

Ple185 (mEMS1627) ESC derivation

pEMS1384 was electroporated into mEMS1204 (B6129F1-*Gi(ROSA)26Sor^{tm1Sor/+}*, *Hprt1^{b-m3}/Y*) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple185 genotyping assay).

mEMS1603, mEMS1604, mEMS1610 and mEMS1627 were identified as correctly targeted ESC lines.

These ESC lines were microinjected into ICR (CD-1 022 Charles River) and/or B6(Cg)-*Tyr^{c-2I}/J* (JAX Stock#000058). Resulting chimeras were bred to B6(Cg)-*Tyr^{c-2I}/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 Ple185 strain (B6129P2-*Hprt1^{tm4(Ple185-EGFP;mEMS1627)Ems}*) was established from the mEMS1627 ESC line (see Ple185 (mEMS1627) Mouse description file).