGACTAAAGACTTTGCACCAAAGCGATTTTGT	32	Yellow

Start	End	Sequence S4 (6-layer 10-helix-per-x-raster block)	Length	Color
0[55]	4[45]	TCGAGGTGCCGTAAAAAGCCGGCTGCGCGTTGCTTTTAGA	39	008000
0[76]	4[66]	CCCAAATCAAGTTTAAGGAAGCTGGCAAACGTGCTGGAG	39	008000
0[97]	20[91]	GGCCCACTACGTGAGGCGAGATAGGGTTAGGCAAAGCCAGTTATGGGCG	49	008000
0[118]	4[108]	AAAACCGTCTATCAGTTCCAGATCCCTTAGCGGTACACAG	39	008000
0[139]	4[129]	GACTCCAACGTC AACCACTATGGTGGTTCCAGCAGTTTT	39	008000
2[55]	20[49]	GGTCACGCGAACGTTTATTGTTTACATATCGCGC	35	008000
2[76]	19[83]	TAGGGCGGGAAGAATTAGAACACGGATTTCGCCTCG	35	008000
2[97]	17[94]	AAAAGAATAGCCAGCACCCCTGAGAGAGTGGTAACGCAAC	39	008000
2[118]	20[112]	CGGCAAATTTGGAACCGCTTCCAGTATCGGATAGG	35	008000
4[34]	17[31]	ACGCCAGGCGCGTCGGAATTATTC	25	008000
4[44]	9[48]	CAGAGTAAAGAAGAACTGCAACAACCAAGTCGACCTGA	38	008000
4[55]	17[52]	GGGATTTGACGAGCCAAAGAATGTT	25	008000
4[65]	9[69]	GCCCGCAAATATAACATGGAATAATTATTTGTGGCAC	38	008000
4[76]	17[73]	CTAAACATTCCTCGTAACATTTAAT	25	008000
4[97]	15[94]	TTCACCGCTGGGAATCATTGAATGAATCAAGTGTCTGTA	39	008000
4[107]	9[111]	CTGGCGGGGAGTCGGGAAAGCCTCCGCTCAGGATCCC	38	008000
4[118]	17[115]	ACGGGCACACGCTGTGCTGCAGGTG	25	008000
6[34]	23[31]	ATCGGCCCACTGAGATTTGAGGACAACTCTTAGGTCCTT	39	008000
6[55]	23[52]	CTGAGTAGAGTCTGAGAGCCGTGCCCAGACTACCAGCG	39	008000
6[76]	23[73]	ATTAGTATAACCGTAGCACTAAAAAGTTATCAAAAGCTG	39	008000
6[97]	13[94]	TCGTGCCAGCTGACCTAGCCGGAAGCATCATCTGTTGAC	39	008000
6[118]	23[115]	GCTTTCGAGAGGCGTGAATTAAGCTTTAACAGGACGCA	39	008000
8[34]	25[31]	CAGTAATTTACCGCACCTCAAGGCAAATGTGATAAGCTG	39	008000
8[55]	25[52]	CAGATTCGAAAAATCTAAAGAATTGAGATGGTTTAGAC	39	008000
8[76]	25[73]	GAAATGGCCTACATGAGCCAGATATCTTTCATCTTTTT	39	008000
8[97]	9[90]	ACACAACATACGCATGTTACC	21	008000
8[118]	25[115]	TTGTTATGGGGTGCATACCGAACCCCGCTATCAGGAAAC	39	008000
9[18]	10[31]	GGCCAACAGAGATAGAACGCC	21	008000
9[49]	27[52]	AAGCGTAGAACTGATATTAACGGGCTTAAAAA	32	008000
9[70]	8[77]	AGACAATATTTTTCTATCGTCT	21	008000
9[91]	29[90]	TCGATAACTTAAGCTATAGGGCAGTCAAATCACTTTTTCAAC	42	008000
9[112]	27[115]	CGGGTACTGGTGTAGACGCATAAGGGTGGCTG	32	008000
10[30]	27[31]	ATTAACAGATATTTAAACCG	21	008000
10[41]	8[35]	AAAACATCCCTCTACACGAC	21	008000
10[62]	8[56]	AATGCGCAGAATACACATTGG	21	008000
10[104]	8[98]	AACAGGGAGACGGACAATTCC	21	008000
10[135]	8[119]	AACTCTGACCTCCTGGTCGAGCTCTGTGAAA	31	008000
11[84]	27[73]	GCACGAATACGTGGTGTGAATGGCTATTTGCCACGTAAAGCCTGCG	46	008000
13[84]	6[77]	AACCTTAAAGCAACTCGTCGATTTGACGTTCTTTG	35	008000
13[95]	27[90]	AATTCTGGAGCAAATATCCATCA	24	008000
15[46]	10[42]	CTTTCAAATAGTGAAAGGCATCACCCGGTCAGTAGCCCT	38	008000
15[67]	10[63]	TTTACAACATACTAAACAGCAAAGCAACAGAGTCTTT	38	008000
15[84]	4[77]	ACGACGCTTAGTGCTGAAGGTGTAGCAGCGGGAG	35	008000
15[95]	25[90]	AAAAATATTTAAATTAGTTAAGAG	24	008000
15[109]	10[105]	GCCCATGCGCCAAAATACAGTGCATCGGCTATGAGTA	38	008000
17[32]	39[31]	ATCTTCTGTAGAAACAACCTGAACAGAG	28	008000
17[53]	40[49]	TGGTATGTGAAAATTAACGGGAGAGTTAAGCCCTTTT	38	008000
17[74]	39[76]	GGAGAAACAGTTCATTTTAAAAACACAAGAAA	31	008000
17[84]	2[77]	GGTCGCGCCAGGGTTTTCCAGTTAGAATCGGGCGC	35	008000
17[95]	23[90]	TGTTTTCTGTAGCCATTATGTAAA	24	008000
17[116]	40[112]	CGGAAAAATAAGTAACATTAAGAGCCCTGACATCCCC	38	008000
19[14]	15[24]	GTTTAACGTCAGATAATTGCGGATGGCAATCATCAACAA	39	008000
19[42]	15[45]	AGTACCTCACGTAATCCTGATACCACCAAATC	32	008000
19[63]	15[66]	AACAATACTACCATTTCGAAATCATTTTAAT	32	008000
19[84]	0[77]	TGCATCTGCGCCATTGCGCGGAGCGAAAACCATCA	35	008000
19[105]	15[108]	ACGACGATGGTGCCGCGCATCAGCGCATCAGT	32	008000
20[48]	24[45]	AGAGCGGGAACAAGTGAATAAAAAACATTTTT	32	008000
20[69]	24[66]	TACCAAGTAACAATTACATAATTAAGACTCAT	32	008000
20[90]	40[91]	CATCGTACTGCTTTTCATCAACTTCAAATAAATCAACAGTTCA	42	008000
20[111]	24[108]	TCACGTTGTGAGCGATTTCGCGTAAAAATTAGAT	32	008000
20[139]	24[129]	AACGCGGATTGACGGATTCTATAGGAAGTTAAATAGAA	39	008000
23[32]	59[34]	AGAACAGCCATTTTTGTTATAAAACGAGGAAGTCTTCTTTTGCT	45	008000
23[53]	59[55]	ATAAATTTGCGAAAATAACATACAGAATACCGTAACGAAGTTTCA	45	008000
23[74]	59[76]	AGAACGAGCGGAGAATAATGTTAGTGATTAAACAGACAGGAAAGGA	45	008000
23[91]	42[91]	CGTTAATATGGCTTAGCGAACTTGCAAA	28	008000
23[116]	59[118]	TTAGATAAGAAGTCCAAAACCAATGTTTAGTATCGGTGTTGAAA	45	008000
24[44]	29[48]	TAAAAATCGCAGAAATACTACTAGAATTGAGACCAGTAA	38	008000
24[65]	29[69]	AGGAGAAAACCTGACCTTATCATAAACGCTCGTACCGA	38	008000
24[107]	29[111]	TGTAATCGTATCATTGCCGTTCTAAGAAAGTTTTAGA	38	008000
25[32]	57[34]	ATGTCGGACTAGTTGCATTCATTAGTTTATTCATTTTCCGTAAC	45	008000
25[53]	57[55]	AAACGCGAGGCTACAATAGGTAATAGAAAACCACTCCAGTAC	45	008000
25[74]	57[76]	TCAGCTTATCTACCAACTCAACCCAGCGCCGAACCGCGTAGCAT	45	008000
25[91]	44[91]	AATCGATACGAGTACTGTAGCTCAACTA	28	008000
25[116]	57[118]	TAGAGTTGATATATGCATGAGATTAGGCATATTGCAGGAACAAC	45	008000
27[32]	55[34]	GAAAGTACCGTTCATCGTAGCGACCTTGAGCAGGCGGAGCCCGG	45	008000
27[53]	55[55]	GCCCCAAGAAGCGCCACGATAGCGAGCCAGTAGCGGGCTACTC	45	008000
27[74]	55[76]	TTACGGCTGTAGATATAAAACGTCGCACCATCCTCAAGCGCCACC	45	008000
27[91]	46[91]	ATATGATGCATTAATTTGCAATTATAC	28	008000
27[116]	55[118]	ATATCAATCTGTTTAGTGCGATTTAATAAAAAGTTTCGCAACGG	45	008000
29[18]	30[31]	AATTTAGGCAGAGGCATGAAC	21	008000
29[49]	53[55]	TAAGAGAACACATAATTTACGAGCCACGGCATTTAGTTTTACTGAAAC	49	008000
29[70]	11[83]	CAAAAGGTAAAGTAACCACTACTGGTGG	28	008000
29[91]	48[91]	GCAAGGATTGCGGGGCAAGATAAGGCT	28	008000
29[112]	53[118]	ACCCTCACATTATGGCAATAACAAAGCTAAATTGGGCGAAACATACACT	49	008000
29[123]	6[119]	TTTGATTCAATTACATCTCTATGCTAATGAACTGCC	38	008000
30[30]	53[34]	GCGAGAAAAACCTCAGAGACTGTTTGAGTACCTATTT	38	008000
30[41]	6[35]	TAATGCATTTGAGATCGCCAGGTGAGGTTGCTGACAGCCATTCAAAC	49	008000
30[62]	6[56]	ACAATAAATATAAAAAACAGTAACCGCCTTGAAAAACGCTCATCACTGC	49	008000
30[104]	6[98]	AATACTTTAAAAATCCGGAGAGCCTTGAGCCCTGCAAAGTGTAACCTG	49	008000
30[135]	29[122]	ATCGGTTGTACCAAAAATATA	21	008000
31[84]	48[73]	AGGCAAGAGAAGCCTTTAATTCTGTCCACAATCAATAAT	39	008000
32[37]	4[35]	CCATCATAATCGACCGTCAACAGTATAATACGCCACCGGAACGGT	45	008000
32[58]	4[56]	ATTTGTTTAGAAATTTAGAAGGTTATAGATTTCCATCAGATTAAA	45	008000
32[100]	4[98]	GTAATTCAACCTGAGAGGTCCCGCAGCACTTGCGCAACATTGCCC	45	008000
32[121]	4[119]	GCAAATTAATCAAAGGCTTCTAATAGTGGTTGTTTGGCAGTGAG	45	008000
33[84]	13[83]	AGATACACATCCAATAAATATTACAAATGTTAATTTATTGTC	42	008000
34[37]	2[35]	ACCCAAATCCCTCCGGCTATTAGAAGGAGACTATGGTAACCAC	45	008000
34[58]	2[56]	GAAGAACGCGTCTGAGAAGCTTATGCGGAACGTATAGTGTAGC	45	008000
34[100]	2[98]	CGAGAACGGTATAAGCACGACGGCTAAGTTGTGCAGCAATAAATC	45	008000
34[121]	2[119]	AACCATGTCACCCCAAACCTCAGGAGGGGATGGTTTGCCCCGAAAT	45	008000
35[46]	30[42]	CAGCGTTTTACATTACCCGGGTATCCATCCTGTTGAGC	38	008000
35[67]	30[63]	TCTCGGTATTGCAAACTCTTTCCTTAGAAACGACGACG	38	008000
35[84]	15[83]	TATAATGGATTTAGTTTGAAGAATATATTGAATTTTGAGTC	42	008000
35[109]	30[105]	TAATCCCAATAATAACCTACTAATAAATTAACCCCTGT	38	008000
36[37]	0[35]	TAAATCCTTGACCTTGCAATATAAAACAGAAACGGGAAGCACTA	45	008000
36[58]	0[56]	CCTGCTTAGAATCAATAATTATACATCAAAAGGCGAGATTTGGGG	45	008000
36[100]	0[98]	CGGATTTTGTCTGGCCTGGGAAGGAAACCGAGTGTGGGCGAT	45	008000
36[121]	0[119]	TTTAATTTTTCGCCATCGCCTCTTCCGGCACAAGAGTAGGGCGA	45	008000
37[84]	17[83]	GCTTCAAAGAGCTTAATTGTAAGAGTCATTTAATGAGATTCA	42	008000
38[37]	19[41]	CACACATCAAAATTATTAGTAAC	24	008000
38[58]	19[62]	TAGTTACATTTTACAAACGGGAGA	24	008000
38[100]	19[104]	GACATTAATGGTGTAGTGAGGGG	24	008000
39[14]	35[24]	AGCGCTAATATCAGAAAGTCAAAACGATTATTATTTCAA	39	008000
39[42]	35[45]	AGAATTGAATTAACCAAAATCAGTTACCACC	32	008000
39[63]	35[66]	ATAAGAGGGGAAGCTTACAGATCTTTCCTGAA	32	008000
39[77]	20[70]	CAATGAATGACCATATCGCGTTTTAAATGAATACACGATTGCTTTGAA	49	008000
39[105]	35[108]	GTCTTTAGAAAGCCGAAGCAAGGTCAATTGTTT	32	008000
40[48]	44[45]	TAAGAAAAATAACGTAAAGGTCAATCAATATT	32	008000
40[69]	44[66]	CTATCTTACTGGCACAACGTGGTTTACGATT	32	008000
40[90]	59[97]	GAAAACGTATTTTGCCAGAGGTGAGGTTGCGAAT	35	008000
40[111]	44[108]	TCAAATGAGTAAAAATAGCGAAATTACGTAGG	32	008000
40[139]	44[129]	ATCGTCATAAATATAGCGTCCCAGACGACAACACTAAAG	39	008000
42[90]	57[97]	AGAAGTTAAGATACATAACGCTTTTGCGGATAGTT	35	008000
42[121]	20[122]	AAACAGGTCAAAAAAGAACCCGTCGTA	28	008000
44[44]	49[48]	GACGGAATTAAGCACCGTTTCATCCACCGGACCCCTCAG	38	008000
44[65]	49[69]	GAGACCAGTAACCAATGTAGCCCCAATCACCCACCCAC	38	008000
44[90]	55[97]	ATGCAAGAGAGGACGTTGGGAAATACGTGACAGCA	35	008000
44[107]	49[111]	AATTCTACGTTTAAGAAGAGTAGTGCTCATTTGACCTT	38	008000
46[90]	53[97]	CAGTCCACCTGACGAGAAACAATTTGTATAAAACG	35	008000
48[72]	53[76]	CAACTTATTATACAGGAAGGCTGA	24	008000
48[90]	51[97]	TGCCCATAGACAGGCGCATAGACAGATAATCCGC	35	008000
49[18]	51[34]	GAACCGCCACCCCTCAGATCACAAGCGCAGT	31	008000
49[49]	51[55]	AGCCGCTCAGACGTTCCAGT	21	008000
49[70]	31[83]	CAGAGCGCCGACCTTTTTCATACATAC	28	008000
49[112]	51[118]	CATCAAGAACTGACTACTTAG	21	008000
50[41]	32[38]	TTGATATGCCACCAACCGCTTAAATATCTAAA	32	008000
50[62]	32[59]	AGGCAGGACCAGAAGGAACAGAGCATGTATC	32	008000
50[104]	32[101]	GAAAGAGGGCTGGCCAGTGAAATTAGCAAGTA	32	008000
50[135]	32[122]	CAATCATAAGGGAACCGAGTAATCAACGTAAGCCCTCAGGTG	42	008000
51[35]	34[38]	CTCTGAACAGTGCCAGCGCTTAATCAGTAGGAATGCCA	39	008000
51[56]	34[59]	AAGCGTCGGTAATATCGGTCAAAACCATATAGCAACTAA	39	008000
51[77]	51[76]	ATAAATTTGTGTCGAGAACGGTGTGAGCATTGACAGGCTTTTG	42	008000
51[98]	34[101]	GACCTGCAACGGAGCCAGAACCTGGCTCAATGGTCTCTG	39	008000
51[119]	34[122]	CCGGAACACCAAGCGCTTGAGTACCTTACTATATTATAT	39	008000
53[35]	36[38]	CGGAACCTCAGTACCCATTTGGGAAATTTATTTTGAAAA	39	008000
53[56]	36[59]	ATGAAAGTTAGGATCAAAATCGGAGGGATTTATCCAGAG	39	008000
53[77]	33[83]	GAAAGGCACCAACCTCATCGCCTGATGAGCGTTTGAGGCGGGGACCATT	49	008000
53[98]	36[101]	AAAGAGGCGGGTAAAGAAAAAACACATTCAACATTTTG	39	008000
53[119]	36[122]	AAAACACCATGAGGACGAACCTCATCAGTACTAAAGTCCT	39	008000
55[35]	38[38]	AATAGGTACCAACCTTTGTGAGGCAACATTAACGTTGAA	39	008000
55[46]	50[42]	CACGTTTTGCTATTATTACGGGGTTTTACCGATTGGCC	38	008000
55[56]	38[59]	AGGAGGTAGAACCCTTCATATAGAAAAATGCAGCCTGCAT	39	008000
55[67]	50[63]	TACAGAAGGATATTAAGGTGTACTATACATGGAGGTTG	38	008000
55[77]	35[83]	CTTCAGCAGCGAAAAATGCCACTACGCTTACCATTGGCGACAGCCTGAA	49	008000
55[98]	38[101]	TCGGAACAGGCGCCCAAAAGGGAGGCTTCAGACCGGAAA	39	008000
55[109]	50[105]	GTACATTAACAAAAAGAAAGTACTCCATGTCAACTTT	38	008000
55[119]	42[122]	CTACAGACTGAGGCGTAAGAGCGAT	25	008000
57[35]	39[41]	ACTGAGTTTTTGTACGCAATAGTAAGCACCCACA	35	008000
57[56]	39[62]	AAACTACAGTTAGCCAAAAGAACCGAAGCCCAATA	35	008000
57[77]	37[83]	TCCAGCTTGATACCGGATCGTACCCCAAAAGACAACGCAGTACTTCGA	49	008000
57[98]	39[104]	GCGCCGACTTGCTGGGTAATCTTTAAAAAATCAG	35	008000
59[14]	55[24]	TTTTCTGTATGGGACAGAGCTCCATGTACAGGGATTAAAG	39	008000
59[35]	55[45]	AAACAACCTTCAACTCTAAAGTTCGTACAGAGCCGTAT	39	008000
59[56]	55[66]	GCGGAGTGAGAATACCTCATAACGCCTCACCTCTTAG	39	008000
59[77]	40[70]	ACAACATAAGGAATGAATTTCTTAAACAGACTCCTAGAAATAGCAATAG	49	008000
59[98]	55[108]	AATAATTTTTTCACTTATCAGCAATGACGAGTTAAGAGG	39	008000

Start	End	Sequence S5 (4-layer 16-helix-per-x-raster block)	Length	Color
0[55]	4[45]	TCGAGGTGCCGTA AAAAGCCGGCTGCGCGTTGCTTTTAGA	39	Green
0[76]	4[66]	CCCAAAATCAAGTTTAAGGAAGCTGGCAAACGTGCTGGAG	39	Yellow
0[97]	31[94]	GGCCCACTACGTGAGCGGAGATAGGGTTAGTAACATCAT	39	Red
0[118]	4[108]	AAAACCTGCTATTCAGTTCAGATCCCTTAGCGGTACAG	39	Green
0[139]	2[129]	GACTCCAACGTCAACCACTATGGTG	25	Orange
2[55]	32[49]	GGTCACGGAACGTACGACAAATCCCATCATTTCA	35	Blue
2[76]	31[76]	TAGGGCGGGAAGAATAAAGTAATGTAGA	28	Orange
2[97]	29[94]	AAAAGAATAGCCAGCACCTGAGAGAGTGACAGTAAAC	39	Orange
2[118]	31[115]	CGGCAAATTTGGAACATCAACCGCC	25	Orange
2[128]	8[129]	GTTCCAGCAGTTTTACGTATTGGTGCGCTCGTGAGCTTTTC	42	Grey
4[34]	29[31]	ACGCCAAGGCGCGTTGAGAATGGCA	25	Grey
4[44]	10[45]	CAGAGTAAAGAGAAGAACTGCAACAACCACTCGACCTGAAAC	42	Grey
4[55]	29[52]	GGGATTTGACGAGCGCTCAAGTAA	25	Purple
4[65]	10[66]	GCCCGCAAATATAACATGGAATAATTATTTGTGGCATGCG	42	Blue
4[76]	34[73]	CTAAACATTCTCTGTTCTTACCCGACAATTAT	32	Cyan
4[97]	27[94]	TTCAACGCCTGGGAATCATTAAATGAATCTCGGTGCAGCC	39	Cyan
4[107]	10[108]	CTGGCGCGGGAGTCGGGAAAGCCTCCGCTCAGGATCCCGCAC	42	Orange
4[118]	29[115]	ACGGGCACACGCTGCTGCCAGGGGA	25	Green
6[34]	27[31]	ATCGGCCCAAGTGAGACCTGCGGGA	25	Purple
6[55]	27[52]	CTGAGTAGAGCTGCAATTTAAAGC	25	Green
6[76]	36[73]	ATTAGTATAACCGTTTAATTTCTGTATACTTT	32	Yellow
6[97]	25[94]	TCGTGCCAGCTGACCTAGCCGAAGCATCCAAGCTTGGC	39	Orange
6[118]	27[115]	GCTTTCCGAGAGGCCCAACTTCTG	25	Green
8[34]	25[31]	CAGTAATTTTACCGCCTTAGGTAAAT	25	Blue
8[55]	25[52]	CAGATTCGGA AAAAGACTACCAACG	25	Blue
8[76]	38[73]	GAAATGGCTACATATCAAAAATATATTGCAT	32	Orange
8[97]	23[94]	ACACAACATACGCAATGAGCCTCCTCAGGTGAAGACGG	39	Orange
8[118]	25[115]	TTGTTATGGGGTGCGTTGTAACAAG	25	Blue
8[128]	13[129]	CTGGAATTCGTATACCAAGATGCCCTGCAGGTTA	35	Yellow
10[34]	23[31]	AAAATACGATAGAAAATCGTAAAA	25	Purple
10[44]	15[48]	ATCCGGTCAGACCTCAAGAATTGAGGATTTAGAACGTT	38	Green
10[55]	23[52]	AGCCCTAAAGCGTAAGTGAATTTAA	25	Green
10[65]	15[69]	GCGGCAACAGCTCTAAGAATATCTGTCAATATTTGAGT	38	Grey
10[76]	40[73]	GTCCTTTAAGACAATGTACATAATAGTGAACCG	32	Red
10[97]	21[94]	TCTTCGCTCCGTGCGAGTGTCACTGCGAAAAAACGCA	39	Green
10[107]	15[111]	GCGGCACCTGCCCCCTCACTGGTCTGGTAACAGGCGC	38	Red
10[118]	23[115]	TCTGCCACGGGTA CTGAGAGAAATC	25	Blue
12[34]	21[31]	ACCCTCAAAACAGACTGAGCAAAAA	25	Blue
12[55]	21[52]	TTGCTGATATTAACCGAATTATTTTC	25	Cyan
12[76]	42[73]	TGAAAAATGCCACGAGTTACATAATGGAAGAA	32	Purple
12[97]	19[94]	ACGATCCAGCGCAGAATCGTCATAAAACATCCTGAAG	39	Red
12[118]	21[115]	TGCCGGTGTGGTGCATCGACATTAA	25	Orange
14[34]	19[31]	TAGACTTTCAACAGTTTTTCAGCCTT	25	Purple
14[55]	19[52]	CATTTGAGGAAGGTGAAATAAATAA	25	Green
14[76]	44[73]	TAGAGCCTTAGGAGAAATTATTTTGAATGGAG	32	Cyan
14[97]	15[90]	AGGTTTCTTTGCTCCAGCAT	21	Grey
14[118]	19[115]	CCTGCGGGTGTTCACTGCGAGCTGA	25	Purple
15[18]	17[31]	CAACTCGTATTAATCCCTGATTGATT	28	Blue
15[49]	51[55]	ATTAATTGAGCGGAGAATAATTAA TCAGACCAGTATTGGCCTAGCGTCA	49	Yellow
15[70]	14[77]	AACATTATCATTGTAATAGAT	21	Blue
15[91]	47[90]	CAGCGGGGCTTACGAGAAGCTTAGAGAGTACCTTCCATCAAA	42	Red
15[112]	51[118]	TTTCGATAGGTGCTCTGGTCCAAACTCATTTTTGAAATGTTGAGAGG	49	Grey
16[41]	14[35]	TCATATTTTTGCCCCGAAGTAT	21	Purple
16[62]	14[56]	CCAGAAGTTAAAGGATAATA	21	Blue
16[83]	51[76]	GTTTGCGGAACAACTACCATAAACCATAGCAAGGAGTTGATGATACA	49	Blue
16[104]	14[98]	GCAACCAGTCATTGTGGGTAA	21	Green
16[135]	14[119]	AACGGCAGCACCGTCGGCTCAATCCTGTTGC	31	Blue
17[32]	51[34]	GTTAGTTTGCGGAATTA AAAATAATCTGAAT	31	Blue
19[32]	53[34]	TTAAATATCCAATCAACAGTGC CGCAACCT	31	Purple
19[39]	10[35]	GGGCAATTACGGTGAGGGCGATTA	24	Purple
19[53]	53[55]	CGGGGAAATTTGGTTTACCGGGTCTGAAAGT	31	Green
19[60]	10[56]	GCCGCAGAGGACCGCCTAACTGAT	24	Grey
19[84]	12[77]	TAGTGATCATAACGGAACGCACACTAACAGCAAA	35	Blue
19[95]	45[90]	GGTAGTACGGGTGCTCCCGTTAAT	24	Blue
19[102]	10[98]	TTAATCCCGTCGCTGTTGCCTGT	24	Purple
19[116]	53[118]	TTGATGTTTTATTCCAGGAATTATTTAGGA	31	Orange
19[123]	10[119]	TCCTGTGTA CTGCGCGGGGGTT	24	Green
21[32]	55[34]	TTAAAGACAAAATAACGTAAAGTG CATAGGTG	31	Blue
21[39]	8[35]	CATCTTCTGTCCCTTCTACACGAC	24	Blue
21[46]	16[42]	CAATTCATTTAGAAACAAGAAATTTACTTCTATTATCA	38	Blue
21[53]	55[55]	ATTGGCAACCACTGGCATTTTGTCTGGAGGTT	31	Orange
21[60]	8[56]	TTAATATGTGAGAATTACACATTGG	24	Blue
21[67]	16[63]	TTTAAATCGCTGATTGCTTGCACTGTAGAACGAAACCA	38	Red
21[84]	10[77]	AAAGAGAGCCGCACAGGCGCACTGAGAGGCTATTA	35	Blue
21[95]	43[90]	GAAGCTATATTTTCAAGAAGGAAG	24	Purple
21[102]	8[98]	CGGTCTCCGTGAGTGTGACAATTCC	24	Orange
21[109]	16[105]	AACTAAAAAAACGATGCCTCCGGGTGCTGGATCCCAC	38	Orange
21[116]	55[118]	ATTAATATGGTATCAATTAAGAAAAATGCGAT	31	Grey
21[123]	8[119]	CTCGAATTTGCGAGCTCTGTGAAA	24	Cyan
23[32]	57[34]	CATAGTTACCAACCCACAGGGTACTGAGTT	31	Purple
23[39]	6[35]	ATACCTCCGGCAGCCATTCAAACT	24	Purple
23[53]	57[55]	GACAGTAAGCGCCAATAGAGCCAAACTACA	31	Cyan
23[60]	6[56]	AGATCTGAGACGCTCATCATTGC	24	Cyan
23[84]	8[77]	CACGGGAGGATAGCTCTCACAATTTTTGATCGTCT	35	Purple
23[95]	41[90]	ATAGCAATAAAGCCTAGTTTTTGG	24	Blue
23[102]	6[98]	CACGCCAGTGAAAGTGTAAACCTG	24	Yellow
23[116]	57[118]	GGCGCAAGACCAAAAAGAAACAAACGTAA	31	Orange
23[123]	6[119]	CGTTCACGACCTAATGAACTGCCC	24	Grey
24[23]	18[24]	TTAATCCTTGCGCTATTAGAAAACAAGAAGACAGTAGTTT	42	Yellow
25[32]	59[34]	CCAGAGGGTATTTTTGTAGACGTTAACAAC	31	Blue
25[39]	4[35]	CAAAAAATACCGCACCGGAACGGT	24	Blue
25[53]	59[55]	CGATGAACACGAAATACTAAAGTCGGAGTG	31	Blue
25[60]	4[56]	ACTTGACCTATCCATCAGATTAA	24	Cyan
25[84]	6[77]	CGCCAGCTTCAGAGGTGGATTTTGTACGTTCTTTG	35	Green
25[95]	39[90]	GAAACCTCATATATCAATCAGAG	24	Cyan
25[102]	4[98]	GGAAGGCGGAGGCCAACATTGCCC	24	Green
25[116]	59[118]	GCGGCAAGGATAGGTAAGACCAGGAACCGAA	31	Grey
25[123]	4[119]	AGTCAGGCTGGGTTTGCCAGTGAG	24	Orange
27[32]	61[34]	ATCATTATTTCAAGATTAAGGCTCGCTTGCT	31	Purple
27[39]	2[35]	TTAGCTTAATACTATTGGTAACCAC	24	Purple
27[46]	21[45]	AAATGGTTTGGACAAAGTTTTTAAAGCTTAGAAACCTTGTTAA	42	Orange
27[53]	61[55]	CTGAGTTACAACCCAGCACGTTGACTTAAAC	31	Green
27[60]	2[56]	GTAAGCCAAACGTATAGTGAGC	24	Yellow
27[67]	21[66]	ATGCATCTTCTTTCAATCATAGGAGGTCAAATCAATCCTT	42	Green
27[84]	4[77]	GCACTCCGGCCTCTTCGAGTGTAGCAGCGGGAG	35	Green
27[95]	37[90]	AGCGCTGATAAATTA AAAATTTAA	24	Cyan
27[102]	2[98]	CGGGGACACTGCAGCAATAAATC	24	Green
27[109]	21[108]	GCTGTTGGGATGTGCTGAACGACGCGGAAACTAGACTTATCA	42	Blue
27[116]	61[118]	GTGATATGATGAGATCTAAATTTGTCAAGCGC	31	Orange
27[123]	2[119]	AAACGTGCATGTTTGCCCCGAAAT	24	Orange
29[25]	24[24]	TTACGCCATATAAACTGATAAACTGATGCTGGG	35	Grey
29[32]	63[34]	GAGCCGACTTGGCGTTTTGCTGAGATCGTC	31	Blue
29[39]	0[35]	TTTCATGTTACGGGGAAGCACTA	24	Blue
29[53]	63[55]	TAACGAGGCGGGAATACAGCATAAAGACAG	31	Yellow
29[60]	0[56]	ATACGAGCGGGCGAGATTTGGGG	24	Yellow
29[84]	2[77]	TGGGAACCTCGGCCCTCAGGAAATTAGAATCGGGCGC	35	Red
29[95]	35[90]	GGCAAACTAGCATGTATCTATGCC	24	Blue
29[102]	0[98]	TGAGTGAGCGGAGTGTTGGGCGAT	24	Orange
29[116]	63[118]	TAGAATCGATCAGAAAAAGGCACTGAGGAA	31	Grey
29[123]	0[119]	CGTCAGCTTTCAAGAGTAGGGCGA	24	Grey
31[14]	29[24]	TCAACAATAGATAAGCAGAACTAAT	25	Cyan
31[42]	27[45]	AAATAATTAAACAACGAGCCACAGTAGGCTAG	32	Blue
31[63]	27[66]	TACGAGCATTTCTGTTAAAGTACAGTATATCAT	32	Yellow
31[77]	0[77]	AACCATAAATCAGCACCCGTCGGATTGGAGCGAAAACCATCA	42	Blue
31[95]	33[90]	TTTCGATTA AAATTTTTATCAATC	24	Cyan
31[105]	27[108]	ATAGGAAATTAATCCGTAATTTTGAGGCACC	32	Grey
31[116]	37[108]	ATCCGTTAATATTTTGTGTAAATGAACGGTTTTTGAATTCAACTAAT	49	Grey
32[48]	37[45]	AGAACCGCATCGTATTTTAGCATTTTGCAAAATAACAAA	39	Yellow
32[69]	37[66]	CTGTCTTGCCCAATGTATTTTATCTGAGCCTATTAC	39	Orange
32[139]	34[129]	AGCAAAATTTAAAAAACAGGGGAG	25	Grey
33[91]	63[97]	ATATGTAAGAGGCATGAGGAC	21	Purple
34[72]	63[76]	CCGAGCAAGCCAACTGACTGCAAC	24	Purple
34[128]	40[129]	CAACTATCAGTCAAATCAAAGGGTGCCCTTAAACCTGTATCA	42	Grey
35[91]	61[97]	GGAGAGGCTGCTCTTTGACC	21	Grey
36[72]	61[76]	CCAGAATCTTATTGCGAAGTTGCG	24	Green
37[46]	42[45]	AATCCTGAACGAGTTAAAGATAGCCAAAAGATATA	35	Purple
37[67]	42[66]	AGAACGGGAGGCAAGAACCTTTTGACTCCTACAT	35	Orange
37[91]	59[97]	ATGCAATGACCTTTCGCAACG	21	Green
37[109]	42[108]	GTGTAAAAATGGTTGATAATTAGCAAGGTGCCAAT	35	Purple
38[72]	59[76]	TAGGAGAAATACCTCATACAACCTAA	24	Cyan
39[91]	57[97]	CATAAAGAAATTGGCGGATAT	21	Green
40[72]	57[76]	AAGACAATGAACCTCACACAGA	24	Blue
40[128]	45[129]	TACTAGTAGTTAGATACGAACGAGTGCTGACTTA	35	Purple
41[91]	55[97]	GGCGGCAACGAACTTAATCA	21	Purple
42[44]	47[48]	AAATTCATATATTCATTCAAATCTAGCGACTCGGTCA	38	Purple
42[65]	47[69]	ACAAAAGACAAGGTAATACCAATTCGATAGCGGCTTTG	38	Grey
42[72]	55[76]	AATATTACGGAAGATTCAGAATC	24	Yellow
42[107]	47[111]	AACACAGTTGAAATATGAGAGGTCCAACAGGGCCCCGAA	38	Cyan
43[91]	53[97]	TTTCATTAGCAACAAGAAAGA	21	Purple
44[72]	53[76]	GGAAAAAGGCTGTACTGACTCCTC	24	Green
45[91]	51[97]	TGCTCCTTCCAATACGCGAT	21	Blue
46[121]	12[119]	AAGAGCAGCACTCGTCGGCAAAATCCAGCGG	31	Purple
47[18]	49[34]	TGTAGCGCGTTTTATCAGAGCCGCCCTCAG	31	Purple
47[49]	49[55]	TAGCCCCCACC GGCCACCAC	21	Grey
47[70]	16[84]	CCATCTTTTCATTGACCAATGATTGCCGACTTGTGCTGGAG	42	Green
47[91]	49[97]	AAGATTACAGAAGCTTGAATC	21	Grey
47[112]	49[118]	AGACTTCCTTTACCTAAACAG	21	Orange
48[41]	12[35]	TCCCTCAGGCATTTAGAATCATGGATTAGCGTAGATTGAAAGATATCAA	49	Blue
48[62]	12[56]	AGAGCCACTTTAAGCACGGGAAGGGTAAACATATCTAACATCACC	49	Orange
48[104]	12[98]	TTATAGTAGGAATCAGGATCAGCTGCGCAGAGCTCCCTTAGCATCAG	49	Purple
48[135]	46[122]	TAAATCAAAATCAGGTAAATATCCCGG	28	Grey
49[35]	19[38]	AGCCGCCACACAAGCAGGCCAGAAAGGTGCATC	32	Purple
49[56]	19[59]	CAGAGCCACAGACGACCACTATTGACATTC	32	Orange
49[77]	49[76]	CACATAAATATTCAAAGCGGATAATCAAAATCACGCATTGA	42	Cyan
49[98]	19[101]	CCCCTCAGATAGCGTTTGATACAACATAAAAG	32	Purple
49[119]	19[122]	TTCAGAAAAATGATCGGATGGGCTCAACCCGT	32	Orange
51[35]	21[38]	TTACCGTTGAGTAATAGAAAAGAAACGCATTA	32	Blue
51[56]	21[59]	TACATGGGTTTTAACAGCGCCTAAAGGTTGAA	32	Green
51[77]	19[83]	GGTCGTTTACCAGACTGCGGAATCGTGGCGGAAAGATTGAGACGCCTT	49	Green
51[98]	21[101]	AAAAACCTAGTAAGCCATATACTGTTTACAG	32	Green
51[119]	21[122]	CTTTTGCGCCAAATCTGATATTCGCTCG	32	Grey
53[35]	23[38]	ATTATTCAGCGGGAAGATACCCGAAACAAAGCG	32	Purple
53[46]	48[42]	ACAAGTGCCTTCAGATGATATTACCAGAAAAACCGCC	38	Cyan
53[56]	23[59]	ATTAAGAAGCGGGTGATTAAATAAGAAAGCTG	32	Blue
53[67]	48[63]	GAGGTAATAACTTTTGAGGCAGGTGCCGCCACGGAACC	38	Purple
53[77]	21[83]	AAATTATTACAGGTCTATCATAACCCAGGACATTCAAACGTAACGGAA	49	Purple
53[98]	23[101]	TTCATCATTAATAAGCTGAAAAATTA AACCT	32	Blue
53[109]	48[105]	AGACGAGGCAAAAATAGTAGACTGAATGCTTCTGACTA	38	Purple
53[119]	23[122]	ATACCTCAGGTTGGTTACTTAAGGAACGAA	32	Orange
55[25]	50[24]	GAGCGTCAGACTATGTTCCGTATAAACGCACTCTCCT	35	Orange
55[35]	25[38]	TATCACCCATTTTCAAGAAATTAAGTCAATCG	32	Blue
55[56]	25[59]	TAGTACCCACCTCAATAAGAAATTAACGAAA	32	Cyan
55[77]	23[83]	CGTTAATTTCAACTTAACGGAACAACGACAGTATGCTATCTTATGCCGC	49	Green
55[98]	25[101]	TTGTGAAGAGTAGTCTAAATCTTTTAGAAGGG	32	Purple
55[119]	25[122]	TTTAAGACCTGACGCAATTAGTGTTC AACATTA	32	Grey
57[35]	27[38]	TCGTCACTCTTCTCTTACGTCAGCCATATA	32	Purple
57[56]	27[59]	ACCGTGTAAACGATGACGCTATTTGCCTTTA	32	Purple
57[77]	25[83]	CACCTGACAAGAACGCTTGAGATGGTCCCAATAGCAGGGAAGCTTTATTA	49	Green
57[98]	27[101]	TCATTACGCTGGCTGCCTGAGCGTTCTATTTTC	32	Cyan
57[119]	27[122]	CAAAGCTGTGTACAAGATTCAACCATCACCGG	32	Orange
59[35]	29[38]	TTCAACACAAAAAAGTTGCTGAACCTCGCAT	32	Blue
59[46]	53[45]	CAGTTTGTGCGAGTACACCACTGTA CTACAGATACCTGAA	42	Purple
59[56]	29[59]	AGAATAGTTTTTTCTACAATTAAGAACGGAGA	32	Green
59[67]	53[66]	GAAGTTAGCGTAGCATTAACCGCGCCACCCTAGGATTGGCT	42	Purple
59[77]	27[83]	GTCCGGAAGGAGCTCAAGAGTAATGCATATAAACGAGCGTCAAGATC	49	Blue
59[98]	29[101]	GTCATCTCCCGGAGTAGCTAAATCTGTAGGAT	32	Yellow
59[109]	53[108]	GGGCGCATAGCCAAATCCAGAACTTACCTTATCTACGGTTG	42	Orange
59[119]	29[122]	CTGACCAGCCTGATACAAAGGACAAGAGGTCA	32	Grey
61[25]	55[24]	TCACAAAAGGTTTGCTAAGTAAATCGTAACGCAAGCCGCC	42	Red
61[35]	31[41]	TTCGAGGTATTGCGTTATTTTGTATTATAACAAGAA	35	Purple
61[56]	31[62]	AGCTTGAATCGCCCTTACCGCTCCTTATCCTAATT	35	Purple
61[77]	29[83]	CCAAAACTCATCCATGTTACTTAGGAACCAACGAGAAGGCAACTCCG	49	Purple
61[98]	31[104]	GGCCGCTTTTACGAGCCCTGTTAAAAATTTTAA	35	Green
63[14]	61[24]	CCCCGCTTTTACGGGGCTGCTTTTA	25	Green
63[35]	59[45]	ACCCTCAGCAGCGAACCGATATGAATTTAAATCTCGTTT	39	Blue
63[56]	59[66]	CATCGGAACGAGGGAACAACCTACCGATATAATAAAAG	39	Orange
63[77]	32[70]	GGCTACAGAGGCTTAAAGAATACTAGTAAATCAGGTATCAATAATCGG	49	Yellow
63[98]	59[108]	TAAAGACTTTTTCAACAACCTAATTATACGTGCAAAATAA	39	Green

Start	End	Sequence S6 (3-layer 20-helix-per-x-raster block)	Length	Color
0[55]	5[45]	AGCACTAAATCGGAGGCGAGACACACCCACGTATAACGCCAGTCCA	46	Blue
0[76]	5[66]	TTTGGGGTCGAGGTAGCGAAAGGTCACGTTAGAATGGGATTTTGTA	46	Orange
0[97]	40[91]	ACCATCACCCAAATGGGTGTTGTTCCAGTAATTCGCTTTACCAATGACC	49	Pink
0[118]	5[108]	GGGCGATGGCCACCAAGAGTAAAGAAGTTTGCCTTCACCGGGTT	46	Cyan
0[139]	2[129]	AGGGCGAAAAACCGCGTGGACCGGC	25	Blue
2[55]	40[49]	TAACCACAAGGAAGAACACCCCAAGAGCATAAGCAG	35	Green
2[76]	39[76]	GTGTAGCGGAGCGGATTAGACAGCAATA	28	Light Green
2[97]	42[91]	AGATAGGGTTGACGAACAGCAAGCGGTCTTGCTGAAGCAAACGCCAGAG	49	Yellow
2[118]	40[112]	ATAAATCCCACTATAAGACTTCAGAAGCTTAAACA	35	Pink
2[128]	7[129]	AAATCTGTTCACGGGACGGTGGTTGCTTTCCATTA	35	Purple
4[34]	41[34]	AGAAGTGTTGCTTTTCCCAATAAAATGAAGACACCTAACGGA	42	Dark Green
4[55]	41[55]	GAACGGTACGTGCTAATAAACACAGAGACAACATATGGCATG	42	Light Green
4[76]	41[76]	GATTAAACAGAGCGAGCCTAACAGGGAAAAAATACTTACGCA	42	Yellow
4[97]	44[91]	CTGAGAGAGTTGCAAGCCAACGCGCGGGTGACCATTTTAAATCATAACG	49	Purple
4[118]	41[118]	ATTGCCCCACGAGTGC GGATATTAGAGGGCTTTTCGTCCAA	42	Light Green
5[46]	10[45]	TCAATCGGCCCGCTCATCAGTAATAGAATACAAAA	35	Yellow
5[67]	10[66]	GCACTGAGTATTTGACGCAGATTCATTTTGGAGCC	35	Cyan
5[109]	10[108]	TGCTCGTGCCCTAATGAACACAACCGAGCTCACGT	35	Purple
6[34]	43[34]	TAATATCAGTAAAGTTTTGACCAGCTTTATCATATCAATA	42	Dark Grey
6[55]	43[55]	TCAAATCGCAAATGAACCTCAATCTTAAAAATTTTTACCA	42	Orange
6[76]	43[76]	CACCTGCATACTTCAAGAACGCGTCTTAGGGAAGAGGGCGA	42	Dark Green
6[97]	46[91]	TTAATGAATCGGTAATAGTGTAAGCCTAATCATATAACCTGCGTTGGG	49	Light Green
6[118]	43[118]	AAACCTGGTATTGGTGCGAACCGGTGCCACATTCACACTAT	42	Cyan
7[130]	12[129]	ATTTTGTTATTGGTCATATGAGTAAAACTCTGGCCC	35	Blue
8[34]	45[34]	ACATTCTTGCAACAAGACAATTACCGCTTGGCTAATTAGA	42	Blue
8[55]	45[55]	ACACGAGGAAATAAACCAAGAAATCAGATCAGTACAGTAGC	42	Orange
8[76]	45[76]	ACATTGGCTCAATCTCATTCTCCGGTAACCATCGCAAGGCC	42	Blue
8[97]	48[91]	CCGGAAGCATAAAGTTACGGAGGATCCCTATTTCAATTAAAGCGAGAAAC	49	Orange
8[118]	45[118]	CAATTCGTGAGCTTAGTAGCCATTTGGGGCTCATCGGAACA	42	Light Green
10[34]	47[34]	ACCACCAGACCTGACAACAATATCCTAACCTCAGATCATCGG	42	Pink
10[44]	15[45]	TACACCGCTACCTCATATCTAATAGACTTTTAA	35	Yellow
10[55]	47[55]	GCCATTAGTGGCACATGCAGAGAAACCACGCTCCGCCCCCT	42	Dark Green
10[65]	15[66]	CTACTGAGAGTTGCTGACACTAACCATTTGATCAT	35	Light Green
10[76]	47[76]	AACTGATAATTGGCTAATAAACGCTTTCAACCAGAATCTTTT	42	Dark Grey
10[97]	50[91]	ACCTCGATAAAGTAAACTTGAATCGGCTTCAATATCCCTCATGGCGCAT	49	Light Green
10[107]	15[108]	GGTTTCACATTGTCGGTCTATTTTGTCAACCAGG	35	Blue
10[118]	47[118]	TTAAGCTGAATTCGTACTTTTGCATAAAGTGAATAGGTTTAA	42	Yellow
12[34]	49[34]	TCTGGTCCGGTCAGAACATGTAAGAGAAAAGCCAGCTCAGAG	42	Pink
12[55]	49[55]	ATATCAAGCAACAGATCGCCAAAAGGTCAAACAAACCACCA	42	Yellow
12[76]	49[76]	CATCACCCAGCAGAACAGTACAGACGAGACGATTATTGACA	42	Dark Green
12[97]	52[91]	GAATATAGGGGCAAAGAAAATAACCCGCGATGAAAATTATAAATCCG	49	Yellow
12[118]	49[118]	AAGCAACAAATCATCCGGAGAATGCCTGAGATGAAGACAAGA	42	Dark Green
12[128]	17[129]	TGCGTGACTCTAAGTGTTGGTTGTCGCCAGGGCTG	35	Orange
14[34]	51[34]	AATTCGAGAATTGATAAGAATTGTTTAGTCCCCCTACCGTT	42	Yellow
14[55]	51[55]	GAAGTATAATATCTTGTGATATACAAATAGTGCCACATGGC	42	Blue
14[76]	51[76]	GATAATAAACTAATAATGGTTAGCCAACGGGGTCAGAGTGTA	42	Orange
14[97]	54[91]	CAATGTCCCGCCCCCAAGCTTCTCAGTTTGTTAAATCATACGAAAGA	49	Yellow
14[118]	51[118]	GCTGAATACGCTCGGTCTGGACTATTTATCGCTGGCGCAG	42	Purple
15[46]	19[48]	AAGTCAGATGGGAAGGGTCAGATCTGATTG	31	Dark Grey
15[67]	19[69]	TTTTTATCATATCAAAGCGTAGATTACAAA	31	Orange
15[109]	19[111]	GTGGACGTTGCAGCTGGAAGCTGTTCCAGCTT	31	Light Green
16[34]	53[34]	TTCATCAGAACGTTTAAATGCGAGAAAATATAGCCTGAAACA	42	Dark Green
16[55]	53[55]	CTGATTATTTGAGTGTTGGGTTTTAGTCGTCGAGGGCTGAG	42	Yellow
16[76]	53[76]	AGCGGAAGCGGAACCCCTTTTGACCTAACAGTACCGGATTAG	42	Blue
16[97]	56[91]	ACGGCCAGTGCCCAAGGCTCTTCGCTTGAGCGAATCAGCTAACGAGG	49	Yellow
16[118]	53[118]	CAGTCACGATGTTCTTAAATTTAATCAGTACGAAGGACCCCC	42	Orange
18[34]	55[34]	CAGTAACTACTTCTCTTAGAACGCTGATAACACTAGGAGGT	42	Pink
18[55]	55[55]	GTTTAAGTGAACGTCGCTAGAATTTACCAATAGTGCAGAA	42	Orange
18[76]	55[76]	AGAAATTTTATTTGATAACCTCTGAGAGTCATTTTACCGCCA	42	Cyan
18[97]	20[94]	GCGATCGGTGCGCACTCAGGAAGATCGCGACG	32	Blue
18[118]	55[118]	GCTGCGCCGAAAGGAGCTTCTAGGAACAGCAGCGAAGACTT	42	Dark Grey
19[18]	57[34]	CGGGAGAAACAATAACGACATCAATTTGAATACAACCTTCAACGCC	45	Blue
19[49]	57[55]	CTTTGAACAAAAGAGAAACAGTTCTGTAGACAGCC	35	Yellow
19[70]	18[77]	ATCGCGCAGAGGGCGAATAA	21	Green
19[112]	57[118]	TCCGGCAGTGCATCCGTAATGTACCGATGTCGCTG	35	Green
20[41]	18[35]	GAAACAAGATTTCGCAATATA	21	Orange
20[62]	18[56]	ACCTGAGTACCAAGTTTTAG	21	Orange
20[93]	59[90]	ACGGGGAACATGACAACAACAGTCAAAAAA	31	Orange
20[104]	18[98]	TTGAGGACTCCAGGGGAAGG	21	Dark Grey
20[135]	18[119]	ATGGGCGCATCGTAACCCGCTTCCATTAG	31	Orange
21[84]	57[76]	TCTCGTACAGTATCGCGAATTATTCATTATGTGACCAGACGAACGATC	49	Blue
23[84]	16[77]	TTGTTAAGTAAACAACCCGTGACACGTAACAGAAGG	35	Orange
25[46]	20[42]	ATATATATAACAATAGTTTAATTATTTAATGAGATGAT	38	Pink
25[67]	20[63]	TCTAACCTCCCATAGGTTGCTTCTATCAATATTCAATT	38	Cyan
25[84]	14[77]	GCATGTCAAATTCGATTATAAAAGAAAGTCAATA	35	Purple
25[109]	20[105]	TGAGTAAACGTAACCAAATCAACAGATTGACTGCCAGT	38	Blue
27[25]	22[24]	GCCAAACACCAGAACGCTGATGCAGATTAAGTCCT	35	Purple
27[84]	12[77]	GCTGATACGGTAATCGTAATTAGATTAGTCTAAAG	35	Yellow
29[84]	10[77]	TTTAGAAGATATTCAACCGTCCAATGAATGCGCG	35	Light Green
30[44]	25[45]	GCCTACCGACTATTTAATGCGTTAAATAAGGAAAT	35	Dark Grey
30[65]	25[66]	TGTTTCTGTGCGGCTTAAGTATAATGAAATAATCT	35	Orange
30[107]	25[108]	GAGAAATGCACAGTCAAAGGGTAGGCAACACGGT	35	Dark Green
31[84]	8[77]	TAGCAAAACGCAAGGATAAACATTAGTCATTATTT	35	Dark Grey
32[23]	27[24]	GCCATATCCAGATAAGCAGTAATAATTTAGAAAA	35	Orange
33[84]	6[77]	TGGTCAACAGGCAAGGCAATAGTCTGAAATAACAT	35	Yellow
35[46]	30[45]	CTGCCGACTTAGCAAGCTACCGCAGCATGTAACGC	35	Dark Green
35[67]	30[66]	GAGCGAGGCGAGGCTTAAAGAAGCATCGGCTAACAA	35	Purple
35[84]	4[77]	AACATGTTAGATACATTTCTTTTGATTGGAGGCC	35	Dark Green
35[109]	30[108]	GTAGAGTAGAATATTTTATTAACACCTCAGAGCGG	35	Dark Grey
37[25]	32[24]	TCACCAATATTTTGAAGCCTTAGGAATCAGCAA	35	Yellow
37[84]	2[77]	GACCGGAATATAATGCTGTAGGGAGCTACTGGCAA	35	Light Green
39[14]	37[24]	AGATAACCCACAAGTGAGCGCAACG	25	Blue
39[42]	35[45]	CAATAATTGAACAAAGCCTTAGCCATATATC	32	Purple
39[63]	35[66]	ATGAAATGGGAGAAATAAAAATTTGCCATAAC	32	Pink
39[77]	0[77]	GCTATAAATCAGGTAGCTTCAAAGCGGCGGCTAGCAAGTTT	42	Dark Grey
39[105]	35[108]	TTATAGTCAAATATGGTCAGGGGCTTAGTAAA	32	Pink
40[48]	45[45]	ATAGCCGAAAGAACTAAAAGACATATGGTCATTAAAAAT	39	Orange
40[69]	45[66]	CTTTTTACTCCTTAATACATAAGACAAAGTAAATACCAT	39	Orange
40[90]	41[97]	ATAAATCAGAATAGTAAATG	21	Dark Green
40[111]	45[108]	GTTCAGATGGATAGGCAAAAGAAGAGCAAATAATGAAC	39	Orange
40[139]	42[129]	ATTGAATCCCCCTCGAATCGTCCAA	25	Pink
41[35]	39[41]	ATACCCAAACAAAGTTAAGCC	21	Blue
41[56]	39[62]	ATTAAGAAGAAAAGAGAAACA	21	Cyan
41[77]	40[70]	GTATGTTAACTTACCGAAGCC	21	Orange
41[98]	39[104]	TTTAGACAAACGAGCTGACTA	21	Orange
42[90]	43[97]	GGGGTCACCAGGAATTACGAG	21	Light Green
42[128]	47[129]	AATCTCGTTTAGATTTATACAGGTGATTTTTTTA	35	Cyan
43[35]	0[35]	GAAAAATTAACGCAAAATAGCAGTCAGACGAACGTACCCTAA	42	Blue
43[56]	0[56]	GCGCCAAAAGGTGGGAATAACTTAACGGGAAGAAGCCGTAA	42	Cyan
43[77]	37[83]	CATTCAAAACGTAGGCAACCA	21	Orange
43[98]	0[98]	GCATAGTAAGTTTTTCCAACACGCGTTTTTGAATACGTGA	42	Orange
43[119]	0[119]	CATAACCAGCGAGAAGTACCTAGCCCGATAAAGAATCTATCA	42	Yellow
44[90]	45[97]	CCAAAGATCAAATCTACGTTA	21	Purple
45[35]	2[35]	GCCAGCAAGGTGAAACAAATTTTATTAGACGAGCGCCGCGC	42	Cyan
45[46]	50[45]	CACGCGACAGGGTCATACTCAGAGCAGAACCATAA	35	Cyan
45[56]	2[56]	ACCATTATTGACGGCCAACGCGTTACAATTCCTCGCTGCGCG	42	Dark Green
45[67]	50[66]	TAGATAGCAGGTTTGCCGCCACCACGCCAGCGGCC	35	Dark Green
45[77]	35[83]	GGAAACGTTGAGGGCCAGCTC	21	Cyan
45[98]	2[98]	ATAAAACGCAGATAATGCAACAGCTTAACACGCTGTAGCCCG	42	Yellow
45[109]	50[108]	TAATATACCATTGAGATAGGCTTGTAATCTTCGGT	35	Orange
45[119]	2[119]	ACATTATGGAATACTGGAAGTTCATTTTGCGAAAAATCCCTT	42	Pink
46[90]	47[97]	AAGAAACAAAACAGTAGTAA	21	Purple
47[35]	4[35]	CATTTTCAATCAAGGCCAATGCGGGAGGAGTCTGAATCCTG	42	Purple
47[56]	4[56]	TATTAGCCACCGTAATATAGATTTTAGCTAACGGTTAGACAG	42	Dark Green
47[77]	33[83]	CATAATCCAATGAATTGCAAA	21	Pink
47[98]	4[98]	ATTGGGCGTCAGGATTTAGCTTTTAGTTGAGAGGCCCTGGCC	42	Blue
47[119]	4[119]	TTTCAACAAGAACTGGCGGACCAATTCGCGCCAGACAGCTG	42	Cyan
47[130]	52[129]	ATCAAGCTGCATTCATCTTTGAAATCATAACGGA	35	Orange
48[90]	49[97]	ACCAGAAGAGGCTGACCTTCA	21	Orange
49[35]	6[35]	CCGCCACCCGCACTTTACGACTCATCGGAAAAAATTGCTGG	42	Dark Green
49[56]	6[56]	GAGCCGCCGGAACATCAATAGGTATTACCTACATGAAGAAC	42	Orange
49[77]	31[83]	GGAGGTTTCACCGGCTAGAAT	21	Blue
49[98]	6[98]	TCAAGAGCCCTGACAATAAAGTCCAATAGGGGTGCAGCTGCA	42	Dark Grey
49[119]	6[119]	ACCGGATTCATTAGCTAAATCTAATAGAACTCACAGTCGGG	42	Light Green
50[44]	54[45]	ATCGCGTCATGTATAAAATTAAGAAGGG	28	Yellow
50[65]	54[66]	TTGGATACAGGTGCCTTAAGAGAAAGGC	28	Blue
50[90]	51[97]	AGGCTGGTATGCTCCATGTTA	21	Yellow
50[107]	54[108]	GTAGGAACGAGATAAATCATCTTTGCAC	28	Pink
51[35]	8[35]	CCAGTAACTCATTATATAAAGTGTTTATAAGCGTAAAAAGGG	42	Dark Green
51[56]	8[56]	TTTTGATATATTCAAAAGTAATCAGCTAAGACAATACCAGTC	42	Dark Grey
51[77]	29[83]	CTGGTAACAGGTCACGAAATT	21	Pink
51[98]	8[98]	CTTAGCCCAGACCAATATTTAAGCCTTCGGGTACATACGAG	42	Dark Green
51[119]	8[119]	ACGGTCAAGAGGACAGTAATGCCTGTAATAATCATCCGCTCA	42	Purple
52[90]	53[97]	CGACCAGGGAAGAATACACTA	21	Pink
52[128]	57[129]	GATATACCAATACGTAAGGAAGTGGATCGTCAGG	35	Orange
53[35]	10[35]	TGAAATCAGTTAATATCATACAACGCTTAAACGAAACGA	42	Light Green
53[56]	10[56]	ACTCCTCGAGTAACTCTTACCATTGAGATGCCACGAAACATC	42	Orange
53[77]	27[83]	GATTAGCTTTTAACTGCTTCTA	21	Light Green
53[98]	10[98]	AAACACTTGTGTGCGGCCGAGATCACCAGACGCATGCTTGTT	42	Dark Green
53[119]	10[119]	AGCGATTTTGTATCTGAGAGAAGAAAGGTTCTCCGACAGGGC	42	Yellow
54[44]	59[48]	TTGCGCCACCGAACCCATTCCACATGGGATTTAAAGGA	38	Green
54[65]	59[69]	GGACCTCAGACAGGATTTAGCGTTTAGTAATTTTTTC	38	Orange
54[90]	55[97]	GGCAAGGAGAACGGCTACAGA	21	Purple
54[107]	59[111]	CAAAGGACTAAAAGACAATATTCGAGTTGCGAGCCTTT	38	Yellow
55[35]	12[35]	TTAGTACATATAAGCTTTTTCCGTTAAAGGAAGGTATCAATA	42	Dark Grey
55[56]	12[56]	CCGCCACTAAGTGCTAATTTCCGACCGTTAGGAGACCTCAA	42	Orange
55[77]	25[83]	CCCTCAGTTTTGCTATAACTA	21	Orange
55[98]	12[98]	GGCTTTGCCTAAAAATGACCCAGAGAATCTTCTAATGGGCAC	42	Blue
55[119]	12[119]	TTTCATGATGCCACAAAAGCCCTGAGACCCTGGACATCTGT	42	Orange
56[90]	57[97]	GTAGCCCTTTCGCCCACGCAT	21	Blue
57[35]	14[35]	TGTAGCATGTACCGGAAGAGTCTATATGATTAATTTACAAC	42	Blue
57[56]	14[56]	CTCATAGAGCAAGCTCAAAATGGCTTAGAACATTAGGATTTA	42	Orange
57[77]	23[83]	TAAAGTTACCACCCACAATTT	21	Orange
57[98]	14[98]	AACCGATGCATCGGCATTTTTTAAATATGAGAAGCCTTATGA	42	Blue
57[119]	14[119]	AGGCTTGCACCTCGCCATCACAAATATTTCTAAGCCTTAGT	42	Light Green
59[18]	59[37]	GGAGTGAGAATAGAAGGAA	20	Dark Green
59[38]	16[35]	CAACTTGCTAATACCTTTATTTTCCGAATAATATGGCAA	39	Green
59[49]	16[56]	ATTGCGAATAATAAATGAATTTACATAAGTAAATCCTACCATCATATTC	49	Blue
59[70]	21[83]	ACGTTGAAATCTCCGCTTTTGTGCGAT	28	Orange
59[91]	16[98]	AAGGCTCCAAAAGGCCGACAAAACGGCGTTAAATGATTACGCTAAAACG	49	Orange
59[112]	16[119]	AATTGTATCGGTTTAGCTTGAGGATAGGTGTAGCCGGGATGTTTTC	49	Purple

Start	End	Sequence S7 (2-layer 30-helix-per-x-raster block)	Length	Color
0[55]	5[45]	CTACAGGGCGCGTAGCGGGAGAGTGAGGTTCTTTGTACCGCCATCG	46	
0[76]	3[66]	CCCGCCGCGTTAAGATTAAACTGAGAACACT	32	
0[97]	59[97]	ACGCTGCGCGTAAACGACCGCATTTTAGAGCGAGGACTGGAGTTA	42	
0[118]	5[108]	GCGCTGGCAAGTGTGGAAGCCTAAATCGGGCGATAAAGAACATAA	46	
0[132]	5[129]	GAGCGGGAGAAAGGGGTCGAACCATCATTGGAACAGAT	39	
2[34]	59[34]	GTAAAGTCGTTAGCGAGGTGCCGACA	28	
2[55]	59[55]	TATAATCCTAAACAATCGGTCGCCAC	28	
2[76]	59[76]	CAGAATCGGATTTCCAAAGTTCGGTC	28	
2[97]	57[97]	TAAAGGAGCCCCACTCGGCGAAAAACCGTTGACCCCCATTAA	42	
2[118]	59[125]	TAAAGCAGCGCGAAAGCAACGGGGATCGTCACCCCT	35	
3[67]	9[66]	TGCTGGTAATACATTGGGGGACATAACTGATCGAACCATC	42	
4[34]	57[34]	GCAACAGCGTTGTACAACAGTAAGGAAT	28	
4[55]	57[55]	ACAATATATTAGTAGGGATTTTTTTCAC	28	
4[76]	57[76]	GCCTTGCTGAGTATAGTAAAAAAAAA	28	
4[97]	55[97]	CCAACGTCAAAGAACGAAATCGGCAAAACAGACGGCAAAGTA	42	
4[118]	57[118]	CACTATTGGCCCCACAATTACACTAATGCC	28	
5[46]	11[45]	TCTATAGAACGCTATTAACAGAGCAGCAAAACAACAGTAATA	42	
5[109]	11[108]	ATCCGAAAAATTGCCCGCCAGGAAACCTGACTCACACAAT	42	
5[130]	11[129]	AGGACGCTGGCTGAGAGAGAGGCGTTAATGAGGTCGCCCGG	42	
6[34]	55[34]	ACCTGAACATTTTGGTCACCAACAGCCC	28	
6[55]	55[55]	AACAGAGGAAATGGTGACCGACGATCT	28	
6[76]	55[76]	AATAAAACAGATTGAGCAAGCTTTCAG	28	
6[97]	53[97]	GATGGTGGTTCACGCGTGAGACGGGCAGGATATTCCAACCT	42	
6[118]	55[118]	CAGCAGGAAAAGAATTACTTAATCATCG	28	
8[34]	53[34]	GGTCAGTAATATTTTACCCTGCCCAC	28	
8[55]	53[55]	AAGATAAGTCTTTAGTATAGCCCTCAG	28	
8[76]	53[76]	TACCGAAAGCCCTACCGTCGATTTTCAG	28	
8[97]	51[97]	TTCTTTTACCACAATTGCCCGCTTTCCTAATCATGCTGCTC	42	
8[118]	53[118]	TATTGGGTTTACCAGAGAGTAATGAACGG	28	
9[67]	13[66]	ACCATATCTGGATAATAAAACAATTAGCG	28	
10[34]	51[34]	AATTGAGACGCTGATATTCTGCAAGAGA	28	
10[55]	51[55]	GGCAAAATTGAAAACTCGCTCGGGGTT	28	
10[76]	51[76]	TCAATCATTTGCTGACCGTATAGCGGATA	28	
10[97]	49[97]	TGAGTCTCATGATGAAATTGTTATGAAAGATAGAAGT	42	
10[118]	51[118]	TGAGCTATCTGTGCCGAGATGGGCTTGCC	28	
11[46]	17[45]	GATAAATCCTAACAAAGATTGTTTTTGCACGCATCGGGCGCA	42	
11[109]	17[108]	TCCAATCATGTTAAGCTTCTCGAAAGCAACCTGGAGGCTG	42	
11[130]	17[129]	AAGGGTACCACCTCGAACGCATTGAATATATTCTAATCAAT	42	
12[34]	49[34]	AACGTTAGAGCACTACCGTTCAGGAGTG	28	
12[55]	49[55]	TCGTATTTAGAGCCGAAAGCGTTAACG	28	
12[76]	49[76]	CTTTACACATTTGAATCCTCAAGTAACA	28	
12[97]	47[97]	CTGTTTCTGTGAGCTTGTAATGAGTAAGACGATACACATTC	42	
12[118]	49[118]	AATTCGTACACAACGGAACATCAGGAC	28	
13[67]	19[66]	GAACAATTCAAGAAATTATACAGTTCAATTAAGAAAAGTAA	42	
14[34]	47[34]	ACTTCTGTTATCATCCGCCACACAGGAG	28	
14[55]	47[55]	AATCCTGAAACCACTCAGAGCGACGATT	28	
14[76]	47[76]	ATGATGGTTATCATCCACCCTCAAACAA	28	
14[97]	45[97]	CCTCCTGGTTGGGAGTGTGCGGCCCTGCTGAATCCTGCAAAA	42	
14[118]	47[118]	AATCATTACGTGGTCATAACCCATAACG	28	
16[34]	45[34]	ATAACGGCATATCACGGTCATAATCAAA	28	
16[55]	45[55]	CCTTTTATAAAACAGCGGTTAGCCACC	28	
16[76]	45[76]	GATGAATGCGTAGATGCCTTTCCTCAGA	28	
16[97]	43[97]	ATGATACCGACATTGACGACTTAAGTGTAAGGAAGAAAACG	42	
16[118]	45[118]	CGCTCGCTCGTCGGGGAATCGGGGGTA	28	
17[46]	23[45]	GAGTTTAAACATGAGTGAGATTAAAGCCTTTTCGAGAAATTTG	42	
17[109]	23[108]	AATTCTAAGTCAGTCACGGATGTGGCTGCGCCGCTTCTGCCA	42	
17[130]	23[129]	GTCAGAAGCCACGGCCATTACGCCGCGATCGCTCCAGCCAGT	42	
18[34]	43[34]	TTGAATTAAGTTACACCAAGTAACCAATG	28	
18[55]	43[55]	AATTACAGCGAATTGGAATTAAGCACCG	28	
18[76]	43[76]	AAACATCCCTGAGCGTCACCGAGAATCA	28	
18[97]	41[97]	AATTCTAGCGCATGATGGTAACGCCAGGAAGAGGTTTTAAT	42	
18[118]	43[118]	ATGTTCTTGTCAACCGGATTGTCAAAAA	28	
19[67]	25[66]	ATCTGAAAACGGTTGGGCCAATCGTAAATAAATTACTATAAC	42	
20[34]	41[34]	GAAGAGTTAAATCACCAGCGCGGGAGGG	28	
20[55]	41[55]	TAGCTTAATAACCTATAGAAACGGAAAT	28	
20[76]	41[76]	GAATCCTGTGCTAAAGTTTAGAATTAT	28	
20[97]	39[97]	GCGATTAAGTTGTTGTAGCGCCATTGCTGATTCTTAATTGC	42	
20[118]	41[118]	GAAAGGGGACGTTGCCTTTAAGAACCAAG	28	
22[34]	39[34]	CAAAATATAGGTCTGAAGACTCATACATA	28	
22[55]	39[55]	AAGAACGTAACTCCCAAAACATATAA	28	
22[76]	39[76]	TGCAAAATTTATATAAACGCACACCACG	28	
22[97]	37[97]	GAAACCAAGCAAAATGCATCGTAACCGATTCTACGTTTGAC	42	
22[118]	39[118]	CCGGCACAACTGTAGTTTTCATAGCTCA	28	
23[46]	29[48]	AAAAGTATCATTAAATTGAAGTACCGCTAATGTGTAGAACCAAGTA	45	
23[109]	29[111]	GTTGATAGGTTTAAATGAAAAAATTTTGTACAGGAAAACGGTA	45	
23[130]	29[132]	ATCACGGCGGCCGTCGTAACCAATTTTGTATAATCAATGTCAA	45	
24[34]	37[34]	TATACAACCTAAATGAAACAATTTTAAG	28	
24[55]	37[55]	CCTGTTTTACCGACTAAGCCAGCCGAA	28	
24[76]	37[76]	AATCATAGGCGTTAGATAACCGGAAACC	28	
24[97]	35[97]	GTGTAGATGGCAATATAGCCAGCTTCTATGACCATAATC	42	
24[118]	37[118]	GTAATGGTGAGGGGCGAGCTGCGCAAAT	28	
25[67]	29[69]	AACAGCCAGTTTATCAATCCCATCAACAAGC	31	
26[34]	35[34]	GGTAAAGCTCAACAAATAACATAACTGA	28	
26[55]	35[55]	GAATATAAGAAATCGAATAGCAGTCAGAG	28	
26[76]	35[76]	ATTTTCGGCCAACATTGTTTAAATATCA	28	
26[97]	33[97]	CTGGCTTCTGGGTGTAATTGTAAACAGGGTGACTTTATT	42	
26[118]	35[118]	GCCATCATGAGCGAAATCGGTAAGAATT	28	
28[34]	33[34]	AATAATCAAAACCAACCGTTTACAAA	28	
28[55]	33[55]	ACGAGCAGACAACGCAATTTTATTAT	28	
28[97]	31[97]	TAAGCAAATATTAAGAGCAAAACAGAGATCATTGCCCATCAA	42	
29[28]	26[35]	GAACGGGTATAGAATTTAGCGAACCTCCATCTTACATGTTAGACAAAA	49	
29[49]	26[56]	CCGCACTCCCAATACGGGAGGTTTTGAACCAGCTACGCTGTAATAAGA	49	
29[70]	33[76]	AAGCGTTTTTATGCAAGAAAAATAATACAATAGATTGCTATGAAACGA	49	
29[112]	26[119]	ATCGTAAAGATCTAGTCTTAGCTGATAAAGTACGATGATTAATAGGAAC	49	
30[125]	33[118]	TTTTGAGAACTAGCGAAAAGCCCCAAAAAAATTCATGTGTAATAATTT	49	
31[77]	31[76]	TTACAGTCAAATCACTGAGAGTCTTTTCATCGTAGATCAAGA	42	
31[98]	26[98]	TATGATAATTCAAAGTTAATATTCGCGT	28	
32[44]	28[35]	TGACGACTTGGAAGCAAAATCAGATATTAACCAATC	38	
32[65]	28[56]	CACGCTTAAAGATCATTACCGCGATCGAGCTAATTT	38	
32[107]	28[98]	AAGTTCAACCCAAAGGCTATCAGGATCGATGGATTGTA	38	
33[35]	24[35]	ATAAACACAGAGAGGTAGGGCTATGCGT	28	
33[56]	24[56]	CCCAATCAAATGAACCATATTGAAAAAG	28	
33[77]	26[77]	TTTGGGGAGAAGCGAAAGGCCGGAGAGTAAGTCCCAGAGGC	42	
33[98]	24[98]	TCAACGCAAAACATATCAACACACGTTG	28	
33[119]	24[119]	TTAGAACAAAGCTAGTAACAAATTGACC	28	
35[35]	22[35]	ACACCCTAGAGCAATTAATGGACTTTTT	28	
35[56]	22[56]	GGTAATTATTGAGTCGTGTGACAAGACA	28	
35[77]	24[77]	GACATTAACATCCACTGTAATACTTTTTTGTAAATTACACCGG	42	
35[98]	22[98]	ATACAGGGGCATCATGCATCTGGTGCCG	28	
35[119]	22[119]	AGCAAAATGGGGCGACGACAGCTTT	28	
36[23]	30[21]	ATAGGAGAATTA AAAAAGCTGCCAGAACGAGCGAGGCGTGGCTTAT	45	
37[35]	20[35]	AAAAGTTACGATTAGAGACTACGCTGA	28	
37[56]	20[56]	CAAAGTTCGAATACGGCTTAATAGCGA	28	
37[77]	22[77]	GACGAGTAGATTATATAATAGTAGTAGGAAATAAGAATGCTGA	42	
37[98]	20[98]	CATTAGATAACAGTCATTAGCTGCAAG	28	
37[119]	20[119]	GGTCAATGTCTGGAGGGAAGGAGCTGGC	28	
38[44]	32[45]	TGGAGCAGATAAATAAGAACAAAGCCTTTAGCCATATATCC	42	
38[65]	32[66]	TAAACCAGAACACAAGAGAGCGCTACGTCAACAAATAATTTG	42	
38[107]	32[108]	ATATACATTTAAAAGGTCAAGGCATGTACCAAGGATAGGTA	42	
39[35]	18[35]	CATAAAGTGGTTTAAATATGATTTTCAT	28	
39[56]	18[56]	AAGAAACACAATCATGCTTCTCAAAATT	28	
39[77]	20[77]	GATGGCTTAGAGCTCAATTCGGAAGGACTATATTCCTTA	42	
39[98]	18[98]	TGAATATTTTGTGTTTTCCGGTTGTG	28	
39[119]	18[119]	ACATGTTGAGAGTATAAACGAGGGTGG	28	
41[35]	16[35]	AAGGTACCAAAATCAAAATCGAGAAACA	28	
41[56]	16[56]	TATTCATCCATTTGATTCATTAAACAGTA	28	
41[77]	18[77]	CATCAAATATCGCGCATTTTTGCGGAATTAATTAATGAAAC	42	
41[98]	16[98]	TCGAGCTAAGATTACCTTAGTTGACTCT	28	
41[119]	16[119]	ACCGGAAAGCAAAGCTTATGACTATTTA	28	
42[23]	36[24]	CATCGATTGACAAAGAGCTAGAAACTTATTAAGCCCTTGAA	42	
43[35]	14[35]	AAACCATGCATTTTAAATTATGGATTAT	28	
43[56]	14[56]	TAATCAGGACTGTAGAAATATCAATAT	28	
43[77]	16[77]	AGTTAAACAGTTGAGCCCGAAAGACTCCAAAAGAAAACGTCA	42	
43[98]	14[98]	AGAATGATATTCATCATCTGTACTCTGA	28	
43[119]	14[119]	TCAGGTCATACTGCTGGGCACTCACATA	28	
44[44]	38[45]	TCGCGATAGCGAGCCAGATATTGAATTCATAGTGGCAAGAAC	42	
44[65]	38[66]	TCATAGCGACACTTGAGTAAGGTTTTGTGCGAAAGAATAA	42	
44[107]	38[108]	AAACCATTAACATCAAAATCAAGGCTTGCTCCAATGCTGTTCC	42	
45[35]	12[35]	ATCACCGCTCAGAGTTTGCGGTTGCCCG	28	
45[56]	12[56]	ACCGGAAGCCACCCGAGAAGCGGACAAC	28	
45[77]	14[77]	GCGCGAGAGGCTTCCCTCAAATGCTTTTTTTCAGTTATCAG	42	
45[98]	12[98]	GAAGTTTACCAGACACAGGCGTCATAG	28	
45[119]	12[119]	ATAGTAAACACTATGCTTGTGAGCTCG	28	
47[35]	10[35]	GTTGAGGTGAATTTAAACAATTGAAAGG	28	
47[56]	10[56]	GGCCTTGAGAATGGTCAATAGTCAGTT	28	
47[77]	12[77]	ATATTTAGGAATACAAAACCAAATAACGCATATTCTATTAGA	42	
47[98]	10[98]	AACTAATACAGGTACCGCTCATTAATTG	28	
47[119]	10[119]	CCAAAAGAACTAACATACGAGTAATGAG	28	
48[23]	42[24]	AAGAGCATTCAGAACCTTTTCATAGCCCCAAACGTCGCAC	42	
49[35]	8[35]	TACTGTAACCTATGAGCCAGGTGAGCG	28	
49[56]	8[56]	GGGTGCAAGTGCCTCTAAAGCCAGCAG	28	
49[77]	10[77]	GTTATGCGATTTTATCATCAGTTGAGAAGGATTACAAACCC	42	
49[98]	8[98]	GCTCATTTCAACTTAGTCGGGTGGTTT	28	
49[119]	8[119]	GTTGGGATGGCTTAGCTGCAGTTTGGC	28	
50[44]	44[45]	CGGAATAAGTCAGTCTCCAGGTACACACCAGCAACAGTTCA	42	
50[65]	44[66]	GTTTGCCTTGTTAAAGCATATTCACAGAACCCCGCTCAGCG	42	
50[107]	44[108]	ATTATACCAGCATTATTCAGATACTCGTTTTGCCAGATCAT	42	
51[35]	6[35]	AGGATTAAGGTGATTGAATGCCTTCTG	28	
51[56]	6[56]	TTGCTCAGATATAAATGCGCGTCTGGCC	28	
51[77]	8[77]	AGCAACGTAAACAAATGTGAATTACCTGCACCTCAATTA AAAA	42	
51[98]	6[98]	ATTCAGTAAGAACCACAGCTGCCTGTTT	28	
51[119]	6[119]	CTGACGATTCATCACCTGGCCTTTGCC	28	
53[35]	4[35]	CCTCAGAGAGTTTCACGCTCAAGCCATT	28	
53[56]	4[56]	AGCCACCGAACCAATTATTTATCCAGA	28	
53[77]	6[77]	GGGAACCGAAGCTGACATTACCCAAATTGAAACATCGACCAGT	42	
53[98]	4[98]	TGAAAGACGAGGCGATCCCTGTGGACT	28	
53[119]	4[119]	TGTACAGCTCCATGTAGCCCGAAGAGTC	28	
54[23]	48[24]	AAACTCAGAAACTCAGGGACTCCTAAACATGATGATACCAGT	42	
55[35]	2[35]	TCATAGTCAACTTTGCAATACCCACCGA	28	
55[56]	2[56]	AAAGTTTTCTGTATATAACATGTGTTTT	28	
55[77]	4[77]	ACCCAAGCGGAAATCAATCATAAGGATACAGTCACTATCG	42	
55[98]	2[98]	CAACGGACTCATCTTCTATCAGGAACCC	28	
55[119]	2[119]	CCTGATAGCAAAAGTACGTGAGGTGCCG	28	
56[44]	50[45]	AAATAGCGGTATAACACTACCGCCACCGGAATGGATTGAGTTT	42	
56[65]	50[66]	TTTTGTCTGTCCTAAGAGCCTCAGAGGTTGTACCAGAATA	42	
56[107]	50[108]	ACGAAATTTGTCCCGAAGGACAGACTTGTGACGAATAAGTTTA	42	
57[35]	0[28]	TGCGAATTTGCTTTAATCAGACTATGGTTGCTTTG	35	
57[56]	0[56]	GTTGAAATAAATTGTGGAGGCTGCGCCG	28	
57[77]	2[77]	GGATTGAGGAAGTTTCCAGCGATTATAGTGAAAGACGGTACGC	42	
57[98]	0[98]	ACGGGTAAGGCTTTTTGACGGAGCGGTC	28	
57[119]	0[119]	ACTACGACGAGGGTCTGTGGCGCTAGG	28	
59[21]	54[24]	TAGTTGCAATTTCTACAACATTCAGCGTCCACAGGTAC	39	
59[35]	56[45]	ATGACAACAACCATTTATCAGCAATAATTTGCT	32	
59[56]	56[66]	GCATAACCGATATAGAGCCTTATCTCCATGAA	32	
59[77]	0[77]	GCTGAGGCTTGCAAGAAAGACTTTTTCTTAGACAGCACCACA	42	
59[98]	56[108]	AAGGCGCGTTTTGCGCTACAGAAATACGTA AAA	32	