

**Ple148 (mEMS1606) ESC derivation (OLIG1-A)**

pEMS1169 was electroporated into mEMS1204 (B6129F1-*Gi(ROSA)26Sor<sup>tm1Sor/+</sup>*, *Hprt1<sup>b-m3</sup>/Y*) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple148 genotyping assay).

mEMS1606, mEMS1611, mEMS1612 and mEMS1624 were identified as the correctly targeted ESC lines.

The mEMS1606 ESC line was microinjected into B6(Cg)-*Tyr<sup>c-2J</sup>/J* (JAX Stock#000058). Resulting chimeras were bred to B6(Cg)-*Tyr<sup>c-2J</sup>/J* females, and germline N1 progeny identified by the presence of the *Tyr<sup>+</sup>* allele in combination with the *A<sup>w</sup>* (agouti, white belly) and *a* (non-agouti/black) coat color alleles.

The Ple148 strain (B6129P2-*Hprt1<sup>tm27(Ple148-EGFP/NLS)Ems</sup>*) was established from the mEMS1606 ESC line (see Ple148 (mEMS1606) Mouse description file).