

Table S1. List of oligonucleotides employed to generate DNA constructs.

Primer name	Primer sequence
P1	5'- <i>caccgatcc</i> CTTCGATCAAGTTAACCGCC-3'
P2	5'- <i>caccgctcgag</i> AGACGGCGGAGCATCGTGT-3'
P3	5'- <i>gcgggtacc</i> ATGTCTTTCACCTATAACACATG-3'
P4	5'- <i>acgggtacc</i> TGTTTGATCTGTGCGACTGGG-3'
P5	5'- <i>cgcgGATCCGGGTGGCAGTATC</i> -3'
P6	5'- <i>cggaggatc</i> GCTTCTCAAAGTCGGCGT-3'
P7	5'- <i>gcgggtacc</i> GTGTGCTGATCGAGGAAT-3'
P8	5'- <i>gcgggtacc</i> GAGCTCAAAGCTCGCAT-3'
P9	5'-CTTCACCTTCGTTT <u>CCCCGACCGAGATCA</u> -3'
P10	5'-TGATCTCGGTCCGGG <u>GAAACGAAGGTGAAG</u> -3'
P11	5'- <i>ccgcgcacatatg</i> AATCTGGACTATCAGATGTAC-3'
P12	5'- <i>caccgctcgag</i> TCACATGTTCTTCTCGAAAAAC-3'

Clamp sequences are indicated in lower case, restriction sites in italic and mutations used to generate the mTXNPxC81S muttein underlined.