

Table S6. Oligonucleotides used in this study.

Name	Sequence (5'-3')	Description
Cas cloning		
OS674	GGGGATGCCATGGCTAAAATGAAAATTGAATTTAGTACAGGT	5'-CD2982- NcoI
OS677	AAGGAAAAAAGCGGCCGCTTACTCCTCCTTCACAAAACA	3'-CD2977-NotI
OS678	GGGGATGCCATGGCTTATAAAGACTATTATATTATAAGTAATGG	5'-CD2976- NcoI
OS675	AAGGAAAAAAGCGGCCGACCTATATAAACATTTTCATCAGAATAC	3'-CD2975-NotI
Protospacer cloning into pT7Blue		
Sp1-CR12-F	atCCAAAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATAgc	Spacer1- CRISPR12
Sp1-CR12-R	gcTATTCCCGAAACTGAAAGAAATCAATGGACACCTTTTGGat	Spacer1- CRISPR12 Mutated
Sp1mut- CR12-F	atCCAgAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATAgc	Spacer1- CRISPR12 Mutated
Sp1mut- CR12-R	gcTATTCCCGAAACTGAAAGAAATCAATGGACACCTTcTGGat	Spacer1- CRISPR12
Sp1-CR16-F	atCCAGTAGAGTCTTTATATGGTAGAGGTGGAATATATAAGTgc	Spacer1- CRISPR16
Sp1-CR16-R	gcACTTATATATTCACCTCTACCATATAAAGACTCTACTGGat	Spacer1- CRISPR16 Mutated
Sp1mut- CR16-F	atCCAaTAGAGTCTTTATATGGTAGAGGTGGAATATATAAGTgc	Spacer1- CRISPR16 Mutated
Sp1mut- CR16-R	gcACTTATATATTCACCTCTACCATATAAAGACTCTAtTGGat	Spacer1- CRISPR16
CRISPR “mini-arrays” for <i>E. coli</i> strain construction		
CRISPR12-5'	ACAATTCCTCTAGAAATAATTTTGTTTAACTTTTGCTTTTATTATATCACAAATTG	CRISPR-12- mini-array
CRISPR12-3'	ATTTGCTTTTATTATATCACAAATTGACCCGTTTAGAGGCCCAAGGGGTTATGCTAGGGGATTTACATTTCCATATAGTTAATATAAAAC	CRISPR-12- mini-array
CRISPR16-5'	ACAATTCCTCTAGAAATAATTTTGTTTAACTTTTGCTTTTATTATACCACAAATTGGTACAG	CRISPR-16- mini-array
CRISPR16-3'	ATTTGCTTTTATTATACCACAAATTGGTACAGACTTATATATTCACCTCTACCATATAAAGAC	CRISPR-16- mini-array
Repeat-5'	ACAATTCCTCTAGAAATAATTTTGTTTAACTTTTGCTTTTATTATATCACAAATTG	CRISPR repeat
Repeat-3'	ATTTGCTTTTATTATACCACAAATTGGTACAGCCCAAATAAATTGAGTATTTTC	CRISPR repeat
PAM CRISPR cloning into pMTL84121		
OS486	GATCCCCAAAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATA	5'CCA-spacer1- CRISPR12
OS487	AGCTTATTCGAAACTGAAAGAAATCAATGGACACCTTTTGGG	3'CCA-spacer1- CRISPR12
OS488	GATCCCCTAAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATA	5'CCT-spacer1- CRISPR12
OS489	AGCTTATTCGAAACTGAAAGAAATCAATGGACACCTTTAGGG	3'CCT-spacer1- CRISPR12
OS490	GATCCGAGAAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATA	5'GAG-spacer1- CRISPR12
OS491	AGCTTATTCGAAACTGAAAGAAATCAATGGACACCTTTCTCG	3'GAG-spacer1- CRISPR12
OS525	GATCCAATAAAGGTGTCCATTGATTTCTTTTCAGTTTCGGGAATA	5'AAT-spacer1- CRISPR12

OS526 AGCTTATCCCGAAACTGAAAGAAATCAATGGACACCTTTATTG

3'AAT-spacer1-
CRISPR12

Protospacer cloning into pRPF185

OS681 cctCCAGTAGAGTCTTTATATGGTAGAGGTGGAATATATAAGTg

5'CCA-spacer1-
CRISPR16

OS682 gatccACTTATATATCCACCTCTACCATATAAAGACTCTACTGGagg

3'CCA-spacer1-
CRISPR16

OS683 cctCCAaTAGAGTCTTTATATGGTAGAGGTGGAATATATAAGTg

5'CCA Mutated
Spacer1-

OS684 gatccACTTATATATCCACCTCTACCATATAAAGACTCTatTGGagg

CRISPR16

3'CCA Mutated
Spacer1-
CRISPR16
