



STRAIN NAME :

CD2-TCRabF5

REAGENTS AND SOLUTIONS:

- Kapa Mouse Genotyping kit (Sigma)
- Primers 30µM (Eurofins)
- Mineral Oil (Fisher Scientific)
- DNA (extracted with Kapa Mouse Genotyping kit)

REACTION MIX :

MIX	Quantity / well
Water	6,80 µl
2X Kapa Buffer	10,00 µl
TCRaFRW	0,30 µl
TCRaREV	0,30 µl
TCRbFRW	0,30 µl
TCRbREV	0,30 µl
DNA	2,00 µl
Final Quantity	20,00 µl

PCR PROGRAM:

3 min	95°C	
15 sec	94°C	
15 sec	60°C	35 cycles
30 sec	72°C	
5 min	72°C	

MIGRATION :

Migration on 1.5% agarose gel.

PRIMERS SEQUENCES

- TCRaFRW 5' CCACATGGTACCCGACTCTT 3'
- TCRaREV 5' AACGTTCCAGATTCCATGGTT 3'
- TCRbFRW 5' GGATGCCCAAGGAACGAT 3'
- TCRbREV 5' TCTCTGCTTTTGATGGCTCA 3'

EXPECTED AMPLIFICATIONS

TCRa allele : 400 bp
TCRb allele : 200 bp

Perfection date : 15/07/2024

Update :



STRAIN NAME :

Ptprc302K/E

REAGENTS AND SOLUTIONS:

- Kapa Mouse Genotyping kit (Sigma)
- Primers 30µM (Eurofins)
- Mineral Oil (Fisher Scientific)
- DNA (extracted with Kapa Mouse Genotyping kit)

REACTION MIX :

We use 2 different reactions for the 2 alleles WT and mutant :

WT reaction :

MIX	Quantity / well
Water	7,00 µl
2X Kapa Buffer	10,00 µl
Ptprc302F	0,50 µl
Ptprc302WTR	0,50 µl
DNA	2,00 µl
Final Quantity	20,00 µl

Mutant reaction :

MIX	Quantity / well
Water	7,00 µl
2X Kapa Buffer	10,00 µl
Ptprc302F	0,50 µl
Ptprc302mutR	0,50 µl
DNA	2,00 µl
Final Quantity	20,00 µl

PCR PROGRAM:

3 min	95°C	
15 sec	94°C	
15 sec	60°C	35 cycles
30 sec	72°C	
5 min	72°C	

MIGRATION :

Migration on 1.5% agarose gel.

PRIMERS SEQUENCES

- Ptprc302F 5' AAGAAGCATCAGACCTTGGGAG 3'
- Ptprc302WTR 5' GGTTTTTGTTCCTCCACTCCAAA 3'
- Ptprc302mutR 5' GGTTTCTGTCTTCCACTCGAGG 3'

EXPECTED AMPLIFICATIONS

WT allele: 238 bp
mutant allele : 238 bp

Perfection date : 18/04/2024

Update :