

Cd8a-2A-tdTomato-2A-Luc

Nomenclature C57BL/6Smoc-*Cd8a*^{em(T2A-tdTomato-P2A-Luciferase)1Smoc}

Cat. NO. NM-KI-225025

Strain State Repository Live

Gene Summary

Gene Symbol Cd8a	Synonyms	Ly-2; Ly-B; Ly-35; Lyt-2; BB154331
	NCBI ID	<u>12525</u>
	MGI ID	<u>88346</u>
	Ensembl ID	ENSMUSG00000053977
	Human Ortholog	CD8A

Model Description

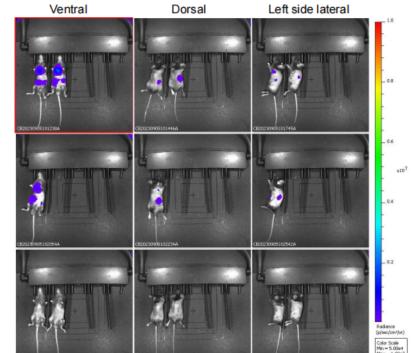
T2A-tdTomato-P2A-Luciferase expression cassette was knocked into the Cd8a gene .

Research Application: Reporter mouse

*Literature published using this strain should indicate: Cd8a-2A-tdTomato-2A-Luc mice (Cat. NO. NM-KI-225025) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data



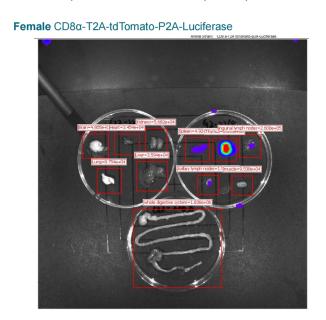


Female CD8α-T2A-tdTomato-P2A-Luciferase

Male CD8α-T2A-tdTomato-P2A-Luciferase

Female C57BL/6 mice

Fig.1 IVIS automatic exposure. According to the imaging process, the mice were injected with D-Luciferin, and the abdomen, back, and flanks were imaged in vivo.



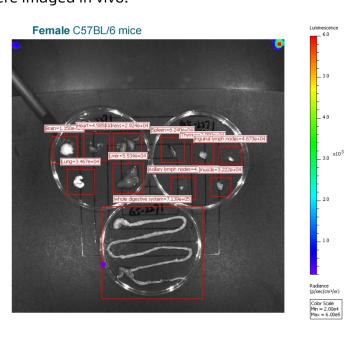


Fig.2 IVIS automatic exposure: ex vivo. According to the imaging process, D-Luciferin was injected, and the mouse brain, heart, lung, kidney, liver, spleen, thymus, inguinal lymph node, axial lymph node (Axial LN), muscle, and the entire digestive system (stomach to colon) were taken for imaging.



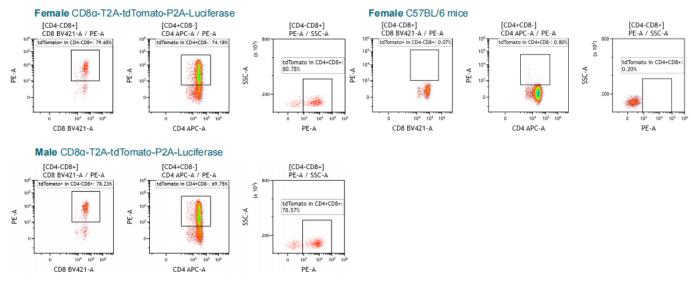


Fig.3 Detection of tdTomato in mice thymus by FACS.

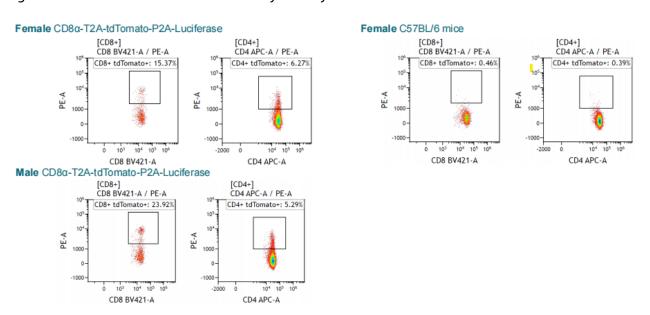


Fig.4 Detection of tdTomato in mice axillary lymph by FACS.

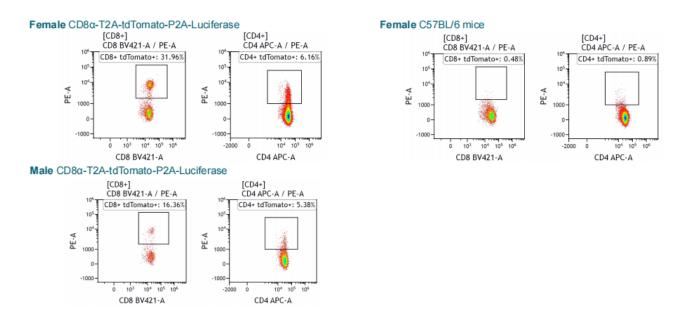


Fig.5 Detection of tdTomato in mice inguinal lymph by FACS.



CD4 APC-A

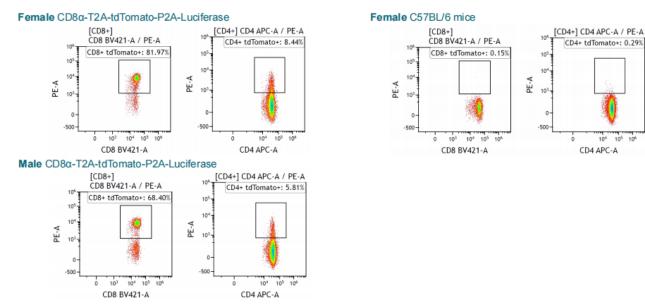


Fig.6 Detection of tdTomato in mice spleen by FACS.

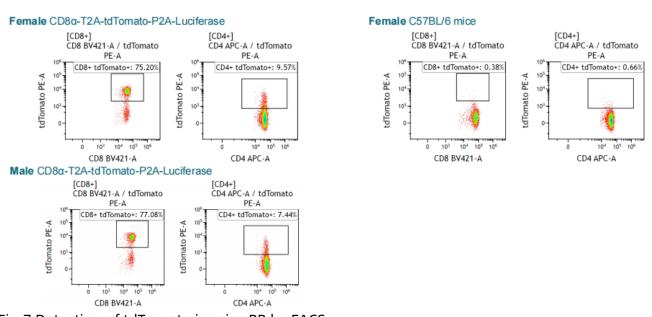


Fig.7 Detection of tdTomato in mice PB by FACS.

^{*}The validation data above were completed in cooperation with Crownbio.