

Table S1: Sequences of qPCR Primers used for studying ssDNA generation			
Primer name	Distance from <i>AsiSI</i>	Oligo	Sequence (5'→3')
No DSB		FWD	ATTGGGTATCTGCGTCTAGTGAGG
		REV	GACTCAATTACATCCCTGCAGCT
DSB1	180 bp	FWD	TGTGGACTCAGGGA ACTC
		REV	CAGTCGCATACATCCGAT
DSB1	335 bp	FWD	GAATCGGATGTATGCGACTGATC
		REV	TTCCAAAGTTATTCCAACCCGAT
DSB1	1618 bp	FWD	TGAGGAGGTGACATTAGA ACTCAGA
		REV	AGGACTCACTTACACGGCCTTT
DSB1	3500 bp	FWD	TCCTAGCCAGATAATAATAGCTATACAAACA
		REV	TGAATAGACAGACAACAGATAAATGAGACA
DSB2	129 bp	FWD	GCTGGAGTGTACGGGCCC
		REV	G TTCCTGGCCGGGACAGC
DSB2	364 bp	FWD	CCAGCAGTAAAGGGGAGACAGA
		REV	CTGTTCAATCGTCTGCCCTTC
DSB2	1754 bp	FWD	GAAGCCATCCTACTCTTCTCACCT
		REV	GCTGGAGATGATGAAGCCCA
DSB2	3564 bp	FWD	GCCAGCTAAGATCTTCCTTCA
		REV	CTCCTTTGCCCTGAGAAGTGA
Across DSB1		FWD	GATGTGGCCAGGGATTGG
		REV	CACTCAAGCCCAACCCGT
Across DSB2		FWD	GAGGAGCCTCTCCTGCAGC
		REV	GAACCAGACCTACCTCCAGGG