B6.129P2(129S4)-*Hprt*$^{tm12(Ple177-EGFP/cre)Ems}$/Mmjax

MMRRC Stock No: **32924-JAX**

Congenic, Targeted Mutation

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upstream region of hypoxanthine guanine phosphoribosyl transferase (*Hprt*) locus on the X chromosome. As the promoter/regulatory regions of the human regulator of G-protein signaling 16 (*RGS16*) gene direct expression of an EGFPCre fusion protein to hippocampus, thalamus, forebrain, cortex, brainstem, cerebellum, and retina, these Ple177-EGFPCre;mEMS762 mice may be useful in studying RGS16-expressing cells in the brain and diseases affecting the brain.

Donating Investigator

Elizabeth M Simpson, Centre for Molecular Medicine & Therapeutics, University of British Columbia

GENETIC OVERVIEW

Genetic Background	Generation

Hprt$^{tm12(Ple177-EGFP/cre)Ems}$

Allele Type	Gene Symbol	Gene Name
Targeted (Recombinase-expressing, Reporter)	*Hprt*	hypoxanthine guanine phosphoribosyl transferase

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

VIEW ALL RESEARCH APPLICATIO

Details

Expression Data

Selected References

Genetics

Hprt$^{tm12(Ple177\text{-}EGFP/cre)Ems}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Hprt1 STD PCR
Genotyping resources and troubleshooting

Breeding Considerations

The donating investigator recommends maintaining this strain by breeding heterozygous females with C57BL/6J inbred males.

Additional Breeding and Husbandry Support

Citation

When using the B6.129P2(129S4)-*Hprt*$^{tm12(Ple177-EGFP/cre)Ems}$/Mmjax mouse strain in a publication, please cite the originating article(s) and include MMRRC stock #32924 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Phone: 207-288-6470
Email: TechTran@jax.org

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