Genotyping for TBR k/o animals

1. PCR for detecting Neo, use primer Neo1 and Neo4:
   Neo1: CAA GAT GGA TTG CAC GCA G
   Neo4: CAT CCT GAT CGA CAA GAC

   PCR condition: 94c for 2'
   94c for 1', 58c for 2', 72c for 2' using 35 cycles
   72c for 10'

2. PCR for detecting Tbr, use primer
   Tbr (733-750) #1: GAT CCC ACC GCT CAT TAC
   (952-935) #2: ATG CTC CCT TGT TGT TGG

   PCR condition: 97c for 2'
   97c for 1', 55c for 1', 72c for 1'
   using 30 cycles
   72c for 6'

3. If you obtain Neo band but no Tbr band, you have homozygote(-/-) animal, if you obtain both Neo band and Tbr band, you have heterozygote(+/-) animal, if you only obtain Tbr band but no Neo band, you have wildtype animal. the neo band is about 500bp while the tbr is about 700bp.

From Jason

For Tbr1 Mutant

JL47   ACA TTT CTG GTC TCG ATC CC
JL48   TCC TTG CAC ATT GGT GTC CG
   95°C 1 min/62°C 1 min/72°C 1 min (30 cycles)