Overview

Also Known As: TRAMP

To generate this F1 strain, TRAMP transgenic females (Stock No. 003135) are mated with FVB/NJ males (Stock No. 001800).
These mice express the TRAMP (Transgenic Adenocarcinoma of Mouse Prostate) transgene and develop progressive forms of prostate cancer with distant site metastasis. An earlier onset of the phenotype is observed in these F1 background (Stock No. 008215) mice when compared to mice carrying the transgene on the C57BL/6 background (Stock No. 003135).

Donating Investigator
IMR Colony, The Jackson Laboratory

GENETIC OVERVIEW
Genetic Background | Generation
Tg(TRAMP)8247Ng
Allele Type
Transgenic (Inserted expressed sequence)

RESEARCH APPLICATIONS
Cancer Research
Reproductive Biology Research
Apoptosis Research
Research Tools

Details

Mice carrying the TRAMP (Transgenic Adenocarcinoma of Mouse Prostate) transgene develop progressive forms of prostate cancer with distant site metastasis, primarily to the lymph nodes and lungs. These transgenic mice express the simian virus 40 (SV40) large T and small t tumor antigens (Tag) under the control of the rat probasin promoter. Expression of the transgene is specific to the prostate epithelium. Transgenic mice exhibit various forms of disease from mild intraepithelial hyperplasia to large multinodular malignant neoplasia. The median survival time for these F1 transgenic mice is 19 weeks, very few mice survive past 33 weeks of age, which is significantly shorter than the lifespan of transgenic mice on the C57BL/6 background. Comparative histological analysis of tumors from these F1 transgenic mice and from transgenic mice on the C57BL/6 background reveals that the tumors found in these F1 mutants arise from the dorsolateral and ventral lobes of the prostate and are more spherical, highly vascularized masses. The tumors found in the C57BL/6 background transgenic mice arise from the prostate lateral lobes and often invade the surrounding tissues (urethra and seminal vesicles).
Genotyping Protocols
Standard PCR: Tg(TRAMP)8247Ng
Genotyping resources and troubleshooting

Breeding Considerations
To generate this F1 strain, TRAMP transgenic females (Stock No. 003135) are mated with FVB/NJ males (Stock No. 001800).
Additional Breeding and Husbandry Support

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