

R26-pVillin1-hCYP3A4-IRES-tdTomato(FVB)

Nomenclature	FVB- <i>Gt(ROSA)26Sor^{em1(Gut-CYP3A4-IRES-tdTomato)Smoc}</i>
Cat. NO.	NM-KI-18033
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Gt(ROSA)26Sor	Synonyms	R26, ROSA26, AV258896, Gtrg eo26, Gtrosa26, Thumpd3as1
	NCBI ID	14910
	MGI ID	104735
	Ensembl ID	ENSMUSG00000086429

Model Description

Intestinal expression of the CYP3A enzyme in the human body can cause significant intestinal metabolism of the compound, resulting in impaired drug absorption. This knock-in model was generated by inserting the human CYP3A4 cDNA driven by the Villin1 promoter together with the IRES-tdTomato reporter gene into mouse Rosa26 site, which can be crossed with the Cyp3a13 gene knockout and other Cyp3a family genes knockout mice to obtain intestinal-expressed CYP3A4 humanized mouse model in order to determine the contribution of intestinal metabolism to the absorption and distribution of test article.

Research Application: metabolism

*Literature published using this strain should indicate: R26-pVillin1-hCYP3A4-IRES-tdTomato(FVB) mice (Cat. NO. NM-KI-18033) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data

No data