

**Ple80 (mEMS505) ESC derivation (GABRA6-D)**

pEMS1060 was electroporated into mEMS21 (E14TG2a) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple80 genotyping assay).

mEMS503, mEMS505, mEMS510 and mEMS512 were identified as the correctly targeted ESC lines.

These ESC lines were microinjected into C57BL/6J (JAX Stock#000664). Resulting chimeras were bred to C57BL/6J females, and germline N1 progeny identified by the presence of the the  $A^w$  (agouti, white belly) coat color allele.

The Ple80 strain (B6129P2-*Hprt1*<sup>tm30(Ple80-EGFP/cre/NLS)Ems</sup>) was established from the mEMS505 ESC line (see Ple80 (mEMS505) Mouse description file).