



Gene Editing Rat Resource Center

Genotyping Your Model



Date:	04/06/2020		
Mutant Strain:	LE-Chd8 ^{em1Mcwi}	Mutant Strain RGD ID:	25330088
Gene Targeted:	Chd8	RGD Gene ID:	620696
Parental Strain:	Long Evans	RGD Parental Strain ID:	2308852
Mutation Description:	5 bp deletion in exon 5		
Deletion:	(deletion in red) TCTTGCTTTTTCTGGTGCTcaagcCTGCGGTTCTCCTCCATTCCAG		
Insertion	None		
Mutation Region:	(RGSC 6.0/rn6) chr15:28,646,442-28,646,446		
Target Site:	CTGGAATGGAGGAGAACCGC and TTTTCTGGTGCTCAAGCCTG		

Genotyping Primers:

Forward:	GGAGGCAGCAGCAGTCTTGC
Reverse:	GGCTGGCTCTTCTCAGGGAG
WT PCR Size:	361 bp
Mutant Size:	356 bp

Derivation Information:

This strain was produced by injecting Crisprs targeting the sequences **CTGGAATGGAGGAGAACCGC** and **TTTTCTGGTGCTCAAGCCTG** into Long Evans rat embryos. This allele was made by Crispr mutagenesis. The resulting mutation is a 5bp del in exon5.

Suggested Genotyping:

Fluorescent genotyping or direct sequencing.

Funding Source:

Questions? Send an email to: mcwcustomrats@mcw.edu

PCR

5.0 ul of template (approximately 200ng)

12.5 µl of Accuprime Supermix II (Invitrogen, Carlsbad, CA)

1.0 µl of primer set at 10 µM

8.5 µl of water

25 uL / rxn

PCR cycling parameters:

95°C- 5 min

35 cycles of:

95°C- 30 sec

60°C- 30 sec

68°C- 45 sec