

Table S2. Oligonucleotides used in this study

Oligo Name	Oligo DNA sequence 5'-3'	Function	Source
T4_Top_70718_70747	AAACAAAAGTTTTAGGGAATTCTAGGGCGGAGAGG	top oligo for cloning T4 spacer 1 into pCRISPR	this study
T4_Bottom_70718_70747	AAAACCTCTCCGCCCTAGAATTCCTAAAACCTTTT	bottom oligo for cloning T4 spacer 1 into pCRISPR	this study
T4_ModA_Top_13205_13234	AAACGCCAGGGAGCCCAAGGCGGAGGGTCAAGAG	top oligo for cloning T4 spacer 2 into pCRISPR	this study
T4_ModA_Bottom_13205_13234	AAAACCTTGACCTCCGCCCTGGGCTCCCTGGGC	bottom oligo for cloning T4 spacer 2 into pCRISPR	this study
T4_30.2_top_127687_127716	AAACTTCACTATCAAACCTTTCTTTATTTTCCTTG	top oligo for cloning T4 spacer 3 into pCRISPR	this study
T4_30.2_bottom_127687_127716	AAAACAAGGAAAATAAAGAAAGTTTTGATAGTGAA	bottom oligo for cloning T4 spacer 3 into pCRISPR	this study
T4_Top_116439_116468	AAACTTTATTATCATATTTATAAATAGAATAAAG	top oligo for cloning T4 spacer 4 into pCRISPR	this study
T4_Bottom_116439_116468	AAAACCTTTATCTATTTATAAATATGATAAATAAA	bottom oligo for cloning T4 spacer 4 into pCRISPR	this study
Church1_top_pCRISPR	AAACATATCGAAAGCAATCAGGTTG	top oligo for cloning T4 spacer C1 into pCRISPR	adapted from Yaung et al. 2014
Church1_bottom_pCRISPR	AAAACAACCTGATTGCTTTTCGATAT	bottom oligo for cloning T4 spacer C1 into pCRISPR	adapted from Yaung et al. 2014
Church2_top_pCRISPR	AAACAAGAAGCTTCCAACCGGTAATG	top oligo for cloning T4 spacer C2 into pCRISPR	adapted from Yaung et al. 2014
Church2_bottom_pCRISPR	AAAACATTACCGGTTGGAAGTTCTT	bottom oligo for cloning T4 spacer C2 into pCRISPR	adapted from Yaung et al. 2014
Church3_top_pCRISPR	AAACGATGCTGATGCTGAACTGTCTG	top oligo for cloning T4 spacer C3 into pCRISPR	adapted from Yaung et al. 2014
Church3_bottom_pCRISPR	AAAACGACAGTTCAGCATCAGCATC	bottom oligo for cloning T4 spacer C3 into pCRISPR	adapted from Yaung et al. 2014
70_puc19_top	AATTCAAAAGTTTTAGGGAATTCTAGGGCGGAGAGGGGA	top oligo for cloning T4 protospacer 1 into puc19	this study
70_puc19_bottom	AGCTTCCCCTCTCCGCCCTAGAATTCCTAAAACCTTTG	bottom oligo for cloning T4 protospacer 1 into puc19	this study
ModA_puc19_top	AATTCGCCAGGGAGCCCAAGGCGGAGGGTCAAGATGGA	top oligo for cloning T4 protospacer 2 into puc19	this study
ModA_puc19_bottom	AGCTTCCATCTTGACCTCCGCCCTGGGCTCCCTGGGCG	bottom oligo for cloning T4 protospacer 2 into puc19	this study
30.2_puc19_top	AATCTTCACTATCAAACCTTTCTTTATTTTCCTTTGGA	top oligo for cloning T4 protospacer 3 into puc19	this study
30.2_puc19_bottom	AGCTTCCAAAGGAAAATAAAGAAAGTTTTGATAGTGAAG	bottom oligo for cloning T4 protospacer 3 into puc19	this study
11_puc19_top	AATCTTTATTTATCATATTTATAAATAGAATAAAAGGA	top oligo for cloning T4 protospacer 4 into puc19	this study
11_puc19_bottom	AGCTTCTTTTATTCTATTTATAAATATGATAAATAAAG	bottom oligo for cloning T4 protospacer 4 into puc19	this study
30_Church1_top_puc19	AATCAACACCACAAATATCGAAAGCAATCAGGTTAGGA	top oligo for cloning T4 protospacer C1 into puc19	adapted from Yaung et al. 2014
30_Church1_bottom_puc19	AGCTTCCCTAACCTGATTGCTTTTCGATATTTGTGGTGTG	bottom oligo for cloning T4 protospacer C1 into puc19	adapted from Yaung et al. 2014
30_Church2_top_puc19	AATCTTCCGATCCGAAGAACTTCCAACCGGTAATGGGA	top oligo for cloning T4 protospacer C2 into puc19	adapted from Yaung et al. 2014
30_Church2_bottom_puc19	AGCTTCCCATTACCGGTTGGAAGTTCTTCGGATCGGAAG	bottom oligo for cloning T4 protospacer C2 into puc19	adapted from Yaung et al. 2014
30_Church3_top_puc19	AATCTCACGGTATGGATGCTGATGCTGAACTGTCTGGA	top oligo for cloning T4 protospacer C3 into puc19	adapted from Yaung et al. 2014
30_Church3_bottom_puc19	AGCTTCCAGACAGTTCAGCATCAGCATCCATACCGTGAG	bottom oligo for cloning T4 protospacer C3 into puc19	adapted from Yaung et al. 2014