

EP2nullBAL (Breyer)

VCMR supporting info

**Detailed description:** Mice that are homozygous for the targeted mutation are viable, normal in size and do not display any gross physical or behavioral abnormalities. Reduced fertility in homozygous females is due to a pre-implantation defect. Fewer eggs are released during ovulation, of which fewer are fertilized and implanted when compared to wildtype controls, resulting in smaller litters (3 pups/litter). Mutant mice display slightly elevated baseline systolic blood pressure. Prostaglandin 2 infusion or high salt diet causes systolic hypertension in homozygous mice. This mutant mouse strain represents a model that may be useful in studies of salt sensitive hypertension and infertility. Strain of origin is 129S6/SvEvTac backcrossed onto Balb/c more than 10 times.

**Publications (specific to Balb/c):** <https://www.ncbi.nlm.nih.gov/pubmed/16886605>