



**STRAIN NAME :**

**EM:08945\_B6.Cg-Rag2tm1Fwa Tg(CD2-DsRed)#Kio Tg(TcraH-Y,TcrbH-Y)71Vbo/Orl**

**Rag2**

REAGENTS AND SOLUTIONS:

- Kapa Mouse Genotyping kit (Clinisciences)
- Primers 30µM (Eurogentec)
- 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
RAG2F	0,60 µl
RAG2R	0,30 µl
RAG2neoR	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

- RAG2F                    5' GGGAGGACACTCACTTGCCAGTA 3'
- RAG2R                   5' AGTCAGGAGTCTCCATCTCACTGA 3'
- RAG2neoR               5' CGCCGGAGAACCTGCGTGCAA 3'

EXPECTED AMPLIFICATIONS

WT allele : 263 bp  
Modified allele: 350 bp

**HY**

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
aHY1	0,30 µl
aHY2	0,30 µl
bHY1	0,30 µl
bHY2	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

- aHY1                    5' CTGGAGCTCAGATGCAGTTA 3'
- aHY2                    5' ACGAGCTGACGACAACCATGCAC 3'
- bHY1                    5' ACAAGGTGGCAGTAACAGGA 3'
- bHY2                    5' ACAGTCAGTCTGGTTCCTGA 3'

EXPECTED AMPLIFICATIONS

WT allele : / bp  
Transgenic allele: 250 + 300 bp

## DsRed

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	6,40 µl
2X Kapa Buffer	10,00 µl
dsRedF	0,50 µl
dsRedR	0,50 µl
CIF	0,30 µl
CIR	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

- dsRedF                    5' GGTGATGTCCAGCTTGGAGT 3'  
- dsRedR                    5' CCCCATAATGCAGAAGAAGA 3'  
- CIF                         5' CTAGGCCACAGAATTGAAAGATCT 3'  
- CIR                         5' GTAGGTGGAAATTCTAGCATCATCC 3'

EXPECTED AMPLIFICATIONS

Internal control : 324 bp  
Transgenic allele: 208 bp