

# Ifng-Venus-Luc

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| <b>Nomenclature</b> | C57BL/6Smoc- <i>Ifng</i> <sup>em1(IRES-Venus-Luc)Smoc</sup> |
| <b>Cat. NO.</b>     | NM-KI-18041                                                 |
| <b>Strain State</b> | Embryo cryopreservation                                     |

## Gene Summary

|                            |                       |                                    |
|----------------------------|-----------------------|------------------------------------|
| <b>Gene Symbol</b><br>Ifng | <b>Synonyms</b>       | Ifg IFN-gamma                      |
|                            | <b>NCBI ID</b>        | <a href="#">15978</a>              |
|                            | <b>MGI ID</b>         | <a href="#">107656</a>             |
|                            | <b>Ensembl ID</b>     | <a href="#">ENSMUSG00000055170</a> |
|                            | <b>Human Ortholog</b> | IFNG                               |

## Model Description

An IRES-Venus-Luci co-expression cassette was inserted in 3'UTR region of Ifng gene.

\*Literature published using this strain should indicate: Ifng-Venus-Luc mice (Cat. NO. NM-KI-18041) were purchased from Shanghai Model Organisms Center, Inc..

## Validation Data

## MC38-OVA tumor growth

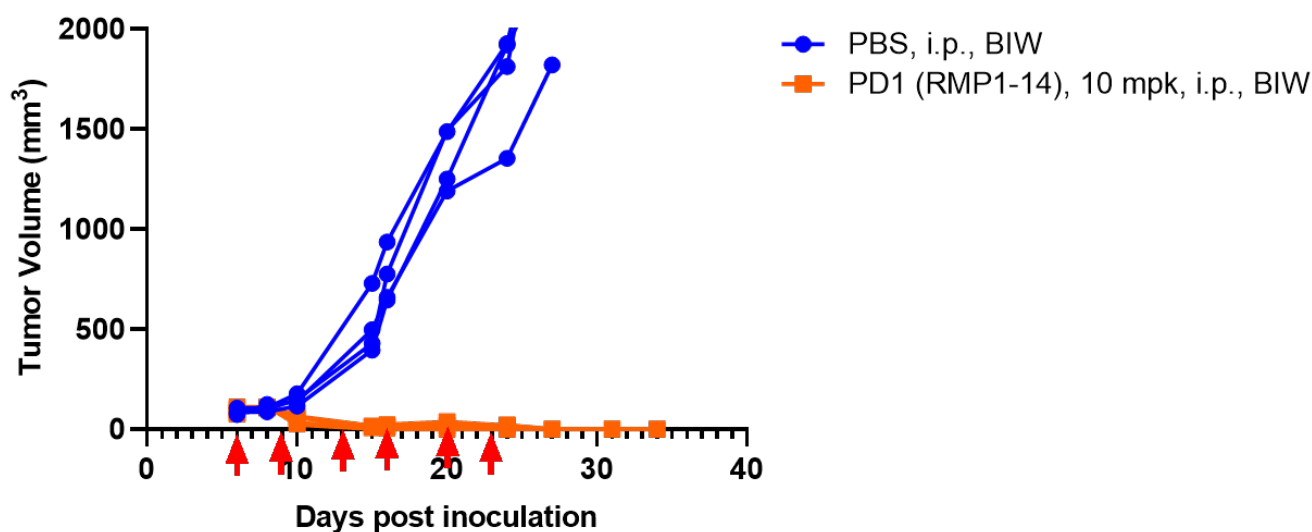


Fig1. MC38-OVA tumor volumes in Ifng-Venus-Luci reporter mice treated or not with anti-PD-1 mAb. Arrows indicate treatment days.

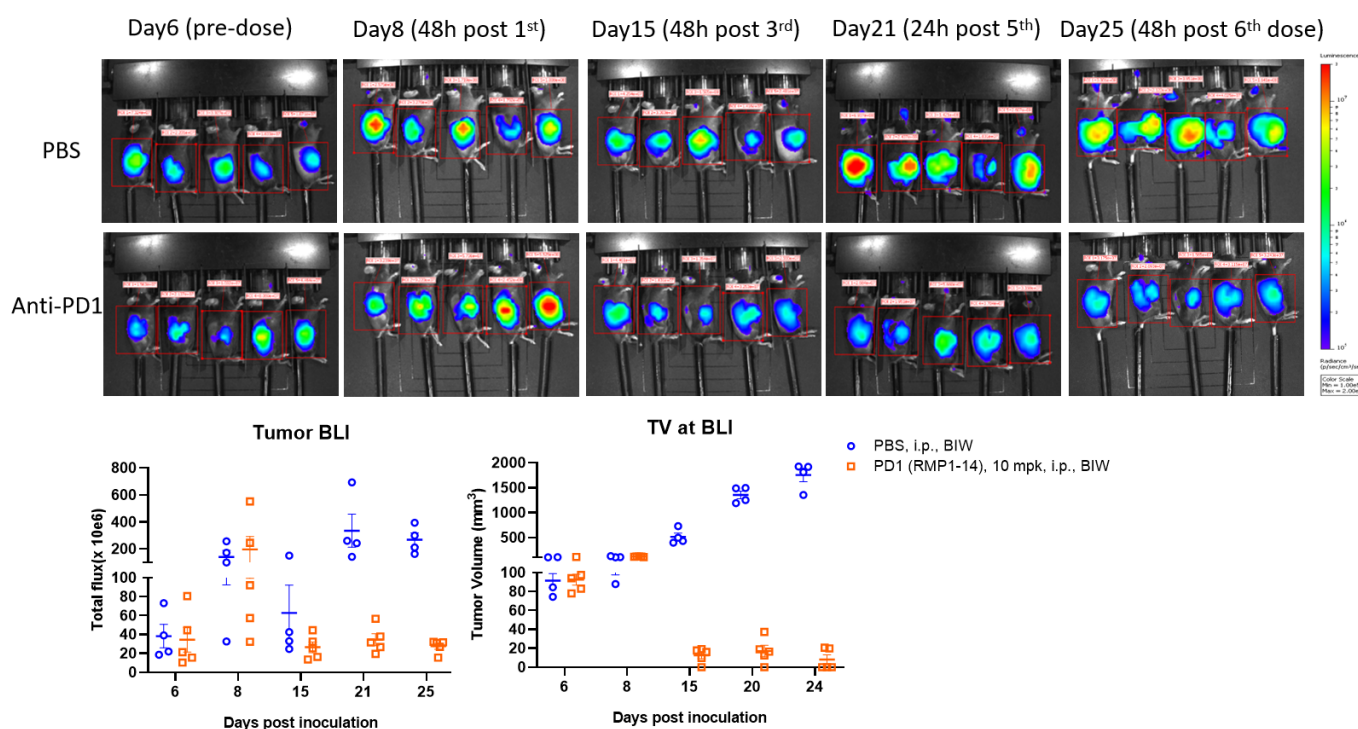


Fig2. In vivo imaging validation of MC38-OVA tumors in Ifng-Venus-Luci reporter mice treated or not with anti-PD-1 mAb.

In PBS treated control tumor, the IFN $\gamma$  signal increased as the tumor growing. In anti-PD1 treated tumor, increased average BLI (Bioluminescent imaging) of IFN $\gamma$  was shown 48h post the first dose compared to control group; as the tumor regression upon PD1 treatment, the IFN $\gamma$  signal in tumor decreased as well.

The data is provided by Crownbio.

