

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36899
MMRRC Strain Name	Bex1 KO
Gene Name(s)	brain expressed X-linked 1 (Bex1)
Breeding Protocol(s)	Random Intra-strain Mating
Protocol Date	12/09/2013

MMRRC #36899 PCR Reaction

2,2 Primer Reaction (WTF + WTR) for wild-type and (MutF and MutR) for the mutant reaction.

Note: This mutation is X-Linked: Males can only be hemizygous, NOT homozygous

Thermal Cycler:

Step 1: 95°C for 5 min

Step 2: 95°C for 60 sec

Step 3: 58°C for 60 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

Taq: Apex Taq and Chromataq 5X Buffer

Bands: MUTANT: 223bp

WT: 201bp

Primer sequences 5' to 3':

WTF: CAAGCAGGCCTCTGACCTAC

WTR: GTCCTCCCTCCCACCTACTC

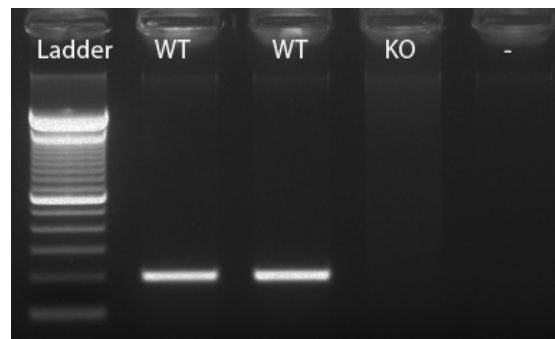
MutF: ATTCATTTCCCATCTGAAAGGTCCG

MutR: AAATGGCGTTACTTAAGCTAGCTTGC

Run on 2% agarose gel.

	1X
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM WT Primer	1
10uM Mut Primer	1
Taq	0.5
DNA	2

Gel Representation of WT animals



Gel Representation of KO animals

