

Gene Editing Rat Resource Center

Genotyping Your Model



Date:	04/06/2020		
Mutant Strain:	LE-Nrxn1 ^{em1Mcwi}	Mutant Strain RGD ID:	25330089
Gene Targeted:	Nrxn1	RGD Gene ID:	628659
Parental Strain:	Long Evans	RGD Parental Strain ID:	2308852
Mutation Description:	4 bp del in exon 1		
Deletion:	CAGTTCCGCAACACCACTctctACATCGACCGCGCTGAGGCCAAGTGGGT (deletion in red)		
Insertion	None		
Mutation Region:	(RGSC 4.0/rn4) chr6:15,352,831-15,352,834		
Target Site:	AGCGCGGTCGATGTAGAGAG		

Genotyping Primers: Forward: GACGAGGGCTTCTGCGACTT Reverse: CAGGGTGAGCTTGAGCGCAG WT PCR 300 bp Mutant 296 bp

Derivation Information:

This strain was produced by injecting a Crispr targeting the sequence **AGCGCGGTCGATGTAGAGAG** into Long Evans rat embryos. This allele was made by Crispr mutagenesis. The resulting mutation is a 4 bp deletion in exon 1.

Suggested Genotyping:

Fluorescent genotyping or direct sequencing.

Funding Source:

<u> PCR</u>

5.0 ul of template (approximately 200ng)

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

1.0 μI 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