

Ple151 (mEMS1615) ESC derivation

pEMS1172 was electroporated into mEMS1204 (B6129F1-*Gt(ROSA)26Sor^{tm1Sor/+}*, *Hprt1^{b-m3}/Y*) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple151 genotyping assay).

mEMS1608, mEMS1609, mEMS1614 and mEMS1615 were identified as correctly targeted ESC lines.

These 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 Ple151 strain (B6129P2-*Hprt1^{tm8(Ple151-EGFP;mEMS1615)Ems}*) was established from the mEMS1615 ESC line (see Ple151 (mEMS1615) Mouse description file).