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' TGTCTGTCGGCGCACTCACTA 3'
- Nox4R 5' GTGGATCAAGAAACATGCTGAC 3'

EXPECTED AMPLIFICATIONS

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

STRAIN NAME : Tie2 cre

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	7,40	µl
2X Kapa Buffer	10,00	µl
Tie2F	0,30	µl
Tie2R	0,30	µl
DNA	2,00	µl
Final Quantity	20,00	µl

PCR PROGRAM:

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

MIGRATION :

Migration on 1.5% agarose gel.

PRIMERS SEQUENCES

- Tie2F 5' CGCATAACCAGTGAAACAGCATTGC 3'
- Tie2R 5' CCCTGTGCTCAGACAGAAATGAGA 3'

EXPECTED AMPLIFICATIONS

Tg allele : 550 bp