

S11 Table. Primers used in this study

Name	Forward primer (5'-3')	Reverse primer (5'-3')	Function
p-I258T	ATTACTTGATTCAAACTTATATTCCA	GTTTGAATCAAGTAATATCCCATAGA	CsRDL-I258T
p-L275I	TGGGTGTCTTTTTGGATCAATAGAAATG	GATCCAAAAAGACACCCACGATATGATG	CsRDL-L275I
p-V288I	AGAGTGTCGTTGGGCATAACAACCTGT	TGCCCAACGACACTCTAGCTGGTGTC	CsRDL-V288I
p-M298N	CTATGACCACCCTAAACTCTTCAACAA	GTTTAGGGTGGTCATAGTCAAAACAGT	CsRDL-M298N
p-AA303-304NS	ATGTCTTCAACAAATAATTCTTTGCCCAA	AATTATTTGTTGAAGACATTAGGGTGGTC	CsRDL-AA303-304NS
p-G319M	ATCGATGTCTACCTAATGACCTGCTTCG	CATTAGGTAGACATCGATAGATTTTACA	CsRDL-G319M
p-G319S	ATCGATGTCTACCTATCAACCTGCTTCG	TGATAGGTAGACATCGATAGATTTTACA	CsRDL-G319S
p-A327S	TTCGTGATGGTCTTCTCAAGCCTATT	AGAAGACCATCACGAAGCAGGTTCT	CsRDL-A327S
p-G336N	GAATATGCTACTGTTAACTATATGGCT	TTAACAGTAGCATATTCTAATAGGCTT	CsRDL-G336N
p-MA338-339IF	TACTGTTGGCTATATATTTAAACGAATA	AATATATAGCCAACAGTAGCATATTCTA	CsRDL-MA338-339IF
p-M473V	GTCTGCTTTAATCTTGTGTATTGGAT	CAAGATTTAAAGCAGACGAAGCAAACG	CsRDL-M473V
p-I477D	CTTATGTATTGGATAGATTATCTTCAC	TCTATCCAATACATAAGATTAAAGCAG	CsRDL-I477D
<i>TuRDL</i>	TTGGCTGTGCTTTTCTCCTT	GCATTTTCCAGCTTCTGCTT	<i>TuRDL</i>
pGH19- <i>TuRDL</i>	ATTCCCCGGGGATCCGAATTCGCCACCATGATG ATGTTGATGCTGAT	TCGGCGATCGGGCCCTCTAGATTAAGACTCTT CGTCGGCC	pGH19- <i>TuRDL</i>
p- <i>TuRDL</i> -G339M	ATCGATGTTTTCTGATGACTTGTTCG	CATCAGGAAAACATCGATACTCTTTACG	<i>TuRDL</i> -G339M
<i>DmRDL</i>	ACCACCATGAGTGATTCAAAAATGG	AGTGCCCTGCCAAGTTTGACTCT	<i>DmRDL</i>
pGH19- <i>DmRDL</i>	ATTCCCCGGGGATCCGAATTCGCCACCATGAGT GATTCAAAAATGG	TCGGCGATCGGGCCCTCTAGACTACTCCTCGC CCAGAAGCA	pGH19- <i>DmRDL</i>
p- <i>DmRDL</i> -G335M	ATTGACGTCTATCTGATGACATGCTTCG	CATCAGATAGACGTCAATCGATTTGACG	<i>DmRDL</i> -G335M
p- <i>AmRDL</i> -G320M	ATCGACGTTTACCTGATGACATGTTTCG	CATCAGGTAAACGTGCGATCGACTTGACG	<i>AmRDL</i> -G320M
p- <i>LsRDL</i> -G317M(9c)	ATCGACGTCTACCTGATGACCTGTTTCG	CATCAGGTAGACGTGCGATCGACTTGACG	<i>LsRDL</i> -G317M(9c)
p- <i>CsRDL1</i> -G316M	ATCGACGTGTATTTGATGACCTGTTTCG	CATCAAATACACGTGCGATAGATTTTACG	<i>CsRDL1</i> -G316M
<i>Mma1</i>	ATGAAGAAAAGTCGGGGTCTC	CTATTGATGGGGTGTGGGGGCTT	<i>Mma1</i>
pGH19- <i>Mma1</i>	ATTCCCCGGGGATCCGAATTCATGAAGAAAAG TCGGGGTCTC	TCGGCGATCGGGCCCTCTAGACTATTGATGGG GTGTGGGGGCTT	pGH19- <i>Mma1</i>

<i>Mmβ2</i>	ATGTGGAGAGTCCGGAAAAGG	TTAGTTCACATAGTAAAGCCAA	<i>Mmβ2</i>
pGH19- <i>Mmβ2</i>	ATCCCCGGGGATCCGAATTCATGTGGAGAGTC CGGAAAAGG	TCGGCGATCGGGCCCTCTAGATTAGTTCACAT AGTAAAGCCAA	pGH19- <i>Mmβ2</i>
p- <i>Mmβ2</i> -M310G	ATTGACATGTACCTAGGTGGGTGCTTTG	ACCTAGGTACATGTCAATGGCTTTGACA	<i>Mmβ2</i> -M310G
<i>Dmr1</i> -gRNA1	TAATACGACTCACTATAAAATCGATTGACGTC TATCTGTTTTAGAGCTAGAAATAGCAAGTTAA AATAA	AGCACCGACTCGGTGCCACTTTTTCAAGTTGA TAACGGACTAGCCTTATTTAACTTGCTATTT CTAGCTCTAA	Generation of templates for gRNA <i>in vitro</i> transcription
<i>Dmr1</i> -gRNA2	TAATACGACTCACTATATCTGGGAACATGCTT CGTTAGTTTTAGAGCTAGAAATAGCAAGTTAA AATAA		
<i>Dmr1</i> -G3-5F	CCTCTTCGCTATTACGCCAGCAACGATTATTGC TTCGGTTAAGTC	AAACAAGTCATTAAGTACACATCTATCGATT TGACGTACGAAATC AAACAAGTCGATAAGTACACATCTATCGATT TGACGTACGAAATC	Generation of DNA fragments for the assembly of donor plasmids
<i>Dmr1</i> -G3M-3F	GTGTACTTAATGACTTGTGTTTGTGTCATGGTCTTT GCCAGTCTACTG	GCTATGACCATGATTACGCCATTGATTCTAG	
<i>Dmr1</i> -G3S-3F	GTGTACTTATCGACTTGTGTTTGTGTCATGGTCTTT GCCAGTCTACTG	GTGCGAGGTG	
pBSK-s	TGGCGTAATCATGGTCATAGC	CTGGCGTAATAGCGAAGAGG	
pCFD4-gRNAs	GATATCCGGGTGAACTTCGAAATCGATTGACG TCTATCTGTTTTAGAGCTAGAAATAGCAAG	CTATTTCTAGCTCTAAACTAACGAAGCATGT TCCAGACGACGTTAAATTGAAAATAGGTC	Generation of DNA fragment with gRNA sequences fused
G3QDonor	ATAGATGTGTA CTTACAGACTTGT TTT	TGTAAGTACACATCTATCGATTTGACG	Generation of mutated donor plasmid
rd1335det	GCAACTATTCGCGTTTAGCC	CTGGCTGTTGATCGACGACT	Amplification of the genomic region of <i>Drosophila</i> for sequencing

Note, the restriction enzyme sites for *Eco* RI and *Xba* I are shown in red, and the Kozak sequence is indicated in green, the nucleotide sequences matching the pGH19 vector are in italics. The blue nucleotides are the mutant sites.