H22-Luc-hGPC3

Strain Information

Cat. NO.	NM-GA01-TM05
Cell Line	H22-Luc-hGPC3
Strain State	Validation of tumorigenic capacity completed
Model Description	The H22-Luc-hGPC3 cell line is the H22 liver cancer tumor cell line human GPC3 gene. *Literature published using this strain should indicate: H22-Luc-hGPC3 cell line (Cat. NO. NM-GA01-TM05) was purchased from Shanghai Model Organisms Center, Inc..

Validation Data

1. In vitro Expression of H22-Luc-hGPC3 cell line

hGPC3 expression was measured in H22-Luc-hGPC3 cell by FACS . FACS results showed that significant hGPC3 expression on the H22-Luc-hGPC3 cell line.

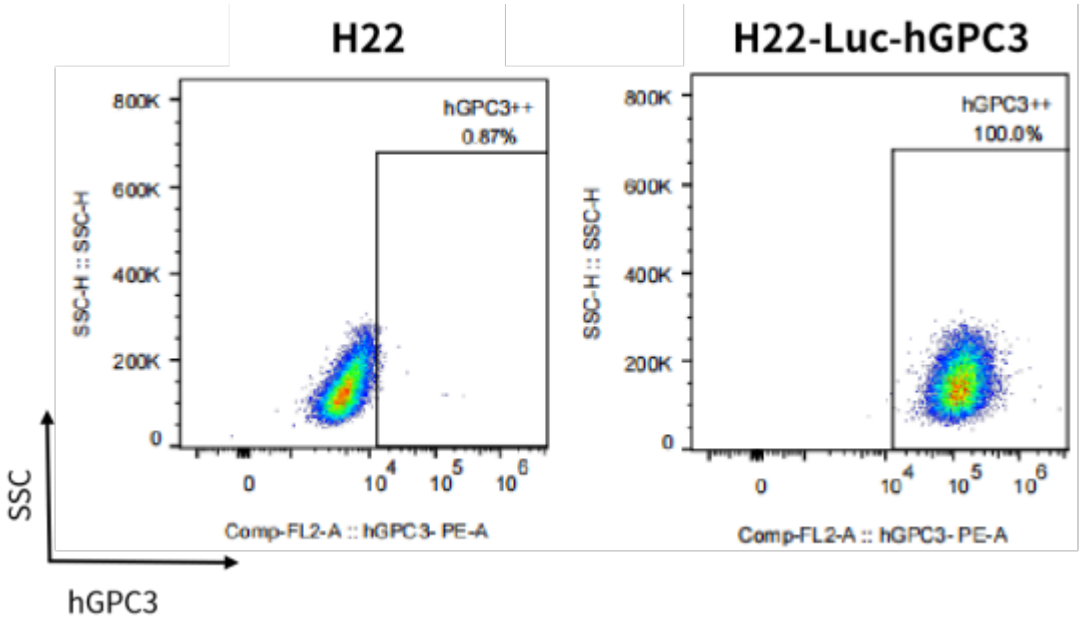


Figure 1 hGPC3 expression in H22-Luc-hGPC3 cell line

2. Characterization of in vivo growth kinetics

To verify tumor formation of H22-Luc-hGPC3 cell line, cells were subcutaneously inoculated into female balb/c mice.

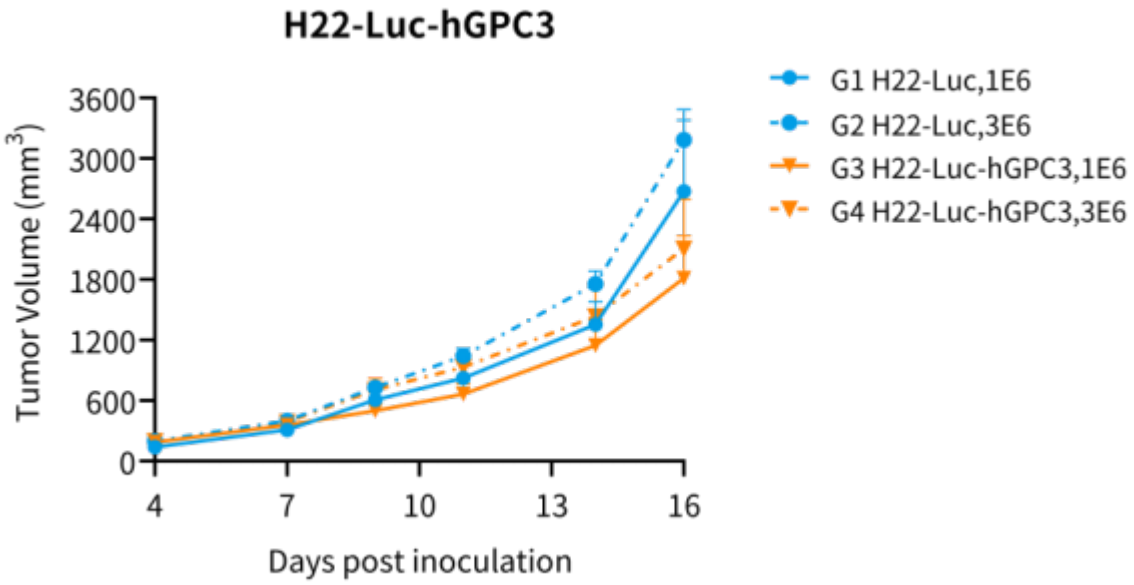
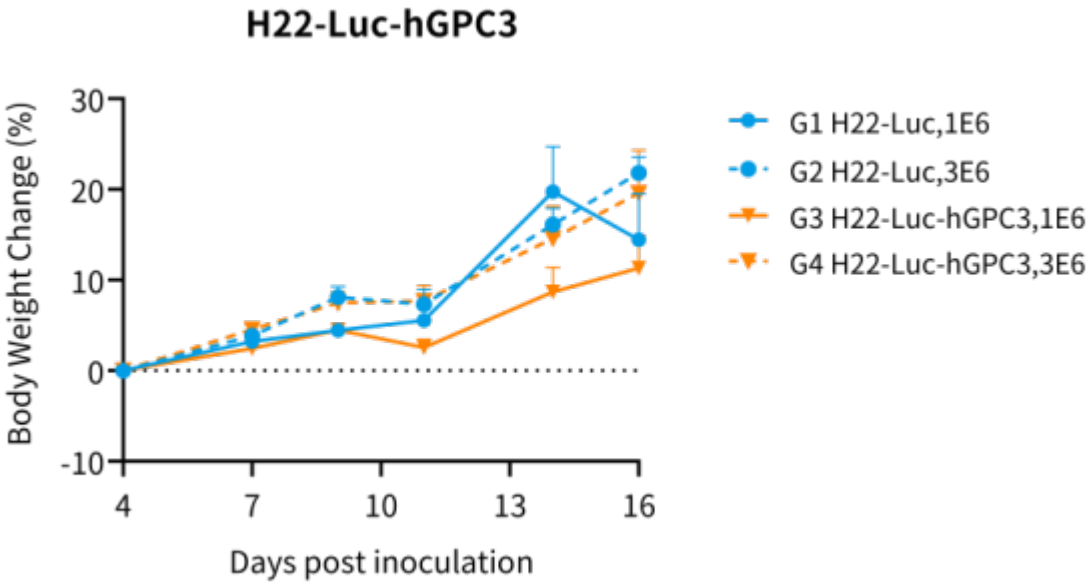


Figure 2. Tumor growth curve of H22-Luc-hGPC3 allogeneic model (n=5)



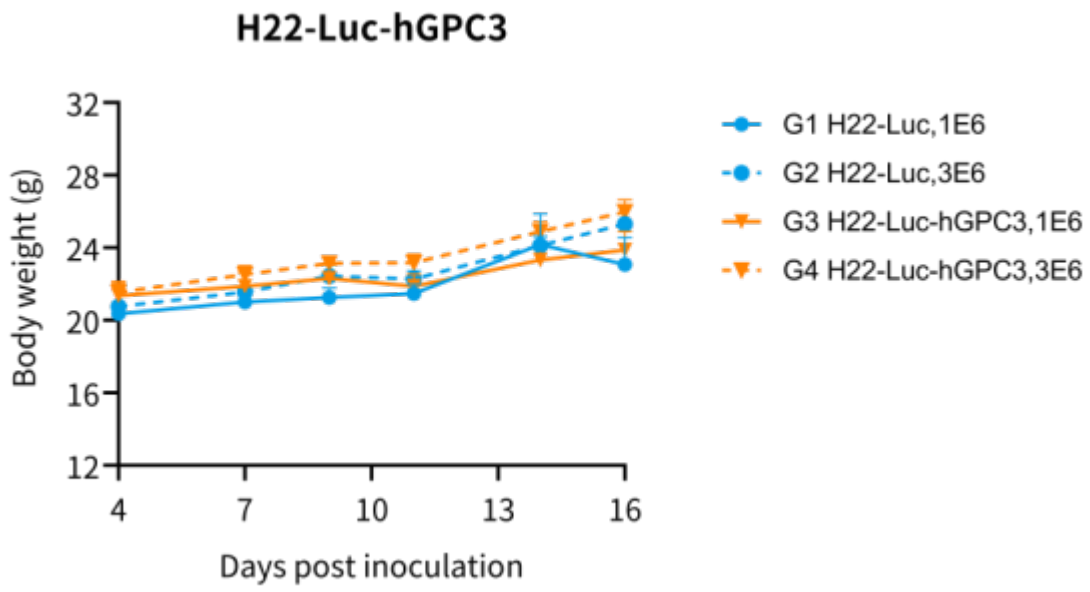


Figure 3. Body weight curve of H22-Luc-hGPC3 allogeneic model (n=5)

3. Expression of hGPC3 in tumors

To verify the hGPC3 protein expression, the tumors were dissected and separated for single cell suspension when he tumor volume is 500-1000mm3. Robust hGPC3 protein expression can be detected in the humanized modified tumors.

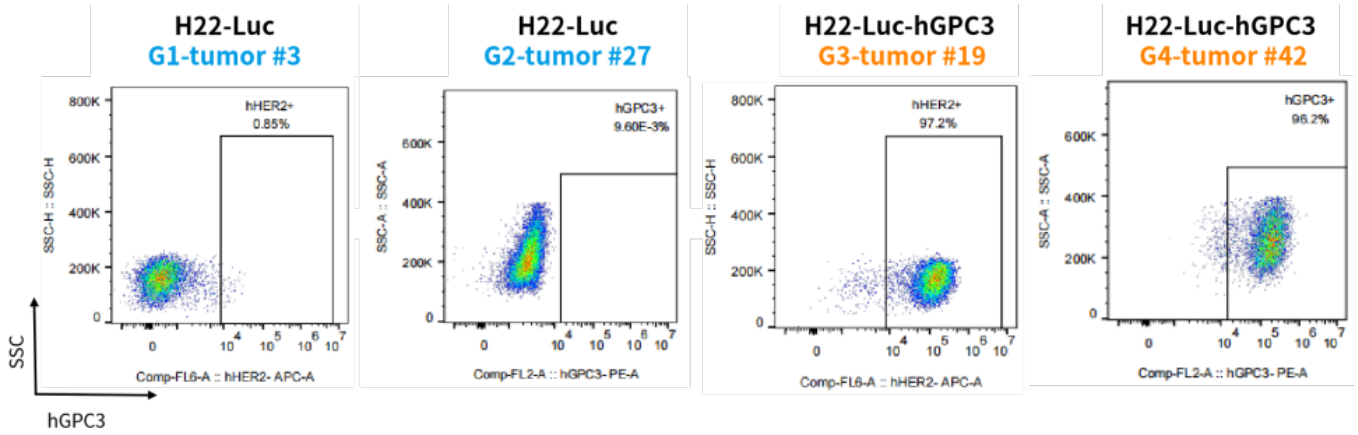


Figure 4. The expression of hGPC3 in humanized modified tumors by FACS