



STRAIN NAME : Nox4 flox

REAGENTS AND SOLUTIONS:

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

REACTION MIX WT and floxed allele :

MIX	Quantity / well
Water	7,40 µl
2X Kapa Buffer	10,00 µl
Nox4WTF	0,30 µl
Nox4R	0,30 µl
DNA	2,00 µl
Final Quantity	20,00 µl

REACTION MIX KO allele :

MIX	Quantity / well
Water	7,40 µl
2X Kapa Buffer	10,00 µl
Nox4KOF	0,30 µl
Nox4R	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

- Nox4WTF 5' AGACATCCAATCATTCCAGTGG 3'
- Nox4KOF 5' TGTCTGTGCGCGCACTCACTA 3'
- Nox4R 5' GTGGATCAAGAAACATGCTGAC 3'

EXPECTED AMPLIFICATIONS

WT allele : 435 bp
Floxed allele : 469 bp
KO allele : 517 bp

STRAIN NAME : SMMHC icre

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
SMMHC1	0,60 µl
SMMHC2	0,30 µl
SMMHC3	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

- SMMHC1 5' TGACCCCATCTCTTCACTCC 3'
- SMMHC2 5' AACTCCACGACCACCTCATC 3'
- SMMHC3 5' AGTCCCTCACATCCTCAGGTT 3'

EXPECTED AMPLIFICATIONS

WT allele : 210 bp
 Modified allele: 290 bp