

Ple103 (mEMS675) ESC derivation (HAP1-A)

pEMS1083 was electroporated into mEMS21 (E14TG2A) embryonic stem cells (ESCs) generating positive constructs (identified by PCR – see Ple103 genotyping assay).

mEMS675, mEMS676, mEMS689 and mEMS1031, 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 A^w (agouti, white belly) coat color allele.

The Ple103 strain (B6129P2-*Hprt1*^{tm14(Ple103-EGFP/cre/NLS)*Ems*}) was established from the mEMS675 ESC line (see Ple103 (mEMS675) Mouse description file).