Ple90 (mEMS1899) ESC derivation (GFAP-C)

pEMS1377 was electroporated into mEMS1218 (B6129F1-*Gt(ROSA)26Sor*^{tm1Sor}/+, *Hprt1*$^{b\text{-}m3}$/Y) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple90 genotyping assay).

mEMS1889, mEMS1899, mEMS1900 and mEMS1903 were identified as correctly targeted ESC lines.

ESC lines mEMS1889, mEMS1899 and mEMS1903 were microinjected into ICR (CD-1 022 Charles River) and/or ICRBAF1 (F1 hybrid of ICR and 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 Ple90 strain (B6129P2-*Hprt1*$^{tm18(Ple90\text{-}EGFP/NLS)Ems}$*)* was established from the mEMS1899 ESC line (see Ple90 (mEMS1899) Mouse description file).