

Ple49 (mEMS1769) ESC derivation (DBH-B)

pEMS1360 was electroporated into mEMS1204 (B6129F1-*Gi(ROSA)26Sor^{tm1Sor/+}*, *Hprt1^{b-m3}/Y*) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple49 genotyping assay).

mEMS1769, mEMS1172 and mEMS1783 were identified as the correctly targeted ESC lines.

The mEMS1769 ESC line was microinjected into B6(Cg)-*Tyr^{c-2J}/J* (JAX Stock#000058). Resulting chimeras were bred to B6(Cg)-*Tyr^{c-2J}/J* females, and germline N1 progeny identified by the presence of the *Tyr⁺* allele in combination with the *A^w* (agouti, white belly) and *a* (non-agouti/black) coat color alleles.

The Ple49 strain (B6129P2-*Hprt1^{tm21(Ple49-EGFP/NLS)Ems}*) was established from the mEMS1769 ESC line (see Ple49 (mEMS1769) Mouse description file).