

MMRRC #10461 Genotyping

The ErbB4 knockout allele has a neo cassette inserted into the 2nd exon of erbB4 (see Nature 378, 390-394 (1995)).

5' primer is common to both, wt and mutant, alleles (in exon 2)

primer #36: 5'- tgt gcg cag gaa cag aga ac -3'

3' primer, wt specific, in exon 2

primer #37: 5'- ccg cag gaa gga gag gtc -3'

3' primer mutant specific, in neo cassette (288-269 in pPNT-NEO.MAP)

primer #56: 5'- ctg cac gag act agt gag ac -3'

Cycling parameters (MG1): final primer conc. is 0.125 μ M each, MgCl₂ is 2mM

Step 1: 94 for 2 min

Step 2: 94 for 1 min

Step 3: 55 for 1 min

Step 4: 72 for 1 min

Step 5: Go to step 2 for 34 times

Step 6: 72 for 5 min

Expected sizes: ~150 bp for wt allele

~320 bp for mutant allele