

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	37584
MMRRC Strain Name	B6.129P2(Cg)- <i>Kdm6b</i> ^{tm1Mag} /Mmnc
Gene Name(s)	KDM1 lysine (K)-specific demethylase 6B (Kdm6b)
Breeding Protocol(s)	Sib-mating
Protocol Date	12/23/16

MMRRC #37584 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 55° for 30 sec

Step 4: 72°C for 30 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

Taq: **Apex Taq and Chromataq 5X Buffer**

Bands:

WT: 366bp

MUTANT: 458bp

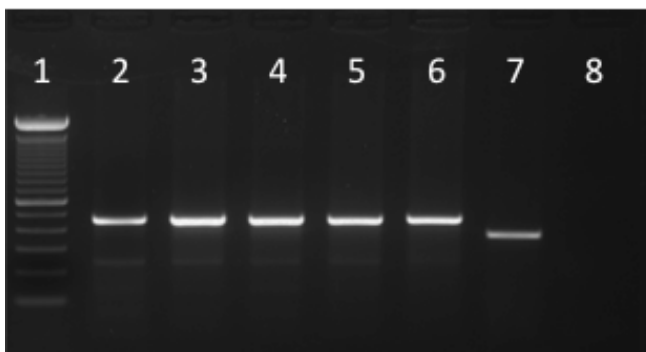
	<u>1X</u>
ddH ₂ O	12
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2

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

Kdm(37584)F: CAGAGGCAGGTAGATCTTTG

Kdm(37584)F3: GAGGTGAAGAACGTCAAGTC

Kdm(37584)R: CAACCCTCCCTTTCTTTTCG



1. 100bp Marker (Invitrogen)
2. Homozygous Sample
3. Homozygous Sample
4. Homozygous Sample
5. Homozygous Sample
6. Homozygous Sample
7. Wild-type Control
8. Negative Control