

hPSMA

品系全名	C57BL/6Smoc- <i>Folh1</i> ^{em1(hPSMA-Wpre-PA)Smoc}
目录号	NM-HU-200240
品系状态	胚胎冻存

基因信息

基因名 Folh1	基因曾用名	GCP2; mopsm
	NCBI ID	53320
	MGI ID	1858193
	Ensembl ID	ENSMUSG000000001773
	人类同源基因	FOLH1B

品系描述

通过同源重组，将小鼠Folh1基因进行人源化修饰。

*使用本品系发表的文献需注明: hPSMA mice (Cat. NO. NM-HU-200240) were purchased from Shanghai Model Organisms Center, Inc..

验证数据

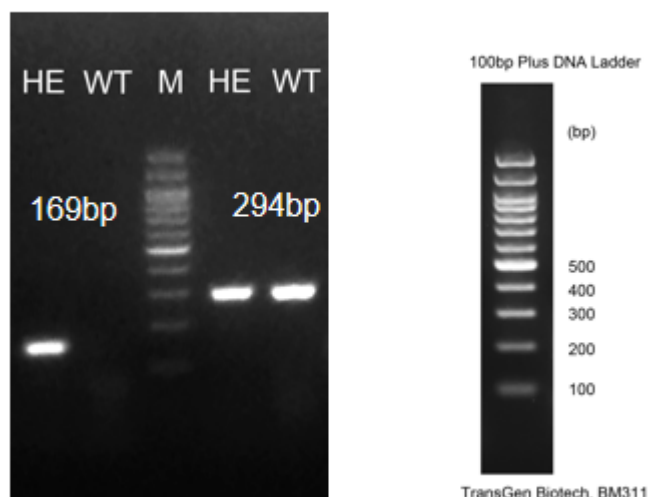


Fig1. Detection of PSMA expression in kidney by RT-PCR. Wild type: only one band at 294 bp with primers F1/R1(mPsmA);Heterozygous: one band at 294 bp with primers F1/R1(mPsmA) and one band at 169 bp with primers F2/R2(hPSMA); Abbr.. M, DNA marker; HO, homozygous; HE, heterozygous; WT, wild type.

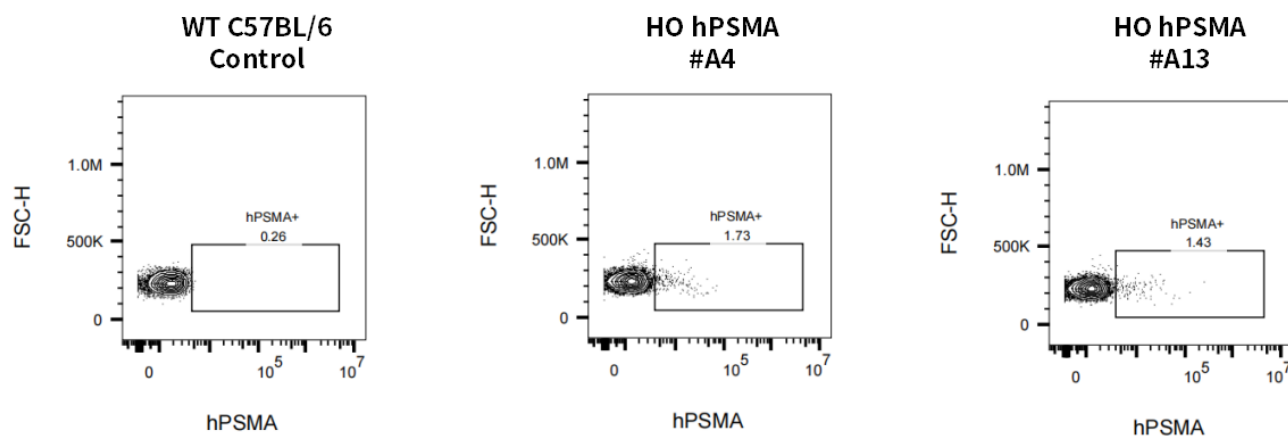


Fig2. Detection of hPSMA expression in prostate in hPSMA KI mice.

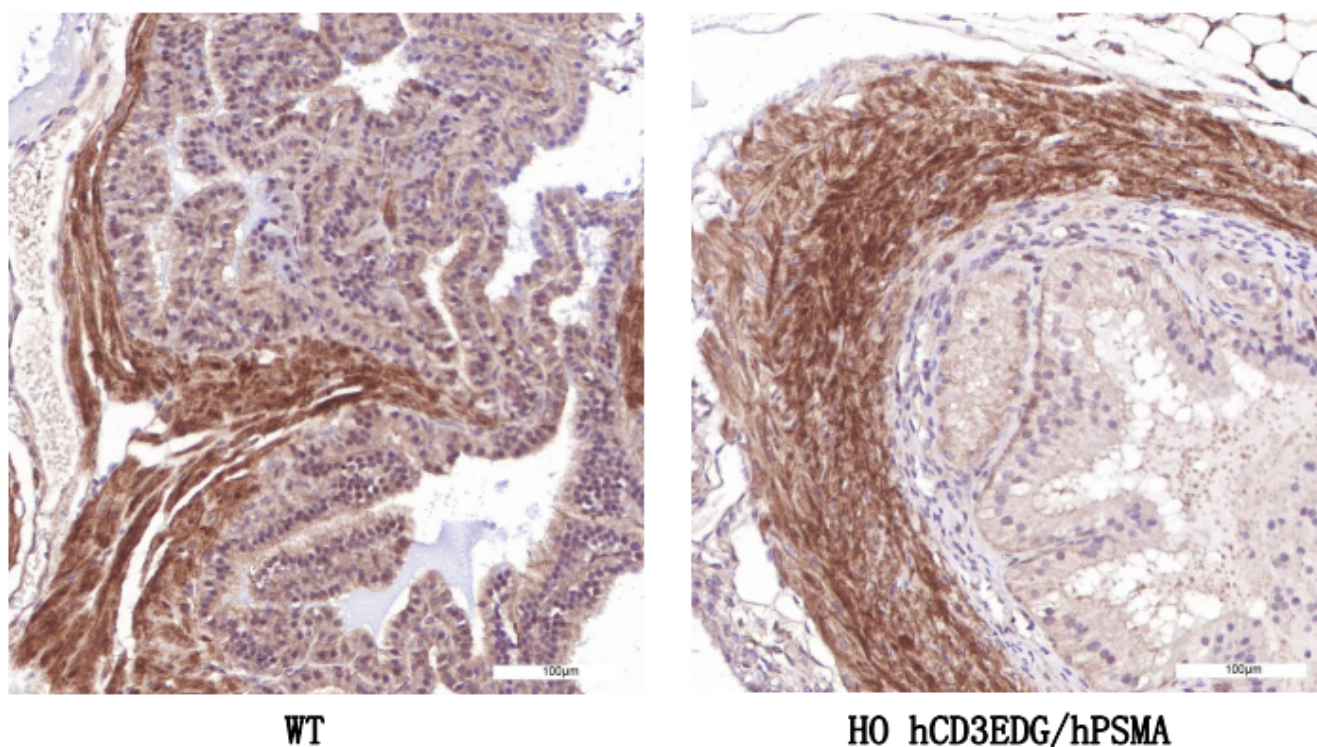


Fig3. Detection of human PSMA expression in Prostate by IHC.

Note. The human PSMA antibody cross-reacted with mouse PSMA and human PSMA. Abbr. HO, homozygous; HE, heterozygous; WT, wild type.

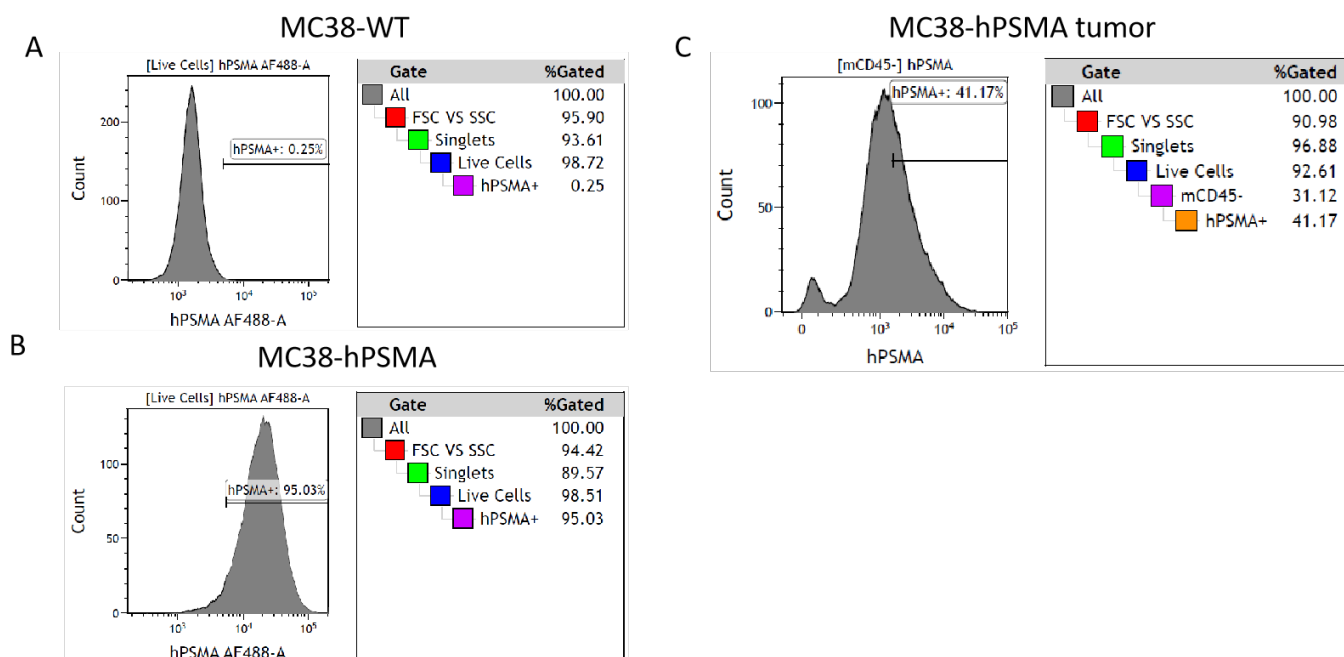


Fig4. Analysis of human PSMA expression in the MC38-hPSMA cell line and the transplanted tumor of the PSMA humanized mice by FACS. Most of the MC38-hPSMA cells express human PSMA (A,B); the transplanted tumor formed by MC38-hPSMA cell line expresses human PSMA on the CD45- cells (C).(Completed in collaboration with CrownBio)

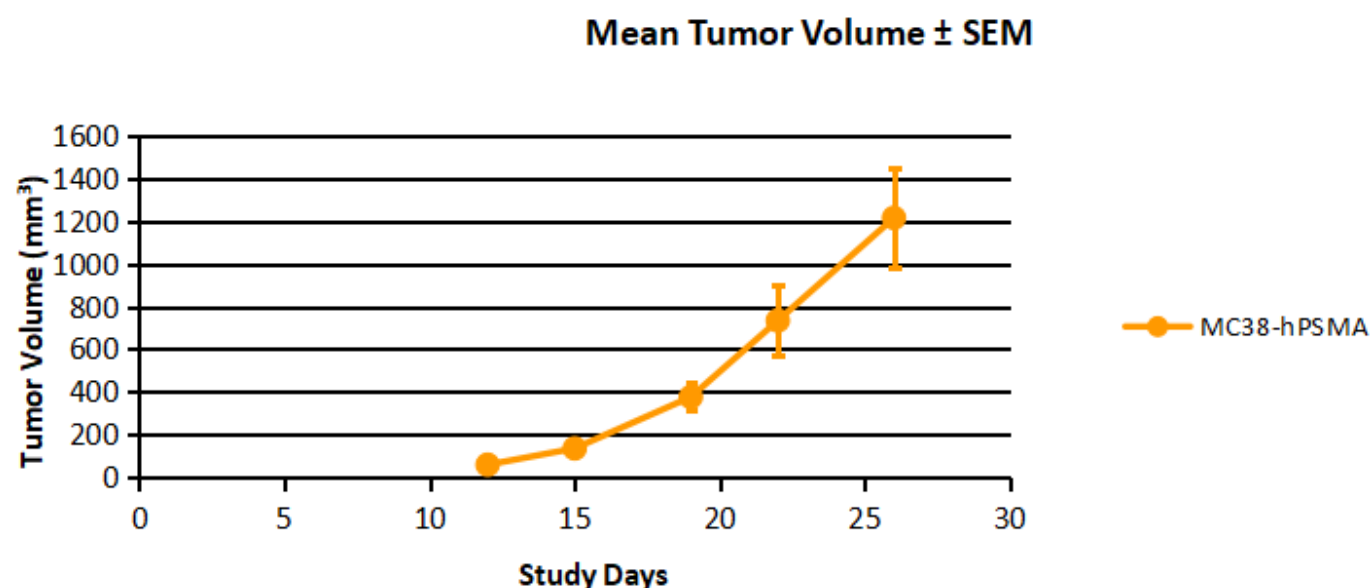


Fig5. Subcutaneous tumor formation experiment of the MC38-hPSMA cells in the PSMA humanized mice .The tumor volume was measured every 5 days after injection of MC38-hPSMA cells (n=10).The previous studies have shown that wild type mice would spontaneously reject the syngeneic tumors expressing an introduced human tumor antigen-hPSMA. While the MC38-hPSMA cells can form tumors subcutaneously in the humanized PSMA mice, indicating that the PSMA humanized mouse model can be used to transplant the MC38-hPSMA cell line.(Completed in collaboration with CrownBio)

