

# hC3

<b>Nomenclature</b>	C57BL/6Smoc- <i>C3</i> <sup>em1(hC3)/Smoc</sup>
<b>Cat. NO.</b>	NM-HU-2000079
<b>Strain State</b>	Repository Live

## Gene Summary

<b>Gene Symbol</b> C3	<b>Synonyms</b>	ASP; Plp; HSE-MSF; AI255234
	<b>NCBI ID</b>	<a href="#">12266</a>
	<b>MGI ID</b>	<a href="#">88227</a>
	<b>Ensembl ID</b>	<a href="#">ENSMUSG00000024164</a>
	<b>Human Ortholog</b>	C3

## Model Description

The endogenous mouse C3 gene was replaced by human C3 gene.

**Research Application:** Immunotherapy, drug screening

\*Literature published using this strain should indicate: hC3 mice (Cat. NO. NM-HU-2000079) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

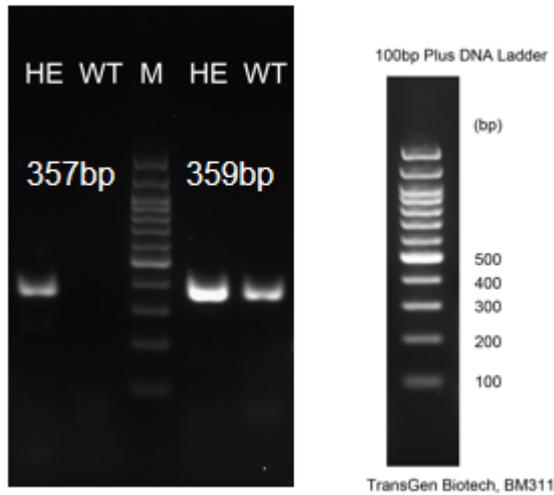


Fig1. Detection of C3 expression in liver by RT-PCR.

Wild type: only one band at 359 bp with primers F1/R1(mC3); Heterozygous: one band at 359 bp with primers F1/R1(mC3) and one band at 357 bp with primers F2/R2(hC3);

Abbr. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

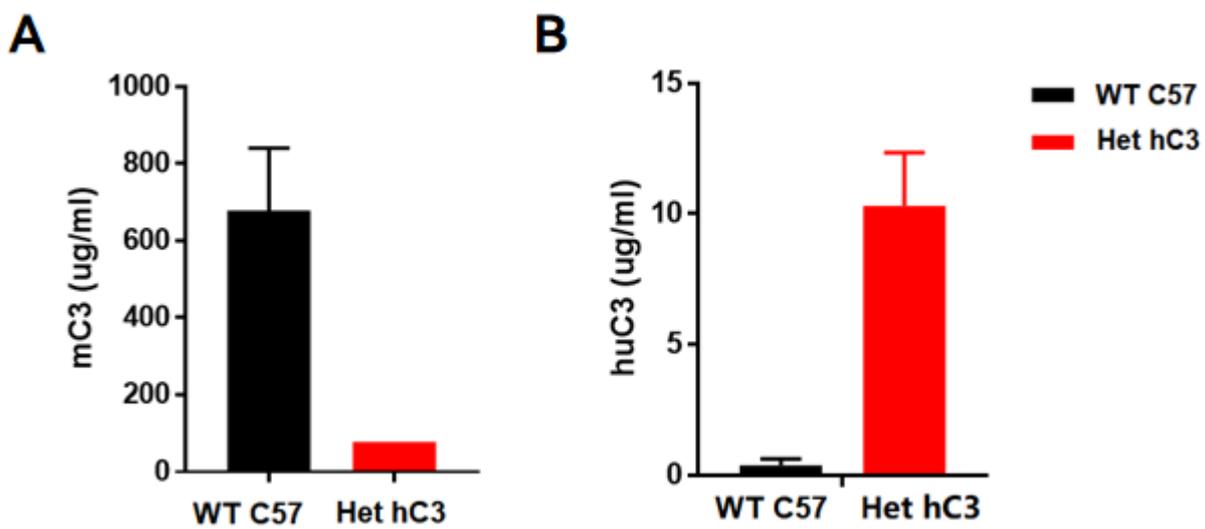


Fig2. Detection of hC3 expression in serum by ELISA.

Abbr. Het, heterozygous; WT, wild type. Note: Data from the collaborator.

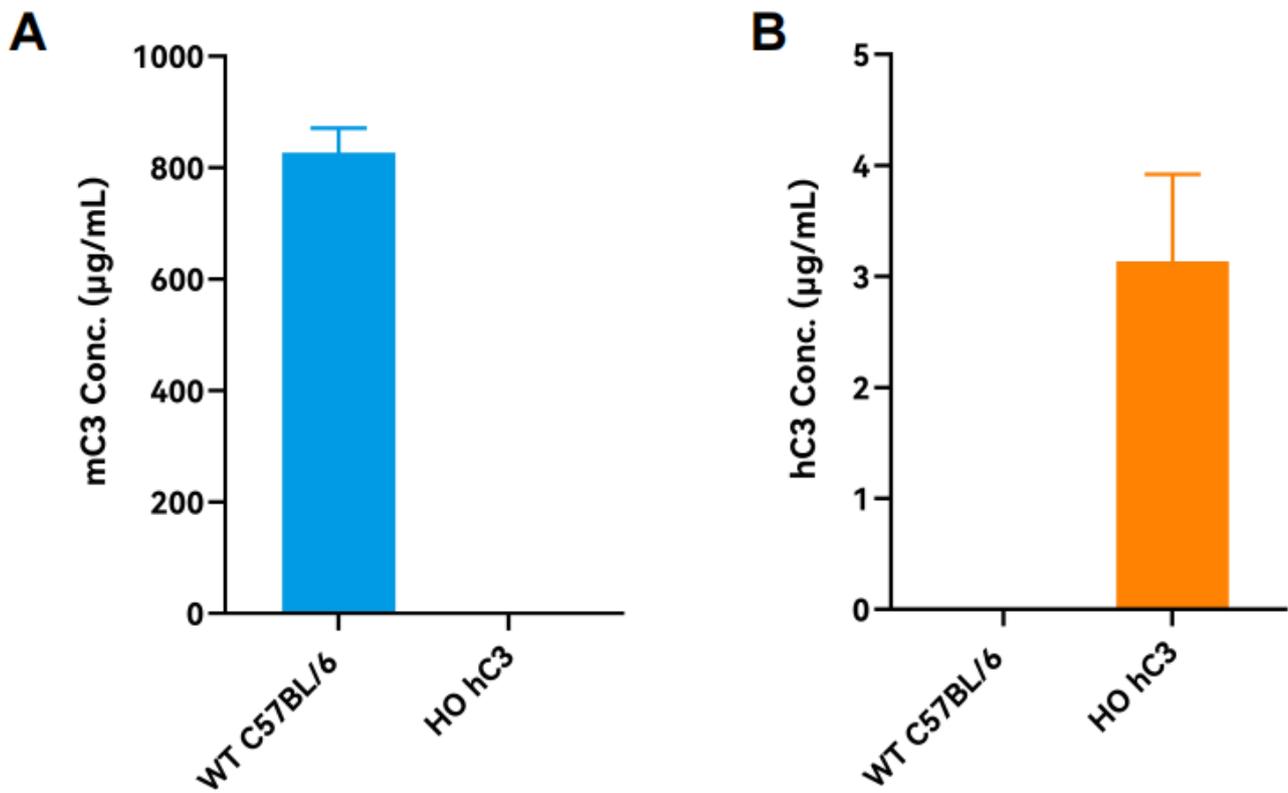


Fig3. Detection of hC3 expression in serum by ELISA.

Note: The human Complement C3 ELISA Kit (ab108823) specifically recognized humanized C3.

Abbr. HO, homozygous; WT, wild type.

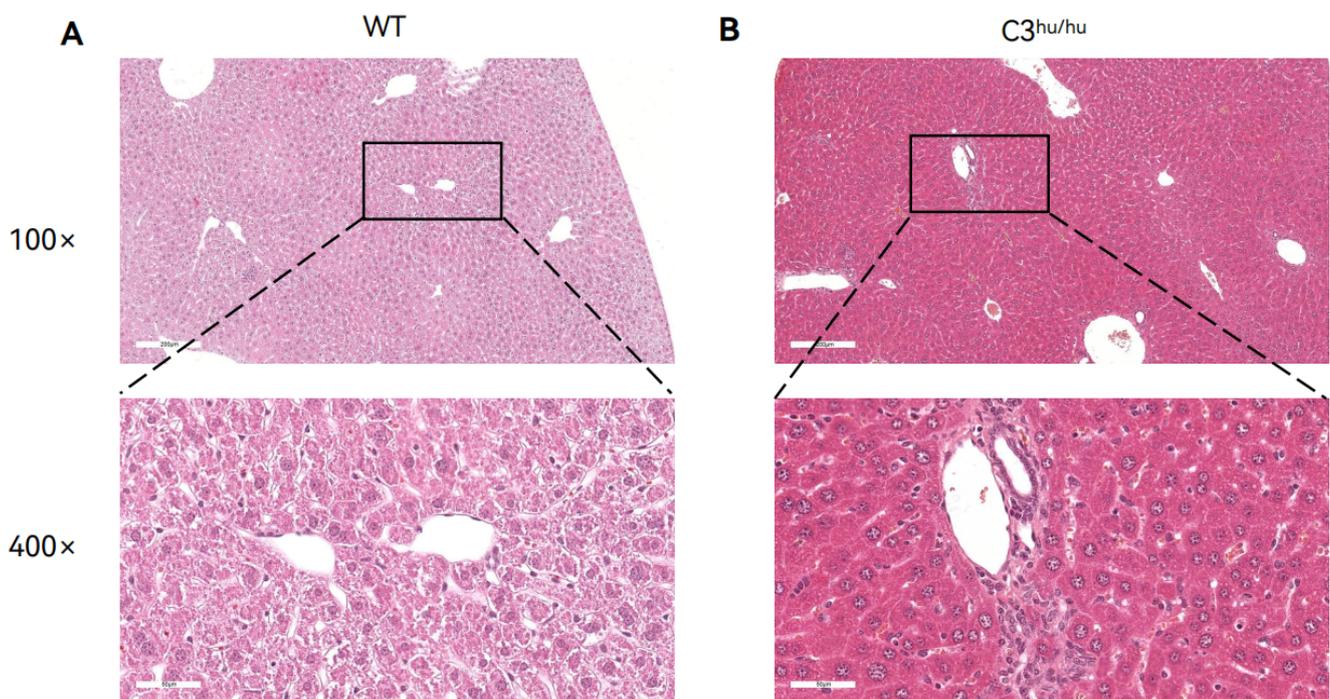


Fig4. The C3<sup>hu/hu</sup> mice showed inflammation in the portal region and bile duct hyperplasia (100× and 400×).

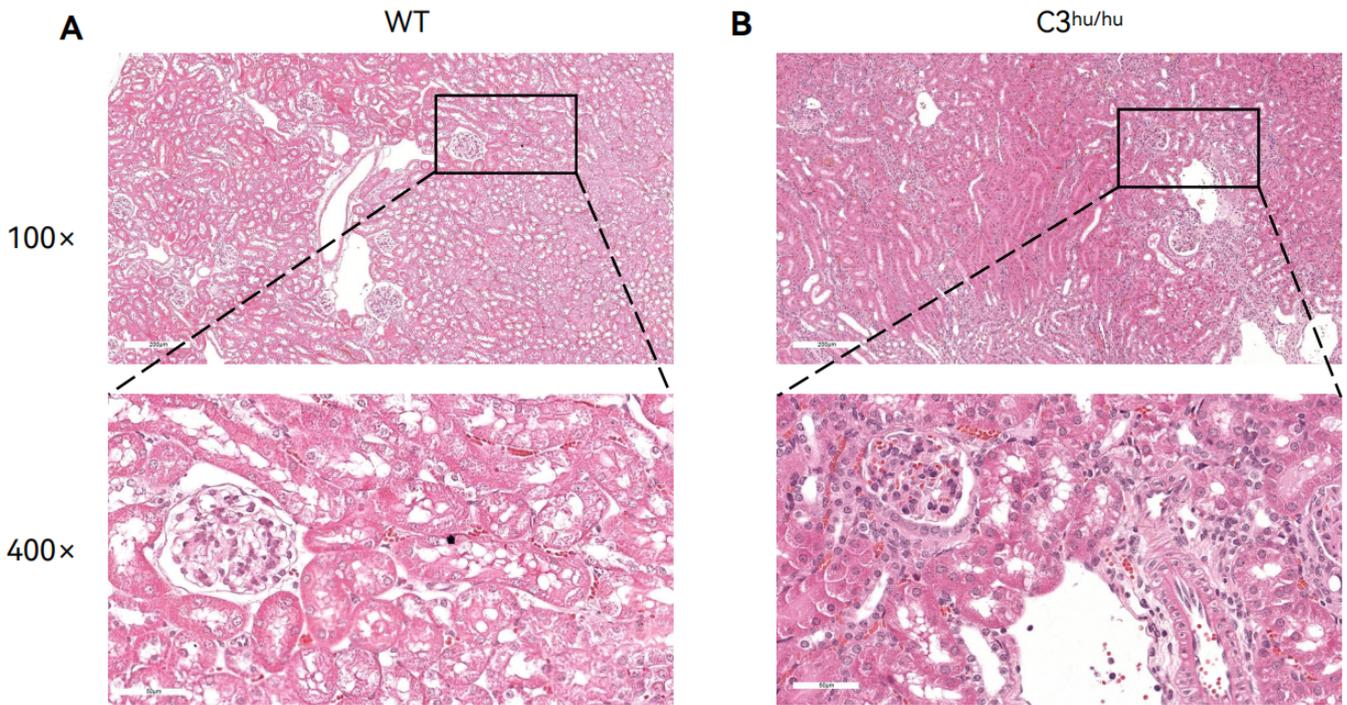


Fig5. The C3hu/hu mice showed glomerular sclerosis, glomerular atrophy and inflammation of the capillary tufts area (100x and 400x).

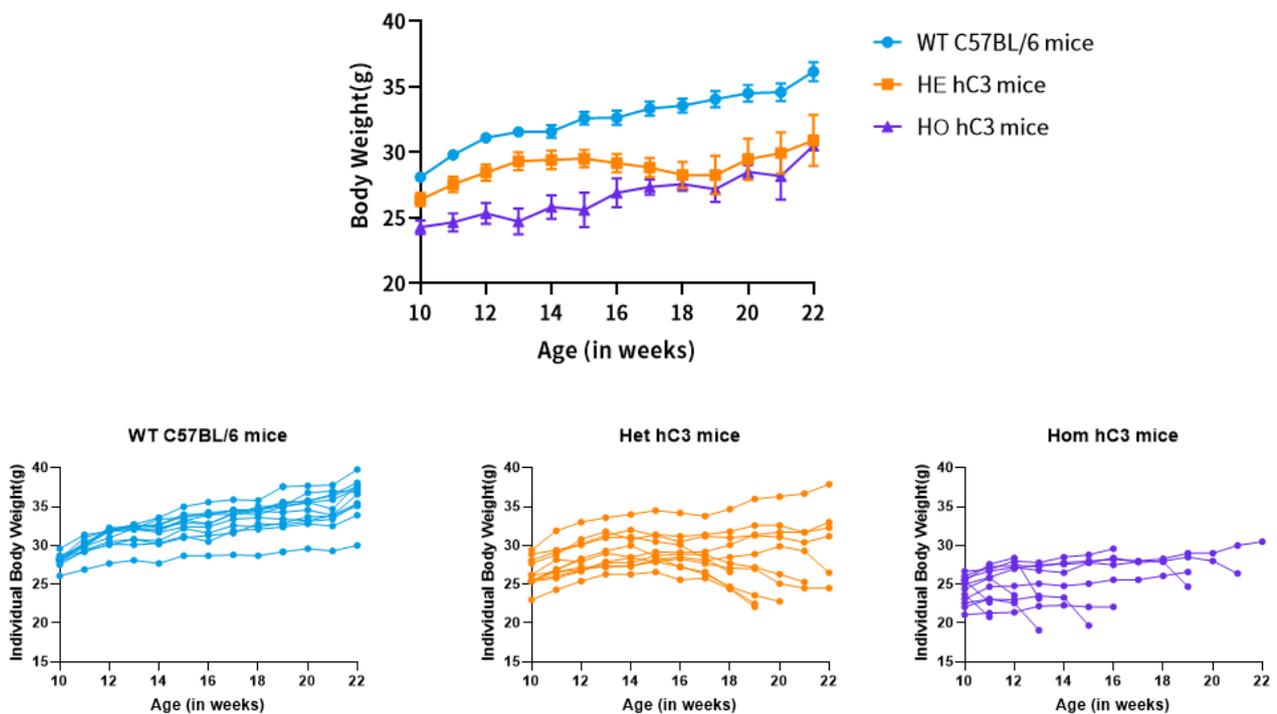


Fig6. Body Weight of C3hu/hu mice (n=12/group).

Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

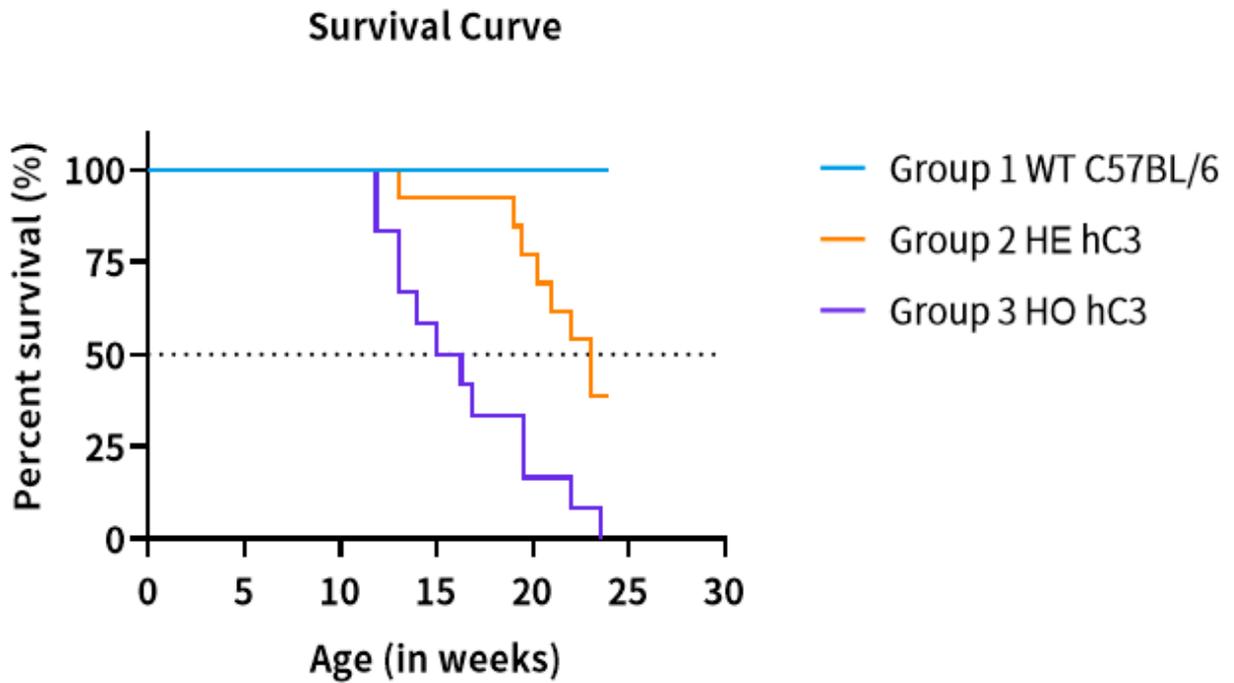


Fig7. Survival curve of C3hu/hu mouse (n=12/group).

Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

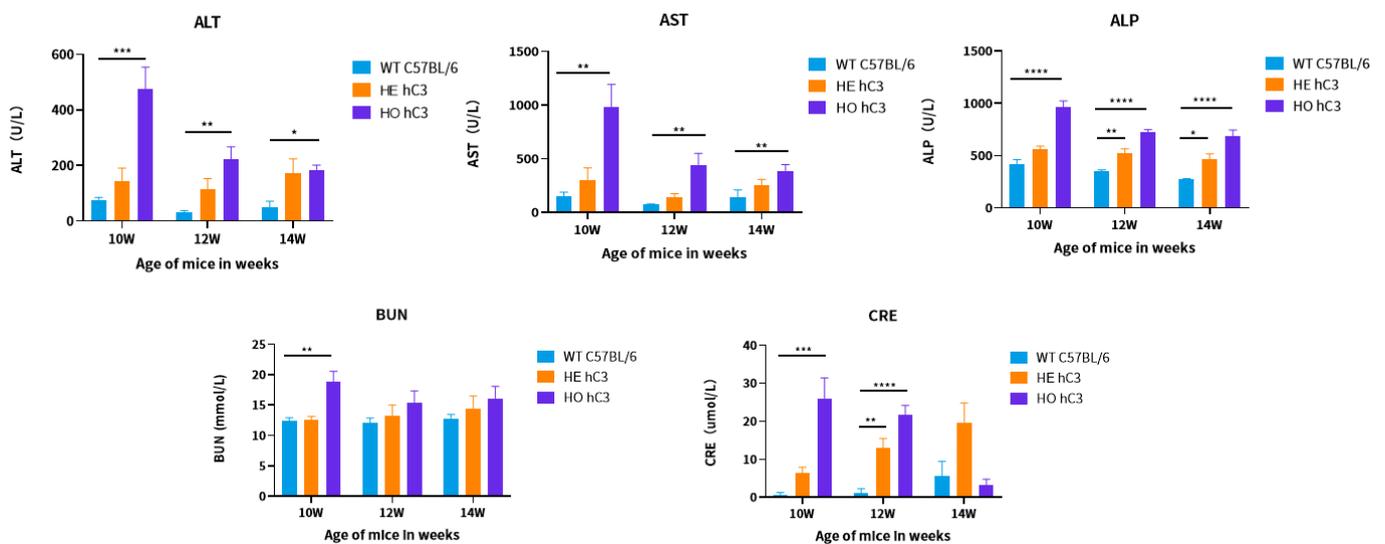


Fig8. Serum Biochemistry of C3hu/hu mice (n=5/group).

Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

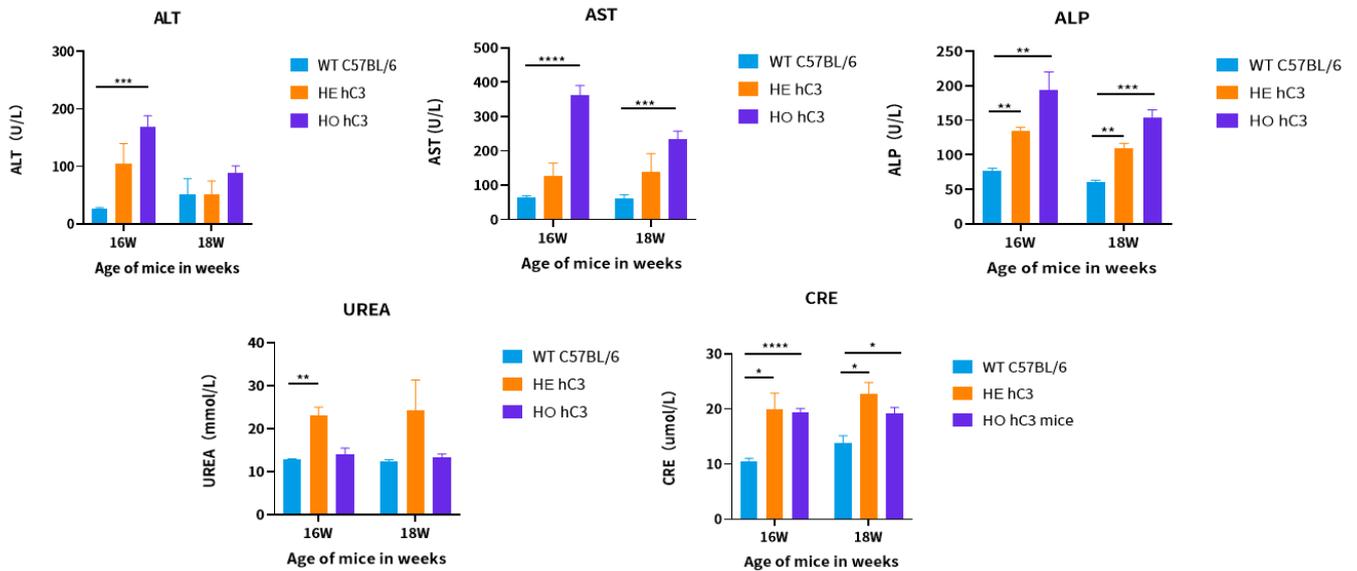


Fig9. Serum Biochemistry of C3hu/hu mice (n=5/group, a different biochemical analyzer was used than in Fig8).

Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

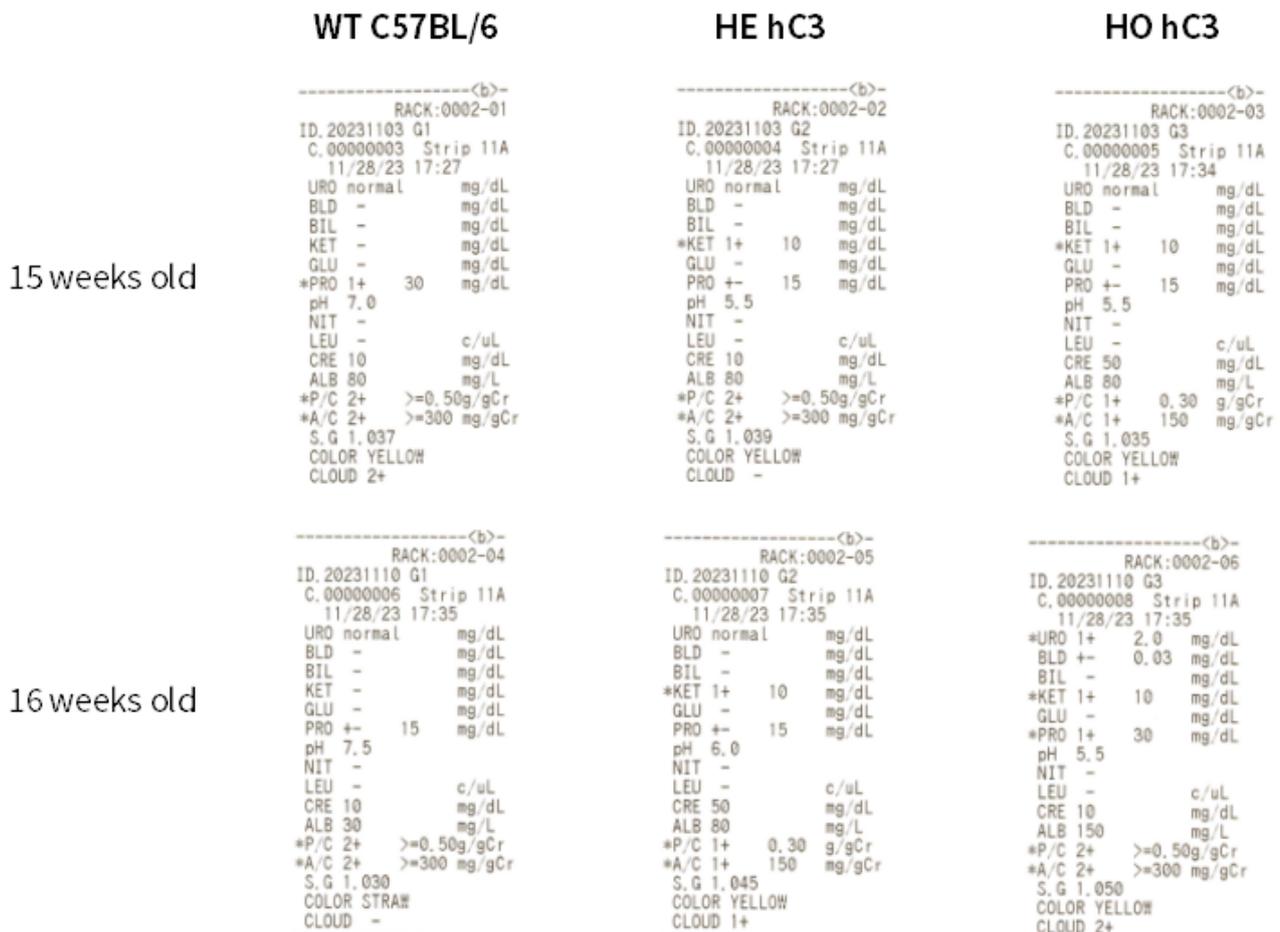


Fig10. Urinalysis of C3hu/hu mice.

Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

