

Supplementary table 2. Primers used in this work.

primer	primer sequence 5´-3´	description
5586/TSO T7	ACTCTAATACGACTCACTATAGGGAGACTGCAG	template switching oligonucleotide for the attachment of t7 promoter to IVT transcripts
5587/t7 extension	GCTCTAATACGACTCACTATAGG	primer for second strand synthesis from T7 promoter
5600/(dT)23VN	TTTTTTTTTTTTTTTTTTTTTTTVN	primer for reverse transcription from polyA tails
5749/cspD T7 for	ACTCTAATACGACTCACTATAGGGAGACTGCA GCATGGGGATGCAAAACGGTAAAGTAAATG	forward primer for cspD, includes T7 promoter
5750/cspD rev1	TCAAAATAGGAGAGGCGAATG	reverse primer for cspD full
5751/cspD rev2	tcaaataccAtAccaGAATGCCTCTCCTCTAT TTG	reverse primer for cspD with mutated terminator hairpin
5752/cspD rev3	GAATGCCTCTCCTCTATTTG	reverse primer for cspD missing half of the terminator hairpin
5753/cspD rev4	TCAAAATAGGAGAGGCGAATGCCTCTCCTCTAT TTGGTTTAGAGTTTACAACATTAGAAGC	reverse primer for cspD, where the terminator hairpin is fused to a new upstream context
5754/cspD rev5	tcaaataccAtAccaGAATGCCTCTCCTCTAT TTGGTTTAGAGTTTACAACATTAGAAGC	reverse primer for cspD, where the mutated terminator hairpin is fused to a new upstream context
5755/yfhH t7 for	ACTCTAATACGACTCACTATAGGGAGACTGCA GCATGGGGATGGAGAAACGATACAGTCAAATG AC	forward primer for yfhH, includes T7 promoter
5756/yfhH rev1	ACAAAAAGAGGCTGATCATCAG	reverse primer for yfhH full
5757/yfhH rev2	ACAAAAaAatgTGATCATCAGCCTCCTGTTA CG	reverse primer for yfhH with mutated terminator hairpin
5758/yfhH rev3	ATCATCAGCCTCCTGTTACG	reverse primer for yfhH missing half of the terminator hairpin
5759/yxkC t7 for	ACTCTAATACGACTCACTATAGGGAGACTGCA GCATGGGGATGCGACATAAAATCATTACG	forward primer for yxkC, includes T7 promoter
5760/yxkC rev1	AAAGAACAAGGGTGCCTAAAC	reverse primer for yxkC full
5761/yxkC rev2	AAAGAACAAtcGactgTAAACAGGCACCCCTTG TTAG	reverse primer for yxkC with mutated terminator hairpin
5762/yxkC rev3	TAAACAGGCACCCCTTGTTAG	reverse primer for yxkC missing half of the terminator hairpin
5763/iolW t7 for	ACTCTAATACGACTCACTATAGGGAGACTGCA GCATGGGGTTGATAACGCTTTTAAAGGGGAGA AG	forward primer for iolW, includes T7 promoter
5764/iolW rev1	TGAAAAAGCCTCCCCTTATTTG	reverse primer for iolW full
5765/iolW rev2	TGAAAAAtCgTCaggTTATTGGGGAGGCTTT TGTTTTAG	reverse primer for iolW with mutated terminator hairpin
5766/iolW rev3	CTTATTGGGGAGGCTTTTGttttag	reverse primer for iolW missing half of the terminator hairpin
5767/kdgT t7 for	catGAATTCACTCTAATACGACTCACTATAGG GAGACTGCAGCATGGGGATGAAAATCAAGGCG ACAATTGAACG	forward primer for kdgT, includes T7 promoter
5769/kdgT mut1 rev	TTTcTgTATCTAgatgCAaTtTTGCCAGCGGG GTTAAGAGC	reverse primer for fragment 1 of mutant kdgT at site 1
5770/kdgT mut1 for	aAtTGcatcTAGATAcAgAAATCAAGCAGAAAA AAGCGGAG	forward primer for fragment 2 of mutant kdgT at site 1
5772/ktgT rev full	GTATAAAAGGCTGCCGGTATG	reverse primer for kdgT full
5773/kdgT mut2 rev	GCATATcaCtgtagTACAtcCGCCCCTGCCGT AGAAG	reverse primer for fragment 1 of mutant kdgT at site 2
5774/kdgT mut2 for	ggaTGTAActacaGtgATATGCATTAGCGGAAG CGAATG	forward primer for fragment 2 of mutant kdgT at site 2
5905/iolW long rev	CAGCAAATCAAAGAAGACGCG	reverse primer for iolW long
5906/yfhH long rev	GGTTTTTGATACTCAACGTCATCG	reverse primer for yfhH long
5907/cspD long rev	AAGTATGTTGAAGAGATTGAACAG	reverse primer for cspD long
5908/yxkC long rev	GGCAGTCTTCTAATGTGAATG	reverse primer for yxkC long

Pairs of primers used for PCR of IVT constructs

	forward	reverse
cspD full	5749	5750
cspD half	5749	5752
cspD mut	5749	5751
cspD long	5749	5907
cspD del	5749	5753
cspD del mut	5749	5754
yfhH full	5755	5756
yfhH half	5755	5758
yfhH mut	5755	5757
iolW full	5763	5764
iolW half	5763	5766
iolW mut	5763	5765
iolW long	5763	5905
yxkC full	5759	5760
yxkC half	5759	5762
yxkC mut	5759	5761
yxkC long	5759	5908
kdgT full	5767	5772
kdgT mut1- fragment 1	5767	5769
kdgT mut1- fragment 2	5770	5772
kdgT mut2- fragment 1	5767	5773
kdgT mut2- fragment 2	5774	5772