

Table S7. Primers used to construct phage mutants.

Primer name	Primer sequence	Use
D29_T31726C_gBlock_fwd	GCGATCACTACCTGGATCCGATCGG	to amplify gBlock
D29_T31726C_gBlock_rev	TCGACTTCTACTACATGACCGCCGAG	to amplify gBlock
D29_C12242A_gBlock_fwd	GACTACTTCGCCGAGGCCGAGA	to amplify gBlock
D29_C12242A_gBlock_rev	CTTCGCGCCGTTCCAGGATCGG	to amplify gBlock
D29_A43657T_gBlock_fwd	CTCTTCGATCTGGTCGACCCGCA	to amplify gBlock
D29_A43657T_gBlock_rev	GCTCACAGCGAGGAGCGG	to amplify gBlock
Faith1_38-40_gBlock_fwd	CCCTCCGACCAGCGCCGAT	to amplify gBlock
Faith1_38-40_gBlock_rev	CGAGCTTGCAAAGCGCTGGGTG	to amplify gBlock
Fionnbharth_45_gBlock_fwd	CTGGCTCCAATCCTTTGCTCGTTG	to amplify gBlock
Fionnbharth_45_gBlock_rev	CCGCAAGCGCCAATCATCTGGAC	to amplify gBlock
Fionnbharth_47_gBlock_fwd	ACCAGCGTGAGTGATTGCCCGC	to amplify gBlock
Fionnbharth_47_gBlock_rev	TGCGGCGCAGCAGTTTTGCGATTG	to amplify gBlock
D29_T31726C_check_fwd	CCTCGCGGTGTCGAGCTGACCG	Plaque check
D29_T31726C_check_rev	AGTACCTCGTCCACATCTTCAGCGATG	Plaque check
D29_C12442A_check_fwd	CCCCGCCAACTACCTGGGAAAT	Plaque check
D29_C12442A_check_rev	GCCCACAACGTCAACGTCGTC	Plaque check
D29_A43657T_check_fwd	CGACGCGGTGCATCCGCT	Plaque check
D29_A43657T_check_rev	GACTTCCAGCTCGGCGGTACG	Plaque check
Faith1_38-40_check_fwd	CACCAGTTACGAGGACTGTTCACTTGTCTCA	Plaque check (use with gBlock_rev)
Fionnbharth_45_check_fwd	GGCTGAAAGCGCGGTGAGGGACTTC	Plaque check (use with gBlock_rev)
Fionnbharth_47_check_fwd	CTGTACCCGAGATTGAGGCGTTTTTGGGTA	Plaque check
Fionnbharth_47_check_rev	TGCCGCAAGCGCCAATCATCTG	Plaque check
D29_T31726C_gBlock	GCGATCACTACCTGGATCCGATCGGCCAtcagtgtagatc ccccggacgggtgcgcgagatgggtggcggggttcacgccgtagttgtcgg cgagatccttctctcatgccacccggtagcctcccggatgtcccgg acctcagctcggtagcttctggcggttcggcgggttcgggcccaccgg agccaagctgcctttgacgaacgcttcaccgaaggtccgctcgcgggtg cgagctgaccccgagatcggcgttctccgaccgaggttctggttcaca gccacctggcggttgaccgagtgaccaaccgaccgttcgcgcggtca ggtcttcttcttggatctcctcgccagttcaaccttggcgaccccgac ggtctcggcgagcttgggttctctctcaggtgcttctccgcatCA GCGGCCTCCCTCTCGACGGAACCGCTCGGTCTCCTCGG CGGTATGTAGTAGAAGTCGA	BRED substrate
D29_C12242A_gBlock	gactactcgcgagccgagagaagacctcagctcagcagttcgc agaaggtgccgatgggtaccacggccagaagatcccgcactgggtc gcgacgtgagtgcccagtgatcggtgagggtagatgaagccatcac caagggaacatgacttcgagaccatcgcgccccacaagatcgcgac gatcttctggcgtctcggagaccgtcgtgccaacccccaactacc tgggaaacatcgtaccaggtggcgaaccgcttcgcatggcgttca cggcgcggcgtgacgacgaccgacagccgttcccacacatcaggt cagaccaccaagccatctcattgctgacaccaccggtgccacgaccg tgtacgaccaggtggcgtgaaaggcctgagcctgctggtgaaacgacg caagaagtggaccacaccccttctggacgacatcaccgagccgatcctg aacggcgcgaag	BRED substrate

D29\_A43657T\_gBlock

CTCTTCGATCTGGTCGACCGCGATGAAGAGGTCATCCC  
CGTCGATCTTCGTGGGAGCCCATCAGGATCGCCAGG  
ATCTTGTCTCGGAtcactgcttgaccacccccgctcatggatcggc  
cggccagctcgggtgcccctctccgctccatcgtcctggtatctg  
gttcatcagttgggtgcctcgaagcttcagcagcttcatgggtgagcac  
ccttgaatccgacgcggtgcatccgctggaccgcccgtctcatgccc  
gctacggcacttcagcttcgggtcgttgggatcccaatccttctcatG  
CCTTCTCTCTTGGTGGCTGCAAGTTCGATGACGATGT  
TCACGCGACCCACTCCTTGCCGTTCCACCGCCGACCATC  
TGGGTAGGCGATGATGACTTCCCGGTGCGGGCCGCTCCT  
CGCTGTGAGCGGAGCGAACCGGAACGCCGCTTCTGG  
CGTCGGGAACGCCAGCGCGAGG

BRED substrate

Faith1\_38-40\_gBlock

ccctccgaccagcgcgatCCGGCTCTTAGTTGATACTTTCGT  
TGATACCTCGCGCAAAAACCGCCTCTGACCTGCATGTTCC  
TTAACTGCATGTGCGGATTAAGCCCGTAGATGTACC  
CCCCGCATACCTGGGTGTATGGTGTCAAACGTGACGCT  
AAGCGGGTTAAGAGTCTACAGATGACTCAGTATGACT  
CTGCCGTAGTTGATACCTGTAGTTGATACCTGGGCACC  
GCGAGAGGGGCGAAACCTTGTCCGACTATCGGGACAA  
GTGTCAACCCGGCTGACCAGCAAAGACAGTCTTACACG  
GCTGTAATTCTGCCGATTTGTCGGACAAAATCCTGTTCC  
AGATCGGACCGGGGTGTGTATGGTTCAAACCGTGACG  
CCGACAACCTCCAAACCTCAGCCACACAATTCGCTG  
GATTCCCGAAGCCGTGCAGAATCTCCTGCATAACAACG  
ACATTCTGACTCGCACCGAGCTTGCAAAAGCGCTGGGT  
G

BRED substrate

Fionnbharth\_45\_gBlock

CTGGCTCAATCCTTTGCTCGTTGGGTGACGGCCGGCA  
CTGTACCCGAGATTGAGGCGTTTTTGGGTACATGTTTG  
GGTACACCGCTACGAGCACGGTCTTCTGACCTGCGGT  
TTTACGGTGGATTGCACCGGAATCGGCTGATTAAGT  
TCGTGCGCTCGGCGTGTGACCCAGGCATAACACCGGT  
CACGCTACCCGTAGTGTGTAGTGCTTGGTAGGAG  
TACCGGCTTGGGTACACCTGTGCGGCTGCTGAGTTAGC  
AGTCGGTGGCCGGTGTGCGCCGTTCCGCTCGGCGC  
GGCTGCTTCGGCTGGTGGATGGCGTTCACAGCTT  
CGTGAACGAGCGGGTTTTCTGCTGCCAGCTCCGCACCG  
CCGAGATGACGAGCAGCACGGCGCTGATGCCGGTGAG  
CGTCCAGATGATTGGCGCTTGGCG

BRED substrate

Fionnbharth\_47\_gBlock

accagctgagtgattgcccgttcccagtagctgccccaaactaagc  
gccgtaccacagcgcagtagggtgaatgtgacaaccgtggacacga  
acgtagacagcatcatcggcgtagttccctaaccatcaaggaattgag  
ccgcaaccttttcgggttgcaccgtatgggggctatgtgcccgtg  
ctagcacaacatagtcagatttatggacaaagcaactcgattgacgtg  
cagattctccagatcatcgggcaacacgctgtaagatccgtaatgat  
gtccacaaactggacacagtggttacctctgtaggcatcccagcccct  
cagacctacgaactccgatggaatccggaagcaatcgaactgctg  
cgccgca

BRED substrate

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