

Ple51 (mEMS1699) ESC derivation (DBH-D)

pEMS1362 was electroporated into mEMS1204 (B6129F1-*Git(ROSA)26Sor^{tm1Sor/+}*, *Hprt1^{b-m3}/Y*) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple51 genotyping assay).

mEMS1691, mEMS1698, mEMS1699 and mEMS1704 were identified as correctly targeted ESC lines.

The mEMS1699 and mEMS1704 ESC lines were 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 Ple51 strain (B6129P2-*Hprt1^{tm22(Ple51-EGFP/NLS)Ems}*) was established from the mEMS1699 ESC line (see Ple51 (mEMS1699) Mouse description file).