

α 6- nAChR subunit null mutation from Dr Uwe Maskos

On C57Bl6 background (10 generations)

Reference: Champiaux N, Han ZY, Bessis A, Rossi FM, Zoli M, Marubio L, McIntosh JM, Changeux JP. (2002) Distribution and pharmacology of alpha 6-containing nicotinic acetylcholine receptors analyzed with mutant mice.

J Neurosci. Feb 15;22(4):1208-17.

α 6 PCR Protocol

Volume of Reagent	Reagent
11.8 μ L	Molecular Grade Water
2.5 μ L	10X PCR Buffer QIAGEN
5.0 μ L	Q Solution
0.5 μ L	dNTP Mix (10mM each dNTP)
1.0 μ L	A6F37 primer (2.5uM)
1.25 μ L	A6i1.2R primer (2.5uM)
1.25 μ L	A6i2.3R primer (2.5uM)
0.5 μ L	Qiagen Taq
1.0 uL only	Genomic DNA
25.0 μL Total Volume	(All reagents from Qiagen, primers from Sigma Genosys)

Thermocycler Program

Updated: 11/1/07

95	hold 5 min	
94	45 sec	
62	1 min	} 30 cycles
72	1 min	
72	hold 7 min	
4	hold forever	

Band Sizes: +/+ 530 bp
 -/- 305 bp
 +/- 530 bp & 305 bp

Primer Sequences:

A6F37- 5' CCACAGCCCCCGTG TAG 3'

A6i1.2R- 5' GCACCAGCCAGGTCTGAGCC 3'

A6i2.3R- 5' CCCGAACGTTTCCAGTTGCCTCTGC 3'