STRAIN NAME : Dcx flox

REAGENTS AND SOLUTIONS:

- Kapa Mouse Genotyping kit (Clinisciences)
- BamH1 restriction enzyme 10u/µl (NEB)
- Primers 30µM (Eurogentec)
- Mineral Oil (Fisher Scientific)
- DNA (extracted with Kapa Mouse Genotyping kit)

PCR REACTION MIX :

MIX	Quantity / well	
Water	7,40	µl
2X Kapa Buffer	10,00	µl
DCX flox1	0,30	µl
DCX flox2	0,30	µl
DNA	2,00	µl
Final Quantity	20,00	µl

PCR PROGRAM:

3 min	95°C	
15 sec	94°C	
15 sec	55 °C	35 cycles
30 sec	72°C	
5 min	72°C	

MIGRATION : Migration on 1.5% agarose gel.

PRIMERS SEQUENCES

- DCX flox1 5' GGCTGAGCCTAACTTGCTTCCA 3'
- DCX flox2 5' CCAGTTTCTGTGATGCTCACTA 3'

EXPECTED AMPLIFICATIONS : all alleles amplify at 1000 bp

ENZYMATIC RESTRICTION REACTION MIX :

MIX	Quantity / well	
Water	7,50	µl
10X Buffer 4	2,00	µl
BamH1	0,50	µl
PCR	10,00	µl
Final Quantity	20,00	µl

RESTRICTION PROGRAM: at least 3 hours at 37°C

EXPECTED FRAGMENTS : WT allele 1000 bp Mutant allele : 684 + 266 bp

Be careful : mutation is X-linked. Males are hemizygous.

Perfection date : 29/03/2012
Update :