

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	69568
<b>MMRRC Strain Name</b>	STOCK <i>Basp1<sup>tm1Meka</sup></i> /RosteMmnc
<b>Gene Name(s)</b>	brain abundant, membrane attached signal protein 1
<b>Breeding Protocol(s)</b>	Backcross and random intra-strain mating
<b>Protocol Date</b>	4/29/2026

### PCR Reaction

	<b><u>1X</u></b>
ddH <sub>2</sub> O	15
10X Buffer	2.5
25mM MgCl <sub>2</sub>	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2

#### **Thermal Cycler:**

Step 1: 94C, 5min

Step 2: 94C, 45sec

Step 3: 60C, 45sec

Step 4: 72C, 60sec

Step 2 to 4 Cycles: 30

Step 5: 72C, 7min

Taq: **Apex Taq (42-409 from Genesee Scientific)**

Bands: WT: 199bp MUTANT: 260bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer

BASP1(69568)F CGAGAGATTTGTGATGTATGATGAGCAG

BASP1(69568)R CAGGCGGCATGGTATTGGTCTTA