

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	50607
MMRRC Strain Name	C57BL/6N-Gt(ROSA)26Sor ^{tm1(CAG-IL37)Osjyz} /Mmnc
Gene Name(s)	gene trap ROSA 26, Philippe Soriano; interleukin 37
Breeding Protocol(s)	Sib-mating
Protocol Date	10/28/2024

PCR Reaction

	<u>1X</u>
ddH ₂ O	12.5
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2

Note: 2,2 Primer Reactions (WF+WR for wild-type and MF+MR for mutant)

Thermal Cycler:

Step 1: 94C, 5min

Step 2: 94C, 45sec

Step 3: 55C, 45sec

Step 4: 72C, 60sec

Step 2 to 4 Cycles: 30

Step 5: 72C, 7min

Taq: **Apex Taq**

Bands: WT: 213bp MUTANT: 295bp

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

IL37(50607)MF: TCACACAAGTCCAAAGGTGA

IL37(50607)MR: AGCCAGCTTCATCAGTTTCT

IL37(50607)WF: TAAGGGAGCTGCAGTGGAGTA

IL37(50607)WR: TTTAAGCCTGCCAGAAGACT