Ple88 (mEMS1671) ESC derivation

pEMS1375 was electroporated into mEMS1204 (B6129F1-*Gt(ROSA)26Sor*^{tm1Sor}/+, *Hprt1*$^{b\text{-}m3}$/Y) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple88 genotyping assay).

mEMS1653, mEMS1661, mEMS1672 and mEMS1671 were identified as correctly targeted ESC lines.

These ESC lines were microinjected into ICR (CD-1 022 Charles River) and/or B6(Cg)-*Tyr*$^{c\text{-}2J}$/J (JAX Stock#000058). Resulting chimeras were bred to B6(Cg)-*Tyr*$^{c\text{-}2J}$/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 Ple88 strain (B6129P2-*Hprt1*$^{tm4(Ple88\text{-}EGFP;mEMS1671)Ems}$) was established from the mEMS1671 ESC line (see Ple 88 (mEMS1671) Mouse description file).