

Supplemental Table 1. Primers used in this study

Primer	Sequence (5'- 3')	Remarks
MLBF	GGATTTTGGTTTTAGGAATTAGA	<i>MspI</i> left border, forward
MLBR	AATTCGGCGTTAATTCAGTACA	<i>MspI</i> left border, reverse
MLSeq	TCAGTACATTA AAAACGTCCGCAA	<i>MspI</i> left border, sequencing
MRBF	CAACTGTTGGGAAGGGCGATC	<i>MspI</i> right border, forward
MRBR	CAGCCTGAATGGCGAATGCTA	<i>MspI</i> right border, reverse
MRSSeq	GAATGCTAGAGCAGCTTGAGCT	<i>MspI</i> right border, sequencing
NLBF	AGTGATTGACCGATTCCTTGC	<i>NcoI</i> left border, forward
NLBR	AGGGTTCCTATAGGGTTTCGCTCATG	<i>NcoI</i> left border, reverse
NLSeq	GAATTAATTCGGCGTTAATTCAGT	<i>NcoI</i> left border, sequencing
NRBF	CGTTATGTTTATCGGCACTTGTG	<i>NcoI</i> right border, forward
NRBR	GGCACTGGCCGTCGTTTTACAAC	<i>NcoI</i> right border, reverse
NRSSeq	CCCTTCCCAACAGTTGCGCA	<i>NcoI</i> right border, sequencing
KO-6010-LF	GGTCTTAAUACTGCGCTGATGACCTCAC	Left border, forward
KO-6010-LR	GGCATTAAUCAGTGGATGCTGTTGTCGAT	Left border, reverse
KO-6010-RF	GGACTTAAUAATGCGAAATGCGTAAGGAG	Right border, forward
KO-6010-RR	GGGTTAAUGCGGTAGGCCTTCTTGATCT	Right border, reverse
6010-F	GCGGCCGCATGTCAGTTACGAACGGTGC	Full length, forward
6010-R	CCATGGTCAATTAACACCAGCAGCCTT	Full length, reverse
6010 -comp_F	GAATTCTGCGCTGATGACCTCACC	Complementation, forward
6010 -comp_R	TTAATTAACCGCCTTGGATCACCAC	Complementation, reverse
qPCR-6010-F	ACACGATCCTCCAG ATCTC	Real-time PCR, forward
qPCR-6010-R	GCGAGAAGTCTTCCAGGTG	Real-time PCR, reverse
VdELF1-a-F	CCATTGATATCGCACTGTGG	Real-time PCR, forward
VdELF1-a-F	TGGAGATACCAGCCTCGAAC	Real-time PCR, reverse
qPCR-Hyg-F	ATAGGTCAGGCTCTCGCTGA	Real-time PCR, forward
qPCR-Hyg-R	GATGTAGGAGGGCGTGGATA	Real-time PCR, reverse
6010-BamH1-F	GGATCCTCAGTTACGAACGGTGCCA	pET-SUMO cloning, forward
6010-Hind3-R	AAGCTTCTATTATCAATTAACACCAGCAGCCTT	pET-SUMO cloning, reverse