

Supplementary Table 2 | Mutagenic Oligonucleotides for Multiposition Libraries

Bridge	Name	Sequence (5' - 3')
B2a	16B2a1fwd	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCATGACTGGGGTG AANNNGTAACAAGGTAACCGTAGG
B2a	16B2a1rev	GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTTGCAACCCACTCCCATGGT GTNANGGCGGTGTGTACAAGG
B2a	16B2a2fwd	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCATGACTGGGGTN AANTCGTAACAAGGTAACCGTAGG
B2a	16B2a2rev	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCATGACTGGGGTG AANNNGTAACAAGGTAACCGTAGG
B2b	16B2b1fwd	GCGCAGGAAAGGTCTCAAACAGGATTANNNACCCGGTAGTCCACGCCGTAAACGATG
B2b	16B2b1rev	GCGCAGAGTAGGTCTCATGTTTGCTCCCCACGCTTTCGCACC
B2b	16B2b2H6f	GCGCAGGAAAGGTCTCAGGTAACCGTANNNGAANNTGCGGTTGGATCATGGGATTACC
B2b	16B2b2rev	GCGCAGAGTAGGTCTCATACCTTGTTACGACTTCACCCCAGTC
B2b	16B2b3H6f	GCGCAGGAAAGGTCTCAGGTAACCGTAGGGNNACCTGCGGTTGGATCATGGGATTACC
B2c	16B2c11fwd	GCGCAGGAAAGGTCTCAAGTACGGCCGNNAGGTTAAAACTCAAATGAATTGACGG
B2c	16B2c11rev	GCGCAGAGTAGGTCTCATACTCCCCAGGCGGTGCGACTTAACG
B2c	16B2c12fwd	GCGCAGGAAAGGTCTCATTAGATACCCTGGTAGTCCANNCCGTAAACGATGTGCGACTTGG
B2c	16B2c12rev	GCGCAGAGTAGGTCTCACTAATCCTGTTTGCTCCCCANNCTTTCGCACCTGAGCGTCAGTC
B2c	16B2c2fwd	GCGCAGGAAAGGTCTCATTAGATACCCTGGTAGTCNNCGCCGTAAACGATGTGCGACTTGG
B2c	16B2c2rev	GCGCAGAGTAGGTCTCACTAATCCTGTTTGCTCCCNCGCTTTCGCACCTGAGCGTCAGTC
B3	16B31fwd	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCATGNNNGGGGTG AAGTCG
B3	16B31rev	GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTTGCAACCCACTCENNATGGT GTGACG
B3	16B32fwd	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCATNNCTGGGGTG AAGTCG
B3	16B32rev	GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTTGCAACCCACNNCCATGGT GTGACG
B3	16B33fwd	GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTGATTCNNGACTGGGGTG AAGTCG

B3 16B33rev
GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTTGCAACCCNNCCCATGGT
GTGACG

B6 16B63fwd
GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTTGTNNTTCATGACTGGGGTG
AAGTCG

B6 16B63rev
GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTTGCNNCCCACTCCCATGGT
GTGACG

B6 16B61fwd
GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACTTNNNGATTCATGACTGGGGTG
AAGTCG

B6 16B61rev
GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTTTNNAACCCACTCCCATGGT
GTGACG

B6 16B62fwd
GCGCAGGAAAGGTCTCACTTCGGGAGGGCGCTTACCACNNTGTGATTCATGACTGGGGTG
AAGTCG

B6 16B62rev
GCGCAGAGTAGGTCTCAGAAGGTTAAGCTACCTACTTCTNNTGCAACCCACTCCCATGGT
GTGACG

B7a 16B7a2fwd
GCGCAGGAAAGGTCTCAAATGCNNNNAGATCTGGAGGAATACCGGTGGCGAAG

B7a 16B7a2rev GCGCAGAGTAGGTCTCAATTCACCGCTACACCTGGAATTCTACC

Supplementary table 2. 1,2) These nucleotides were defined as B5 in previous structures.