

# HBV-Tg

<b>Nomenclature</b>	B6.Cg-Tg(HBV)Smoc
<b>Cat. NO.</b>	NM-TG-00003
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b>	<b>Synonyms</b>	Hepatitis B virus isolate C8 complete genome
	<b>NCBI ID</b>	<a href="#">AF461363</a>
	<b>MGI ID</b>	<a href="#">Null</a>
	<b>Ensembl ID</b>	<a href="#">Null</a>

## Model Description

Full-length HBV genome (adrsubtype,C genotype) was used to establish the transgenic mice. HBsAg was positive in transgenic mice serum; no serum HBeAg anti-HBs, anti-HBe, or antiHBc was detected. No anti-HBs or anti-HBe was detected in the polyethylene gly.

**Research Application:** HBV

\*Literature published using this strain should indicate: HBV-Tg mice (Cat. NO. NM-TG-00003) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

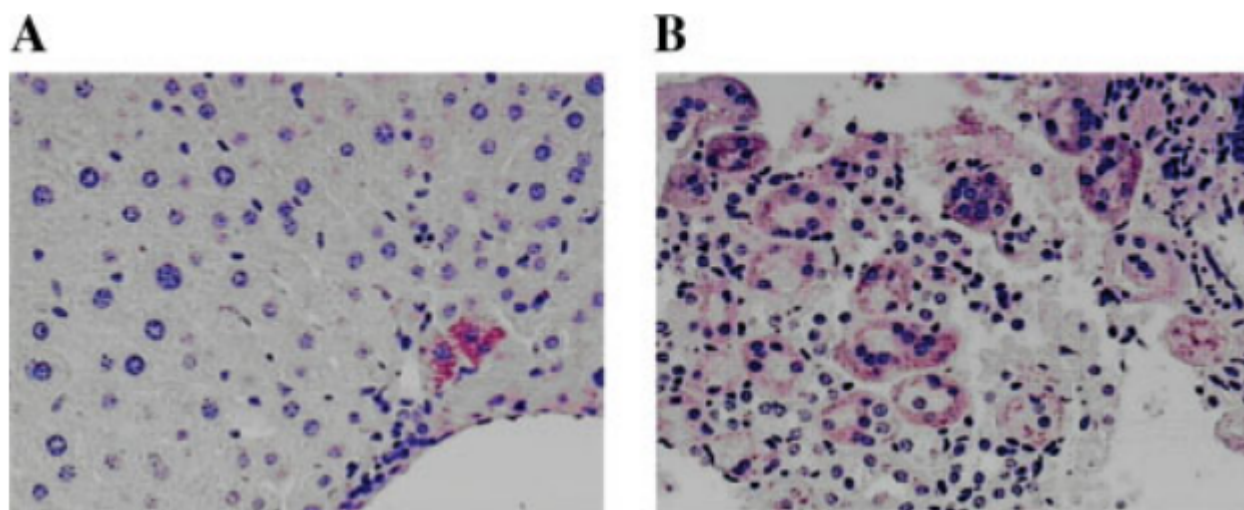


Fig1. Immuno-histochemical staining of HBsAg in the liver and kidney sections of #59 transgenic mice. Sections of liver (A) or kidney (B) tissues from #59 transgenic mice were stained for HBsAg.

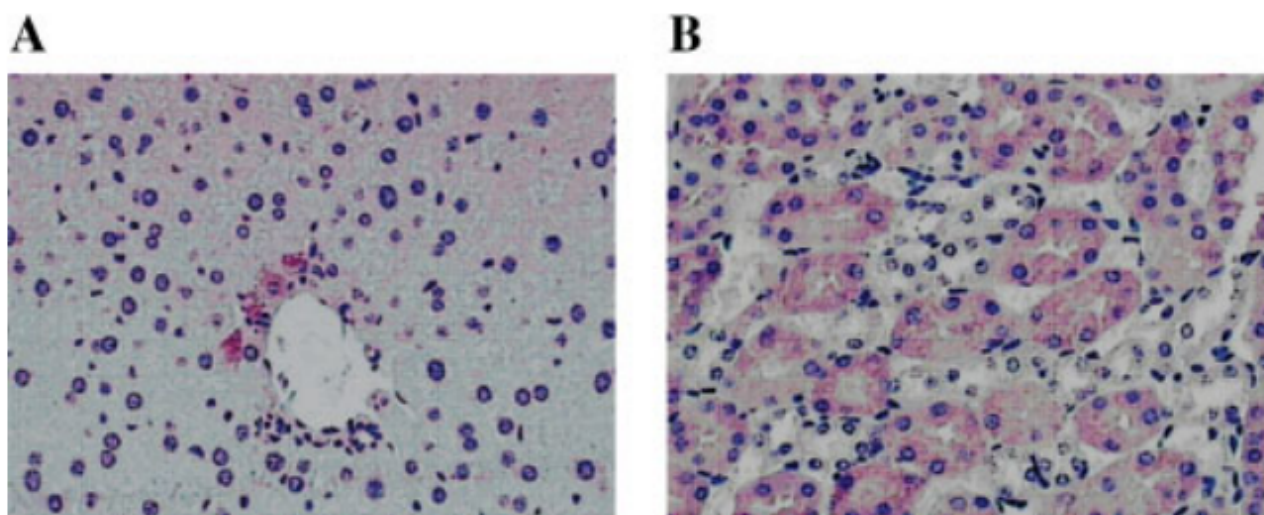


Fig2. Immuno-histochemical staining of HBcAg in the liver and kidney sections of #59 transgenic mice.

Sections of liver (A) or kidney (B) tissues from #59 transgenic mice were stained for HBcAg.

Gene	Microarray <sup>a</sup>	Real-time PCR <sup>a</sup>
Complement component 3 (C3)	32	251
C-reactive protein (CRP)	48	>1,000
Fibrinogen (FGG)	60	138
FBJ osteosarcoma oncogene (Fos)	-8	-5
Mannose binding lectin (MBL2)	128	192
Mitochondrial ribosomal protein L15 (Mrpl15)	-6	1
Plasminogen (PLG)	446	1,000
Serum amyloid A 1 and 2 (Saa1 and 2)	60	287

<sup>a</sup>The numbers represent the folds of mRNA of the genes being up- or down-regulated.

Tab1. Eight Selected Genes From the Kidney of #59 Mice Assayed by Microarray and Real-Time PCR

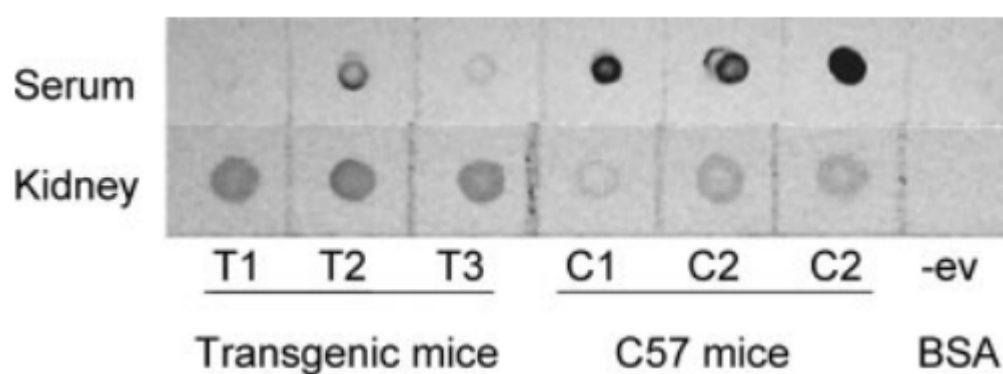


Fig3. Dot blot immunoassay of complement C3 component in mouse serum and kidney tissue extract.

## Publications

[Expression of hepatitis B virus proteins in transgenic mice alters lipid metabolism and induces oxidative stress in the liver](#)

References: JOURNAL OF HEPATOLOGY

[An Altered Pattern of Liver Apolipoprotein A-I Isoforms Is Implicated in Male Chronic Hepatitis B Progression](#)

References: ACS Publications

[Hepatitis B virus \(HBV\) surface antigen interacts with and promotes cyclophilin a secretion:](#)

[possible link to pathogenesis of HBV infection](#)

References: Journal of Virology

[Proteomic analysis of hepatitis B surface antigen positive transgenic mouse liver and decrease of cyclophilin A](#)

References: Journal of Medical Virology

[Transcriptional analysis of immune-related genes in dendritic cells from hepatitis B surface antigen \(HBsAg\)-positive transgenic mice and regulation of Fc gamma receptor IIB by HBsAg-anti-HBs complex](#)

References: Journal of Medical Virology