

PCR Genotyping of GluR6-KO mice

Date: 4/5/2007

Reaction mixture	Volume (μ l)	<u> </u> x	Samples	Controls
DNA template	2			
25mM MgCl ₂	1			
10X Buffer	2.5			
10mM dNTPs	0.25			
20uM IMR0013	0.3			
20uM IMR0014	0.3			
20uM IMR0884	0.6			
20uM IMR0885	0.6			
Taq	0.5			
ddH ₂ O	16.95			
	<u>25</u>	<u>0</u>		

Cycling Conditions

Program Name: GRIK2-KO

Temperature	Time	
94 °C	3:00	
94 °C	0:20	} 13 cycles
64 °C	0:30, -0.5°C/cycle	
72 °C	0:35	
94 °C	0:20	} 25 cycles
58 °C	0:30	
72 °C	0:35	
72 °C	2:00	
4 °C	forever	

Run PCR products on a 1.5% agarose gel.

wildtype (+/+) : 493 bp

heterozygote (+/-) : 493 bp, 280 bp

homozygote (-/-) : 280 bp

Primer Sequences:

IMR0013

IMR0014

IMR0884

IMR0885

CTT GGG TGG AGA GGC TAT TC

AGG TGA GAT GAC AGG AGA TC

CAA AGC TTA GTT AAC TGA TAT ACA G

TTA TGG TTA CAT GCA CAG AGG C