

Table S4. Oligonucleotides used to generate DNA substrates.

Oligo	Nucleotide sequence (5'-3')
o-SS ₅₀	GGCGACGTGATCACCAGATGATTGCTAGGCATGCTTTCCGCAAGAGAAGC
o-DS ₅₀	GCTTCTCTTGCGGAAAGCATGCCTAGCAATCATCTGGTGATCACGTGCGC
o-SS ₆₀	TTTGGTCTAACTTTACCGCTACTAAATGCCGCGGATTGGTTTTGCTGAATCAGGTTATTA
o-DS ₆₀	TAATAACCTGATTCAGCGAAACCAATCCGCGGCATTTAGTAGCGGTAAAGTTAGACCAAA
o-MM _{G:G}	TAATAACCTGATTCAGCGAAACCAATC <u>G</u> GCGGCATTTAGTAGCGGTAAAGTTAGACCAAA
o-MM _{T:G}	TAATAACCTGATTCAGCGAAACCAATC <u>T</u> GCGGCATTTAGTAGCGGTAAAGTTAGACCAAA
o-BB ₅	TAATAACCTGATTCAGCGAAACCAATC <u>GCAACC</u> ATTTAGTAGCGGTAAAGTTAGACCAAA
o-BB ₁₃	TAATAACCTGATTCAGCGAAAC <u>ATTGTAGGTAAGCT</u> TAGTAGCGGTAAAGTTAGACCAAA
o-BB ₂₀	TAATAACCTGATTCAGCGAAT <u>GACCGATAACGTCCACTTG</u> AGCGGTAAAGTTAGACCAAA
o-BT ₁	TAATAACCTGATTCAGCGAAACCAATCC <u>A</u> GCGGCATTTAGTAGCGGTAAAGTTAGACCAAA
o-BT ₂	TAATAACCTGATTCAGCGAAACCAATCC <u>AA</u> GCGGCATTTAGTAGCGGTAAAGTTAGACCAAA
o-BT ₃	TAATAACCTGATTCAGCGAAACCAATCC <u>AAA</u> GCGGCATTTAGTAGCGGTAAAGTTAGACCAAA

Nucleotides underlined in o-MM_{G:G}, o-MM_{T:G}, o-BB₅, o-BB₁₃ and o-BB₂₀ highlight sequences that differ from o-SS₆₀ and generate mismatch or bubble structures when annealed. Similarly, underlined nucleotides in o-BT₁ to o-BT₃ indicate sequences that generate insertions when annealed to o-SS₆₀.