

Table S3. Sequences of GFP and mCherry megamers

Megamer	Sequence (5' to 3')
GFP sense (with 2 introns) 815 nt	TCCAAGGGAGAGGAGCTCTTACC GGAGTCGTCCCAATCCTCGTCGAGCTCGA CGGAGACGTCAACGGACACAAGTTCTCCGTCTCAGGAGAGGGAGAGGGAGAC GCCACCTACGGAAAGCTCACCCCTCAAGTTCATCTGCACCACCGGAAAGCTCCC AGTCCCATGGCCAACCCTCGTCACCACCTTCACTTACGGAGTCCAATGCTTCTC CCGTTACCCAGACCACATGAAGCGTCACGACTTCTTCAAGTCCGCCATGCCAG AGGGATACGTCCAAGAGCGTACCATCTTCTTCAAGGtaagtttaacattaataacta actaaccctgattatttaattttcagGACGACGGAAACTACAAGACCCGTGCCGAGGTC AAGTTCGAGGGAGACACCCTCGTCAACCGTATCGAGCTCAAGtaagtttaacagt tcggtactaactaaccatacatatttaattttcagGGAATCGACTTCAAGGAGGACGGAAAC ATCCTCGGACACAAGCTCGAATAACAATACTACAACCTCCACAACGTCTACATCATG GCCGACAAGCAAAAAGAACGGAATCAAGGTCAACTTCAAGATCCGTCACAACAT CGAGGACGGATCTGTCCAACCTCGCCGACCACTACCAACAAAACACCCCAATCG GAGACGGACCAGTCCTCCTCCAGACAACCACTACCTCTCCACCCAATCCGCC CTCTCCAAGGACCCAAACGAGAAGCGTGACCACATGGTCTCAAGGAGTTCGT CACCGCTGCCGGAATCACCCACGGAATGGACGAGCTCTACAAG
GFP antisense (with 2 introns) 815 nt	CTTGTAGAGCTCGTCCATTCCGTGGGTGATTCCGGCAGCGGTGACGAACTCCTT GAGGACCATGTGGTCACGCTTCTCGTTTGGGTCCTTGAGAGGGCGGATTGGG TGGAGAGGTAGTGGTTGTCTGGGAGGAGGACTGGTCCGTCTCCGATTGGGGTG TTTTGTTGGTAGTGGTCGGCAGTTGGACAGATCCGTCCCTCGATGTTGTGACGG ATCTTGAAGTTGACCTTGATTCCGTTCTTTGCTTGTGCGCCATGATGTAGACGT TGTGGGAGTTGTAGTTGTATTGAGCTTGTGTCCGAGGATGTTCCGTCTCCTT GAAGTCGATTCCtgaaaatttaaatatgtatggttagtagtaccgaactgtttaacttacCTTG AGCTCGATACGGTTGACGAGGGTGTCTCCCTCGAATTGACCTCGGCACGGGT CTTGTAGTTTCCGTCTGCTctgaaaatttaataatcagggttagtagtattaattaatgtttaact tacCTTGAAGAAGATGGTACGCTCTTGGACGTATCCCTCTGGCATGGCGGACTT GAAGAAGTCGTGACGCTTCATGTGGTCTGGGTAAACGGGAGAAGCATTGGACTC CGTAAGTGAAGGTGGTGACGAGGGTTGGCCATGGGACTGGGAGCTTTCCGGT GGTGCAGATGAACTTGAGGGTGAGCTTTCCGTAGGTGGCGTCTCCCTCTCCCTC TCCTGAGACGGAGAACTTGTGTCCGTTGACGTCTCCGTGAGCTCGACGAGGA TTGGGACGACTCCGGTGAAGAGCTCCTCTCCCTTGA
mCherry antisense (without introns) 702 nt	CTTGTAGAGCTCGTCCATTCCGTGGAGTGACGTCCCTCGGCACGCTCGTA TTGCTCGACGATGGTGTAGTCTCGTTGTGGGAGGTGATGTCGAGCTTGATGTT GACGTTGTAGGCTCCTGGGAGTTGGACTGGCTTCTTGGCCTTGAGGTGGTCTT GACCTCGGCGTCGTAGTGTCTCCGTCTTGAGCTTGAGACGTTGCTTGATCTC TCCCTTGAGGGCTCCGTCTCTGGGTACATACGCTCGGAGGAGGCCTCCCATC CCATGGTCTTCTTTGCATGACTGGTCCGTGCGATGGGAAGTTGGTTCCACGGA GCTTGACCTTGTAGATGAACTCTCCGTCTTGAGGGAGGAGTCTTGGGTGACG GTGACGACTCCTCCGTCTCGAAGTTCATGACACGCTCCCACTTGAATCCCTCT GGGAAGGAGAGCTTGAGGTAGTCTGGGATGTGCGGTGGGTGCTTGACGTAGG CCTTTGATCCGTACATGAATTGTGGGGAGAGGATGTCCCAGGCGAATGGGAGT GGTCTCCCTTGGTGACCTTGAGCTTGGCGGTTTGGGTTCCCTCGTATGGACGT CCCTCTCCCTCTCCCTCGATCTCGAAGTCTGTCCGTTGACTGATCCCTCCATGT GGACCTTGAAACGCATGAACTCCTTGATGATGGCCATGTTGTCTCTCTCCCT GGA

Exons and introns are represented in uppercase and lowercase, respectively.