Sequence of p7560 scaffold:

AGCTTGGCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCCTGGCGTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTTCGCCAGCTGGCGTAATAGCGA
AGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAATGGCGAATGGCGCTTTGCCTGGTTTCCGGCACCAGAAGCGGTGCCGGAAAGCTGGCTGGAGTGCG
ATCTTCCTGAGGCCGATACTGTCGTCGTCCCCTCAAACTGGCAGATGCACGGTTACGATGCGCCCATCTACACCAACGTGACCTATCCCATTACGGTCAATCCGCCGTTT
GTTCCCACGGAGAATCCGACGGGTTGTTACTCGCTCACATTTAATGTTGATGAAAGCTGGCTACAGGAAGGCCAGACGCGAATTATTTTTGATGGCGTTCCTATTGGTTA
AAAAATGAGCTGATTTAACAAAAATTTAATGCGAATTTTAACAAAATATTAACGTTTACAATTTAAATATTTGCTTATACAATCTTCCTGTTTTTGGGGCTTTTCTGATT
ATCAACCGGGGTACATATGATTGACATGCTAGTTTTACGATTACCGTTCATCGATTCTCTTGTTTGCTCCAGACTCTCAGGCAATGACCTGATAGCCTTTGTAGATCTCT
CAAAAATAGCTACCCTCTCCGGCATTAATTTATCAGCTAGAACGGTTGAATATCATATTGATGGTGATTTGACTGTCTCCGGCCTTTCTCACCCTTTTGAATCTTTACCT
ACACATTACTCAGGCATTGCATTTAAAATATATGAGGGTTCTAAAAATTTTTATCCTTGCGTTGAAATAAAGGCTTCTCCCGCAAAAGTATTACAGGGTCATAATGTTTT
TGGTACAACCGATTTAGCTTTATGCTCTGAGGCTTTATTGCTTAATTTTGCTAATTCTTTGCCTTGCCTGTATGATTTATTGGATGTTAATGCTACTACTATTAGTAGAA
TTGATGCCACCTTTTCAGCTCGCGCCCCAAATGAAAATATAGCTAAACAGGTTATTGACCATTTGCGAAATGTATCTAATGGTCAAACTAAATCTACTCGTTCGCAGAAT
TGGGAATCAACTGTTATATGGAATGAAACTTCCAGACACCGTACTTTAGTTGCATATTTAAAACATGTTGAGCTACAGCATTATATTCAGCAATTAAGCTCTAAGCCATC
CGCAAAAATGACCTCTTATCAAAAGGAGCAATTAAAGGTACTCTCTAATCCTGACCTGTTGGAGTTTGCTTCCGGTCTGGTTCGCTTTGAAGCTCGAATTAAAACGCGAT
ATTTGAAGTCTTTCGGGCTTCCTCTTAATCTTTTTGATGCAATCCGCTTTGCTTCTGACTATAATAGTCAGGGTAAAGACCTGATTTTTGATTTATGGTCATTCTCGTTT
TCTGAACTGTTTAAAGCATTTGAGGGGGATTCAATGAATATTTATGACGATTCCGCAGTATTGGACGCTATCCAGTCTAAACATTTTACTATTACCCCCTCTGGCAAAAC
TTCTTTTGCAAAAGCCTCTCGCTATTTTGGTTTTTATCGTCGTCTGGTAAACGAGGGTTATGATAGTGTTGCTCTTACTATGCCTCGTAATTCCTTTTGGCGTTATGTAT
CTGCATTAGTTGAATGTGGTATTCCTAAATCTCAACTGATGAATCTTTCTACCTGTAATAATGTTGTTCCGTTAGTTCGTTTTATTAACGTAGATTTTTCTTCCCAACGT
CCTGACTGGTATAATGAGCCAGTTCTTAAAATCGCATAAGGTAATTCACAATGATTAAAGTTGAAATTAAACCATCTCAAGCCCAATTTACTACTCGTTCTGGTGTTTCT
CGTCAGGGCAAGCCTTATTCACTGAATGAGCAGCTTTGTTACGTTGATTTGGGTAATGAATATCCGGTTCTTGTCAAGATTACTCTTGATGAAGGTCAGCCAGCCTATGC
GCCTGGTCTGTACACCGTTCATCTGTCCTCTTTCAAAGTTGGTCAGTTCGGTTCCCTTATGATTGACCGTCTGCGCCTCGTTCCGGCTAAGTAACATGGAGCAGGTCGCG
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AAACCTCCTGAGTACGGTGATACACCTATTCCGGGCTATACTTATATCAACCCTCTCGACGGCACTTATCCGCCTGGTACTGAGCAAAACCCCGCTAATCCTAATCCTTC
TCTTGAGGAGTCTCAGCCTCTTAATACTTTCATGTTTCAGAATAATAGGTTCCGAAATAGGCAGGGGGCATTAACTGTTTATACGGGCACTGTTACTCAAGGCACTGACC
CCGTTAAAACTTATTACCAGTACACTCCTGTATCATCAAAAGCCATGTATGACGCTTACTGGAACGGTAAATTCAGAGACTGCGCTTTCCATTCTGGCTTTAATGAGGAT
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TGACCGAAAATGCCGATGAAAACGCGCTACAGTCTGACGCTAAAGGCAAACTTGATTCTGTCGCTACTGATTACGGTGCTGCTATCGATGGTTTCATTGGTGACGTTTCC
GGCCTTGCTAATGGTAATGGTGCTACTGGTGATTTTGCTGGCTCTAATTCCCAAATGGCTCAAGTCGGTGACGGTGATAATTCACCTTTAATGAATAATTTCCGTCAATA
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TTGCGTTTCTTTTATATGTTGCCACCTTTATGTATGTATTTTCTACGTTTGCTAACATACTGCGTAATAAGGAGTCTTAATCATGCCAGTTCTTTTGGGTATTCCGTTAT
TATTGCGTTTCCTCGGTTTCCTTCTGGTAACTTTGTTCGGCTATCTGCTTACTTTTCTTAAAAAGGGCTTCGGTAAGATAGCTATTGCTATTTCATTGTTTCTTGCTCTT
ATTATTGGGCTTAACTCAATTCTTGTGGGTTATCTCTCTGATATTAGCGCTCAATTACCCTCTGACTTTGTTCAGGGTGTTCAGTTAATTCTCCCGTCTAATGCGCTTCC
CTGTTTTTATGTTATTCTCTCTGTAAAGGCTGCTATTTTCATTTTTGACGTTAAACAAAAAATCGTTTCTTATTTGGATTGGGATAAATAATATGGCTGTTTATTTTGTA
ACTGGCAAATTAGGCTCTGGAAAGACGCTCGTTAGCGTTGGTAAGATTCAGGATAAAATTGTAGCTGGGTGCAAAATAGCAACTAATCTTGATTTAAGGCTTCAAAACCT
CCCGCAAGTCGGGAGGTTCGCTAAAACGCCTCGCGTTCTTAGAATACCGGATAAGCCTTCTATATCTGATTTGCTTGCTATTGGGCGCGGTAATGATTCCTACGATGAAA
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TCACACGGTCGGTATTTCAAACCATTAAATTTAGGTCAGAAGATGAAATTAACTAAAATATATTTGAAAAAGTTTTCTCGCGTTCTTTGTCTTGCGATTGGATTTGCATC
AGCATTTACATATAGTTATATAACCCAACCTAAGCCGGAGGTTAAAAAGGTAGTCTCTCAGACCTATGATTTTGATAAATTCACTATTGACTCTTCTCAGCGTCTTAATC
TAAGCTATCGCTATGTTTTCAAGGATTCTAAGGGAAAATTAATTAATAGCGACGATTTACAGAAGCAAGGTTATTCACTCACATATATTGATTTATGTACTGTTTCCATT
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CGCAATTTCTTTATTTCTGTTTTACGTGCAAATAATTTTGATATGGTAGGTTCTAACCCTTCCATTATTCAGAAGTATAATCCAAACAATCAGGATTATATTGATGAATT
GCCATCATCTGATAATCAGGAATATGATGATAATTCCGCTCCTTCTGGTGGTTTCTTTGTTCCGCAAAATGATAATGTTACTCAAACTTTTAAAATTAATAACGTTCGGG
CAAAGGATTTAATACGAGTTGTCGAATTGTTTGTAAAGTCTAATACTTCTAAATCCTCAAATGTATTATCTATTGACGGCTCTAATCTATTAGTTGTTAGTGCTCCTAAA
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TTCATTTGCTGCTGGCTCTCAGCGTGGCACTGTTGCAGGCGGTGTTAATACTGACCGCCTCACCTCTGTTTTATCTTCTGCTGGTGGTTCGTTCGGTATTTTTAATGGCG
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CAGAATGTCCCTTTTATTACTGGTCGTGTGACTGGTGAATCTGCCAATGTAAATAATCCATTTCAGACGATTGAGCGTCAAAATGTAGGTATTTCCATGAGCGTTTTTCC
TGTTGCAATGGCTGGCGGTAATATTGTTCTGGATATTACCAGCAAGGCCGATAGTTTGAGTTCTTCTACTCAGGCAAGTGATGTTATTACTAATCAAAGAAGTATTGCTA
CAACGGTTAATTTGCGTGATGGACAGACTCTTTTACTCGGTGGCCTCACTGATTATAAAAACACTTCTCAGGATTCTGGCGTACCGTTCCTGTCTAAAATCCCTTTAATC
GGCCTCCTGTTTAGCTCCCGCTCTGATTCTAACGAGGAAAGCACGTTATACGTGCTCGTCAAAGCAACCATAGTACGCGCCCTGTAGCGGCGCATTAAGCGCGGCGGGTG
TGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTCGCTTTCTTCCCTTCCTTTCTCGCCACGTTCGCCGGCTTTCCCCGTCAAGCT
CTAAATCGGGGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTTGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGAC
GGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACTGGAACAACACTCAACCCTATCTCGGGCTATTCTTTTGATTTATAAGGGA
TTTTGCCGATTTCGGAACCACCATCAAACAGGATTTTCGCCTGCTGGGGCAAACCAGCGTGGACCGCTTGCTGCAACTCTCTCAGGGCCAGGCGGTGAAGGGCAATCAGC
TGTTGCCCGTCTCACTGGTGAAAAGAAAAACCACCCTGGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCC
CGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTG
TGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACGAATTCGAGCTCGGTACCCGGGGATCCTCCGTCTTTATCGAGGTAACAAGCACCACGTAGCTT
AAGCCCTGTTTACTCATTACACCAACCAGGAGGTCAGAGTTCGGAGAAATGATTTATGTGAAATGCGTCAGCCGATTCAAGGCCCCTATATTCGTGCCCACCGACGAGTT
GCTTACAGATGGCAGGGCCGCACTGTCGGTATCATAGAGTCACTCCAGGGCGAGCGTAAATAGATTAGAAGCGGGGTTATTTTGGCGGGACATTGTCATAAGGTTGACAA
TTCAGCACTAAGGACACTTAAGTCGTGCGCATGAATTCACAACCACTTAGAAGAACATCCACCCTGGCTTCTCCTGAGAA

Sequence of thiolated DNA strands:

5’-ThioMC6-D/CTCTCTCTCTCTCTCTCTCT TTTTTTTTTTTTTTTTTTTT-3’. This strand was used for 30nm AuNP capture both within type-1 and type-2 hexagon cavities.

1×4 HT Strands sequence

Start	End	Sequence	Length	Note
0[23]	0[714]	TCAGAGCCACCACCCTCAGGTAATGAGTAAACAGGGCT	38	Core staple
0[39]	3[55]	CTCAGAACCGCCGCCAGCAGAACCCATGTACCG	33	Core staple
0[87]	3[71]	GAACCAGAGCCACCACCGGAACGTTTCGTCA	31	Core staple
0[103]	11[103]	ATAATCAACATTCCACAGACAGCCCAGCGGAGTGAGAATACCGATATA	48	Core staple
0[145]	0[104]	CGTCAAAGGGCGAAAAACCGTCTATCAGCCATCTTTTC	38	Core staple
0[161]	3[177]	AGAACGTGTCCAGACGTTACACTCATCTTTGAC	33	Core staple
0[209]	3[193]	AGGGTTGAGTGTTGTTCCAGTTTTATACCAA	31	Core staple
0[225]	11[225]	AAGAATAGTTGTATCATCGCCTGAAGGACAGATGAACGGTTTGTGAAT	48	Core staple
0[267]	0[226]	TGGTGGTTCCGAAATCGGCAAAATCCCTTATAAATCAA	38	Core staple
0[283]	3[299]	CGAAAATCTAGCCGGAACGCAGACGACGATAAA	33	Core staple
0[331]	3[315]	GAGAGAGTTGCAGCAAGCGGTCAGCGAGAGG	31	Core staple
0[347]	11[347]	TTCACCGCGGGGGTAATAGTAAAATAAATCAAAAATCAGGTTTTGCGG	48	Core staple
0[389]	0[348]	TTCTTTTCACCAGTGAGACGGGCAACAGCTGATTGCCC	38	Core staple
0[405]	3[421]	GGCGCCAGATAAATATTCAAATTCTACTAATAG	33	Core staple
0[453]	3[437]	TTAATGAATCGGCCAACGCGCGTAACATCCA	31	Core staple
0[469]	11[469]	TGTCGTGCATTAGCAAAATTAAGCAAAATTTTTAGAACCCTCTGGAGC	48	Core staple
0[511]	0[470]	TGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACC	38	Core staple
0[527]	3[543]	GCTAACTCAAAAACATTATTCCTGTAGCCAGCT	33	Core staple
0[575]	3[559]	AGCCGGAAGCATAAAGTGTAAAATTAAATGT	31	Core staple
0[591]	11[591]	TTCCACACTCCGTGGGAACAAACGGGAAGATCGCACTCCACGTTGTAA	48	Core staple
0[633]	0[592]	ATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAA	38	Core staple
0[649]	3[665]	ATTCGTAAATGGGCGCATCTCGGTGGGCACGAA	33	Core staple
0[697]	3[681]	TGTTACCTCGATAAAGACGGAGCTTGAATCG	31	Core staple
0[713]	11[713]	TAAGCTACTCTCCGAACTCTGACCCAAATAAATCCTCATTAAGTATTA	48	Core staple
3[5]	3[732]	AGCCGCCACCAGATTGGCCTTGATATTCACAAATCCTGGTTGGT	44	Core staple
3[56]	0[40]	TAACACTGACGCCTCCCTCAGAGCCGCCACC	31	Core staple
3[127]	3[122]	CGTAACGATCTGCTAAACAACTTTCAACAGTTTCTCATAGTTAG	44	Core staple
3[178]	0[162]	CCCCAGCGATGGAACAAGAGTCCACTATTAA	31	Core staple
3[249]	3[244]	GAAATCCGCGACCGAACTGACCAACTTTGAAAGTAAATTGTGTC	44	Core staple
3[300]	0[284]	AACCAAAATCACGCTGGTTTGCCCCAGCAGG	31	Core staple
3[371]	3[366]	GATAGCGTCCAGTTCAGAAAACGAGAATGACCATGTTTAGACTG	44	Core staple
3[422]	0[406]	TAGTAGCATGGGAGAGGCGGTTTGCGTATTG	31	Core staple
3[493]	3[488]	AGAGCATAAAGCCTTTATTTCAACGCAAGGATAAATAAAGCCTC	44	Core staple
3[544]	0[528]	TTCATCAACGCCTGGGGTGCCTAATGAGTGA	31	Core staple
3[615]	3[610]	GTAATGGGATAGACGACGACAGTATCGGCCTCAGCGGATTGACC	44	Core staple
3[666]	0[650]	TATAGGGGCGATCCCCGGGTACCGAGCTCGA	31	Core staple
4[55]	7[39]	AGCAAGCCCAATAGTTGACAGGAGGGCTCAGTA	33	Core staple
4[71]	7[87]	ACCCTCATTGAGGGTTGATATAAGTATAGCC	31	Core staple
4[177]	7[161]	AGAATACACTAAAAGTAAATGAATTTCGTCACC	33	Core staple
4[193]	7[209]	TAAAACGAAGGAACGAGGGTAGCAACGGCTA	31	Core staple
4[299]	7[283]	TAACCCTCGTTTACAGGCGCAGACGTTGGGAAG	33	Core staple
4[315]	7[331]	GTAAGAGCAAACTAACGGAACAACATTATTA	31	Core staple
4[421]	7[405]	GAAAAGGTGGCATCTTGAATCCCCCTTTTAAAT	33	Core staple
4[437]	7[453]	TCATTTGGGGGAAGTTTCATTCCATATAACA	31	Core staple
4[543]	7[527]	TTCGCGTCTGGCCTGACCCTGTAATCATATGTA	33	Core staple
4[559]	7[575]	GAACGCCATCCCCAAAAACAGGAAGATTGTA	31	Core staple
4[665]	7[649]	CTGTAAGCAACTCGGTAACCGTGCATTCTTCTA	33	Core staple
4[681]	7[697]	ACAGTGCGGCGACTTAAGTGTCCTTAGTGCT	31	Core staple
7[24]	0[24]	GGGGTTTTTTGAGGCAGGTCAGACGAACCACCACCAGAGCCGCCACCC	48	Core staple
7[40]	4[56]	CCAGGCGGATAAGTGCCGTCGATTCAGGGAT	31	Core staple
7[88]	8[40]	CGGAATAGCAGAACCGCCACCCTCTCCAAAAA	32	Core staple
7[146]	0[146]	TTGCGGGATTCTGTATGGGATTTTAAAGTTTTGTCGTCTTGACTCCAA	48	Core staple
7[162]	4[178]	CTCAGCAGCGAAAGACAGCATCAGAGGCAAA	31	Core staple
7[210]	8[162]	CAGAGGCTTAATGCCACTACGAAGAGAACCGG	32	Core staple
7[268]	0[268]	TCAGGACGGTCAATCATAAGGGAACCTGCTCCATGTTACTCTGTTTGA	48	Core staple
7[284]	4[300]	AAAAATCTACGTTAATAAAACGACACTATCA	31	Core staple
7[332]	8[284]	CAGGTAGAACGCCAAAAGGAATTATAAGAGGA	32	Core staple
7[390]	0[390]	TCAACATGTCAAATGCTTTAAACAATACTGCGGAATCGTCGGTGGTTT	48	Core staple
7[406]	4[422]	ATGCAACTAAAGTACGGTGTCTGCGCGAGCT	31	Core staple
7[454]	8[406]	GTTGATTCGTCAATAACCTGTTTAGGTGAGAA	32	Core staple
7[512]	0[512]	ATGTCAATACTTTTGCGGGAGAAGCTAAATCGGTTGTACCACATTAAT	48	Core staple
7[528]	4[544]	CCCCGGTTGATAATCAGAAAAGCAAAAATAA	31	Core staple
7[576]	8[528]	TAAGCAAAAATCAGCTCATTTTTTGCCATTCA	32	Core staple
7[634]	0[634]	GGTGGATGTCTGCCAGTTTGAGGGGGTCACGTTGGTGTAGTCATGGTC	48	Core staple
7[650]	4[666]	AGTGGTTGTGAATTCATGCGCACCCTGCCAT	31	Core staple
7[698]	8[650]	GAATTGTCGCCCTGGAGTGACTCTTACATGGC	32	Core staple
8[23]	7[103]	GCCTTTAATCAGAACCGCCACCCTGTGTATCA	32	Core staple
8[39]	11[55]	AAAGGCTCTTAAACAGCTTGATACCGATAGT	31	Core staple
8[145]	7[225]	TCAACGTAAAACGGGTAAAATACGTTGAGGAC	32	Core staple
8[161]	11[177]	ATATTCATGAGAAACACCAGAACGAGTAGTA	31	Core staple
8[267]	7[347]	AATATCGCCTAATGCAGATACATAAAGATTCA	32	Core staple
8[283]	11[299]	AGCCCGAAAAACTCCAACAGGTCAGGATTAG	31	Core staple
8[389]	7[469]	AATCACCAATACATTTCGCAAATGCCAATTCT	32	Core staple
8[405]	11[421]	AGGCCGGAGCCGGAGAGGGTAGCTATTTTTG	31	Core staple
8[511]	7[591]	GGAAGGGCCATTAAATTTTTGTTATATTTAAA	32	Core staple
8[527]	11[543]	GGCTGCGCAAAGGGGGATGTGCTGCAAGGCG	31	Core staple
8[633]	7[713]	GTGTACTGTAATCTATTTACGCTCAACCTTAT	32	Core staple
8[649]	11[665]	TTTTGATGTGCCCGTATAAACAGTTAATGCC	31	Core staple
11[7]	8[24]	TCAGCTTGCTTTCGAGGTGAATTTCCAAAAGGA	33	Core staple
11[56]	4[72]	TGCGCCGTTTTTCACGTTGAAAATCAGAGCCACC	34	Core staple
11[88]	0[88]	ACGCATAAGAAAGGAACAACTAAAACTACAACGCCTGTAGAATCACCG	48	Core staple
11[104]	7[145]	TTCGGTCGCTGAGGCTTGCAGGGAGTTAAAGGCCGCTT	38	Core staple
11[129]	8[146]	TTCAGTGAATAAGGCTTGCCCTGACTACCCAAA	33	Core staple
11[178]	4[194]	AATTGGGTCAAGAGTAATCTTGACAGCACCAACC	34	Core staple
11[210]	0[210]	TTTAATCAGTACAGACCAGGCGCAAAAGTACAACGGAGATCCCGAGAT	48	Core staple
11[226]	7[267]	TACCTTATGCGATTTTAAGAACTGGCTCATTATACCAG	38	Core staple
11[251]	8[268]	CTTCAAAGCGAACCAGACCGGAAGCAGACTTCA	33	Core staple
11[300]	4[316]	AGAGTACGGATTGCATCAAAAAGATCGAGGCATA	34	Core staple
11[332]	0[332]	GAGGTCATTCTTTACCCTGACTATAAGAAGTTTTGCCAGACTGGCCCT	48	Core staple
11[348]	7[389]	ATGGCTTAGAGCTTAATTGCTGAATATAATGCTGTAGC	38	Core staple
11[373]	8[390]	CAACCGTTCTAGCTGATAAATTAATGACAGTCA	33	Core staple
11[422]	4[438]	AGAGATCTAGGTAAAGATTCAAAAGGCTATATTT	34	Core staple
11[454]	0[454]	CCTGAGAGTCATATATTTTAAATGACAGGCAAGGCAAAGACAGCTGCA	48	Core staple
11[470]	7[511]	AAACAAGAGAATCGATGAACGGTAATCGTAAAACTAGC	38	Core staple
11[495]	8[512]	CTCTTCGCTATTACGCCAGCTGGCGAACTGTTG	33	Core staple

11[544]	4[560]	ATTAAGTCCAGGCAAAGCGCCATTCAACCAATAG	34	Core staple
11[576]	0[576]	AGTCACGAGCCAGCTTTCCGGCACACAACCCGTCGGATTCAACATACG	48	Core staple
11[592]	7[633]	AACGACGGCCAGTGCCAAGCTTTCTCAGGAGAAGCCAG	38	Core staple
11[617]	8[634]	ACGGGGTCAGTGCCTTGAGTAACAGATACAGGA	33	Core staple
11[666]	4[682]	CCCTGCCCCGTTCCAGTAAGCGTCAATGATACCG	34	Core staple
11[698]	0[698]	AAACATGAAAAGCCAGAATGGAAATTTCACATAAATCATTGTGGTGCT	48	Core staple
11[714]	7[23]	AGAGGCTGAGACTCCTCAAGAGAAGGATTAGGATTAGC	38	Core staple
3[72]	11[87]	CCAGTACAAGGAATTGCGAATAATAATACAATGACAACAACCATCGCCC	49	Core staple
3[194]	11[209]	GCGCGAAACTAGGCTGGCTGACCTTCACTTGAGATGGTTTAATTTCAAC	49	Core staple
3[316]	11[331]	CTTTTGCAATATAGTCAGAAGCAAAGCCTTTAATTGCTCCTTTTGATAA	49	Core staple
3[438]	11[453]	ATAAATCATCAATGCCTGAGTAATGTGTACAAAGGCTATCAGGTCATTG	49	Core staple
3[560]	11[575]	GAGCGAGTACGCTTCTGGTGCCGGAAATGGGTAACGCCAGGGTTTTCCC	49	Core staple
3[682]	11[697]	GCTGACGCAGCGCAGTCTCTGAATTTATATTTCGGAACCTATTATTCTG	49	Core staple
4[120]	4[487]	CCGCCACCCTTGTATCGGTTTT	22	2-bp
4[486]	4[121]	GACCATTAGTCAATATGATATA	22	2-bp
7[104]	11[372]	CCGTACTCAGGAGGTTTAGTT	21	2-bp
7[470]	11[6]	GCGAACGAGTAGATTTAGTTA	21	2-bp
4[242]	4[609]	GTTTCCATTACAAAGCTGCTGT	22	2-bp
4[608]	4[243]	TAAAATTCGGATCGGTGCGGAA	22	2-bp
7[226]	11[494]	TAAAGACTTTTTCATGAGGGC	21	2-bp
7[592]	11[128]	TTGTAAACGTTAATATTTTCA	21	2-bp
4[364]	4[731]	CACATTCAAGTTTTAATTCGAA	22	2-bp
4[730]	4[365]	CCCCGCTTCGTAATAAGTTTAC	22	2-bp
7[348]	11[616]	TCAGTTGAGATTTAGGAATTA	21	2-bp
7[714]	11[250]	GACAATGTCCCGCCAAAATAG	21	2-bp

2×4 HT Strands sequence

Start	End	Sequence	Length	Note
0[47]	5[39]	ACAATATTTTTGAATGAGGTGAGGTCGCCATTAGCCAGCA	40	Core staple
0[79]	2[49]	CCTGAAAGCGTAAGGTTTGGATTAGAGACTACCTTTTTAACCTCCGGCT	49	Core staple
0[153]	5[145]	GACTCCAACGTCAAAGAAGGCGTTTTCTGACCCCTGTTTA	40	Core staple
0[185]	2[155]	GAACAAGAGTCCACAAGCAAGCCCAATGAAATAGCAATAGCTATCTTAC	49	Core staple
0[259]	5[251]	TCGGCAAAATCCCTTAATACATAAATTAAGACTAAGTTTA	40	Core staple
0[291]	2[261]	AAAATCCTGTTTGAGAGCCACCATAGGTGTATCACCGTACTCAGGAGGT	49	Core staple
0[365]	5[357]	CCTTCACCGCCTGGCCTTCCACAGGTAACACTTCTTTCCA	40	Core staple
0[397]	2[367]	ACCAGTGAGACGGGGAGGCTTTGAATTTCAACTTTAATCATTGTGAATT	49	Core staple
0[471]	5[463]	TGAATCGGCCAACGCGTGCAGATATAGAAAGAACTATCAT	40	Core staple
0[503]	2[473]	GGGAAACCTGTCGTTCCTTTTGAGTAAAGATTCAAAAGGGTGAGAAAGG	49	Core staple
0[577]	5[569]	GGGGTGCCTAATGAGTGGTAATCGCAGGTCATCAGAAAAG	40	Core staple
0[609]	2[579]	CGAGCCGGAAGCATCCAGGCAAACAGGGCTTAAGCTACGTGGTGCTTGT	49	Core staple
0[636]	3[20]	TATCCGCTCACACATAAATCATTTCCAGCAGA	32	Core staple
1[27]	0[48]	AACTGATAGCCCTAAAGGGTTATATAACGGCACAG	35	Core staple
1[72]	3[87]	GATGCAAATAGGTCTGATACTTCTGAATAACGA	33	Core staple
1[104]	3[103]	GAGAAAACTTTTTCAAACCGTCTATCATCTGGCCAACAGAATTAAGAC	48	Core staple
1[138]	0[154]	TAGTTAATTTCCCTTTTTAAGAAGAACGTG	30	Core staple
1[178]	3[193]	CCGAACAAGCAAGAAAGTTTTTATTTTCATGCG	33	Core staple
1[210]	3[209]	AACGCAATAATAACGGAAGAATAGCCCGAGATAGGGTTGAAGAGAGAT	48	Core staple
1[244]	0[260]	AAAGAACTGGCCCGCCACCCTCATCCGAAA	30	Core staple
1[284]	3[299]	AGAACCGAGCCCGGAACCGGAACCGCCTCCGTT	33	Core staple
1[316]	3[315]	TTTTCAGGGATAGCAAGTTGCAGCAAGCGGTCCACGCTGGTACCAGGC	48	Core staple
1[350]	0[366]	GGAACCCATGTTGCGATTTTAAGTGATTGC	30	Core staple
1[390]	3[405]	ACCAGTCAGATGGTTTAGGACTAAAGACTTGAA	33	Core staple
1[422]	3[421]	GTTAATAAAACGAACTGGCGGTTTGCGTATTGGGCGCCAGGCCCTGAC	48	Core staple
1[456]	0[472]	AACATTATTACACAGTCAAATCAGCATTAA	30	Core staple
1[496]	3[511]	TTCAACCAATGTGTAGTAAGAGGTCATTTTGCA	33	Core staple
1[528]	3[527]	GAGAGGGTAGCTATTTTCACATTAATTGCGTTGCGCTCACAATTTTTA	48	Core staple
1[562]	0[578]	TCTACAAAGGCGATAAAGACGGAAAAGCCT	30	Core staple
1[602]	3[617]	CGAGCTCATGAGTAAAGCGCCATTCGCCATTGA	33	Core staple
2[20]	9[636]	ACGAACCACTCCGAACTCTGATCTGTAAGCAA	32	Core staple
2[48]	3[55]	TAGGTTACACGGAATTCATCAATATA	26	Core staple
2[87]	0[80]	TCAAAATCATCCAATCCCTTCTGA	24	Core staple
2[126]	9[106]	GTTTGAAAGAAGAGTCAATAGTAAATCGTCGC	32	Core staple
2[154]	3[161]	CGAAGCATCAAACAAGTACCGCACTC	26	Core staple
2[193]	0[186]	ATAATAAGAAGTTACCCCAGTTTG	24	Core staple
2[232]	9[212]	CAGTATGTACAAGAATTGAGTAGACGGGAGAA	32	Core staple
2[260]	3[267]	TTAGTAATGAGGCATAATCAAAATCA	26	Core staple
2[299]	0[292]	ATAAGTATCCACCCTCAGCAGGCG	24	Core staple
2[338]	9[318]	CCAGTACAAGTGCCGTCGAGAAAGTATTAAGA	32	Core staple
2[366]	3[373]	ACCTTAACCACAGAACGAGGGTAGCA	26	Core staple
2[405]	0[398]	TGGGCTTGAGGACGTTTTCTTTTC	24	Core staple
2[444]	9[424]	AGATTTAGACACCAGAACGAGAACCGGATATT	32	Core staple
2[472]	3[479]	CCGGAGAGGCATGATTAGAGAGTACC	26	Core staple
2[511]	0[504]	GCCTGAGTGTTCTAGCTTCCAGTC	24	Core staple
2[550]	9[530]	CTGGAGCACTCATATATTTTAAAACATTATGA	32	Core staple
2[578]	3[585]	TACCTCTATTAAGGCACCGCTTCTGG	26	Core staple
2[617]	0[610]	TTGGTGTAGAATTCGTACAACATA	24	Core staple
3[21]	0[637]	AGATAAAACAGGCTATTAGTCTTTGAAATTGT	32	Core staple
3[56]	1[71]	ATCCTGATTAATACGTTATATGTAAATGCT	30	Core staple
3[88]	1[103]	TAGCTTAGGATAGAACGCAAGACAAAGAACGC	32	Core staple
3[104]	1[137]	GCTGATACCGACCGTGTGATAAATGGCGAAAAATATATTT	40	Core staple
3[162]	1[177]	ATCGAGAACTATTAAAAAGTAAGCAGATAG	30	Core staple
3[194]	1[209]	CTAATATCGTGTTGTTAGAAGGAAACCGAGGA	32	Core staple
3[210]	1[243]	AACCCTAGCAAACGTAGAAAATACTAAATCAAAATACCCA	40	Core staple
3[268]	1[283]	CCGGAACCATGGTGGTGAACCGCCACCCTC	30	Core staple
3[300]	1[315]	TTGCTCAGTTTGCCCCAGAGCCACCACCCTCA	32	Core staple
3[316]	1[349]	GGATAAACTACAACGCCTGTAGCACTGAGAGAGCCCAATA	40	Core staple
3[374]	1[389]	ACGGCTACACAACAGCAACTGGCTCATTAT	30	Core staple
3[406]	1[421]	TAAGGCTTGGTGGTTTGGGAAGAAAAATCTAC	32	Core staple
3[422]	1[455]	GAGAAGAATACCACATTCAACTAACGGGGAGAAACGGAAC	40	Core staple
3[480]	1[495]	TTTAATTGCGCCAGCTCCATCAATATGATA	30	Core staple
3[512]	1[527]	AGGATAAATGCCCGCTTGATAAATTAATGCCG	32	Core staple
3[528]	1[561]	GAACCAACAAGAGAATCGATGAACGAGCTAACTTGAGAGA	40	Core staple
3[586]	1[601]	TGCCGGAAAAAAGTGTGGATCCCCGGGTAC	30	Core staple

3[618]	1[26]	CGCATTTCAATTCCACAATCATGGTCATAGCTGTTTCCTGTGTAATGCGCG	51	Core staple
4[39]	10[631]	GTATTAACCTAATAGAAGGAATTGAGGAAGGTTATCTAAAATAAGTGACTC	51	Core staple
4[71]	6[56]	TATCATCATCATTTGATCTGGTCAGTTGGC	30	Core staple
4[145]	10[101]	GAATAAACATAAAGTAACATGTAATTTAGGCAGAGGCATTTTCAAATCAAT	51	Core staple
4[177]	6[162]	TTTCCTTATTGTCCAGATTGAGAATCGCCA	30	Core staple
4[251]	10[207]	CAACATATTTGAGCCAATTGACGGAAATTATTCATTAAAGGTGACAGAGAG	51	Core staple
4[283]	6[268]	CATAGCCCCATCACCATTCAACCGATTGAG	30	Core staple
4[357]	10[313]	CTCATAGTGCTCCAAAAATTGCGAATAATAATTTTTTCACGTTCTGCCTAT	51	Core staple
4[389]	6[374]	ATCGTCACCTTATCAGGAGTGAGAATAGAA	30	Core staple
4[463]	10[419]	GCCAAAAGTGAATCCCTAGACTGGATAGCGTCCAATACTGCGGGCTGGCTG	51	Core staple
4[495]	6[480]	AACCAGACCAGAAAACTTTGCCAGAGGGGG	30	Core staple
4[569]	10[525]	TAGCATGTGGCCTTCCCTCATTTTTTAACCAATAGGAACGCCAAGCCTCAG	51	Core staple
4[601]	6[586]	CCTCAGGAATAAATGTAAATTCGCATTAAA	30	Core staple
5[40]	7[55]	GCAAATGACAGTTGAATTAGAGCCGTCAATA	31	Core staple
5[72]	8[40]	CTCAAATATCAAACAACACCAGAAGAAAACAGA	33	Core staple
5[146]	7[161]	GTATCATACAACGCCACCGACAAAAGGTAAA	31	Core staple
5[178]	8[146]	AAGCCAACGCTCAATAAATCAATAAATAGAAGG	33	Core staple
5[252]	7[267]	TTTTGTCAAGGTAAATTTTGGGAATTAGAGC	31	Core staple
5[284]	8[252]	CCAGCGCCAAAGACCCGTCATCGGCCACCCTCA	33	Core staple
5[358]	7[373]	GACGTTAGACTAAAGGAGGAGCCTTTAATTG	31	Core staple
5[390]	8[358]	CTAAACAACTTTCAACAAAGGCCGCGCCACTAC	33	Core staple
5[464]	7[479]	AACCCTCGAAAATGTTCCTCAAATGCTTTAA	31	Core staple
5[496]	8[464]	TAGCGAGAGGCTTTCGGATTCGAGCGCTCAACA	33	Core staple
5[570]	7[585]	CCCCAAAATAAATCAGTGTAGCCAGCTTTCA	31	Core staple
5[602]	8[570]	AAATTGTAAACGTTATAGACGACGATCTTCGCT	33	Core staple
6[55]	4[40]	AAATCAAAAAATCTAATATCAGATGATGGCTCA	33	Core staple
6[161]	4[146]	TATTTAATGCGTTATAAACGGGTATTAAACTAA	33	Core staple
6[267]	4[252]	GGAGGGACAATCAATAGTTTGCCATCTTTTTGG	33	Core staple
6[373]	4[358]	AGGAACATAAATGAATGAAAGACAGCATCGGCC	33	Core staple
6[479]	4[464]	TAATAGTTTTACCAGACTCCAACAGGTCAGAAC	33	Core staple
6[585]	4[570]	TTTTTGTACAGGAAGACCAGCCAGCTTTCCAAC	33	Core staple
7[21]	8[637]	AGCACTAACAAACCGCCTGCAACATGGGCACG	32	Core staple
7[56]	5[71]	GATAATAATTCCTGATAGCATCACCTTGCTGAAC	34	Core staple
7[84]	9[39]	TATTAGACTTTAAAGAAACCGTTATTAATCAGATGA	36	Core staple
7[127]	8[107]	AATAAGAGAATACCGGAATCATAAAATTTTCC	32	Core staple
7[162]	5[177]	GTAATTCCATTCCAAGCAAATTCTTACCAGTATA	34	Core staple
7[190]	9[145]	AAACAACATGTTAGAAACCAGTCCTGAAGCGAACCT	36	Core staple
7[233]	8[213]	CCGTCACCGACAAAAGAAACGCAAACACCCTG	32	Core staple
7[268]	5[283]	CAGCAAACTTATTAGCGAAAATTCATATGGTTTA	34	Core staple
7[296]	9[251]	ACCATTAGCAAGGCGCGTTTTAATCAGTCAGCATTG	36	Core staple
7[339]	8[319]	CCAAAAAAAAGTAGCGTAACGATCCTCCTCAA	32	Core staple
7[374]	5[389]	TATCGGTCTCAGCAGCTTTCTGTATGGGATTTTG	34	Core staple
7[402]	9[357]	GGTGAATTTCTTGGGAGTTAACCATCGCATACACTA	36	Core staple
7[445]	8[425]	TAAATATTCATGAATTACGAGGCAAAATCAAC	32	Core staple
7[480]	5[495]	ACAGTTCGGAAGCAAACGACGATAAAAACCAAAA	34	Core staple
7[508]	9[463]	TAAATCAAAAATGCGTTTTAATTGCATCAAGTTTCA	36	Core staple
7[551]	8[531]	AATTCGCGTCTCAATCATATGTACTACTTTTG	32	Core staple
7[586]	5[601]	TCAACATGATCGCACTTTGTATAAGCAAATATTT	34	Core staple
7[614]	9[569]	AACCCGTCGGATTTTGAGGGGGTCACGTAGGCGATT	36	Core staple
8[39]	10[14]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAG	42	Core staple
8[71]	10[56]	CCTACCATAAACAATTGAATACCAAGTTAC	30	Core staple
8[106]	7[126]	CTTAGAATCCTGGAAACAGTACATGAGCCAGT	32	Core staple
8[145]	10[120]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATT	42	Core staple
8[177]	10[162]	CCGCGCCCAAACGATTACAATTTTATCCTG	30	Core staple
8[212]	7[232]	AACAAAGTCAGAATAGCAGCCTTTAATTATCA	32	Core staple
8[251]	10[226]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATA	42	Core staple
8[283]	10[268]	CCTCAGAACCAGTGCCTAAAGCCAGAATGG	30	Core staple
8[318]	7[338]	GAGAAGGATTACAGTTAATGCCCCGAAAATCT	32	Core staple
8[357]	10[332]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTA	42	Core staple
8[389]	10[374]	TTCCATTAATTTGAAATGTATCATCGCCTG	30	Core staple
8[424]	7[444]	GTAACAAAGCTACCAGGCGCATAGAATCGTCA	32	Core staple
8[463]	10[438]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGC	42	Core staple
8[495]	10[480]	AGCTTAATTAATCATACATTTCGCAAATGG	30	Core staple
8[530]	7[550]	CGGGAGAAGCCAATTAAGCAATAATCAAAAAT	32	Core staple
8[569]	10[544]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGCG	42	Core staple
8[601]	10[586]	TGTTGGGAACGCCAAACTTTCTCAGGAGAA	30	Core staple
8[636]	7[20]	AATATAGGGGCACGCTCGCCCTGGTCTTTAGG	32	Core staple
9[40]	11[47]	ATATACAGCGCAGAGGGAAAACAA	24	Core staple
9[64]	8[72]	CGGGAGAAACAATAACGGATTCGCCTTAGTGGAAGGGTTAGAA	43	Core staple
9[107]	2[127]	TATTAATTTTACTAGAAAAAGTAAATTTAATG	32	Core staple
9[146]	11[153]	CCCGACTTCCAACGCTATTTATCC	24	Core staple
9[170]	8[178]	TTAAATCAAGATTAGTTGCTATTGGATGACGTAGGAATCATTA	43	Core staple
9[213]	2[233]	TTAACTGAAGACACCACGGAATCCTTATTACG	32	Core staple
9[252]	11[259]	ACAGGAGGAGTCTCTGTGGTAATA	24	Core staple
9[276]	8[284]	TTGGCCTTGATATTCACAAACAACTGGGGCTCAGAGCCGCCAC	43	Core staple
9[319]	2[339]	GGCTGAGATAAAGTTTTGTCGGAGTTTCGTCA	32	Core staple
9[358]	11[365]	AAACACTCGTGTCGAATAAGGGAA	24	Core staple
9[382]	8[390]	TTATACCAAGCGCGAAACAAAGTATCAGTTTTCATGAGGAAGT	43	Core staple
9[425]	2[445]	CATTACCCTAGTAAGAGCAACTTCATCAGTTG	32	Core staple
9[464]	11[471]	TTCCATATCCTGTTTAGTAGTAGC	24	Core staple
9[488]	8[496]	CTGCGAACGAGTAGATTTAGTTTGGTAACTGCGGATGGCTTAG	43	Core staple
9[531]	2[551]	CCCTGTAACCCGGTTGATAATTGCCTGAGAGT	32	Core staple
9[570]	11[577]	AAGTTGGGTGGATGTTTGTCAACC	24	Core staple
9[594]	8[602]	AGTCACGACGTTGTAAAACGACGCGGGGCTCAGGCTGCGCAAC	43	Core staple
9[637]	2[21]	CTCGTCGGGTGCCACGCTGAGAAAAATACCGA	32	Core staple
10[55]	4[72]	AAAATCGTAACAGTACTTTGCACGTGAGCGGAAT	34	Core staple
10[100]	11[79]	ATATGTGAGTGAATAACCTGATTGCTTTTCATTTG	35	Core staple
10[161]	4[178]	AATCTTAGCGGGAGGTAAATCAGATTCGGCTGTC	34	Core staple
10[206]	11[185]	AATAACATAAAAACAGTTGCACCCAGCTTTTTGTT	35	Core staple
10[267]	4[284]	AAAGCGCTTGAGGCAGCAGAGCCACATTTTCGGT	34	Core staple
10[312]	11[291]	TTCGGAACCTATTATTATAAATCCTCATTTGAGTA	35	Core staple
10[373]	4[390]	ATAAATTATCTTTGACATACGTAATTTTTGCGGG	34	Core staple
10[418]	11[397]	ACCTTCATCAAGAGTAACAACGGAGATTGAGGACA	35	Core staple
10[479]	4[496]	TCAATAAAACAGTTGAAATGCTGTATTCAAAGCG	34	Core staple
10[524]	11[503]	AGCATAAAGCTAAATCGACCATTAGATACAGGCAA	35	Core staple
10[585]	4[602]	GCCAGGGTAACGCCAGGTGCGGGCCCAGTATCGG	34	Core staple
10[630]	11[609]	TATGATACCGACAGTGGCCAGTGCCAAGATAACCC	35	Core staple

11[48]	9[63]	AATTAATTACATTTTCAAAATTACTTTTACAT	32	Core staple
11[80]	2[88]	AATTACCTTTTTTAATTGAAAACATGCTTCTGTGAATTTA	40	Core staple
11[154]	9[169]	CAATCCAAATAAGAATAGCAAGCTTTGAAGCC	32	Core staple
11[186]	2[194]	TAACGTCAAAAATGAAAGGGTAATAGCGCATTTAAGCCCA	40	Core staple
11[260]	9[275]	AGTTTTAACGGGGTCGCCACCCTGTCAGACGA	32	Core staple
11[292]	2[300]	ACAGTGCCCGTATAAAGGATTAGCAAACATGAGGGTTGAT	40	Core staple
11[366]	9[381]	CCGAACTGACCAACACGGGTAAACCCCAGCGA	32	Core staple
11[398]	2[406]	GATGAACGGTGTACAGGCTCATTCTTGACAAGTAGTAAAT	40	Core staple
11[472]	9[487]	ATTAACATCCAATAGCTGAATATTTCCCAATT	32	Core staple
11[504]	2[512]	GGCAAAGAATTAGCAATTTATTTCTGTACCAAAATGCAAT	40	Core staple
11[578]	9[593]	TTATGACAATGTCCGGGCGATCGGGTTTTCCC	32	Core staple
11[610]	2[618]	CGCTTCTAATCTATTTCTTGAATCCCCTGCCACCTCCTGG	40	Core staple
8[39]	10[14]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAG	42	1-bp
8[145]	10[120]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATT	42	1-bp
8[251]	10[226]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATA	42	1-bp
8[357]	10[332]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTA	42	1-bp
8[463]	10[438]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGC	42	1-bp
8[569]	10[544]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGCG	42	1-bp
11[14]	4[432]	AAAGAAGATGATGAAACAAATTGCGTAGATTT	32	1-bp
11[332]	4[114]	CGGAACGAGGCGCAGACGCAACCTAAAACGAA	32	1-bp
4[219]	11[437]	CCTAATTTACGAGCATGTCAGCTAATGCAGAG	32	1-bp
4[537]	11[119]	CGAAAGACTTCAAATATCCAGGTCTTTACCCG	32	1-bp
5[220]	5[537]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAAG	32	1-bp
5[538]	5[219]	CGCGAGGCGTTTTACAAGAAAAATAATATCCC	32	1-bp
10[119]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	1-bp
10[437]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	1-bp
11[120]	4[538]	CCAGTTACAAAATAAACAGTATTCTAAGAACC	32	1-bp
11[438]	4[220]	AAAAGGTGGCATCAATTCATATGCAACTAAAT	32	1-bp
4[325]	11[543]	CTTTAGCGTCAGACTGTAGCCGGAAACGTCAA	32	1-bp
4[643]	11[225]	TAACCGTGCATCTGCCAGTCTCCGTGGGAACA	32	1-bp
5[326]	5[643]	GGGGATGTGCTGCATGGTGTAGATGGGCGCAT	32	1-bp
5[644]	5[325]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTTT	32	1-bp
10[225]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	1-bp
10[543]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	1-bp
11[226]	4[644]	TGGCTTTTGATGATACAGACCAGAACCACCAG	32	1-bp
11[544]	4[326]	CGACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	32	1-bp
8[39]	10[15]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGA	41	1-bp-quasi-gap
8[145]	10[121]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAAT	41	1-bp-quasi-gap
8[251]	10[227]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCAT	41	1-bp-quasi-gap
8[357]	10[333]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTT	41	1-bp-quasi-gap
8[463]	10[439]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAG	41	1-bp-quasi-gap
8[569]	10[545]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGC	41	1-bp-quasi-gap
4[112]	11[331]	TATCATTTTGCGGAACACAAACAATTCGACC	31	1-bp-quasi-gap
4[430]	11[13]	GGTCGCTGAGGCTTGCAAAACAGCTTGATAA	31	1-bp-quasi-gap
5[114]	5[430]	CAAGAGGCAAAAGACCACGCATAACCGATAT	31	1-bp-quasi-gap
5[432]	5[112]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGTA	31	1-bp-quasi-gap
10[13]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	1-bp-quasi-gap
10[331]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	1-bp-quasi-gap
11[15]	4[432]	AAGAAGATGATGAAACAAATTGCGTAGATTT	31	1-bp-quasi-gap
11[333]	4[114]	GGAACGAGGCGCAGACGCAACCTAAAACGAA	31	1-bp-quasi-gap
4[218]	11[437]	CTAATTTACGAGCATGTCAGCTAATGCAGAG	31	1-bp-quasi-gap
4[536]	11[119]	GAAAGACTTCAAATATCCAGGTCTTTACCCG	31	1-bp-quasi-gap
5[220]	5[536]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAA	31	1-bp-quasi-gap
5[538]	5[218]	CGCGAGGCGTTTTACAAGAAAAATAATATCC	31	1-bp-quasi-gap
10[119]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	1-bp-quasi-gap
10[437]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	1-bp-quasi-gap
11[121]	4[538]	CAGTTACAAAATAAACAGTATTCTAAGAACC	31	1-bp-quasi-gap
11[439]	4[220]	AAAGGTGGCATCAATTCATATGCAACTAAAT	31	1-bp-quasi-gap
4[324]	11[543]	TTTAGCGTCAGACTGTAGCCGGAAACGTCAA	31	1-bp-quasi-gap
4[642]	11[225]	AACCGTGCATCTGCCAGTCTCCGTGGGAACA	31	1-bp-quasi-gap
5[326]	5[642]	GGGGATGTGCTGCATGGTGTAGATGGGCGCA	31	1-bp-quasi-gap
5[644]	5[324]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTT	31	1-bp-quasi-gap
10[225]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	1-bp-quasi-gap
10[543]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	1-bp-quasi-gap
11[227]	4[644]	GGCTTTTGATGATACAGACCAGAACCACCAG	31	1-bp-quasi-gap
11[545]	4[326]	GACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	31	1-bp-quasi-gap
4[110]	11[332]	ATCATTTTGCGGAACACAAACAATTCGACC	30	1-bp-gap
4[216]	11[438]	TAATTTACGAGCATGTCAGCTAATGCAGAG	30	1-bp-gap
4[322]	11[544]	TTAGCGTCAGACTGTAGCCGGAAACGTCAA	30	1-bp-gap
4[428]	11[14]	GTCGCTGAGGCTTGCAAAACAGCTTGATAA	30	1-bp-gap
4[534]	11[120]	AAAGACTTCAAATATCCAGGTCTTTACCCG	30	1-bp-gap
4[640]	11[226]	ACCGTGCATCTGCCAGTCTCCGTGGGAACA	30	1-bp-gap
5[113]	5[428]	CAAGAGGCAAAAGACCACGCATAACCGATA	30	1-bp-gap
5[219]	5[534]	AGTACGGTGTCTGGAAAAAGATTAAGAGGA	30	1-bp-gap
5[325]	5[640]	GGGGATGTGCTGCATGGTGTAGATGGGCGC	30	1-bp-gap
5[431]	5[110]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGT	30	1-bp-gap
5[537]	5[216]	CGCGAGGCGTTTTACAAGAAAAATAATATC	30	1-bp-gap
5[643]	5[322]	CCCAGAGCCGCCGCAGCGACAGAATCAAGT	30	1-bp-gap
8[39]	10[17]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTG	40	1-bp-gap
8[145]	10[123]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAA	40	1-bp-gap
8[251]	10[229]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCA	40	1-bp-gap
8[357]	10[335]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACT	40	1-bp-gap
8[463]	10[441]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGA	40	1-bp-gap
8[569]	10[547]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATG	40	1-bp-gap
11[17]	4[431]	AGAAGATGATGAAACAAATTGCGTAGATTT	30	1-bp-gap
11[123]	4[537]	AGTTACAAAATAAACAGTATTCTAAGAACC	30	1-bp-gap
11[229]	4[643]	GCTTTTGATGATACAGACCAGAACCACCAG	30	1-bp-gap
11[335]	4[113]	GAACGAGGCGCAGACGCAACCTAAAACGAA	30	1-bp-gap
11[441]	4[219]	AAGGTGGCATCAATTCATATGCAACTAAAT	30	1-bp-gap
11[547]	4[325]	ACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	30	1-bp-gap
10[14]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	1-bp-gap
10[120]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	1-bp-gap
10[226]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	1-bp-gap
10[332]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	1-bp-gap
10[438]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	1-bp-gap
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	1-bp-gap

8[39]	10[15]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGA	41	2-bp
8[145]	10[121]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAAT	41	2-bp
8[251]	10[227]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCAT	41	2-bp
8[357]	10[333]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTT	41	2-bp
8[463]	10[439]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAG	41	2-bp
8[569]	10[545]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGC	41	2-bp
4[112]	11[332]	TATCATTTTGCGGAACACAAACAATTCGACCC	32	2-bp
4[430]	11[14]	GGTCGCTGAGGCTTGCAAAACAGCTTGATAAA	32	2-bp
5[113]	5[430]	ACAAGAGGCAAAAGACCACGCATAACCGATAT	32	2-bp
5[431]	5[112]	ATTTCAGGTTTAACGTTTTAAAAGTTTGAGTA	32	2-bp
10[14]	7[401]	GCCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	49	2-bp
10[332]	7[83]	AGAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	49	2-bp
11[15]	4[431]	AAGAAGATGATGAAACAAATTGCGTAGATTTC	32	2-bp
11[333]	4[113]	GGAACGAGGCGCAGACGCAACCTAAAACGAAT	32	2-bp
4[218]	11[438]	CTAATTTACGAGCATGTCAGCTAATGCAGAGA	32	2-bp
4[536]	11[120]	GAAAGACTTCAAATATCCAGGTCTTTACCCGC	32	2-bp
5[219]	5[536]	CAGTACGGTGTCTGGAAAAAGATTAAGAGGAA	32	2-bp
5[537]	5[218]	GCGCGAGGCGTTTTACAAGAAAAATAATATCC	32	2-bp
10[120]	7[507]	TTTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	49	2-bp
10[438]	7[189]	CTACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	49	2-bp
11[121]	4[537]	CAGTTACAAAATAAACAGTATTCTAAGAACCC	32	2-bp
11[439]	4[219]	AAAGGTGGCATCAATTCATATGCAACTAAATC	32	2-bp
4[324]	11[544]	TTTAGCGTCAGACTGTAGCCGGAAACGTCAAC	32	2-bp
4[642]	11[226]	AACCGTGCATCTGCCAGTCTCCGTGGGAACAT	32	2-bp
5[325]	5[642]	TGGGGATGTGCTGCATGGTGTAGATGGGCGCA	32	2-bp
5[643]	5[324]	TCCCAGAGCCGCCGCAGCGACAGAATCAAGTT	32	2-bp
10[226]	7[613]	ACAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	49	2-bp
10[544]	7[295]	GCCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	49	2-bp
11[227]	4[643]	GGCTTTTGATGATACAGACCAGAACCACCAGT	32	2-bp
11[545]	4[325]	GACTTAAGTGTCCTTAGAGCTGGCGAAAGGCC	32	2-bp
8[39]	10[16]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTG	40	2-bp-quasi-gap
8[145]	10[122]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAA	40	2-bp-quasi-gap
8[251]	10[228]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCA	40	2-bp-quasi-gap
8[357]	10[334]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACT	40	2-bp-quasi-gap
8[463]	10[440]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGA	40	2-bp-quasi-gap
8[569]	10[546]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATG	40	2-bp-quasi-gap
4[217]	11[438]	TAATTTACGAGCATGTCAGCTAATGCAGAGA	31	2-bp-quasi-gap
4[535]	11[120]	AAAGACTTCAAATATCCAGGTCTTTACCCGC	31	2-bp-quasi-gap
5[219]	5[535]	CAGTACGGTGTCTGGAAAAAGATTAAGAGGA	31	2-bp-quasi-gap
5[537]	5[217]	GCGCGAGGCGTTTTACAAGAAAAATAATATC	31	2-bp-quasi-gap
10[120]	7[507]	TTTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	49	2-bp-quasi-gap
10[438]	7[189]	CTACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	49	2-bp-quasi-gap
11[122]	4[537]	AGTTACAAAATAAACAGTATTCTAAGAACCC	31	2-bp-quasi-gap
11[440]	4[219]	AAGGTGGCATCAATTCATATGCAACTAAATC	31	2-bp-quasi-gap
4[111]	11[332]	ATCATTTTGCGGAACACAAACAATTCGACCC	31	2-bp-quasi-gap
4[429]	11[14]	GTCGCTGAGGCTTGCAAAACAGCTTGATAAA	31	2-bp-quasi-gap
5[113]	5[429]	ACAAGAGGCAAAAGACCACGCATAACCGATA	31	2-bp-quasi-gap
5[431]	5[111]	ATTTCAGGTTTAACGTTTTAAAAGTTTGAGT	31	2-bp-quasi-gap
10[14]	7[401]	GCCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	49	2-bp-quasi-gap
10[332]	7[83]	AGAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	49	2-bp-quasi-gap
11[16]	4[431]	AGAAGATGATGAAACAAATTGCGTAGATTTC	31	2-bp-quasi-gap
11[334]	4[113]	GAACGAGGCGCAGACGCAACCTAAAACGAAT	31	2-bp-quasi-gap
4[323]	11[544]	TTAGCGTCAGACTGTAGCCGGAAACGTCAAC	31	2-bp-quasi-gap
4[641]	11[226]	ACCGTGCATCTGCCAGTCTCCGTGGGAACAT	31	2-bp-quasi-gap
5[325]	5[641]	TGGGGATGTGCTGCATGGTGTAGATGGGCGC	31	2-bp-quasi-gap
5[643]	5[323]	TCCCAGAGCCGCCGCAGCGACAGAATCAAGT	31	2-bp-quasi-gap
10[226]	7[613]	ACAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	49	2-bp-quasi-gap
10[544]	7[295]	GCCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	49	2-bp-quasi-gap
11[228]	4[643]	GCTTTTGATGATACAGACCAGAACCACCAGT	31	2-bp-quasi-gap
11[546]	4[325]	ACTTAAGTGTCCTTAGAGCTGGCGAAAGGCC	31	2-bp-quasi-gap
8[39]	10[17]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCT	39	2-bp-gap
8[145]	10[123]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTA	39	2-bp-gap
8[251]	10[229]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTC	39	2-bp-gap
8[357]	10[335]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTAC	39	2-bp-gap
8[463]	10[441]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCG	39	2-bp-gap
8[569]	10[547]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCAT	39	2-bp-gap
4[216]	11[438]	AATTTACGAGCATGTCAGCTAATGCAGAGA	30	2-bp-gap
4[534]	11[120]	AAGACTTCAAATATCCAGGTCTTTACCCGC	30	2-bp-gap
5[219]	5[534]	CAGTACGGTGTCTGGAAAAAGATTAAGAGG	30	2-bp-gap
5[537]	5[216]	GCGCGAGGCGTTTTACAAGAAAAATAATAT	30	2-bp-gap
10[120]	7[507]	TTTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	49	2-bp-gap
10[438]	7[189]	CTACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	49	2-bp-gap
11[123]	4[537]	GTTACAAAATAAACAGTATTCTAAGAACCC	30	2-bp-gap
11[441]	4[219]	AGGTGGCATCAATTCATATGCAACTAAATC	30	2-bp-gap
4[110]	11[332]	TCATTTTGCGGAACACAAACAATTCGACCC	30	2-bp-gap
4[428]	11[14]	TCGCTGAGGCTTGCAAAACAGCTTGATAAA	30	2-bp-gap
5[113]	5[428]	ACAAGAGGCAAAAGACCACGCATAACCGAT	30	2-bp-gap
5[431]	5[110]	ATTTCAGGTTTAACGTTTTAAAAGTTTGAG	30	2-bp-gap
10[14]	7[401]	GCCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	49	2-bp-gap
10[332]	7[83]	AGAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	49	2-bp-gap
11[17]	4[431]	GAAGATGATGAAACAAATTGCGTAGATTTC	30	2-bp-gap
11[335]	4[113]	AACGAGGCGCAGACGCAACCTAAAACGAAT	30	2-bp-gap
4[322]	11[544]	TAGCGTCAGACTGTAGCCGGAAACGTCAAC	30	2-bp-gap
4[640]	11[226]	CCGTGCATCTGCCAGTCTCCGTGGGAACAT	30	2-bp-gap
5[325]	5[640]	TGGGGATGTGCTGCATGGTGTAGATGGGCG	30	2-bp-gap
5[643]	5[322]	TCCCAGAGCCGCCGCAGCGACAGAATCAAG	30	2-bp-gap
10[226]	7[613]	ACAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	49	2-bp-gap
10[544]	7[295]	GCCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	49	2-bp-gap
11[229]	4[643]	CTTTTGATGATACAGACCAGAACCACCAGT	30	2-bp-gap
11[547]	4[325]	CTTAAGTGTCCTTAGAGCTGGCGAAAGGCC	30	2-bp-gap
4[114]	7[108]	ATTATCATTTTGCGGAACACAAACAATTCGAC	32	Blunt end
4[432]	7[426]	TCGGTCGCTGAGGCTTGCAAAACAGCTTGATA	32	Blunt end
6[108]	7[83]	AACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	47	Blunt end
6[426]	7[401]	CCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	47	Blunt end
8[39]	10[13]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAGC	43	Blunt end

8[357]	10[331]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTAG	43	Blunt end
9[19]	5[114]	TTCAGGTTTAACGTTTTAAAAGTTTGAGTAAC	32	Blunt end
9[337]	5[432]	AAGAGGCAAAAGACCACGCATAACCGATATAT	32	Blunt end
11[13]	8[19]	AAAAGAAGATGATGAAACAAATTGCGTAGATT	32	Blunt end
11[331]	8[337]	CCGGAACGAGGCGCAGACGCAACCTAAAACGA	32	Blunt end
4[220]	7[214]	TCCTAATTTACGAGCATGTCAGCTAATGCAGA	32	Blunt end
4[538]	7[532]	CCGAAAGACTTCAAATATCCAGGTCTTTACCC	32	Blunt end
6[214]	7[189]	ACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	47	Blunt end
6[532]	7[507]	TGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	47	Blunt end
8[145]	10[119]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATTT	43	Blunt end
8[463]	10[437]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGCT	43	Blunt end
9[125]	5[220]	GCGAGGCGTTTTACAAGAAAAATAATATCCCA	32	Blunt end
9[443]	5[538]	GTACGGTGTCTGGAAAAAGATTAAGAGGAAGC	32	Blunt end
11[119]	8[125]	GCCAGTTACAAAATAAACAGTATTCTAAGAAC	32	Blunt end
11[437]	8[443]	GAAAAGGTGGCATCAATTCATATGCAACTAAA	32	Blunt end
4[326]	7[320]	CCTTTAGCGTCAGACTGTAGCCGGAAACGTCA	32	Blunt end
4[644]	7[638]	GTAACCGTGCATCTGCCAGTCTCCGTGGGAAC	32	Blunt end
6[320]	7[295]	CCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	47	Blunt end
6[638]	7[613]	AAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	47	Blunt end
8[251]	10[225]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATAC	43	Blunt end
8[569]	10[543]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGCGC	43	Blunt end
9[231]	5[326]	CCAGAGCCGCCGCAGCGACAGAATCAAGTTTG	32	Blunt end
9[549]	5[644]	GGGATGTGCTGCATGGTGTAGATGGGCGCATC	32	Blunt end
11[225]	8[231]	ATGGCTTTTGATGATACAGACCAGAACCACCA	32	Blunt end
11[543]	8[549]	ACGACTTAAGTGTCCTTAGAGCTGGCGAAAGG	32	Blunt end
4[112]	7[108]	TATCATTTTGCGGAACACAAACAATTCGAC	30	2-nt loop
4[430]	7[426]	GGTCGCTGAGGCTTGCAAAACAGCTTGATA	30	2-nt loop
6[106]	7[83]	CTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	45	2-nt loop
6[424]	7[401]	GATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	45	2-nt loop
8[39]	10[13]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAGC	43	2-nt loop
8[357]	10[331]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTAG	43	2-nt loop
9[21]	5[114]	CAGGTTTAACGTTTTAAAAGTTTGAGTAAC	30	2-nt loop
9[339]	5[432]	GAGGCAAAAGACCACGCATAACCGATATAT	30	2-nt loop
11[15]	8[19]	AAGAAGATGATGAAACAAATTGCGTAGATT	30	2-nt loop
11[333]	8[337]	GGAACGAGGCGCAGACGCAACCTAAAACGA	30	2-nt loop
4[218]	7[214]	CTAATTTACGAGCATGTCAGCTAATGCAGA	30	2-nt loop
4[536]	7[532]	GAAAGACTTCAAATATCCAGGTCTTTACCC	30	2-nt loop
6[212]	7[189]	GCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	45	2-nt loop
6[530]	7[507]	ACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	45	2-nt loop
8[145]	10[119]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATTT	43	2-nt loop
8[463]	10[437]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGCT	43	2-nt loop
9[127]	5[220]	GAGGCGTTTTACAAGAAAAATAATATCCCA	30	2-nt loop
9[445]	5[538]	ACGGTGTCTGGAAAAAGATTAAGAGGAAGC	30	2-nt loop
11[121]	8[125]	CAGTTACAAAATAAACAGTATTCTAAGAAC	30	2-nt loop
11[439]	8[443]	AAAGGTGGCATCAATTCATATGCAACTAAA	30	2-nt loop
4[324]	7[320]	TTTAGCGTCAGACTGTAGCCGGAAACGTCA	30	2-nt loop
4[642]	7[638]	AACCGTGCATCTGCCAGTCTCCGTGGGAAC	30	2-nt loop
6[318]	7[295]	AATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	45	2-nt loop
6[636]	7[613]	ACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	45	2-nt loop
8[251]	10[225]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATAC	43	2-nt loop
8[569]	10[545]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGC	41	2-nt loop
9[233]	5[326]	AGAGCCGCCGCAGCGACAGAATCAAGTTTG	30	2-nt loop
9[551]	5[644]	GATGTGCTGCATGGTGTAGATGGGCGCATC	30	2-nt loop
11[227]	8[231]	GGCTTTTGATGATACAGACCAGAACCACCA	30	2-nt loop
11[545]	8[549]	GACTTAAGTGTCCTTAGAGCTGGCGAAAGG	30	2-nt loop

4×2 HT Strands sequence

Start	End	Sequence	Length	Note
0[39]	2[24]	AAGAATACAAAGAAACAAACAGAAATAAAGAAATACCAAGAAAATACC	48	Core staple
0[71]	2[64]	ACAGAGATAGAACCCTCCGCTTCTGGTGCCGGAGCCAGCT	40	Core staple
0[103]	7[126]	CAAAGGGCAAGCCTGTTTAGTTTCAGCTAATG	32	Core staple
0[142]	2[127]	AGTCCACTGCCTGTTTGTCCAGACGACGACAAAAGGTAAAGCATCTGC	48	Core staple
0[174]	2[167]	TAGGGTTGAGTGTTGTGCCAGCTGGCGAAAGGGGATAGGT	40	Core staple
0[206]	7[229]	AATCCCTTTTACCGAAGCCCTTATTTTGTCAC	32	Core staple
0[245]	2[230]	ATCCTGTTGAAAATTCAAACGCAAAGACACCATGGCAACAGCGAGTAA	48	Core staple
0[277]	2[270]	CGGTCCACGCTGGTTTAGCTTTCTCAGGAGAATGGCCTTC	40	Core staple
0[309]	7[332]	TCACCGCCCAGTGCCCGTATAACCGCCACCCT	32	Core staple
0[348]	2[333]	CACCAGTGCCACCCTCTGTATCACCGTACTCATATAGCCCTGTTAAAT	48	Core staple
0[380]	2[373]	TGCGTATTGGGCGCCATGACAATGTCCCGCCATGTAAACG	40	Core staple
0[412]	7[435]	ATGAATCGCAAAAGAATACACGTACAGACCAG	32	Core staple
0[451]	2[436]	CAGTCGGGGCTGGCTGAACTTTGAAAGAGGACGGGAACCGGTTGATAA	48	Core staple
0[483]	2[476]	CATTAATTGCGTTGCGGCAACTCGTCGGTGGGCGGTAATC	40	Core staple
0[515]	7[538]	AGCCTGGGGAAAGACTTCAAAGTTTCATTCCA	32	Core staple
0[554]	2[539]	CACAACATTTGATTCCTATGCAACTAAAGTACCTCAACATACAAAGGC	48	Core staple
0[586]	2[579]	CTGTGTGAAATTGTTATGAGTAAACAGGGCTTTAAATTAA	40	Core staple
0[618]	7[23]	CTCGAATTAAAGTTTGAGTAACATTATCATTT	32	Core staple
1[32]	4[24]	CTATTAGTCGCCATTATTACAAAAATATGTGAAGATAAAA	40	Core staple
1[96]	10[104]	ATTCAGGCCGACAGTATGAGAATCGCCATAGTACCGACAATAAACAACATGATCAT	56	Core staple
1[135]	4[127]	CGGTGCGGGTAACCGTGTAATTCTAAGCCTTACAGTAATA	40	Core staple
1[199]	10[207]	TTGGGTAACCGTGGGATAATAACGGAATAATACATAAAGGCGGAATAAGTTTTTTA	56	Core staple
1[238]	4[230]	GTTGTAAAAAATGTGATATAAAAGTTCGGTCATAGCAAAC	40	Core staple
1[302]	10[310]	GGTTGTGACAATAGGAGGCTGAGACTCCTGTTGATATAAGGGAGGTTTAGTAACAG	56	Core staple
1[341]	4[333]	CTTAGTGCTAAATTTTGGAATAGGTTTTTTCAGATAAGTG	40	Core staple
1[405]	10[413]	TACGCTCGAACAGGAATTTGTATCATCGCGTCAATCATAAAGATGAACGGTTAAAA	56	Core staple
1[444]	4[436]	ACAGTGCGGTACCCCGAACTGACCATCAGTTGCCGGAACG	40	Core staple
1[508]	10[516]	GCTGACGCGAGAGTCTGATTAGAGAGTACTAATGCTGTAGGGTGTCTGGAATATCG	56	Core staple
1[547]	4[539]	ACTCTGACAGAGATCTGTTTTAAAGGATAAAAAGAGCTTA	40	Core staple
1[611]	10[619]	GATAAAGACCATCAATAACGGATTCGCCTGATTGCTTTGAATTGCGTAGATTTTCA	56	Core staple
2[23]	1[31]	GAACGCAGTCAAATCACGGAGGATCCCTATTTTTGAATGG	40	Core staple

2[47]	7[63]	TAAAACATCTTTAATGTGCACGTACACCAGAAGGAGCGGAATTATCAT	48	Core staple
2[63]	9[79]	TTCCGGCACGTCGCTATTAATTAATTTTCCCTTTAAGACGCAACGCTC	48	Core staple
2[126]	1[134]	CAGTTTGAGGGGACGATGCGCAACTGTTGGGAAGGGCGAT	40	Core staple
2[150]	7[166]	GGCGCATCGCCTCTTCTCATCGAGATCAACAATAGATAAGTCCTGAAC	48	Core staple
2[166]	9[182]	CACGTTGGACCCAGCTACAATTTTATCCTGAACCTAATTTCAGAAGGA	48	Core staple
2[182]	11[182]	CCGTAATGGGGATGTGAAAGTTACAACAATGA	32	Core staple
2[229]	1[237]	CAACCCGTCGGATTCTCGCCAGGGTTTTCCCAGTCACGAC	40	Core staple
2[253]	7[269]	TCAACATTACGACGGCGAGCCAGCATATGGTTTACCAGCGCCAAAGAC	48	Core staple
2[269]	9[285]	CTGTAGCCTCTTTTCATAATCAAAATCACCGGGAGCCGCCTTCTGAAA	48	Core staple
2[285]	11[285]	TTCGCGTCGCCAGGGTACCTATTATAACGGGG	32	Core staple
2[332]	1[340]	CAGCTCATTTTTTAACATTCATGCGCACGACTTAAGTGTC	40	Core staple
2[356]	7[372]	ATTCGCATTGAATTGTTCATAGTTAGAACCGCCACCCTCAGAGCCACC	48	Core staple
2[372]	9[388]	TTAATATTCTCCAAAAGGAGCCTTTAATTGTACTTAAACAGCGCGAAA	48	Core staple
2[388]	11[388]	ATTTAAATAAATAACCTATACCAAGGCACCAA	32	Core staple
2[435]	1[443]	TCAGAAAAGCCCCAAACCCTGGAGTGACTCTATGATACCG	40	Core staple
2[459]	7[475]	AATCATATGCCCTGCCGATGGTTTACCTTCATCAAGAGTAATCTTGAC	48	Core staple
2[475]	9[491]	GTAAAACTTAATGCAGATACATAACGCCAAAACATAACCCCGGAAGCA	48	Core staple
2[491]	11[499]	TCGATGAACACGAATAAACCAGACATCAAAAAGATTAAGA	40	Core staple
2[538]	1[546]	TATCAGGTCATTGCCTATTTCACATAAATCATTTCTCCGA	40	Core staple
2[562]	7[578]	TATTTTTGCTCCTGGTCATTAACACAATTCTGCGAACGAGTAGATTTA	48	Core staple
2[578]	9[594]	TGCCGGAGAAATGCAATGCCTGAGTAATGTGTGCCACGCTACCTTTTA	48	Core staple
2[594]	11[594]	CTAGCTGAAAGCTACGGTAACAGTTTTGCCCG	32	Core staple
3[104]	5[150]	ATTTAGGCAGAGGCATTTTCGAGCAATCAAGATTAGTTGCAGGTTTTGAACAAGCA	56	Core staple
3[207]	5[253]	AAGACTCCTTATTACGCAGTATGTTAGCCCCCTTATTAGCTCGGCATTAAAATCAC	56	Core staple
3[310]	5[356]	CGGGGTTTTGCTCAGTACCAGGCGCGTTGAAAATCTCCAAAATAATAAAGCGTAAC	56	Core staple
3[413]	5[459]	CGCGACCTGCTCCATGTTACTTAGAGATTTAGGAATACCAAAAGATTCAATTTCAA	56	Core staple
3[516]	5[562]	AGAGGTCATTTTTGCGGATGGCTTATTTTTAGAACCCTCACAACGCAATCCAATAA	56	Core staple
3[619]	5[47]	AAGGCCGGAGAAACCACCAGCAGAGTGAATAACCTTGCTTAAATCAATTCGCGCAG	56	Core staple
4[23]	8[603]	CAGAGGTGAGGCGGTCAGTATTAACACCGCCT	32	Core staple
4[63]	2[48]	AATGGAAACAGTACATCTGTAAATGATAGCCC	32	Core staple
4[126]	8[88]	AGAGAATATAAATTTAACAACGCCATAGCGAT	32	Core staple
4[167]	2[151]	ACCTCCCGACTTGCGGGTATTTTGCTGTAGATG	33	Core staple
4[229]	8[191]	GTAGAAAATACCCCAAAAGAACTGGAGCGTCT	32	Core staple
4[269]	2[254]	CTGTAGCGCGTTTTCAGTTTGCCAAGCTTTCA	32	Core staple
4[332]	8[294]	CCGTCGAGAGGCAAGAGAAGGATTGGAACCGC	32	Core staple
4[372]	2[357]	AACTAAAGGAATTGCGAAAAAAGGTTGTTAAA	32	Core staple
4[435]	8[397]	AGGCGCAGACGCTGATAAATTGTGCTTTCGAG	32	Core staple
4[475]	2[460]	ACATTATTACAGGTAGCATTCAACAGCATGTC	32	Core staple
4[538]	8[500]	ATTGCTGAATACTTTAATTGCTCCGTAAGAGC	32	Core staple
4[578]	2[563]	GGAGAAGCCTTTATTTTATATTTTAGGGTAGC	32	Core staple
5[48]	0[40]	AGGCGAATAAATTATTCGCGAACTTCTGACCTGAAAGCGT	40	Core staple
5[80]	11[55]	AAGAAGATGAATAATGTTCAAATAGTGTGATAAATAAGGC	40	Core staple
5[151]	0[143]	AGCCGTTTTACCGCACGCTATTACTCCAGTTTGGAACAAG	40	Core staple
5[183]	11[158]	CCGCGCCCCTTATCATCTGAACACGAATTGAGTTAAGCCC	40	Core staple
5[254]	0[246]	CAGTAGCAGGGAATTACAGTGCCAGCCCCAGCAGGCGAAA	40	Core staple
5[286]	11[261]	ACGTCACCTGAATTATAAGCCAGATGATGATACAGGAGTG	40	Core staple
5[357]	0[349]	GATCTAAAGACAGCCCCAACCTTAGGGTGGTTTTTCTTTT	40	Core staple
5[389]	11[364]	GTAAATGAAGTACAAAGAGGGTAGTAAACGGGTAAAATAC	40	Core staple
5[460]	0[452]	CTTTAATCGGGCTTGAATCTGTAACTCACTGCCCGCTTTC	40	Core staple
5[492]	11[467]	TAAGAACTCTGACGAGCAAATGCTTGACTATTATAGTCAG	40	Core staple
5[563]	0[555]	ATCATACAAGTAGTAGTGGTGTAATCCGCTCACAATTCCA	40	Core staple
5[595]	11[570]	TAAGCAATCGAGCTGAAACAACTATTACAAACAATTCGAC	40	Core staple
7[24]	0[619]	TGCGGAACGTGGCACAGACAACGGGTACCGAG	32	Core staple
7[64]	4[64]	CATATTCCAGAACCTACCATATCATATTCATTTCAATTACCCTTTTTT	48	Core staple
7[127]	0[104]	CAGAACGCATTAAAGAACGTGGACTCCAACGT	32	Core staple
7[167]	4[168]	AAGAAAAACGGGTATTAAACCAAGTTATTTTCATCGTAGGTTAGCGA	47	Core staple
7[230]	0[207]	AATCAATATGATGGTGGTTCCGAAATCGGCAA	32	Core staple
7[270]	4[270]	AAAAGGGCCCGACTTGAGCCATTTCCATTACCATTAGCAAGCGTCAGA	48	Core staple
7[333]	0[310]	CAGAACCGAGACGGGCAACAGCTGATTGCCCT	32	Core staple
7[373]	4[373]	ACCCTCATCCTGTAGCATTCCACAGTTTTGTCGTCTTTCCAAAGGAAC	48	Core staple
7[436]	0[413]	GCGCATAGAAACCTGTCGTGCCAGCTGCATTA	32	Core staple
7[476]	4[476]	AAGAACCGGAACGAGTAGTAAATTATTGTGAATTACCTTAACGGAACA	48	Core staple
7[539]	0[516]	TATAACAGACGAGCCGGAAGCATAAAGTGTAA	32	Core staple
7[579]	4[579]	GTTTGACCCATCAATTCTACTAATGGCAAGGCAAAGAATTCTTTTGCG	48	Core staple
8[87]	11[79]	AGCTTAGATAGAATCCAGGAAGATCGCACTCCAAACCAGGTATAAAGCCACCGGAA	56	Core staple
8[190]	2[183]	TTCCAGAGTCTTACCACGGATTGA	24	Core staple
8[293]	2[286]	CTCCCTCAAACCAGAGAAAAATAA	24	Core staple
8[396]	2[389]	GTGAATTTTCGGTTTAAAGCAAAT	24	Core staple
8[499]	2[492]	AACACTATGGAATTACCAAGAGAA	24	Core staple
8[602]	2[595]	GCAACAGTAGGTAAAGCAACCGTT	24	Core staple
9[48]	7[87]	AATGCTGAAAAACTTTGAAGGGTTTGATTATCAGATGATG	40	Core staple
9[64]	5[79]	CAATCGCACTGAGAAGAGTCAATAGTGAATTTTTGAATTACTGAGCAA	48	Core staple
9[80]	0[72]	AACAGTAGCTTACCAGCAAAGCGCGTCTATCATCTGGCCA	40	Core staple
9[151]	7[190]	AGAGAGAAAGAATTAATCCAAGAATAATATCCCATCCTAA	40	Core staple
9[167]	5[182]	AAACAGGGGCCAGTTACAAAATAAACAGCCATGAGGCGTTAATCATTA	48	Core staple
9[183]	0[175]	AACCGAGGAGCCGAACCTGCAAGGAAAGAATAGCCCGAGA	40	Core staple
9[254]	7[293]	AGGTCAGACCTCATTACACCGTCAGACATTCAACCGATTG	40	Core staple
9[270]	5[285]	CTTGATATACCCTCAGAACCGCCACCCTCAGATGCCTTTAGGCCGGAA	48	Core staple
9[286]	0[278]	CATGAAAGATTTCGGAGGATGTTCAGAGAGTTGCAGCAAG	40	Core staple
9[357]	7[396]	CGCTTTTGATCGGAACCTACAACGTTTCAGGGATAGCAAG	40	Core staple
9[373]	5[388]	TCACCCTCGCTTGATACCGATAGTTGCGCCGAGAGAATAGAGACGTTA	48	Core staple
9[389]	0[381]	CAAAGTACCCAGCGATCCGCTTCTGCGGGGAGAGGCGGTT	40	Core staple
9[460]	7[499]	TAGCGTCCATCCCCCTAAACACCAGATATTCATTACCCAA	40	Core staple
9[476]	5[491]	GGAATCGTTCGTTTACCAGACGACGATAAAAAACGAACTATGCGATTT	48	Core staple
9[492]	0[484]	AACTCCAATCAAAGCGTAGGGGCCTGAGTGAGCTAACTCA	40	Core staple
9[563]	7[602]	AGTTGAAAGGAGCACTAAAGGTGGATTAGATACATTTCGC	40	Core staple
9[579]	5[594]	GGAAGGTTGAGAGCCAGCAGCAAATGAAAAATCTGTAATAAGCAAAAT	48	Core staple
9[595]	0[587]	CATCGGGAAATATACATGGTGCTTTGGTCATAGCTGTTTC	40	Core staple
10[103]	3[103]	ATGCGTTATACAAATTGGCTTAATTCGGCCTCTTGAAAACAACATGTA	48	Core staple
10[206]	3[206]	AGAAAAGTAAGCAGATAAACGCAAACAAACGGACGCTAACGCATGATT	48	Core staple
10[309]	3[309]	TTAATGCCCCCTGCCTTATTAAGAACGCCATCCCACCACCAGGATTAG	48	Core staple
10[412]	3[412]	CACTCATCTTTGACCCAACGGAGAGATTGTATTCAGCTTGTCGAAATC	48	Core staple
10[515]	3[515]	CGTTTTAATTCGAGCTCAGGTCAGGGAGCAAAGAGGCATATTTTGATA	48	Core staple
10[618]	3[618]	GGTTTAACGTCAGATGGAAACAATATGATATTATTCAAAAGGGTGAGA	48	Core staple
11[56]	9[63]	GTTAAATAAGAATAAAAGACAAAGAACGCGAGTGCAAATC	40	Core staple
11[80]	1[95]	TCATAATTACTAGAAAGAAAAACCCATTCGCC	32	Core staple
11[159]	9[166]	AATAATAAGAGCAAGAAAGCGCATTAGACGGGTAACATAA	40	Core staple

11[183]	1[198]	AATAGCAATAGCTATCATAAATCACGATTAAG	32	Core staple
11[262]	9[269]	TACTGGTAATAAGTTTTCACAAACAAATAAATCGATTGGC	40	Core staple
11[286]	1[301]	TCAGTGCCTTGAGTAATGGCCCTGTTCTAAGT	32	Core staple
11[365]	9[372]	GTAATGCCACTACGAAAGCAGCGAAAGACAGCCGGGATCG	40	Core staple
11[389]	1[404]	CCTAAAACGAAAGAGGGCCAACGCAATCTATT	32	Core staple
11[468]	9[475]	AAGCAAAGCGGATTGCCATAAATATTCATTGAAATACTGC	40	Core staple
11[500]	1[507]	GGAAGCCCGTGCCTAATTGAATCG	24	Core staple
11[571]	9[578]	AACTCGTATTAAATCCATCTAAAATATCTTTAGGAATTGA	40	Core staple
11[595]	1[610]	AACGTTATTAATTTTACGTAATCAGTTACCTC	32	Core staple
4[107]	9[47]	CAAAATTAATTACATTTAACAATTTCATATCAAAATTATATGTA	44	1-bp
4[416]	9[356]	AAACAACTTTCAACAGTTTCAGCGGAGTCAATGACATTAAAGGC	44	1-bp
6[107]	8[32]	ATTGTTTGGATTATACTTCTGATGAAACTATATAACCATAGGTC	44	1-bp
6[416]	8[341]	TAACACTGAGTTTCGTCACCATTTTCTGGCAGGGAGACAACCAT	44	1-bp
7[88]	9[322]	GCAATTCATACCGACCTATTTTAGTTAATTTCGGTTGGGTAAACATCAAGAAAT	54	1-bp
7[397]	9[13]	CCCAATAGGTTTCCATCAACGGCTACAGAGGCTGAGGCTTTATGGGATTTTGCC	54	1-bp
8[31]	4[417]	TGAGAGACTACCTTTTTAAT	20	1-bp
8[340]	4[108]	CGCCCACGCATAACCGATAA	20	1-bp
9[14]	6[417]	CTCCGGCTTAATCTTCTGACCG	22	1-bp
9[323]	6[108]	ATTCGGTCGCTTTGAGGACTAG	22	1-bp
11[14]	11[322]	AAATTTAATGGTTTGAAATCAATATAATCCTA	32	1-bp
11[323]	11[13]	AGACTTTTTCATGAGGAAGAACCCATGTACCT	32	1-bp
4[210]	9[150]	GAAGGCTTATCCGGTATTCTAAGAACGCATTATTTAGCCTTTAC	44	1-bp
4[519]	9[459]	GTTGGGAAGAAAAATCTACGTTAATAAACCAAAATAAGACTGGA	44	1-bp
6[210]	8[135]	TCAATAATCGGCTGTCTTTCAATAGCAAAAATAGCATCCCAATC	44	1-bp
6[519]	8[444]	TTCAGTGAATAAGGCTTGCCGGCTCATTAAATGTTTGCGAGAGG	44	1-bp
7[191]	9[425]	TTTACGAGACCCACAACCTGAACAAAGTCAGAAAAAATGAGCAAATCAGATATG	54	1-bp
7[500]	9[116]	ATCAACGTCTTTACCCTTAAACAGTTCAGAAATAATAGTAATACCAGTCAGGAT	54	1-bp
8[134]	4[520]	CAAATAAGAAACGATTTTTC	20	1-bp
8[443]	4[211]	CTTTTGCAAAAGAAGTTTTA	20	1-bp
9[117]	6[520]	GTTTAACGTCGGGTAATTGAGA	22	1-bp
9[426]	6[211]	CCAGAGGGGGACGAGAATGACA	22	1-bp
11[117]	11[425]	GCTAATATCAGAGAGATACATGTAGAAACCAC	32	1-bp
11[426]	11[116]	ATAAATCAAAAATCAGGTAACAAAGCTGCTCC	32	1-bp
4[313]	9[253]	CCGTAATCAGTAGCGACAGAATCAAGTTGCCACCACGTTGAGGC	44	1-bp
4[622]	9[562]	AATCGGTTGTACCAAAAACATTATGACCCTAAAGCAAAATCAAC	44	1-bp
6[313]	8[238]	CGGAAATTATTCATTAAAGGAATGAAACGACAGGAGCCTCAGAG	44	1-bp
6[622]	8[547]	CTATATTTTCATTTGGGGCGAAAGCCTCCAGTTGGCTCACCTTG	44	1-bp
7[294]	9[528]	AGGGAGGGATGGCTTTATGGAAAGCGCAGTCTCCAGCATTCATCGATAGCAGCC	54	1-bp
7[603]	9[219]	AAATGGTCATTAGACTATAGATTAGAGCCGTCTATCTGGTAGAGCATAAAGCTC	54	1-bp
8[237]	4[623]	CCGCCACCAGAACCACCACA	20	1-bp
8[546]	4[314]	CTGAACCTCAAATATCAAAA	20	1-bp
9[220]	6[623]	AGAGCCGCCGCTGAATTTACCG	22	1-bp
9[529]	6[314]	CCTCAATCAAAATAGATAATAA	22	1-bp
11[220]	11[528]	TTCCAGTAAGCGTCATACAAGGTAAATATTGC	32	1-bp
11[529]	11[219]	ATTTGAGGATTTAGAAGTAATAACCTGTTTAG	32	1-bp
4[106]	9[47]	AAAATTAATTACATTTAACAATTTCATATCAAAATTATATGTA	43	1-bp-quasi-gap
4[415]	9[356]	AACAACTTTCAACAGTTTCAGCGGAGTCAATGACATTAAAGGC	43	1-bp-quasi-gap
6[106]	8[32]	TTGTTTGGATTATACTTCTGATGAAACTATATAACCATAGGTC	43	1-bp-quasi-gap
6[415]	8[341]	AACACTGAGTTTCGTCACCATTTTCTGGCAGGGAGACAACCAT	43	1-bp-quasi-gap
7[88]	9[322]	GCAATTCATACCGACCTATTTTAGTTAATTTCGGTTGGGTAAACATCAAGAAAT	54	1-bp-quasi-gap
7[397]	9[13]	CCCAATAGGTTTCCATCAACGGCTACAGAGGCTGAGGCTTTATGGGATTTTGCC	54	1-bp-quasi-gap
8[31]	4[417]	TGAGAGACTACCTTTTTAAT	20	1-bp-quasi-gap
8[340]	4[108]	CGCCCACGCATAACCGATAA	20	1-bp-quasi-gap
9[15]	6[417]	TCCGGCTTAATCTTCTGACCG	21	1-bp-quasi-gap
9[324]	6[108]	TTCGGTCGCTTTGAGGACTAG	21	1-bp-quasi-gap
11[15]	11[322]	AATTTAATGGTTTGAAATCAATATAATCCTA	31	1-bp-quasi-gap
11[324]	11[13]	GACTTTTTCATGAGGAAGAACCCATGTACCT	31	1-bp-quasi-gap
4[209]	9[150]	AAGGCTTATCCGGTATTCTAAGAACGCATTATTTAGCCTTTAC	43	1-bp-quasi-gap
4[518]	9[459]	TTGGGAAGAAAAATCTACGTTAATAAACCAAAATAAGACTGGA	43	1-bp-quasi-gap
6[209]	8[135]	CAATAATCGGCTGTCTTTCAATAGCAAAAATAGCATCCCAATC	43	1-bp-quasi-gap
6[518]	8[444]	TCAGTGAATAAGGCTTGCCGGCTCATTAAATGTTTGCGAGAGG	43	1-bp-quasi-gap
7[191]	9[425]	TTTACGAGACCCACAACCTGAACAAAGTCAGAAAAAATGAGCAAATCAGATATG	54	1-bp-quasi-gap
7[500]	9[116]	ATCAACGTCTTTACCCTTAAACAGTTCAGAAATAATAGTAATACCAGTCAGGAT	54	1-bp-quasi-gap
8[134]	4[520]	CAAATAAGAAACGATTTTTC	20	1-bp-quasi-gap
8[443]	4[211]	CTTTTGCAAAAGAAGTTTTA	20	1-bp-quasi-gap
9[118]	6[520]	TTTAACGTCGGGTAATTGAGA	21	1-bp-quasi-gap
9[427]	6[211]	CAGAGGGGGACGAGAATGACA	21	1-bp-quasi-gap
11[118]	11[425]	CTAATATCAGAGAGATACATGTAGAAACCAC	31	1-bp-quasi-gap
11[427]	11[116]	TAAATCAAAAATCAGGTAACAAAGCTGCTCC	31	1-bp-quasi-gap
4[312]	9[253]	CGTAATCAGTAGCGACAGAATCAAGTTGCCACCACGTTGAGGC	43	1-bp-quasi-gap
4[621]	9[562]	ATCGGTTGTACCAAAAACATTATGACCCTAAAGCAAAATCAAC	43	1-bp-quasi-gap
6[312]	8[238]	GGAAATTATTCATTAAAGGAATGAAACGACAGGAGCCTCAGAG	43	1-bp-quasi-gap
6[621]	8[547]	TATATTTTCATTTGGGGCGAAAGCCTCCAGTTGGCTCACCTTG	43	1-bp-quasi-gap
7[294]	9[528]	AGGGAGGGATGGCTTTATGGAAAGCGCAGTCTCCAGCATTCATCGATAGCAGCC	54	1-bp-quasi-gap
7[603]	9[219]	AAATGGTCATTAGACTATAGATTAGAGCCGTCTATCTGGTAGAGCATAAAGCTC	54	1-bp-quasi-gap
8[237]	4[623]	CCGCCACCAGAACCACCACA	20	1-bp-quasi-gap
8[546]	4[314]	CTGAACCTCAAATATCAAAA	20	1-bp-quasi-gap
9[221]	6[623]	GAGCCGCCGCTGAATTTACCG	21	1-bp-quasi-gap
9[530]	6[314]	CTCAATCAAAATAGATAATAA	21	1-bp-quasi-gap
11[221]	11[528]	TCCAGTAAGCGTCATACAAGGTAAATATTGC	31	1-bp-quasi-gap
11[530]	11[219]	TTTGAGGATTTAGAAGTAATAACCTGTTTAG	31	1-bp-quasi-gap
4[106]	9[47]	AAAATTAATTACATTTAACAATTTCATATCAAAATTATATGTA	43	2-bp
4[415]	9[356]	AACAACTTTCAACAGTTTCAGCGGAGTCAATGACATTAAAGGC	43	2-bp
6[106]	8[32]	TTGTTTGGATTATACTTCTGATGAAACTATATAACCATAGGTC	43	2-bp
6[415]	8[341]	AACACTGAGTTTCGTCACCATTTTCTGGCAGGGAGACAACCAT	43	2-bp
7[88]	9[323]	GCAATTCATACCGACCTATTTTAGTTAATTTCGGTTGGGTAAACATCAAGAAATA	55	2-bp
7[397]	9[14]	CCCAATAGGTTTCCATCAACGGCTACAGAGGCTGAGGCTTTATGGGATTTTGCCC	55	2-bp
8[31]	4[416]	TGAGAGACTACCTTTTTAATA	21	2-bp
8[340]	4[107]	CGCCCACGCATAACCGATAAC	21	2-bp
9[15]	6[416]	TCCGGCTTAATCTTCTGACCGT	22	2-bp
9[324]	6[107]	TTCGGTCGCTTTGAGGACTAGA	22	2-bp
11[15]	11[323]	AATTTAATGGTTTGAAATCAATATAATCCTAA	32	2-bp
11[324]	11[14]	GACTTTTTCATGAGGAAGAACCCATGTACCTA	32	2-bp
4[209]	9[150]	AAGGCTTATCCGGTATTCTAAGAACGCATTATTTAGCCTTTAC	43	2-bp
4[518]	9[459]	TTGGGAAGAAAAATCTACGTTAATAAACCAAAATAAGACTGGA	43	2-bp
6[209]	8[135]	CAATAATCGGCTGTCTTTCAATAGCAAAAATAGCATCCCAATC	43	2-bp

6[518]	8[444]	TCAGTGAATAAGGCTTGCCGGCTCATTAAATGTTTGCGAGAGG	43	2-bp
7[191]	9[426]	TTTACGAGACCCACAACCTGAACAAAGTCAGAAAAAATGAGCAAATCAGATATGC	55	2-bp
7[500]	9[117]	ATCAACGTCTTTACCCTTAAACAGTTCAGAAATAATAGTAATACCAGTCAGGATG	55	2-bp
8[134]	4[519]	CAAATAAGAAACGATTTTTCG	21	2-bp
8[443]	4[210]	CTTTTGCAAAAGAAGTTTTAG	21	2-bp
9[118]	6[519]	TTTAACGTCGGGTAATTGAGAT	22	2-bp
9[427]	6[210]	CAGAGGGGGACGAGAATGACAT	22	2-bp
11[118]	11[426]	CTAATATCAGAGAGATACATGTAGAAACCACA	32	2-bp
11[427]	11[117]	TAAATCAAAAATCAGGTAACAAAGCTGCTCCG	32	2-bp
4[312]	9[253]	CGTAATCAGTAGCGACAGAATCAAGTTGCCACCACGTTGAGGC	43	2-bp
4[621]	9[562]	ATCGGTTGTACCAAAAACATTATGACCCTAAAGCAAAATCAAC	43	2-bp
6[312]	8[238]	GGAAATTATTCATTAAAGGAATGAAACGACAGGAGCCTCAGAG	43	2-bp
6[621]	8[547]	TATATTTTCATTTGGGGCGAAAGCCTCCAGTTGGCTCACCTTG	43	2-bp
7[294]	9[529]	AGGGAGGGATGGCTTTATGGAAAGCGCAGTCTCCAGCATTCATCGATAGCAGCCC	55	2-bp
7[603]	9[220]	AAATGGTCATTAGACTATAGATTAGAGCCGTCTATCTGGTAGAGCATAAAGCTCA	55	2-bp
8[237]	4[622]	CCGCCACCAGAACCACCACAA	21	2-bp
8[546]	4[313]	CTGAACCTCAAATATCAAAAC	21	2-bp
9[221]	6[622]	GAGCCGCCGCTGAATTTACCGC	22	2-bp
9[530]	6[313]	CTCAATCAAAATAGATAATAAC	22	2-bp
11[221]	11[529]	TCCAGTAAGCGTCATACAAGGTAAATATTGCA	32	2-bp
11[530]	11[220]	TTTGAGGATTTAGAAGTAATAACCTGTTTAGT	32	2-bp

4x4H-3PS tile Strands sequence

Start	End	Sequence	Length	Note
0[47]	6[36]	CAGTATTTGGTATCTGTGGTCCTGCCCA	28	Core staple
0[71]	6[64]	ACTACGGGGCGAAAAACCATCTGGC	25	Core staple
0[122]	6[100]	CAGAGCGAGGTATGTAGGCGGTGCTACCTGGAAGCGCTT	39	Core staple
1[32]	11[48]	ATCCGGCATTAAGGGAGCACCTATTTTAAATCTGTTATCACTCTATTTA	49	Core staple
1[64]	4[49]	TGGTTTTTCTGACGCCATAGTTGGGTCGTTCGCTCCAAGCTGGGCTGTG	49	Core staple
1[96]	16[104]	GCGCAGAAAAAAACACACCCTGCCTCCCTCGTAAACCCGA	40	Core staple
2[47]	7[55]	AACTCACGAACAAACCCCGCGAGACAAGAACGTGGACTCCA	41	Core staple
2[79]	7[78]	TACGGGGTTTGTTTGAGGGCTTACCGTCTAT	31	Core staple
2[122]	19[103]	CCACTGGCAGCAGCGGATCTCAAGAAGTGTCCGCCTAGCTCACGGTCGTTC	51	Core staple
3[32]	2[48]	ATTAAAAATGAAACCCCCCGTTCGAACGAA	30	Core staple
3[72]	23[79]	GCCTTATTTCGGTGTACCTGACTCCACGCAGGAACGTTTTTCCTAAAGCCGAATTGG	57	Core staple
3[104]	18[104]	ACCCGGTACTTTCTCATTTCTCCCGGTAATAC	32	Core staple
4[48]	15[47]	TGCACGAGTCTCAGCGATTGTGCAATAGTTTGCTTTAAAAGTAACCCAC	49	Core staple
4[87]	2[80]	TATCTCAGCCGGTAACATCTTTTC	24	Core staple
5[88]	3[103]	TAGATACCATCCTTTGTATCGTCTTGAGTCCA	32	Core staple
6[35]	12[24]	CGCTCCAGTTAAAAAAGCGGGAGTACTCGTTATGGCAGCACTGC	44	Core staple
6[63]	3[71]	CCCAGTGCTTTCGTTCATCTCAGTGAGCCCGACCGCTGC	39	Core staple
6[87]	0[72]	CGATACGGGCAAGCAGTGAAGTGGTGGCCTA	31	Core staple
6[99]	20[96]	ACCGTGACGAGCGGTTATCCAACGCGCGCGCTTCCT	36	Core staple
7[22]	1[31]	AGCGCAGAAGCGCTCTGCAGCTCTTG	26	Core staple
7[56]	1[63]	ACGTCAAAGCTACACTGTAGCGG	23	Core staple
7[79]	1[95]	CAGGGCGGCGTTTCCCCAGAGTTCTCAGATTAC	33	Core staple
8[47]	14[32]	TTAAACTTTATCCGCCGTTCGATGTGCTCATC	32	Core staple
8[71]	14[64]	GTTCCAGTTGATCTTCTACCGCG	23	Core staple
8[103]	14[88]	TCAAAAGATTTCTGGGAAAGGGAATAACCGGC	32	Core staple
9[28]	3[31]	TTCGCACCGGCTTCAGTGAGTTTTGGTCCCTTTTAA	36	Core staple
9[64]	12[49]	CTACAGGCATCAAGGCGATGTATGCCTCATGAGCGGATACATATT	45	Core staple
10[103]	12[92]	AATCAGGCCGACACGGATATTATTGAAG	28	Core staple
11[49]	0[48]	GAAAAATATCCCCCATGTCTGTCTATGCAATGATAACCGCTGAGAAGGA	49	Core staple
11[72]	13[83]	GCACATTTCTTATTGTGGCGACCGAGT	27	Core staple
12[23]	5[23]	ATAATTCTAGTAAGTTTTCGGTCCATGCTTAA	32	Core staple
12[48]	8[48]	TGAATGATGAACCAAGTCATTCTGGCAGAACGCAACGTTGAGTCCACTA	49	Core staple
12[91]	18[40]	CATTTATCAGGGCCCGAAAAGCTCCGGTAGGCGAAC	36	Core staple
13[5]	7[21]	TCCGTAAGATGCTTTTCTGACGTTCTTTAGAGTAAGTCTATTAGGGCCG	49	Core staple
13[84]	19[39]	TGCTCTTGCGGGTTCATTCAGTGCCACCTGTAGCGG	36	Core staple
14[31]	4[24]	ATTGGAAATGACTGGTTTAGCTCCGGCCGCAGAATCTAAA	40	Core staple
14[63]	11[71]	CCACATAAGAATAGGTTACATGAAACAAATAGGGGTTCCGC	41	Core staple
14[87]	16[40]	GTCAATACCACGCTCGAGATAGGGGGGGTCGA	32	Core staple
15[5]	9[27]	CAAGGATCTTACCGCTGTTGAGATCCATCCATCCAGTAG	39	Core staple
15[48]	9[63]	TCGTGCACCCAACTTGGAACAAGTTGCCATTG	32	Core staple
15[80]	17[39]	TTTACTTTCACCAGCGATAGACCGTCGTTTGGCGGGGAAA	40	Core staple
16[39]	22[24]	GGTGCCGTGGCCAGTGATTAATTGCGTGGCGA	32	Core staple
16[74]	22[64]	ACGTGAACCATCATAGGGCTGGGGTG	26	Core staple
16[103]	22[96]	CAGGACTATTCCTGTGCATACGAG	24	Core staple
17[40]	23[52]	GCCGGCCATAACTCACAGCGCGCGTAAT	28	Core staple
17[64]	20[56]	CGTTGCTGGAGAACATGTTGTCGTGTTCGCCATTCAGGC	39	Core staple
18[39]	20[28]	GTGGCGAGGCTCACTGAAGGGCGATCGG	28	Core staple
19[40]	21[47]	TCACGCTGCTGTTGGGCCCGCTTT	24	Core staple
19[64]	5[87]	GCCGCGCTTAATGCGCCGCTACATCGAGGGGATACCGTCGTG	42	Core staple
20[27]	10[104]	TGCGGGCCTCTTCTAGGGCGGGAAGAAATTTTGTTA	36	Core staple
20[55]	15[79]	TGCGCAACGCGTAACCGCCAGCAAATCCCAACGATCGTGGTGTGGGATAAAGCATCT	57	Core staple
20[95]	21[79]	CGCTCACTGACGGGCGCGTCCCACCAGCTG	30	Core staple
21[5]	11[103]	TGGCGAAAGGGGGATGTGCTGCAATGCAAAGGAAGCTGGCAAGTAAATTGT	51	Core staple
21[48]	8[72]	CCAGTCGAGTGAGCGGAACCGTAAAGTTTTTTTTGAGTGTT	41	Core staple
21[80]	16[75]	CATTAATGATAAAGTGATAGGCTCCCAGATGGCCCACT	38	Core staple
22[23]	8[104]	TTAAGTTGCCGATTTAAAATCGGACTTATAAA	32	Core staple
22[63]	19[63]	CCTAATGGGAAACCGAGCAAAAGACCACACCC	32	Core staple
22[95]	4[88]	CCGGAAGCAATCGGCCACAGAATCCTGCGCTCGCTGTAGG	40	Core staple
23[5]	9[103]	TTCCCAGTCACGACGTTGTAAAACGACAAAGCACTGAGCTTGATATGCTCA	51	Core staple
23[53]	17[63]	ACGACTCACTACCCTAATCAAAAGGCCG	28	Core staple
23[80]	6[88]	GTACCGGGATAGCTGTTAAAGATACGCCCCCCGATAACTA	40	Core staple

1[123]	17[122]	TTTCACAATTAATCGACGCTC	21	2-bp
3[123]	19[122]	ATGTATTGGGCGAGCGGTATC	21	2-bp
8[122]	8[123]	CGGCAAAATCCACCCTAAAAT	21	2-bp
9[104]	23[4]	TTTTTTAAGCCGCAAATGAGCAAAAACAGGAATT	34	2-bp
9[123]	22[5]	AAGGGAGCCCGGTAACGCCAG	21	2-bp
10[122]	10[123]	TCGCGTTAAATGCGAAAGGAT	21	2-bp
11[104]	21[4]	AAGCGTTACTTTTTCAAAATGTTGAATACTCAGC	34	2-bp
11[123]	20[5]	AAAGCGGGCGCGCTATTACGC	21	2-bp
16[122]	16[123]	CAGAGGTGGCGGCGCTCTCGT	21	2-bp
17[104]	0[123]	ATCACAAACCACACAATGAAATTGTTATCCGCAG	34	2-bp
17[123]	1[122]	AACTGTTCCGTGGTAACAGGA	21	2-bp
18[122]	18[123]	CACTCAAAGGCTTCGGGAACT	21	2-bp
19[104]	2[123]	GGCTGCGGCGCTCTTCGGGAGAGGCGGTTTGCCG	34	2-bp
19[123]	3[122]	AGGCGTGGCGAGACACGACTT	21	2-bp
20[4]	11[122]	CATACTCTTCATATTTTGTTA	21	2-bp
22[4]	9[122]	GGGGCAAAATCCAATAGGCCG	21	2-bp
4[4]	12[5]	GTTTGTCAGACTTACTGTCAT	21	2-bp
4[23]	13[4]	GTATATATACCTAGATATGAGATTATCAAAAACA	34	2-bp
5[5]	5[4]	GACAGTTACCATCCGATCGCT	21	2-bp
6[4]	14[5]	ACCGGGAAGCCGGGGCGAAAA	21	2-bp
6[23]	15[4]	CCAGATTTGAGTTGGTTGAAGCCAGTTACCTTCT	34	2-bp
7[5]	7[4]	GCCAGCCGGAAATTGTTGCCA	21	2-bp
12[4]	4[5]	GCGGATCTTCGAGTAAACTTG	21	2-bp
14[4]	6[5]	CTCGGAAAAAATCAGCAATAA	21	2-bp

4x4 HT (Failed version) Strands sequence

Start	End	Sequence	Length	Note
1[174]	4[170]	ATTACCGGCTGGTACCTGGCCCTCAAACAATTCGACA	37	Core staple
1[284]	4[280]	ACGCTCAGAGTAGATGGTTTGCCATAATACATTTGAG	37	Core staple
1[394]	4[390]	GCTCAATGTTGAAATGGTTCCGACGAGATAGGCAACT	37	Core staple
1[504]	4[500]	ATTGGCACAATATCATGATGGCAAATTATCATCATAT	37	Core staple
1[614]	4[610]	GTAATAAGCTGAACGATTATACTCATTTTGCGGAACA	37	Core staple
1[64]	4[60]	AGATAGAGCAAATGCCAGTGAGAGAACGTTATTAATT	37	Core staple
3[182]	22[182]	CTTTGATTAGACTTTAGAGAGAGTTAAAAGGAATCGTTTACCAATCAACG	50	Core staple
3[292]	22[292]	AAATATCCGTCAATAGCCAGCAGGCACAGTTTCAGCGAATAATAATAGGT	50	Core staple
3[402]	22[402]	GTTGTTCAGAATAGCCAATCGGCAATGAGCCATTTTACCATTAGGAAACG	50	Core staple
3[512]	22[512]	TATTAAAAAGGAGCGGATTCATCAAACAATAGATTTACGAGCAAGGCGTT	50	Core staple
3[622]	22[622]	AGGGCGATAACATTATTGGGCGCCAAAACCTGTCGAGAGGCGGCATAAAT	50	Core staple
3[72]	22[72]	ACGCAAACCTTTGCCCCGGGCAACATTTTTGAGATGGAGCAAACAAGGCA	50	Core staple
4[169]	1[79]	ACTCGTATTAAATTTAACCGGCTGAGAGCCAGCATGCAACA	41	Core staple
4[279]	1[189]	GATTTAGAAGTATTAGTAATAAACTATCGGCCTTCCAGCCA	41	Core staple
4[389]	1[299]	AATAGATTAGAGCTTTAGGAAGGAAGGTTATCTATGGAAAT	41	Core staple
4[499]	1[409]	TCCTTAAATCAAACAGTTTGTTGGCAAATCAACACGTCTGA	41	Core staple
4[59]	1[629]	TTAAAAGTTTGAGAAAACCGTAAAGCATCACCTTAAGGGAC	41	Core staple
4[609]	1[519]	AAGAAACCACCAGGAACGTGATCAAACCCTCAATGATTCAC	41	Core staple
6[165]	6[64]	AGGCTTTTGGTGCCACGTATTAACACCGCCACCCTTCTGTCAATCACGATGAACG	55	Core staple
6[173]	3[181]	AATAGCGAGCCTTCACCGATATCCATTGTAGCAATACTT	39	Core staple
6[189]	22[174]	GACGACGATACAGGAAGAATATTCGGTCGCTGAGGCTCAATCAGGAGATT	50	Core staple
6[275]	6[174]	AAAAAGGCTTTGCAACAGAAGATAAAACAGAGGTGAGGCCCCAAAAAAAAACCAA	55	Core staple
6[283]	3[291]	ATCTCCAAAGGTCCACGCAGAACTCAACATCACTTGCCT	39	Core staple
6[299]	22[284]	AATTTTTTCACGTTAATAAAATCACCGGAACCAGAGCTATTATACTGGTA	50	Core staple
6[385]	6[284]	CCATCGATAACCTACACATTAAAAATACCGAACGAACAAATTGTAAACGTTGAAA	55	Core staple
6[393]	3[401]	CCAATGAAAGTTTGATGGGGAATTGGCACTAAGTTGAGT	39	Core staple
6[409]	22[394]	GCAAGGCCGGTTAAATCATTATCCGGTATTCTAAGAACCCACACAGGGAA	50	Core staple
6[495]	6[394]	CTTTCCTTAAATGGATGCGCGAACTGATAGCCCTAAATAAATTTTTGAAACGTCA	55	Core staple
6[503]	3[511]	ATCGGCTGTGATTATCAGTGGTCAGGAACAAGAGTCCAC	39	Core staple
6[519]	22[504]	TGTAGAAACATCAAAAATCGCCTGATTGCTTTGAATTATGTAAAAGAGTC	50	Core staple
6[55]	6[614]	TGTGAGCGAATTCTGGAAAGCGTAAGAATACGTGGCACTGTAGCCATCTGAATAA	55	Core staple
6[605]	6[504]	TAGAACCTACAGTCACTATTTTTGAATGGCTATTAGTAGGAACGCCCAATCAATA	55	Core staple
6[613]	3[621]	TGGAAGGGTGATTGTTTGCTCAAATGACTCCAACGTCAA	39	Core staple
6[629]	22[614]	TTTGCGTATGCTTTCATCAGTATCGGCCTCAGGAAGCCCCGCTTAAGTGG	50	Core staple
6[63]	3[71]	GTAATCGTATTCTTTTCAAAAAATCTCTATCAGTCCATC	39	Core staple
6[79]	22[64]	CAAGAGAATTATGTACCCACGAGAATGACCATAAATGACCATTATATGCA	50	Core staple
8[181]	11[173]	CCTCAAATGAATAACCACATCCAATAAATCTTAAGCATGCCGGAGAAATGTGTAG	55	Core staple
8[291]	11[283]	AACAACCATCTTTGAAAACCGGATATTCATATTCAGTATGCAGATAAAAAATCTA	55	Core staple
8[401]	11[393]	TTAGCGTTTGAGGCTGGTTGATATAAGTATAGGAGGTTTTGCTAAAGTAGCATTC	55	Core staple
8[511]	11[503]	ATAGCAAGCATAAGAGAAGTTACCAGAAGGTACCCAATTATCACCGTATGGTTTA	55	Core staple
8[621]	11[613]	TTACATCGGCAAGACAATACCGACCGTGTGACCGGAAGAACGCGCCTTCGAGCCA	55	Core staple
8[71]	11[63]	CATCTGCCACTGGAGTTGAATCGGCTGACGCTGACCTGCCCGCTTTAATTCCACA	55	Core staple
9[174]	12[170]	AGGGGGTAAATAAATTAAATAAAGCTATTTCAACG	35	Core staple
9[284]	12[280]	TGTATCGGTATTCAACTAGAATAAGTTGTGAATTA	35	Core staple
9[394]	12[390]	GCGACAGAAGTATGGGATTTAGTACGCCCAATAGG	35	Core staple
9[504]	12[500]	TTAAACCAAAAAGGTGAAAAGAACTATAAAAGAAA	35	Core staple
9[614]	12[610]	CACGTAAAAGCTAATGCATCATAATTAGGGCTTAA	35	Core staple
9[64]	12[60]	CTCCGTGGGGCGCTCACTCCTGGTTCCGAGCTCGA	35	Core staple
10[197]	23[157]	TTCAACCGAGGACTAAGGGTAGCAATAAATTGAGCCGGAA	40	Core staple
10[307]	23[267]	AGATTTAGAGCCGCCGAGAGCCGCGGTCAGTGTGCCCCCT	40	Core staple
10[417]	23[377]	TAGTAAATCCTGAATCTATTTTGCAGAATTAAGAGCGCTA	40	Core staple
10[527]	23[487]	GACGGAAATACATTTAACAAACATCAAAATCACTTAGGTT	40	Core staple
10[637]	23[597]	AATAAACACGATCGGTTCAGGCTGGCACGACTTGACAATG	40	Core staple
10[87]	23[47]	CTCACATTCGTTTTAAGGAAGCCCTCTGGAAGTGCGAACG	40	Core staple
11[174]	13[189]	GTAAAGATTCAAAAGGGTAAGCCTTCTCAGAG	32	Core staple
11[284]	13[299]	CGTTAATAAAACGAACTATTAATCAGCTTGCC	32	Core staple
11[394]	13[409]	CACAGACAGCCCTCATAGATAGCAACGCCACC	32	Core staple
11[504]	13[519]	CCAGCGCCAAAGACAAAAGCAACATGGCATGA	32	Core staple
11[614]	13[629]	GTAATAAGAGAATATAAATCAACAGTACTAGA	32	Core staple
11[64]	13[79]	CAACATACGAGCCGGAAGCCGGGTAGGTGTAA	32	Core staple
12[106]	11[87]	TGTTACCTCGATAAAGACGGAGGATCCCATAAAGT	35	Core staple
12[169]	5[165]	CAAGGATAAAATGCCTGAGTGGGTAGCTAGCTGATTGC	38	Core staple

12[216]	11[197]	TATGACCCTGTAATACTTTTGCGGGAGGAGAAAGG	35	Core staple
12[279]	5[275]	CCTTATGCGATGTTGGGAAGCATAACGCCGCAGCAAGC	38	Core staple
12[326]	11[307]	TGGGCTTGAGATGGTTTAATTTCAACTACGGAACA	35	Core staple
12[389]	5[385]	AACCCATGTACACAACGCCTCAACTTTCAGAAAATCCT	38	Core staple
12[436]	11[417]	TCAGAGCCACCACCCTCATTTTCAGGGTTAGCGTA	35	Core staple
12[499]	5[495]	CGCAAAGACACGAAAATTCATCACCGACTAATCCCTTA	38	Core staple
12[546]	11[527]	AACGTAGAAAAATACATACATAAAGGTGGGGCGACA	35	Core staple
12[59]	5[55]	ATTCGTAATCATCCGCTCACCCAGTCGGGGGGTGGTTT	38	Core staple
12[609]	5[605]	TTGAGAATCGCAGAGGCATTTGTTTATCATATAATCCT	38	Core staple
12[656]	11[637]	AAATTCTTACCAGTATAAAGCCAACGCGTACCGAC	35	Core staple
13[190]	16[150]	CATAAAGCATAGTAGTGTTTAGACAATATTCACGCTTTTG	40	Core staple
13[300]	16[260]	CTGACGAGAGTAATCTTGCTTTCGGTTGCGCCCCCTCAGA	40	Core staple
13[410]	16[370]	CTCAGAACAGTGCCGTCCTTTAGCCGGTCATAAACCTCCC	40	Core staple
13[520]	16[480]	TTAAGACTGCAGATAGTCATCGAGAATCATTAGCAGAGGC	40	Core staple
13[630]	16[590]	AAAAGCCTATTTAATGAGAAATTGTACAGTAATTCCGGCA	40	Core staple
13[80]	16[40]	TGAGTAAACGAATATACGGATTGAGGCGCATCCCTGACTA	40	Core staple
14[106]	19[39]	AGCAACTCGTCGGTGGGCACAGGGCTTTGAGCTAAGTAAAGCCCTCCAACA	51	Core staple
14[165]	1[173]	ATACAGGCAAAAGAAGGTTCAGAAACGGTTGATAATCAGAAAAGCGGTCAGAACAAT	57	Core staple
14[216]	19[149]	GGTGGCATCAATTCTACTATAAATCGGATATGATACCGGAGACTAAAATAC	51	Core staple
14[275]	1[283]	TACCCAACCAAAAGGAATAACCGATTTGTATAAGCAAATATTTCACCAGCAGGAAAA	57	Core staple
14[326]	19[259]	CTGGCTGACCTTCATCAAGAAACACCAATCAGTTGACATTATTATTGGCCT	51	Core staple
14[385]	1[393]	AGCCCGGGCAGCACCGTCATAATCATTTTGTTAAAATTCGCATACATCGCTTTTGAC	57	Core staple
14[436]	19[369]	GCTCAGTACCAGGCGGATACGCCACCCCCAGACGTACGATCTAATTTGCCA	51	Core staple
14[495]	1[503]	AAACCGATCATTCCAAATAGAAGGCGCTCATTTTTTTAACCAATCTTTAATTATTTAC	57	Core staple
14[546]	19[479]	CCCTTTTTAAGAAAAGTAACCTTATTATAAATATTTTCAACCGCAGTACAT	51	Core staple
14[55]	1[63]	CATTTCAGTAACAACCGACGACGACAACATTAAAAAACTAGCATGACCTGCCAACAG	57	Core staple
14[605]	1[613]	ATAAATACCATATCAATAACGGATTAATTCGCGTCTGGCCTTCCAGACAAACGACCA	57	Core staple
14[656]	19[589]	ATTTCATCTTCTGACCTAAGTTTAGTAACGACGACAAAAGGTAGGGGGATG	51	Core staple
15[190]	17[149]	CTATATTTTCATTTGGTCGTCATATGGATAGCCGGAACGA	40	Core staple
15[300]	17[259]	AGATGAACGGTGTACATACCGATAAGGTGAATCCACCCTC	40	Core staple
15[410]	17[369]	TCAAGAGAAGGATTAGGGCATTTTGTCAGACTTTAGTTGC	40	Core staple
15[520]	17[479]	CAATGAAATAGCAATAATCGTAGGAACAAGCAATGATGAA	40	Core staple
15[630]	17[589]	CGAGAAAACTTTTTCAGATGAATACGTAGATTTTCGCCAT	40	Core staple
15[80]	17[39]	TGATACCGACAGTGCGTGTAGATGCCGTAATGGATTAAGA	40	Core staple
17[174]	20[166]	CATAACCCTTACGAGGCAGTACAACACTGGCTTAAAACG	39	Core staple
17[284]	20[276]	AAAGGAATTGCGGAGTGAGGAGTGTCTGAGTTATTAAAG	39	Core staple
17[394]	20[386]	GTAGCACCATGGGAATTAATAAAAATAAGTTTTATCCCA	39	Core staple
17[504]	20[496]	CATCCTAATAAGTCCTGACGCTGAGAACAACGTTGCTTC	39	Core staple
17[614]	20[606]	ACGCGCGGGGTGCCAGCTGTTCTTCAGCTGTTCGCCAGG	39	Core staple
17[64]	20[56]	CTGAGAGTCGATCTACAAGTTTTAAGAACCCTTGCTCCT	39	Core staple
19[150]	21[157]	GTAATGCCCAAAAGAAATTATACC	24	Core staple
19[178]	13[275]	ATACCAGTCAGGACTTTAAGATAACAAAGCTGCTC	35	Core staple
19[260]	21[267]	TGATATTCGGAAAGCGATACATGG	24	Core staple
19[288]	13[385]	CACCAGTACAAACTCGTAACAGTATCACCGTACTC	35	Core staple
19[370]	21[377]	GTTACAAATAAGAAACCAGCCTTT	24	Core staple
19[398]	13[495]	TGTCACAATCAATACACGGAACAATAATAACGGAA	35	Core staple
19[40]	21[47]	GGTCAGGAAGAGGTCAATATAATG	24	Core staple
19[480]	21[487]	AAATCAATCGTCGCTAATAGCGAT	24	Core staple
19[508]	13[605]	CATGTAATTTAGGCCATATTTAAATAAGAATAAAC	35	Core staple
19[590]	21[597]	TGCTGCAACAGTCACGCTCAGGAG	24	Core staple
19[618]	13[55]	GTGTGAAATTGTTATGGTCATCATTTCTCCGAACT	35	Core staple
19[68]	13[165]	TATTTTAAATGCAAATTTTTAAAGAATTAGCAAAA	35	Core staple
20[165]	15[189]	AAAGAGGACTACGAAGGAGGCTTTGTTCTAGCTGTAGTAAAATAGCATTATGTTTAG	57	Core staple
20[275]	15[299]	CCAGAATACAAACAAACACCACCAGGAATACCACTTATCAGCTTGACAAGAGAGGAC	57	Core staple
20[385]	15[409]	ATCCAAAATAAACAGCCAATTTTATGAATTTTCTTCAAGTTTGCGAGAGGAGACTCC	57	Core staple
20[495]	15[519]	TGTAAATATATGTGAGAAAATTAATTTATTCATTGTACCGCACCCGAACACAAGAAA	57	Core staple
20[55]	15[79]	TTTGATATTAGAGAGTCAAATATCGAATTGCGTTAACAAACGGGGGGCCTGACTCTA	57	Core staple
20[605]	15[629]	GTTTTCCGGCGATTAATGGGAAGGGACATGTTCACAGAAATAAGTTTGAAAAGAACG	57	Core staple
21[158]	8[182]	AAGCGCGTCGCCTGACGGCTACAGTTAAAGGCTTGAATCCC	41	Core staple
21[268]	8[292]	CTTTTGATTAACGGCACCAGAACGAACCGCCTGACAATGAC	41	Core staple
21[378]	8[402]	ACAGAGAAGACGGGACCCAGCTAGTTTTAGCGGCCCCCTTA	41	Core staple
21[48]	8[72]	CTGTAGCTACGGTGGAAAGACTTGGTCTTTACGTAACCGTG	41	Core staple
21[488]	8[512]	AGCTTAGAATTTATCAAGAAAACCAAAATCGCCCGCGCCCA	41	Core staple
21[598]	8[622]	AAGCCAGTTCATGCCGCAACTGTCAGCCAGCTCAGTACCTT	41	Core staple
22[173]	19[177]	TGTATCAAAACAAATAGTAAGAGGCACCAACCCATT	36	Core staple
22[283]	19[287]	ATAAGTTTGATACAGAATAGAAATAAATCCTCTCGT	36	Core staple
22[393]	19[397]	GCGCATTGAATAACGAGCCAGCACATATTATTATTT	36	Core staple
22[503]	19[507]	AATAGTGATTAAGAACAAGAAAATGAATAACCCCAA	36	Core staple
22[613]	19[617]	TTGTGAAGGTGGATGCATTAATGGTTGGGTAATCCT	36	Core staple
22[63]	19[67]	ACTAAAGTCAACATAGGCTATCAACCTTTAATCATA	36	Core staple
23[158]	17[173]	CGAGGCGCAGACGGTTGCAGGGACAACACTAT	32	Core staple
23[182]	9[283]	TAAGGGAACCGAACTGACCAACGCCCACGCGCCTTTAAT	39	Core staple
23[268]	17[283]	GCCTATTTCGGAACCCACCACCGGGAACAACT	32	Core staple
23[292]	9[393]	TCTGAAACATGAAAGTATTAAGCCATCTTTTAATCAGTA	39	Core staple
23[378]	17[393]	ATATCAGAGAGATAACGCGAGGCAAATCACCA	32	Core staple
23[402]	9[503]	AGAATTGAGTTAAGCCCAATAAAATCAGATGAACGGGTA	39	Core staple
23[48]	17[63]	AGTAGATTTAGTTTCAAAAATCAGGTCATTGC	32	Core staple
23[488]	17[503]	GGGTTATATAACTAACCAAGTTAATAATATCC	32	Core staple
23[512]	9[613]	ATGCTGATGCAAATCCAATCGGAGAAACAAAATTATTTG	39	Core staple
23[598]	17[613]	TCCCGCCAAAATAAATCGCACTCAATCGGCCA	32	Core staple
23[622]	9[63]	TCTAATCTATTTACGCTCGCCGTTTGAGGGCGTCGGATT	39	Core staple
23[72]	9[173]	AGATACATTTCGCAAATGGTCCTTTAAACATTTTGCCAG	39	Core staple

2x4 HT 2D/Tube/Monomer + AuNP within type-1 hexagon cavity

Start	End	Sequence	Length	Note
0[47]	5[39]	ACAATATTTTTGAATGAGGTGAGGTCGCCATTAGCCAGCA	40	Core staple
0[79]	2[49]	CCTGAAAGCGTAAGGTTTGGATTAGAGACTACCTTTTTAACCTCCGGCT	49	Core staple
0[153]	5[145]	GACTCCAACGTCAAAGAAGGCGTTTTCTGACCCCTGTTTA	40	Core staple
0[185]	2[155]	GAACAAGAGTCCACAAGCAAGCCCAATGAAATAGCAATAGCTATCTTAC	49	Core staple
0[259]	5[251]	TCGGCAAAATCCCTTAATACATAAATTAAGACTAAGTTTA	40	Core staple
0[291]	2[261]	AAAATCCTGTTTGAGAGCCACCATAGGTGTATCACCGTACTCAGGAGGT	49	Core staple
0[365]	5[357]	CCTTCACCGCCTGGCCTTCCACAGGTAACACTTCTTTCCA	40	Core staple
0[397]	2[367]	ACCAGTGAGACGGGGAGGCTTTGAATTTCAACTTTAATCATTGTGAATT	49	Core staple

0[471]	5[463]	TGAATCGGCCAACGCGTGCAGATATAGAAAGAACTATCAT	40	Core staple
0[503]	2[473]	GGGAAACCTGTCGTTCCTTTTGAGTAAAGATTCAAAAGGGTGAGAAAGG	49	Core staple
0[577]	5[569]	GGGGTGCCTAATGAGTGGTAATCGCAGGTCATCAGAAAAG	40	Core staple
0[609]	2[579]	CGAGCCGGAAGCATCCAGGCAAACAGGGCTTAAGCTACGTGGTGCTTGT	49	Core staple
0[636]	3[20]	TATCCGCTCACACATAAATCATTTCCAGCAGA	32	Core staple
1[32]	0[48]	ATAGCCCTAAAGGGTTATATAACGGCACAG	30	Core staple
1[72]	3[87]	GATGCAAATAGGTCTGATACTTCTGAATAACGA	33	Core staple
1[96]	3[103]	AAGAACGCGAGAAAACTTTTTCAAACCGTCTATCATCTGGCCAACAGAATTAAGAC	56	Core staple
1[138]	0[154]	TAGTTAATTTCCCTTTTTAAGAAGAACGTG	30	Core staple
1[178]	3[193]	CCGAACAAGCAAGAAAGTTTTTATTTTCATGCG	33	Core staple
1[202]	3[209]	ACCGAGGAAACGCAATAATAACGGAAGAATAGCCCGAGATAGGGTTGAAGAGAGAT	56	Core staple
1[244]	0[260]	AAAGAACTGGCCCGCCACCCTCATCCGAAA	30	Core staple
1[284]	3[299]	AGAACCGAGCCCGGAACCGGAACCGCCTCCGTT	33	Core staple
1[308]	3[315]	CACCCTCATTTTCAGGGATAGCAAGTTGCAGCAAGCGGTCCACGCTGGTACCAGGC	56	Core staple
1[350]	0[366]	GGAACCCATGTTGCGATTTTAAGTGATTGC	30	Core staple
1[390]	3[405]	ACCAGTCAGATGGTTTAGGACTAAAGACTTGAA	33	Core staple
1[414]	3[421]	AAATCTACGTTAATAAAACGAACTGGCGGTTTGCGTATTGGGCGCCAGGCCCTGAC	56	Core staple
1[456]	0[472]	AACATTATTACACAGTCAAATCAGCATTAA	30	Core staple
1[496]	3[511]	TTCAACCAATGTGTAGTAAGAGGTCATTTTGCA	33	Core staple
1[520]	3[527]	TAATGCCGGAGAGGGTAGCTATTTTCACATTAATTGCGTTGCGCTCACAATTTTTA	56	Core staple
1[602]	3[617]	CGAGCTCATGAGTAAAGCGCCATTCGCCATTGA	33	Core staple
1[626]	1[31]	TCATAGCTGTTTCCTGTGTAATGCGCGAACTG	32	Core staple
2[20]	9[636]	ACGAACCACTCCGAACTCTGATCTGTAAGCAA	32	Core staple
2[48]	3[55]	TAGGTTACACGGAATTCATCAATATA	26	Core staple
2[87]	0[80]	TCAAAATCATCCAATCCCTTCTGA	24	Core staple
2[126]	9[106]	GTTTGAAAGAAGAGTCAATAGTAAATCGTCGC	32	Core staple
2[154]	3[161]	CGAAGCATCAAACAAGTACCGCACTC	26	Core staple
2[193]	0[186]	ATAATAAGAAGTTACCCCAGTTTG	24	Core staple
2[232]	9[212]	CAGTATGTACAAGAATTGAGTAGACGGGAGAA	32	Core staple
2[260]	3[267]	TTAGTAATGAGGCATAATCAAAATCA	26	Core staple
2[299]	0[292]	ATAAGTATCCACCCTCAGCAGGCG	24	Core staple
2[338]	9[318]	CCAGTACAAGTGCCGTCGAGAAAGTATTAAGA	32	Core staple
2[366]	3[373]	ACCTTAACCACAGAACGAGGGTAGCA	26	Core staple
2[405]	0[398]	TGGGCTTGAGGACGTTTTCTTTTC	24	Core staple
2[444]	9[424]	AGATTTAGACACCAGAACGAGAACCGGATATT	32	Core staple
2[472]	3[479]	CCGGAGAGGCATGATTAGAGAGTACC	26	Core staple
2[511]	0[504]	GCCTGAGTGTTCTAGCTTCCAGTC	24	Core staple
2[550]	9[530]	CTGGAGCACTCATATATTTTAAAACATTATGA	32	Core staple
2[578]	3[585]	TACCTCTATTAAGGCACCGCTTCTGG	26	Core staple
2[617]	0[610]	TTGGTGTAGAATTCGTACAACATA	24	Core staple
3[21]	0[637]	AGATAAAACAGGCTATTAGTCTTTGAAATTGT	32	Core staple
3[56]	1[71]	ATCCTGATTAATACGTTATATGTAAATGCT	30	Core staple
3[162]	1[177]	ATCGAGAACTATTAAAAAGTAAGCAGATAG	30	Core staple
3[194]	1[201]	CTAATATCGTGTTGTTAGAAGGAA	24	Core staple
3[210]	1[243]	AACCCTAGCAAACGTAGAAAATACTAAATCAAAATACCCA	40	Core staple
3[268]	1[283]	CCGGAACCATGGTGGTGAACCGCCACCCTC	30	Core staple
3[374]	1[389]	ACGGCTACACAACAGCAACTGGCTCATTAT	30	Core staple
3[406]	1[413]	TAAGGCTTGGTGGTTTGGGAAGAA	24	Core staple
3[422]	1[455]	GAGAAGAATACCACATTCAACTAACGGGGAGAAACGGAAC	40	Core staple
3[480]	1[495]	TTTAATTGCGCCAGCTCCATCAATATGATA	30	Core staple
3[512]	1[519]	AGGATAAATGCCCGCTTGATAAAT	24	Core staple
3[586]	1[601]	TGCCGGAAAAAAGTGTGGATCCCCGGGTAC	30	Core staple
3[618]	1[625]	CGCATTTCAATTCCACAATCATGG	24	Core staple
4[39]	10[631]	GTATTAACCTAATAGAAGGAATTGAGGAAGGTTATCTAAAATAAGTGACTC	51	Core staple
4[71]	6[56]	TATCATCATCATTTGATCTGGTCAGTTGGC	30	Core staple
4[145]	10[101]	GAATAAACATAAAGTAACATGTAATTTAGGCAGAGGCATTTTCAAATCAAT	51	Core staple
4[177]	6[162]	TTTCCTTATTGTCCAGATTGAGAATCGCCA	30	Core staple
4[251]	10[207]	CAACATATTTGAGCCAATTGACGGAAATTATTCATTAAAGGTGACAGAGAG	51	Core staple
4[283]	6[268]	CATAGCCCCATCACCATTCAACCGATTGAG	30	Core staple
4[357]	10[313]	CTCATAGTGCTCCAAAAATTGCGAATAATAATTTTTTCACGTTCTGCCTAT	51	Core staple
4[389]	6[374]	ATCGTCACCTTATCAGGAGTGAGAATAGAA	30	Core staple
4[463]	10[419]	GCCAAAAGTGAATCCCTAGACTGGATAGCGTCCAATACTGCGGGCTGGCTG	51	Core staple
4[495]	6[480]	AACCAGACCAGAAAACTTTGCCAGAGGGGG	30	Core staple
4[569]	10[525]	TAGCATGTGGCCTTCCCTCATTTTTTAACCAATAGGAACGCCAAGCCTCAG	51	Core staple
4[601]	6[586]	CCTCAGGAATAAATGTAAATTCGCATTAAA	30	Core staple
5[40]	7[55]	GCAAATGACAGTTGAATTAGAGCCGTCAATA	31	Core staple
5[72]	8[40]	CTCAAATATCAAACAACACCAGAAGAAAACAGA	33	Core staple
5[146]	7[161]	GTATCATACAACGCCACCGACAAAAGGTAAA	31	Core staple
5[178]	8[146]	AAGCCAACGCTCAATAAATCAATAAATAGAAGG	33	Core staple
5[252]	7[267]	TTTTGTCAAGGTAAATTTTGGGAATTAGAGC	31	Core staple
5[284]	8[252]	CCAGCGCCAAAGACCCGTCATCGGCCACCCTCA	33	Core staple
5[358]	7[373]	GACGTTAGACTAAAGGAGGAGCCTTTAATTG	31	Core staple
5[390]	8[358]	CTAAACAACTTTCAACAAAGGCCGCGCCACTAC	33	Core staple
5[464]	7[479]	AACCCTCGAAAATGTTCCTCAAATGCTTTAA	31	Core staple
5[496]	8[464]	TAGCGAGAGGCTTTCGGATTCGAGCGCTCAACA	33	Core staple
5[570]	7[585]	CCCCAAAATAAATCAGTGTAGCCAGCTTTCA	31	Core staple
5[602]	8[570]	AAATTGTAAACGTTATAGACGACGATCTTCGCT	33	Core staple
6[55]	4[40]	AAATCAAAAAATCTAATATCAGATGATGGCTCA	33	Core staple
6[161]	4[146]	TATTTAATGCGTTATAAACGGGTATTAAACTAA	33	Core staple
6[267]	4[252]	GGAGGGACAATCAATAGTTTGCCATCTTTTTGG	33	Core staple
6[373]	4[358]	AGGAACATAAATGAATGAAAGACAGCATCGGCC	33	Core staple
6[479]	4[464]	TAATAGTTTTACCAGACTCCAACAGGTCAGAAC	33	Core staple
6[585]	4[570]	TTTTTGTACAGGAAGACCAGCCAGCTTTCCAAC	33	Core staple
7[21]	8[637]	AGCACTAACAAACCGCCTGCAACATGGGCACG	32	Core staple
7[56]	5[71]	GATAATAATTCCTGATAGCATCACCTTGCTGAAC	34	Core staple
7[84]	9[39]	TATTAGACTTTAAAGAAACCGTTATTAATCAGATGA	36	Core staple
7[127]	8[107]	AATAAGAGAATACCGGAATCATAAAATTTTCC	32	Core staple
7[162]	5[177]	GTAATTCCATTCCAAGCAAATTCTTACCAGTATA	34	Core staple
7[190]	9[145]	AAACAACATGTTAGAAACCAGTCCTGAAGCGAACCT	36	Core staple
7[233]	8[213]	CCGTCACCGACAAAAGAAACGCAAACACCCTG	32	Core staple
7[268]	5[283]	CAGCAAACTTATTAGCGAAAATTCATATGGTTTA	34	Core staple
7[296]	9[251]	ACCATTAGCAAGGCGCGTTTTAATCAGTCAGCATTG	36	Core staple
7[339]	8[319]	CCAAAAAAAAGTAGCGTAACGATCCTCCTCAA	32	Core staple
7[374]	5[389]	TATCGGTCTCAGCAGCTTTCTGTATGGGATTTTG	34	Core staple
7[402]	9[357]	GGTGAATTTCTTGGGAGTTAACCATCGCATACACTA	36	Core staple
7[445]	8[425]	TAAATATTCATGAATTACGAGGCAAAATCAAC	32	Core staple
7[480]	5[495]	ACAGTTCGGAAGCAAACGACGATAAAAACCAAAA	34	Core staple

7[508]	9[463]	TAAATCAAAAATGCGTTTTAATTGCATCAAGTTTCA	36	Core staple
7[551]	8[531]	AATTCGCGTCTCAATCATATGTACTACTTTTG	32	Core staple
7[586]	5[601]	TCAACATGATCGCACTTTGTATAAGCAAATATTT	34	Core staple
7[614]	9[569]	AACCCGTCGGATTTTGAGGGGGTCACGTAGGCGATT	36	Core staple
8[71]	10[56]	CCTACCATAAACAATTGAATACCAAGTTAC	30	Core staple
8[106]	7[126]	CTTAGAATCCTGGAAACAGTACATGAGCCAGT	32	Core staple
8[177]	10[162]	CCGCGCCCAAACGATTACAATTTTATCCTG	30	Core staple
8[212]	7[232]	AACAAAGTCAGAATAGCAGCCTTTAATTATCA	32	Core staple
8[283]	10[268]	CCTCAGAACCAGTGCCTAAAGCCAGAATGG	30	Core staple
8[318]	7[338]	GAGAAGGATTACAGTTAATGCCCCGAAAATCT	32	Core staple
8[389]	10[374]	TTCCATTAATTTGAAATGTATCATCGCCTG	30	Core staple
8[424]	7[444]	GTAACAAAGCTACCAGGCGCATAGAATCGTCA	32	Core staple
8[495]	10[480]	AGCTTAATTAATCATACATTTCGCAAATGG	30	Core staple
8[530]	7[550]	CGGGAGAAGCCAATTAAGCAATAATCAAAAAT	32	Core staple
8[601]	10[586]	TGTTGGGAACGCCAAACTTTCTCAGGAGAA	30	Core staple
8[636]	7[20]	AATATAGGGGCACGCTCGCCCTGGTCTTTAGG	32	Core staple
9[40]	11[47]	ATATACAGCGCAGAGGGAAAACAA	24	Core staple
9[64]	8[72]	CGGGAGAAACAATAACGGATTCGCCTTAGTGGAAGGGTTAGAA	43	Core staple
9[107]	2[127]	TATTAATTTTACTAGAAAAAGTAAATTTAATG	32	Core staple
9[146]	11[153]	CCCGACTTCCAACGCTATTTATCC	24	Core staple
9[170]	8[178]	TTAAATCAAGATTAGTTGCTATTGGATGACGTAGGAATCATTA	43	Core staple
9[213]	2[233]	TTAACTGAAGACACCACGGAATCCTTATTACG	32	Core staple
9[252]	11[259]	ACAGGAGGAGTCTCTGTGGTAATA	24	Core staple
9[276]	8[284]	TTGGCCTTGATATTCACAAACAACTGGGGCTCAGAGCCGCCAC	43	Core staple
9[319]	2[339]	GGCTGAGATAAAGTTTTGTCGGAGTTTCGTCA	32	Core staple
9[358]	11[365]	AAACACTCGTGTCGAATAAGGGAA	24	Core staple
9[382]	8[390]	TTATACCAAGCGCGAAACAAAGTATCAGTTTTCATGAGGAAGT	43	Core staple
9[425]	2[445]	CATTACCCTAGTAAGAGCAACTTCATCAGTTG	32	Core staple
9[464]	11[471]	TTCCATATCCTGTTTAGTAGTAGC	24	Core staple
9[488]	8[496]	CTGCGAACGAGTAGATTTAGTTTGGTAACTGCGGATGGCTTAG	43	Core staple
9[531]	2[551]	CCCTGTAACCCGGTTGATAATTGCCTGAGAGT	32	Core staple
9[570]	11[577]	AAGTTGGGTGGATGTTTGTCAACC	24	Core staple
9[594]	8[602]	AGTCACGACGTTGTAAAACGACGCGGGGCTCAGGCTGCGCAAC	43	Core staple
9[637]	2[21]	CTCGTCGGGTGCCACGCTGAGAAAAATACCGA	32	Core staple
10[55]	4[72]	AAAATCGTAACAGTACTTTGCACGTGAGCGGAAT	34	Core staple
10[100]	11[79]	ATATGTGAGTGAATAACCTGATTGCTTTTCATTTG	35	Core staple
10[161]	4[178]	AATCTTAGCGGGAGGTAAATCAGATTCGGCTGTC	34	Core staple
10[206]	11[185]	AATAACATAAAAACAGTTGCACCCAGCTTTTTGTT	35	Core staple
10[267]	4[284]	AAAGCGCTTGAGGCAGCAGAGCCACATTTTCGGT	34	Core staple
10[312]	11[291]	TTCGGAACCTATTATTATAAATCCTCATTTGAGTA	35	Core staple
10[373]	4[390]	ATAAATTATCTTTGACATACGTAATTTTTGCGGG	34	Core staple
10[418]	11[397]	ACCTTCATCAAGAGTAACAACGGAGATTGAGGACA	35	Core staple
10[479]	4[496]	TCAATAAAACAGTTGAAATGCTGTATTCAAAGCG	34	Core staple
10[524]	11[503]	AGCATAAAGCTAAATCGACCATTAGATACAGGCAA	35	Core staple
10[585]	4[602]	GCCAGGGTAACGCCAGGTGCGGGCCCAGTATCGG	34	Core staple
10[630]	11[609]	TATGATACCGACAGTGGCCAGTGCCAAGATAACCC	35	Core staple
11[48]	9[63]	AATTAATTACATTTTCAAAATTACTTTTACAT	32	Core staple
11[80]	2[88]	AATTACCTTTTTTAATTGAAAACATGCTTCTGTGAATTTA	40	Core staple
11[154]	9[169]	CAATCCAAATAAGAATAGCAAGCTTTGAAGCC	32	Core staple
11[186]	2[194]	TAACGTCAAAAATGAAAGGGTAATAGCGCATTTAAGCCCA	40	Core staple
11[260]	9[275]	AGTTTTAACGGGGTCGCCACCCTGTCAGACGA	32	Core staple
11[292]	2[300]	ACAGTGCCCGTATAAAGGATTAGCAAACATGAGGGTTGAT	40	Core staple
11[366]	9[381]	CCGAACTGACCAACACGGGTAAACCCCAGCGA	32	Core staple
11[398]	2[406]	GATGAACGGTGTACAGGCTCATTCTTGACAAGTAGTAAAT	40	Core staple
11[472]	9[487]	ATTAACATCCAATAGCTGAATATTTCCCAATT	32	Core staple
11[504]	2[512]	GGCAAAGAATTAGCAATTTATTTCTGTACCAAAATGCAAT	40	Core staple
11[578]	9[593]	TTATGACAATGTCCGGGCGATCGGGTTTTCCC	32	Core staple
11[610]	2[618]	CGCTTCTAATCTATTTCTTGAATCCCCTGCCACCTCCTGG	40	Core staple
4[111]	11[332]	TATCATTTTGCGGAACACAAACAATTCGACC	31	2D connectors
4[217]	11[438]	CTAATTTACGAGCATGTCAGCTAATGCAGAG	31	2D connectors
4[323]	11[544]	TTTAGCGTCAGACTGTAGCCGGAAACGTCAA	31	2D connectors
4[429]	11[14]	GGTCGCTGAGGCTTGCAAAACAGCTTGATAA	31	2D connectors
4[535]	11[120]	GAAAGACTTCAAATATCCAGGTCTTTACCCG	31	2D connectors
4[641]	11[226]	AACCGTGCATCTGCCAGTCTCCGTGGGAACA	31	2D connectors
5[113]	5[429]	CAAGAGGCAAAAGACCACGCATAACCGATAT	31	2D connectors
5[219]	5[535]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAA	31	2D connectors
5[325]	5[641]	GGGGATGTGCTGCATGGTGTAGATGGGCGCA	31	2D connectors
5[431]	5[111]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGTA	31	2D connectors
5[537]	5[217]	CGCGAGGCGTTTTACAAGAAAAATAATATCC	31	2D connectors
5[643]	5[323]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTT	31	2D connectors
8[39]	10[16]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGA	41	2D connectors
8[145]	10[122]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAAT	41	2D connectors
8[251]	10[228]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCAT	41	2D connectors
8[357]	10[334]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTT	41	2D connectors
8[463]	10[440]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAG	41	2D connectors
8[569]	10[546]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGC	41	2D connectors
10[14]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	2D connectors
10[120]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	2D connectors
10[226]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	2D connectors
10[332]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	2D connectors
10[438]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	2D connectors
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	2D connectors
11[16]	4[431]	AAGAAGATGATGAAACAAATTGCGTAGATTT	31	2D connectors
11[122]	4[537]	CAGTTACAAAATAAACAGTATTCTAAGAACC	31	2D connectors
11[228]	4[643]	GGCTTTTGATGATACAGACCAGAACCACCAG	31	2D connectors
11[334]	4[113]	GGAACGAGGCGCAGACGCAACCTAAAACGAA	31	2D connectors
11[440]	4[219]	AAAGGTGGCATCAATTCATATGCAACTAAAT	31	2D connectors
11[546]	4[325]	GACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	31	2D connectors
4[112]	11[332]	TTATCATTTTGCGGAACACAAACAATTCGACC	32	Tube connectors
4[218]	11[438]	CCTAATTTACGAGCATGTCAGCTAATGCAGAG	32	Tube connectors
4[324]	11[544]	CTTTAGCGTCAGACTGTAGCCGGAAACGTCAA	32	Tube connectors
4[430]	11[14]	CGGTCGCTGAGGCTTGCAAAACAGCTTGATAA	32	Tube connectors
4[536]	11[120]	CGAAAGACTTCAAATATCCAGGTCTTTACCCG	32	Tube connectors
4[642]	11[226]	TAACCGTGCATCTGCCAGTCTCCGTGGGAACA	32	Tube connectors
5[113]	5[430]	CAAGAGGCAAAAGACCACGCATAACCGATATA	32	Tube connectors
5[219]	5[536]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAAG	32	Tube connectors

5[325]	5[642]	GGGGATGTGCTGCATGGTGTAGATGGGCGCAT	32	Tube connectors
5[431]	5[112]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGTAA	32	Tube connectors
5[537]	5[218]	CGCGAGGCGTTTTACAAGAAAAATAATATCCC	32	Tube connectors
5[643]	5[324]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTTT	32	Tube connectors
8[39]	10[15]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAG	42	Tube connectors
8[145]	10[121]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATT	42	Tube connectors
8[251]	10[227]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATA	42	Tube connectors
8[357]	10[333]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTA	42	Tube connectors
8[463]	10[439]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGC	42	Tube connectors
8[569]	10[545]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGCG	42	Tube connectors
10[14]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	Tube connectors
10[120]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	Tube connectors
10[226]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	Tube connectors
10[332]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	Tube connectors
10[438]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	Tube connectors
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	Tube connectors
11[15]	4[431]	AAAGAAGATGATGAAACAAATTGCGTAGATTT	32	Tube connectors
11[121]	4[537]	CCAGTTACAAAATAAACAGTATTCTAAGAACC	32	Tube connectors
11[227]	4[643]	TGGCTTTTGATGATACAGACCAGAACCACCAG	32	Tube connectors
11[333]	4[113]	CGGAACGAGGCGCAGACGCAACCTAAAACGAA	32	Tube connectors
11[439]	4[219]	AAAAGGTGGCATCAATTCATATGCAACTAAAT	32	Tube connectors
11[545]	4[325]	CGACTTAAGTGTCCTTAGAGCTGGCGAAAGGC TCTACAAAGGCGATAAAGACGGAAAAGCCT	32	Tube connectors
1[562]	0[578]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	70	30 nm AuNP capture strands
3[88]	1[95]	TAGCTTAGGATAGAACGCAAGACA CTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA GCTGATACCGACCGTGTGATAAATGGCGAAAAATATATTT	64	30 nm AuNP capture strands
3[104]	1[137]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	80	30 nm AuNP capture strands
3[300]	1[307]	TTGCTCAGTTTGCCCCAGAGCCAC CTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA GGATAAACTACAACGCCTGTAGCACTGAGAGAGCCCAATA	64	30 nm AuNP capture strands
3[316]	1[349]	CTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA GAACCAACAAGAGAATCGATGAACGAGCTAACTTGAGAGA	80	30 nm AuNP capture strands
3[528]	1[561]	CTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	80	30 nm AuNP capture strands

2x4-HT 2D/Tube/Monomer + AuNP within type-2 hexagon cavity

Start	End	Sequence	Length	Note
0[47]	5[39]	ACAATATTTTTGAATGAGGTGAGGTCGCCATTAGCCAGCA	40	Core staple
0[79]	2[49]	CCTGAAAGCGTAAGGTTTGGATTAGAGACTACCTTTTTAACCTCCGGCT	49	Core staple
0[153]	5[145]	GACTCCAACGTCAAAGAAGGCGTTTTCTGACCCCTGTTTA	40	Core staple
0[185]	2[155]	GAACAAGAGTCCACAAGCAAGCCCAATGAAATAGCAATAGCTATCTTAC	49	Core staple
0[259]	5[251]	TCGGCAAAATCCCTTAATACATAAATTAAGACTAAGTTTA	40	Core staple
0[291]	2[261]	AAAATCCTGTTTGAGAGCCACCATAGGTGTATCACCGTACTCAGGAGGT	49	Core staple
0[365]	5[357]	CCTTCACCGCCTGGCCTTCCACAGGTAACACTTCTTTCCA	40	Core staple
0[397]	2[367]	ACCAGTGAGACGGGGAGGCTTTGAATTTCAACTTTAATCATTGTGAATT	49	Core staple
0[471]	5[463]	TGAATCGGCCAACGCGTGCAGATATAGAAAGAACTATCAT	40	Core staple
0[503]	2[473]	GGGAAACCTGTCGTTCCTTTTGAGTAAAGATTCAAAAGGGTGAGAAAGG	49	Core staple
0[577]	5[569]	GGGGTGCCTAATGAGTGGTAATCGCAGGTCATCAGAAAAG	40	Core staple
0[609]	2[579]	CGAGCCGGAAGCATCCAGGCAAACAGGGCTTAAGCTACGTGGTGCTTGT	49	Core staple
0[636]	3[20]	TATCCGCTCACACATAAATCATTTCCAGCAGA	32	Core staple
1[32]	0[48]	ATAGCCCTAAAGGGTTATATAACGGCACAG	30	Core staple
1[72]	3[87]	GATGCAAATAGGTCTGATACTTCTGAATAACGA	33	Core staple
1[96]	3[103]	AAGAACGCGAGAAAACTTTTTCAAACCGTCTATCATCTGGCCAACAGAATTAAGAC	56	Core staple
1[138]	0[154]	TAGTTAATTTCCCTTTTTAAGAAGAACGTG	30	Core staple
1[178]	3[193]	CCGAACAAGCAAGAAAGTTTTTATTTTCATGCG	33	Core staple
1[202]	3[209]	ACCGAGGAAACGCAATAATAACGGAAGAATAGCCCGAGATAGGGTTGAAGAGAGAT	56	Core staple
1[244]	0[260]	AAAGAACTGGCCCGCCACCCTCATCCGAAA	30	Core staple
1[284]	3[299]	AGAACCGAGCCCGGAACCGGAACCGCCTCCGTT	33	Core staple
1[308]	3[315]	CACCCTCATTTTCAGGGATAGCAAGTTGCAGCAAGCGGTCCACGCTGGTACCAGGC	56	Core staple
1[350]	0[366]	GGAACCCATGTTGCGATTTTAAGTGATTGC	30	Core staple
1[390]	3[405]	ACCAGTCAGATGGTTTAGGACTAAAGACTTGAA	33	Core staple
1[414]	3[421]	AAATCTACGTTAATAAAACGAACTGGCGGTTTGCGTATTGGGCGCCAGGCCCTGAC	56	Core staple
1[456]	0[472]	AACATTATTACACAGTCAAATCAGCATTAA	30	Core staple
1[496]	3[511]	TTCAACCAATGTGTAGTAAGAGGTCATTTTGCA	33	Core staple
1[520]	3[527]	TAATGCCGGAGAGGGTAGCTATTTTCACATTAATTGCGTTGCGCTCACAATTTTTA	56	Core staple
1[562]	0[578]	TCTACAAAGGCGATAAAGACGGAAAAGCCT	30	Core staple
1[602]	3[617]	CGAGCTCATGAGTAAAGCGCCATTCGCCATTGA	33	Core staple
1[626]	1[31]	TCATAGCTGTTTCCTGTGTAATGCGCGAACTG	32	Core staple
2[20]	9[636]	ACGAACCACTCCGAACTCTGATCTGTAAGCAA	32	Core staple
2[48]	3[55]	TAGGTTACACGGAATTCATCAATATA	26	Core staple
2[87]	0[80]	TCAAAATCATCCAATCCCTTCTGA	24	Core staple
2[126]	9[106]	GTTTGAAAGAAGAGTCAATAGTAAATCGTCGC	32	Core staple
2[154]	3[161]	CGAAGCATCAAACAAGTACCGCACTC	26	Core staple
2[193]	0[186]	ATAATAAGAAGTTACCCCAGTTTG	24	Core staple
2[232]	9[212]	CAGTATGTACAAGAATTGAGTAGACGGGAGAA	32	Core staple
2[260]	3[267]	TTAGTAATGAGGCATAATCAAAATCA	26	Core staple
2[299]	0[292]	ATAAGTATCCACCCTCAGCAGGCG	24	Core staple
2[338]	9[318]	CCAGTACAAGTGCCGTCGAGAAAGTATTAAGA	32	Core staple
2[366]	3[373]	ACCTTAACCACAGAACGAGGGTAGCA	26	Core staple
2[405]	0[398]	TGGGCTTGAGGACGTTTTCTTTTC	24	Core staple
2[444]	9[424]	AGATTTAGACACCAGAACGAGAACCGGATATT	32	Core staple
2[472]	3[479]	CCGGAGAGGCATGATTAGAGAGTACC	26	Core staple
2[511]	0[504]	GCCTGAGTGTTCTAGCTTCCAGTC	24	Core staple
2[550]	9[530]	CTGGAGCACTCATATATTTTAAAACATTATGA	32	Core staple
2[578]	3[585]	TACCTCTATTAAGGCACCGCTTCTGG	26	Core staple
2[617]	0[610]	TTGGTGTAGAATTCGTACAACATA	24	Core staple
3[21]	0[637]	AGATAAAACAGGCTATTAGTCTTTGAAATTGT	32	Core staple
3[56]	1[71]	ATCCTGATTAATACGTTATATGTAAATGCT	30	Core staple
3[88]	1[95]	TAGCTTAGGATAGAACGCAAGACA	24	Core staple

3[104]	1[137]	GCTGATACCGACCGTGTGATAAATGGCGAAAAATATATTT	40	Core staple
3[162]	1[177]	ATCGAGAACTATTAAAAAGTAAGCAGATAG	30	Core staple
3[194]	1[201]	CTAATATCGTGTTGTTAGAAGGAA	24	Core staple
3[210]	1[243]	AACCCTAGCAAACGTAGAAAATACTAAATCAAAATACCCA	40	Core staple
3[268]	1[283]	CCGGAACCATGGTGGTGAACCGCCACCCTC	30	Core staple
3[300]	1[307]	TTGCTCAGTTTGCCCCAGAGCCAC	24	Core staple
3[316]	1[349]	GGATAAACTACAACGCCTGTAGCACTGAGAGAGCCCAATA	40	Core staple
3[374]	1[389]	ACGGCTACACAACAGCAACTGGCTCATTAT	30	Core staple
3[406]	1[413]	TAAGGCTTGGTGGTTTGGGAAGAA	24	Core staple
3[422]	1[455]	GAGAAGAATACCACATTCAACTAACGGGGAGAAACGGAAC	40	Core staple
3[480]	1[495]	TTTAATTGCGCCAGCTCCATCAATATGATA	30	Core staple
3[512]	1[519]	AGGATAAATGCCCGCTTGATAAAT	24	Core staple
3[528]	1[561]	GAACCAACAAGAGAATCGATGAACGAGCTAACTTGAGAGA	40	Core staple
3[586]	1[601]	TGCCGGAAAAAAGTGTGGATCCCCGGGTAC	30	Core staple
3[618]	1[625]	CGCATTTCAATTCCACAATCATGG	24	Core staple
4[71]	6[56]	TATCATCATCATTTGATCTGGTCAGTTGGC	30	Core staple
4[177]	6[162]	TTTCCTTATTGTCCAGATTGAGAATCGCCA	30	Core staple
4[283]	6[268]	CATAGCCCCATCACCATTCAACCGATTGAG	30	Core staple
4[389]	6[374]	ATCGTCACCTTATCAGGAGTGAGAATAGAA	30	Core staple
4[495]	6[480]	AACCAGACCAGAAAACTTTGCCAGAGGGGG	30	Core staple
4[601]	6[586]	CCTCAGGAATAAATGTAAATTCGCATTAAA	30	Core staple
5[40]	7[55]	GCAAATGACAGTTGAATTAGAGCCGTCAATA	31	Core staple
5[72]	8[40]	CTCAAATATCAAACAACACCAGAAGAAAACAGA	33	Core staple
5[146]	7[161]	GTATCATACAACGCCACCGACAAAAGGTAAA	31	Core staple
5[178]	8[146]	AAGCCAACGCTCAATAAATCAATAAATAGAAGG	33	Core staple
5[252]	7[267]	TTTTGTCAAGGTAAATTTTGGGAATTAGAGC	31	Core staple
5[284]	8[252]	CCAGCGCCAAAGACCCGTCATCGGCCACCCTCA	33	Core staple
5[358]	7[373]	GACGTTAGACTAAAGGAGGAGCCTTTAATTG	31	Core staple
5[390]	8[358]	CTAAACAACTTTCAACAAAGGCCGCGCCACTAC	33	Core staple
5[464]	7[479]	AACCCTCGAAAATGTTCCTCAAATGCTTTAA	31	Core staple
5[496]	8[464]	TAGCGAGAGGCTTTCGGATTCGAGCGCTCAACA	33	Core staple
5[570]	7[585]	CCCCAAAATAAATCAGTGTAGCCAGCTTTCA	31	Core staple
5[602]	8[570]	AAATTGTAAACGTTATAGACGACGATCTTCGCT	33	Core staple
6[55]	4[40]	AAATCAAAAAATCTAATATCAGATGATGGCTCA	33	Core staple
6[161]	4[146]	TATTTAATGCGTTATAAACGGGTATTAAACTAA	33	Core staple
6[267]	4[252]	GGAGGGACAATCAATAGTTTGCCATCTTTTTGG	33	Core staple
6[373]	4[358]	AGGAACATAAATGAATGAAAGACAGCATCGGCC	33	Core staple
6[479]	4[464]	TAATAGTTTTACCAGACTCCAACAGGTCAGAAC	33	Core staple
6[585]	4[570]	TTTTTGTACAGGAAGACCAGCCAGCTTTCCAAC	33	Core staple
7[21]	8[637]	AGCACTAACAAACCGCCTGCAACATGGGCACG	32	Core staple
7[56]	5[71]	GATAATAATTCCTGATAGCATCACCTTGCTGAAC	34	Core staple
7[84]	9[39]	TATTAGACTTTAAAGAAACCGTTATTAATCAGATGA	36	Core staple
7[127]	8[107]	AATAAGAGAATACCGGAATCATAAAATTTTCC	32	Core staple
7[162]	5[177]	GTAATTCCATTCCAAGCAAATTCTTACCAGTATA	34	Core staple
7[190]	9[145]	AAACAACATGTTAGAAACCAGTCCTGAAGCGAACCT	36	Core staple
7[233]	8[213]	CCGTCACCGACAAAAGAAACGCAAACACCCTG	32	Core staple
7[268]	5[283]	CAGCAAACTTATTAGCGAAAATTCATATGGTTTA	34	Core staple
7[296]	9[251]	ACCATTAGCAAGGCGCGTTTTAATCAGTCAGCATTG	36	Core staple
7[339]	8[319]	CCAAAAAAAAGTAGCGTAACGATCCTCCTCAA	32	Core staple
7[374]	5[389]	TATCGGTCTCAGCAGCTTTCTGTATGGGATTTTG	34	Core staple
7[402]	9[357]	GGTGAATTTCTTGGGAGTTAACCATCGCATACACTA	36	Core staple
7[445]	8[425]	TAAATATTCATGAATTACGAGGCAAAATCAAC	32	Core staple
7[480]	5[495]	ACAGTTCGGAAGCAAACGACGATAAAAACCAAAA	34	Core staple
7[508]	9[463]	TAAATCAAAAATGCGTTTTAATTGCATCAAGTTTCA	36	Core staple
7[551]	8[531]	AATTCGCGTCTCAATCATATGTACTACTTTTG	32	Core staple
7[586]	5[601]	TCAACATGATCGCACTTTGTATAAGCAAATATTT	34	Core staple
7[614]	9[569]	AACCCGTCGGATTTTGAGGGGGTCACGTAGGCGATT	36	Core staple
8[71]	10[56]	CCTACCATAAACAATTGAATACCAAGTTAC	30	Core staple
8[106]	7[126]	CTTAGAATCCTGGAAACAGTACATGAGCCAGT	32	Core staple
8[177]	10[162]	CCGCGCCCAAACGATTACAATTTTATCCTG	30	Core staple
8[212]	7[232]	AACAAAGTCAGAATAGCAGCCTTTAATTATCA	32	Core staple
8[283]	10[268]	CCTCAGAACCAGTGCCTAAAGCCAGAATGG	30	Core staple
8[318]	7[338]	GAGAAGGATTACAGTTAATGCCCCGAAAATCT	32	Core staple
8[389]	10[374]	TTCCATTAATTTGAAATGTATCATCGCCTG	30	Core staple
8[424]	7[444]	GTAACAAAGCTACCAGGCGCATAGAATCGTCA	32	Core staple
8[495]	10[480]	AGCTTAATTAATCATACATTTCGCAAATGG	30	Core staple
8[530]	7[550]	CGGGAGAAGCCAATTAAGCAATAATCAAAAAT	32	Core staple
8[601]	10[586]	TGTTGGGAACGCCAAACTTTCTCAGGAGAA	30	Core staple
8[636]	7[20]	AATATAGGGGCACGCTCGCCCTGGTCTTTAGG	32	Core staple
9[40]	11[47]	ATATACAGCGCAGAGGGAAAACAA	24	Core staple
9[64]	8[72]	CGGGAGAAACAATAACGGATTCGCCTTAGTGGAAGGGTTAGAA	43	Core staple
9[107]	2[127]	TATTAATTTTACTAGAAAAAGTAAATTTAATG	32	Core staple
9[146]	11[153]	CCCGACTTCCAACGCTATTTATCC	24	Core staple
9[170]	8[178]	TTAAATCAAGATTAGTTGCTATTGGATGACGTAGGAATCATTA	43	Core staple
9[213]	2[233]	TTAACTGAAGACACCACGGAATCCTTATTACG	32	Core staple
9[252]	11[259]	ACAGGAGGAGTCTCTGTGGTAATA	24	Core staple
9[276]	8[284]	TTGGCCTTGATATTCACAAACAACTGGGGCTCAGAGCCGCCAC	43	Core staple
9[319]	2[339]	GGCTGAGATAAAGTTTTGTCGGAGTTTCGTCA	32	Core staple
9[358]	11[365]	AAACACTCGTGTCGAATAAGGGAA	24	Core staple
9[382]	8[390]	TTATACCAAGCGCGAAACAAAGTATCAGTTTTCATGAGGAAGT	43	Core staple
9[425]	2[445]	CATTACCCTAGTAAGAGCAACTTCATCAGTTG	32	Core staple
9[464]	11[471]	TTCCATATCCTGTTTAGTAGTAGC	24	Core staple
9[488]	8[496]	CTGCGAACGAGTAGATTTAGTTTGGTAACTGCGGATGGCTTAG	43	Core staple
9[531]	2[551]	CCCTGTAACCCGGTTGATAATTGCCTGAGAGT	32	Core staple
9[570]	11[577]	AAGTTGGGTGGATGTTTGTCAACC	24	Core staple
9[594]	8[602]	AGTCACGACGTTGTAAAACGACGCGGGGCTCAGGCTGCGCAAC	43	Core staple
9[637]	2[21]	CTCGTCGGGTGCCACGCTGAGAAAAATACCGA	32	Core staple
10[55]	4[72]	AAAATCGTAACAGTACTTTGCACGTGAGCGGAAT	34	Core staple
10[95]	11[79]	TGAGTGAATAACCTGATTGCTTTTCATTTG	30	Core staple
10[161]	4[178]	AATCTTAGCGGGAGGTAAATCAGATTCGGCTGTC	34	Core staple
10[201]	11[185]	CATAAAAACAGTTGCACCCAGCTTTTTGTT	30	Core staple
10[267]	4[284]	AAAGCGCTTGAGGCAGCAGAGCCACATTTTCGGT	34	Core staple
10[307]	11[291]	AACCTATTATTATAAATCCTCATTTGAGTA	30	Core staple
10[373]	4[390]	ATAAATTATCTTTGACATACGTAATTTTTGCGGG	34	Core staple
10[413]	11[397]	CATCAAGAGTAACAACGGAGATTGAGGACA	30	Core staple
10[479]	4[496]	TCAATAAAACAGTTGAAATGCTGTATTCAAAGCG	34	Core staple
10[519]	11[503]	AAAGCTAAATCGACCATTAGATACAGGCAA	30	Core staple

10[585]	4[602]	GCCAGGGTAACGCCAGGTGCGGGCCCAGTATCGG	34	Core staple
10[625]	11[609]	TACCGACAGTGGCCAGTGCCAAGATAACCC	30	Core staple
11[48]	9[63]	AATTAATTACATTTTCAAAATTACTTTTACAT	32	Core staple
11[80]	2[88]	AATTACCTTTTTTAATTGAAAACATGCTTCTGTGAATTTA	40	Core staple
11[154]	9[169]	CAATCCAAATAAGAATAGCAAGCTTTGAAGCC	32	Core staple
11[186]	2[194]	TAACGTCAAAAATGAAAGGGTAATAGCGCATTTAAGCCCA	40	Core staple
11[260]	9[275]	AGTTTTAACGGGGTCGCCACCCTGTCAGACGA	32	Core staple
11[292]	2[300]	ACAGTGCCCGTATAAAGGATTAGCAAACATGAGGGTTGAT	40	Core staple
11[366]	9[381]	CCGAACTGACCAACACGGGTAAACCCCAGCGA	32	Core staple
11[398]	2[406]	GATGAACGGTGTACAGGCTCATTCTTGACAAGTAGTAAAT	40	Core staple
11[472]	9[487]	ATTAACATCCAATAGCTGAATATTTCCCAATT	32	Core staple
11[504]	2[512]	GGCAAAGAATTAGCAATTTATTTCTGTACCAAAATGCAAT	40	Core staple
11[578]	9[593]	TTATGACAATGTCCGGGCGATCGGGTTTTCCC	32	Core staple
11[610]	2[618]	CGCTTCTAATCTATTTCTTGAATCCCCTGCCACCTCCTGG	40	Core staple
4[111]	11[332]	TATCATTTTGCGGAACACAAACAATTCGACC	31	2D connectors
4[217]	11[438]	CTAATTTACGAGCATGTCAGCTAATGCAGAG	31	2D connectors
4[323]	11[544]	TTTAGCGTCAGACTGTAGCCGGAAACGTCAA	31	2D connectors
4[429]	11[14]	GGTCGCTGAGGCTTGCAAAACAGCTTGATAA	31	2D connectors
4[535]	11[120]	GAAAGACTTCAAATATCCAGGTCTTTACCCG	31	2D connectors
4[641]	11[226]	AACCGTGCATCTGCCAGTCTCCGTGGGAACA	31	2D connectors
5[113]	5[429]	CAAGAGGCAAAAGACCACGCATAACCGATAT	31	2D connectors
5[219]	5[535]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAA	31	2D connectors
5[325]	5[641]	GGGGATGTGCTGCATGGTGTAGATGGGCGCA	31	2D connectors
5[431]	5[111]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGTA	31	2D connectors
5[537]	5[217]	CGCGAGGCGTTTTACAAGAAAAATAATATCC	31	2D connectors
5[643]	5[323]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTT	31	2D connectors
8[39]	10[16]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGA	41	2D connectors
8[145]	10[122]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAAT	41	2D connectors
8[251]	10[228]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCAT	41	2D connectors
8[357]	10[334]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTT	41	2D connectors
8[463]	10[440]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAG	41	2D connectors
8[569]	10[546]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGC	41	2D connectors
10[14]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	2D connectors
10[120]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	2D connectors
10[226]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	2D connectors
10[332]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	2D connectors
10[438]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	2D connectors
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	2D connectors
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	2D connectors
11[16]	4[431]	AAGAAGATGATGAAACAAATTGCGTAGATTT	31	2D connectors
11[122]	4[537]	CAGTTACAAAATAAACAGTATTCTAAGAACC	31	2D connectors
11[228]	4[643]	GGCTTTTGATGATACAGACCAGAACCACCAG	31	2D connectors
11[334]	4[113]	GGAACGAGGCGCAGACGCAACCTAAAACGAA	31	2D connectors
11[440]	4[219]	AAAGGTGGCATCAATTCATATGCAACTAAAT	31	2D connectors
11[546]	4[325]	GACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	31	2D connectors
4[112]	11[332]	TTATCATTTTGCGGAACACAAACAATTCGACC	32	Tube connectors
4[218]	11[438]	CCTAATTTACGAGCATGTCAGCTAATGCAGAG	32	Tube connectors
4[324]	11[544]	CTTTAGCGTCAGACTGTAGCCGGAAACGTCAA	32	Tube connectors
4[430]	11[14]	CGGTCGCTGAGGCTTGCAAAACAGCTTGATAA	32	Tube connectors
4[536]	11[120]	CGAAAGACTTCAAATATCCAGGTCTTTACCCG	32	Tube connectors
4[642]	11[226]	TAACCGTGCATCTGCCAGTCTCCGTGGGAACA	32	Tube connectors
5[113]	5[430]	CAAGAGGCAAAAGACCACGCATAACCGATATA	32	Tube connectors
5[219]	5[536]	AGTACGGTGTCTGGAAAAAGATTAAGAGGAAG	32	Tube connectors
5[325]	5[642]	GGGGATGTGCTGCATGGTGTAGATGGGCGCAT	32	Tube connectors
5[431]	5[112]	TTTCAGGTTTAACGTTTTAAAAGTTTGAGTAA	32	Tube connectors
5[537]	5[218]	CGCGAGGCGTTTTACAAGAAAAATAATATCCC	32	Tube connectors
5[643]	5[324]	CCCAGAGCCGCCGCAGCGACAGAATCAAGTTT	32	Tube connectors
8[39]	10[15]	AATAAAGAAACATCAACGAATTATTCATTTCAATTACCTGAG	42	Tube connectors
8[145]	10[121]	CTTATCCGGCCATATTAACGAGCGTCTTTCCAGAGCCTAATT	42	Tube connectors
8[251]	10[227]	GAGCCGCCGAGTGTACAATTTACCGTTCCAGTAAGCGTCATA	42	Tube connectors
8[357]	10[333]	GAAGGCACGTCAATCAATCCGCGACCTGCTCCATGTTACTTA	42	Tube connectors
8[463]	10[439]	TGTTTTAATACTAATAGCTATATTTTCATTTGGGGCGCGAGC	42	Tube connectors
8[569]	10[545]	ATTACGCCTGCTGAATCTTCTAAGTGGTTGTGAATTCATGCG	42	Tube connectors
10[14]	7[401]	CCCGATAGTTGCGCCGACAATGACAACAGTTTCAGCGCTTGCTTTCGA	48	Tube connectors
10[120]	7[507]	TTGACTATTATAGTCAGAAGCAAAGTGCAAAAGAAGTGAGAATGACCA	48	Tube connectors
10[226]	7[613]	CAAACGGCGGATTGACCGTAATGGGAATATTTTGTTAGAGCGAGTAAC	48	Tube connectors
10[332]	7[83]	GAACTCGTATTAAATCCTTTGCCCGCCTCAATCAATAGGATTTAGAAG	48	Tube connectors
10[438]	7[189]	TACGCGCCTGTTTATCAACAATAGACAGTAGGGCTTAACGACGACAAT	48	Tube connectors
10[544]	7[295]	CCCAATGAAACCATCGATAGCAGCAAAAAGGGCGACAGTAGCACCATT	48	Tube connectors
11[15]	4[431]	AAAGAAGATGATGAAACAAATTGCGTAGATTT	32	Tube connectors
11[121]	4[537]	CCAGTTACAAAATAAACAGTATTCTAAGAACC	32	Tube connectors
11[227]	4[643]	TGGCTTTTGATGATACAGACCAGAACCACCAG	32	Tube connectors
11[333]	4[113]	CGGAACGAGGCGCAGACGCAACCTAAAACGAA	32	Tube connectors
11[439]	4[219]	AAAAGGTGGCATCAATTCATATGCAACTAAAT	32	Tube connectors
11[545]	4[325]	CGACTTAAGTGTCCTTAGAGCTGGCGAAAGGC	32	Tube connectors
4[39]	6[32]	GTATTAACCTAATAGAAGGAATTG CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	64	30 nm AuNP capture strands
4[145]	6[138]	GAATAAACATAAAGTAACATGTAA CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	64	30 nm AuNP capture strands
4[251]	6[244]	CAACATATTTGAGCCAATTGACGG CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	64	30 nm AuNP capture strands
4[357]	6[350]	CTCATAGTGCTCCAAAAATTGCGA CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	64	30 nm AuNP capture strands
4[463]	6[456]	GCCAAAAGTGAATCCCTAGACTGG CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	64	30 nm AuNP capture strands
4[569]	6[562]	TAGCATGTGGCCTTCCCTCATTTT CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA AGGAAGGTTATCTAAAATAAGTGACTCTATGA	64	30 nm AuNP capture strands
6[31]	10[626]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA TTTAGGCAGAGGCATTTTCAAATCAATATATG	72	30 nm AuNP capture strands
6[137]	10[96]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA AAATTATTCATTAAAGGTGACAGAGAGAATAA	72	30 nm AuNP capture strands
6[243]	10[202]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA ATAATAATTTTTTCACGTTCTGCCTATTTCGG	72	30 nm AuNP capture strands
6[349]	10[308]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA ATAGCGTCCAATACTGCGGGCTGGCTGACCTT	72	30 nm AuNP capture strands
6[455]	10[414]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA TTAACCAATAGGAACGCCAAGCCTCAGAGCAT	72	30 nm AuNP capture strands
6[561]	10[520]	CTCTCTCTCTCTCTCTCTCTAAAAAAAAAAAAAAAAAAAA	72	30 nm AuNP capture strands