



Gene Editing Rat Resource Center

Genotyping Your Model



Date:	4/7/2020	
Strain Symbol:	Lew-Rorc ^{em5MCWi}	RGD ID: 10054447
Parental Strain:	<u>Lew</u> ^{CrI}	Parental Strain RGD ID: 61104
Gene Targeted:	Rorc	Gene RGD ID: 1595785
Mutation Description:	Net 59 bp del	Allele RGD ID: 10054445
Deletion:	GATCTTGCAAGGGATCACTTCGAT TTGTGCTGGAAGAGAGAAAGAGAA GTCAGCCCAGAATATTTTTTC	
Insertion	agggggcact	
Mutation Region:	(RGSC 5.0/rn5)	
Target Site:	GTGATCCCTTGCAAGATCTG	

Genotyping Primers:

Forward:	GCTCACTGAAGAAGTAGGGAGAGC
Reverse:	CATGTGCACTGGTCTTAGGGAT
WT PCR Size:	381 bp
Mutant Size:	322 bp

Derivation Information:

This strain was produced by injecting 3 Crisprs targeting the sequences GTGATCCCTTGCAAGATCTG into Lewis rat embryos. This allele was made by Crispr mutagenesis. The resulting mutation is a 59-bp deletion in exon.

Suggested Genotyping:

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

PCR and then run on a 2% agarose gel or polyacrylamide gel. 381 bp product will be the WT allele, and the 322 bp product will be the mutant allele.