

Ple167 (mEMS681) ESC derivation (POGZ-A)

pEMS1091 was electroporated into mEMS21 (E14TG2a) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple167 genotyping assay).

mEMS670, mEMS672, mEMS681, and mEMS688 were identified as correctly targeted ESC lines.

These ESC lines were microinjected into C57BL/6J (JAX Stock#000664). Resulting chimeras were bred to C57BL/6J females, and germline N1 progeny identified by the presence of the the A^w (agouti, white belly) coat color allele.

The Ple167 strain (B6.129P2-*Hprt1*^{tm16(Ple167-EGFP/cre/NLS)Ems}) was established from the mEMS681 ESC line (see Ple167 (mEMS681) Mouse description file).