

Supplementary figures

Journal name: Transgenic Research

Title: A new transgenic mouse line for assaying tissue-specific changes in endoplasmic reticulum proteostasis

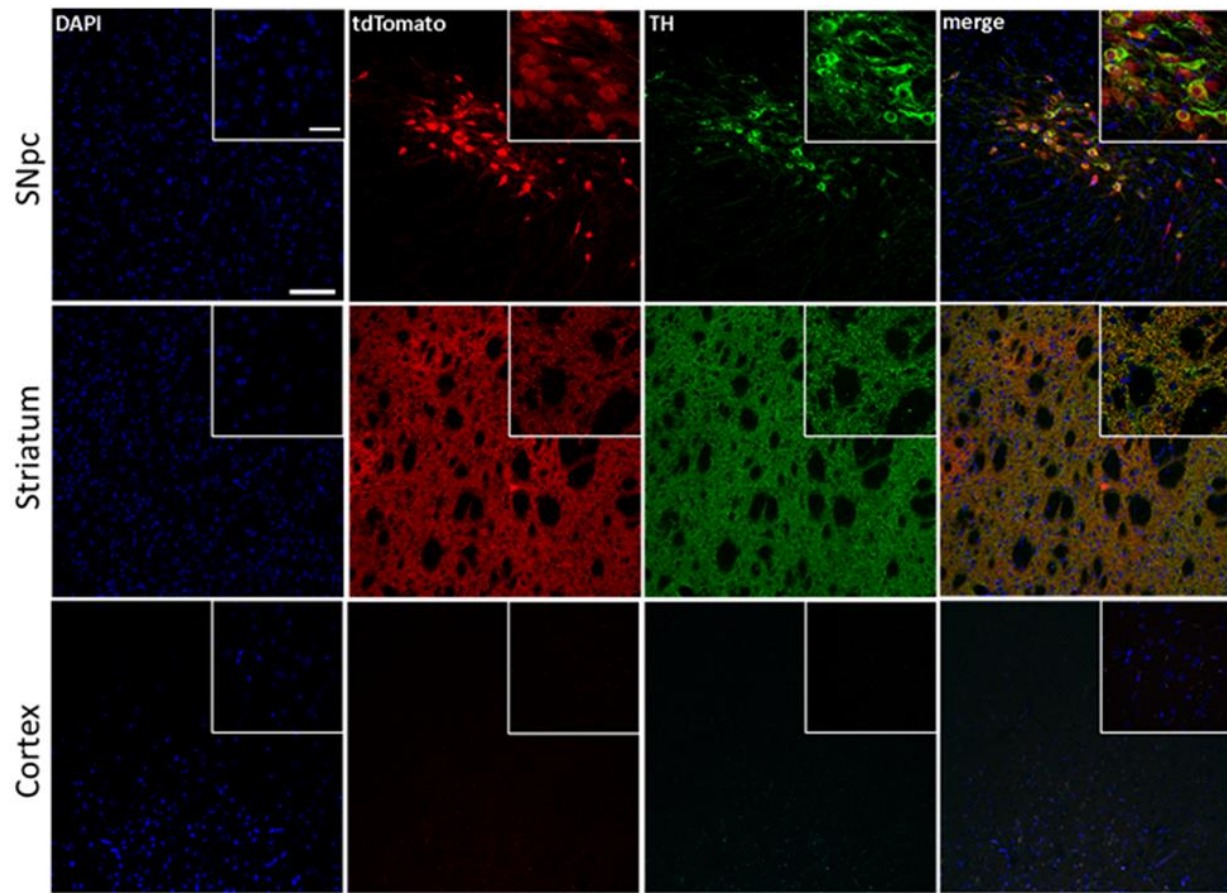
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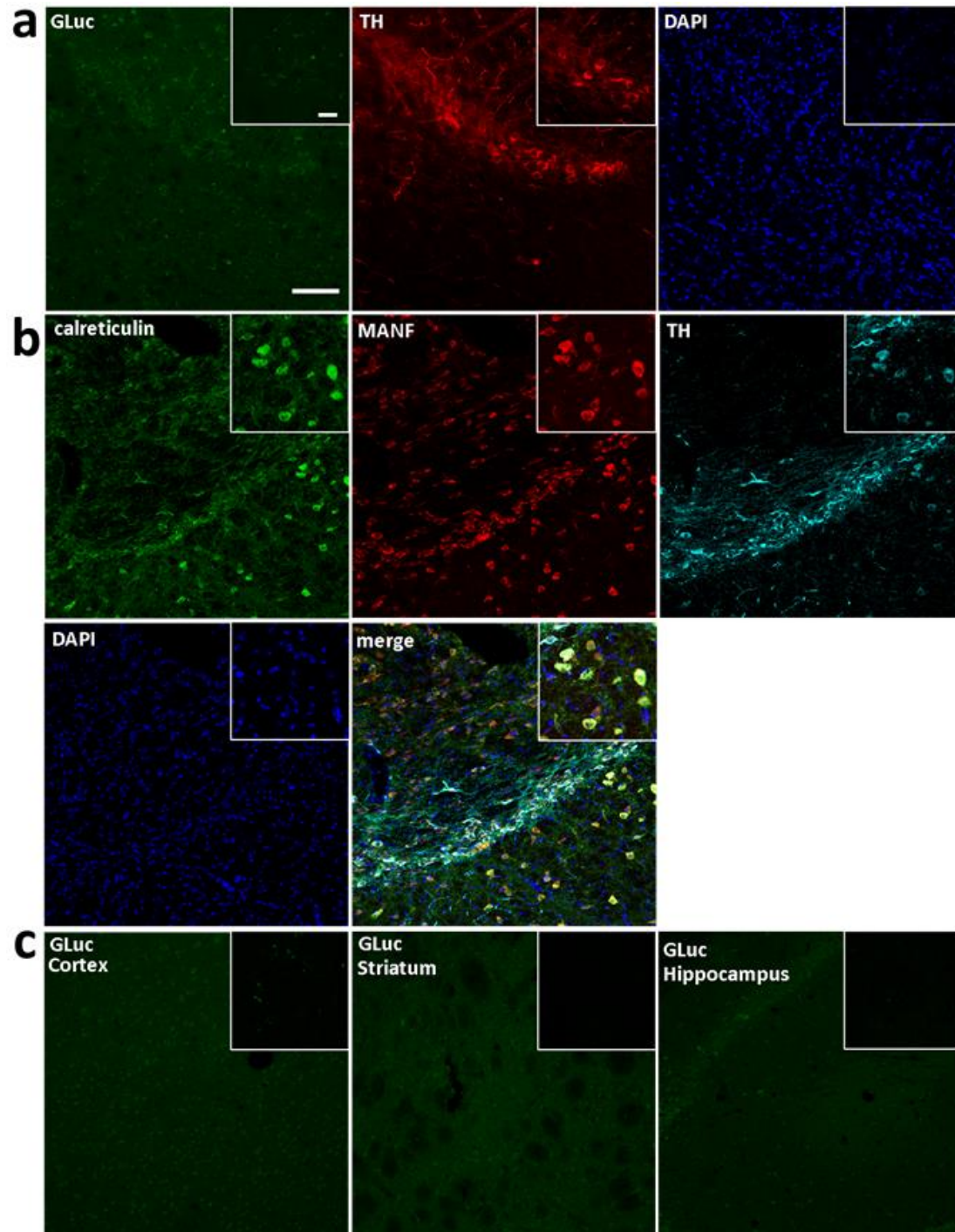
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Supplementary Fig. 1 TdTomato x DAT-Cre colocalization in midbrain

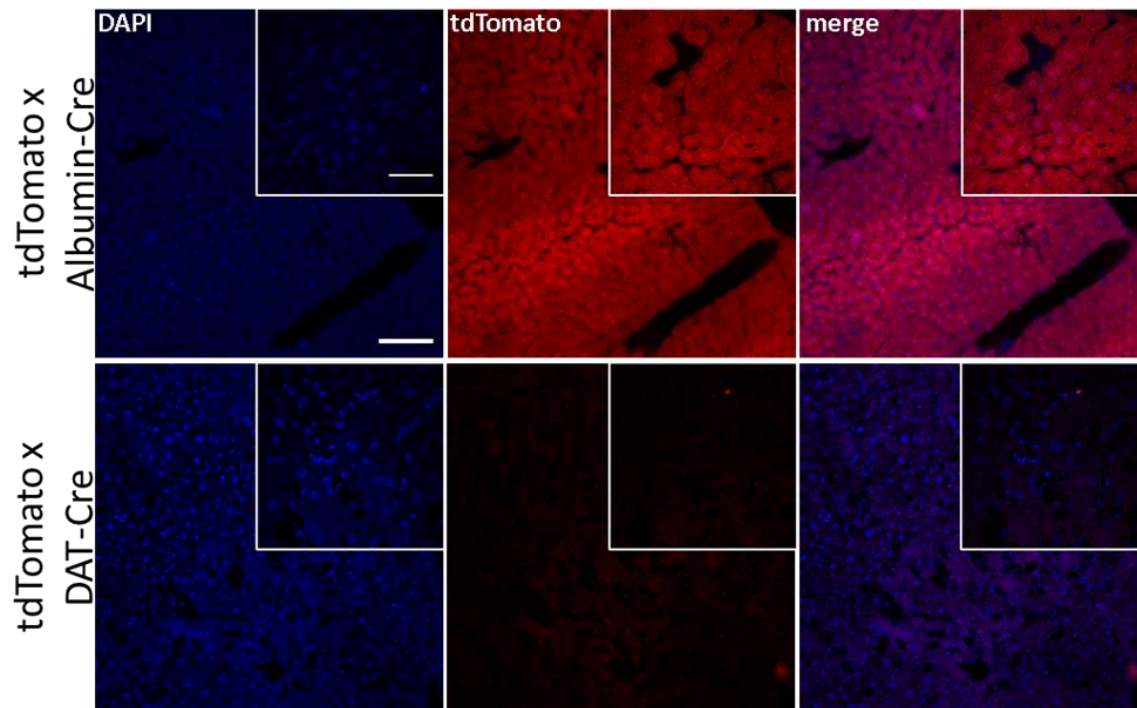
TdTomato x DAT-Cre mouse brain tissue was immunostained for TH. Representative images from SNpc, Striatum and Cortex. Scale bar 100 µm; inset 50 µm.



Supplementary Fig. 2 GLuc immunoreactivity

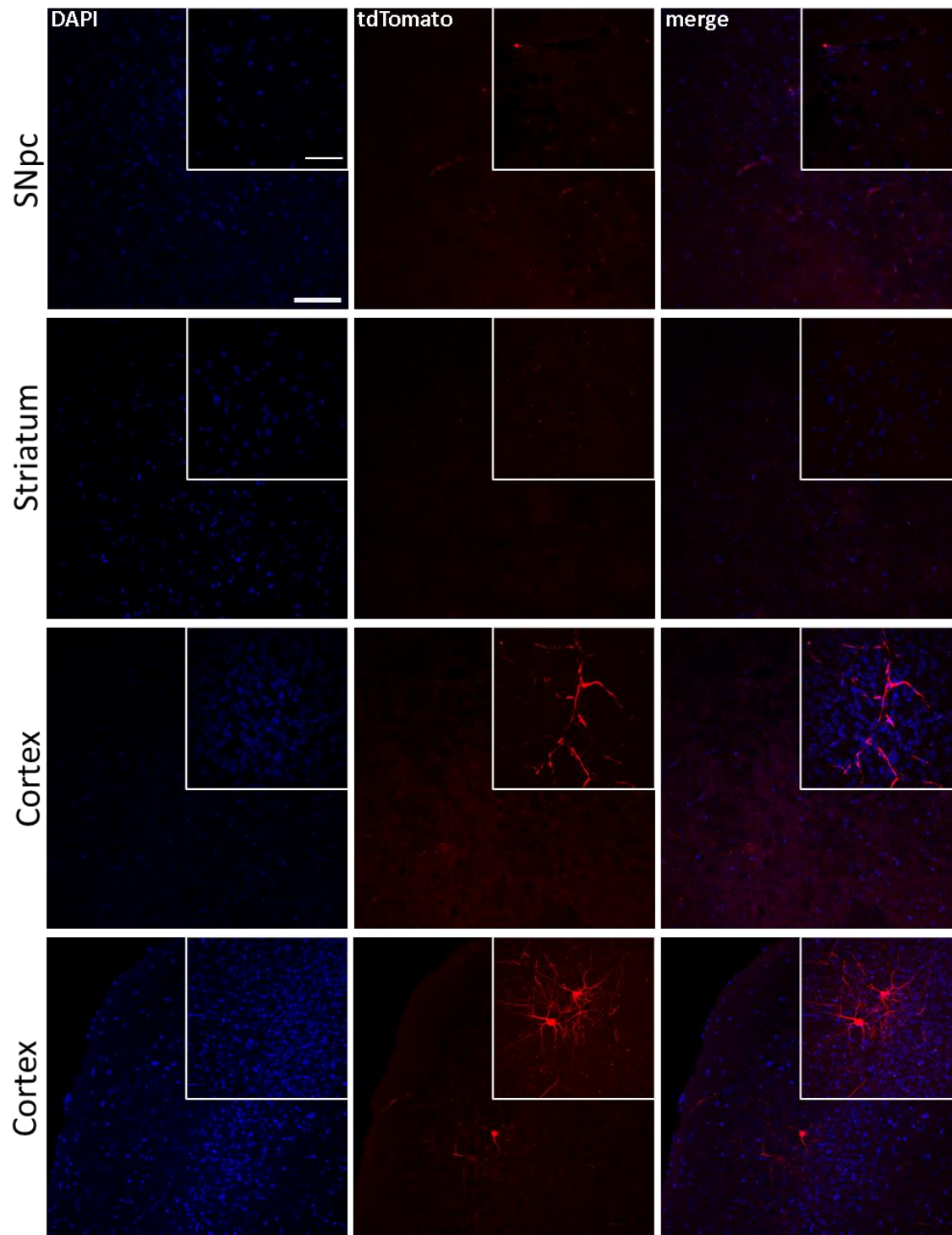
(a) Wildtype mouse SNpc brain sections were stained for GLuc and TH. (b) Wildtype mouse SNpc brain sections were stained for calreticulin, MANF, and TH. (c) The cortex, striatum, and

hippocampus of a LSL-SERCaMP x DAT-Cre mouse were immunostained for GLuc. Scale bar 100 μ m; inset 50 μ m.



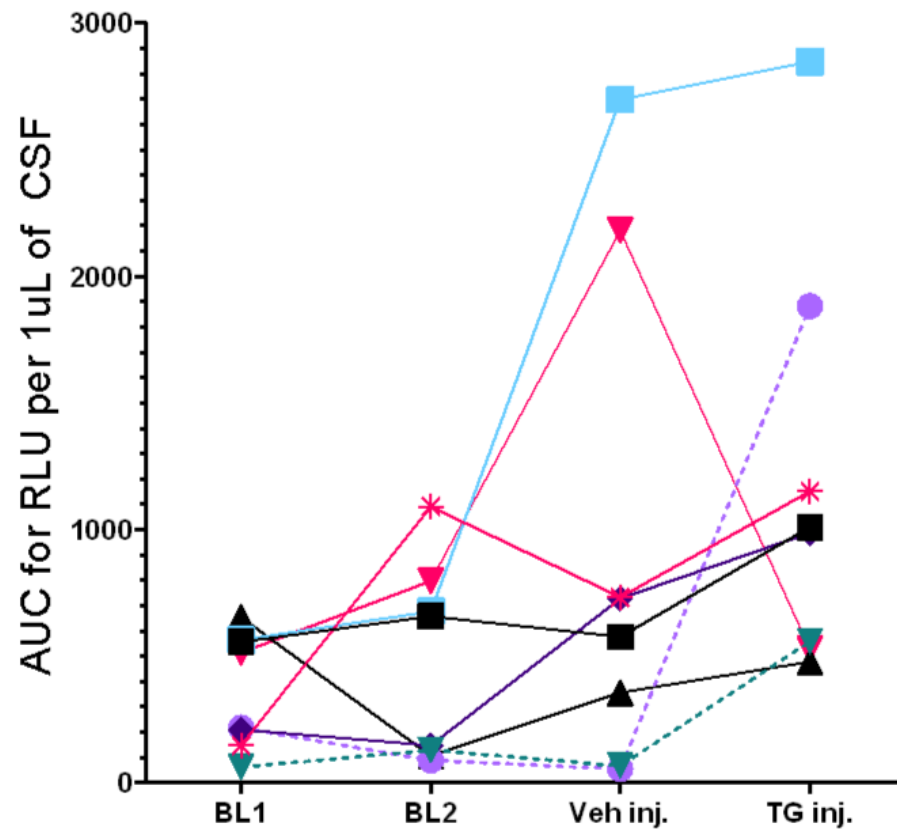
Supplementary Fig. 3 TdTomato x Alb-Cre localization in liver

TdTomato x Alb-Cre and tdTomato x DAT-Cre mouse liver tissue was imaged but only tdTomato x Alb-Cre showed fluorescence. Scale bar 100 μ m; inset 50 μ m.



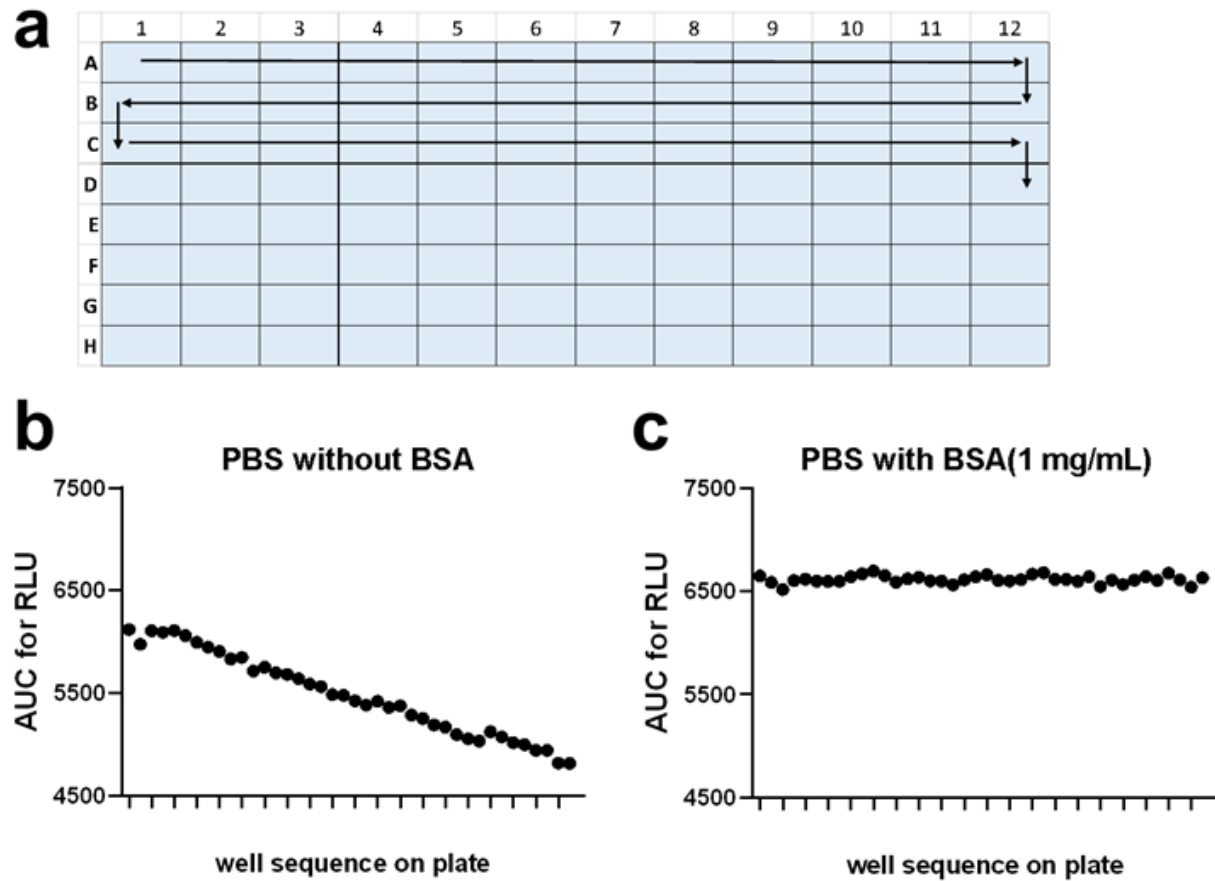
Supplementary Fig. 4 TdTomato x Alb-Cre localization in brain tissue

TdTomato x Alb-Cre mouse SNpc, Striatum and cortex was imaged. Vascular and glial structures were observed in brain tissue samples. Scale bar 100 µm; inset 50 µm.



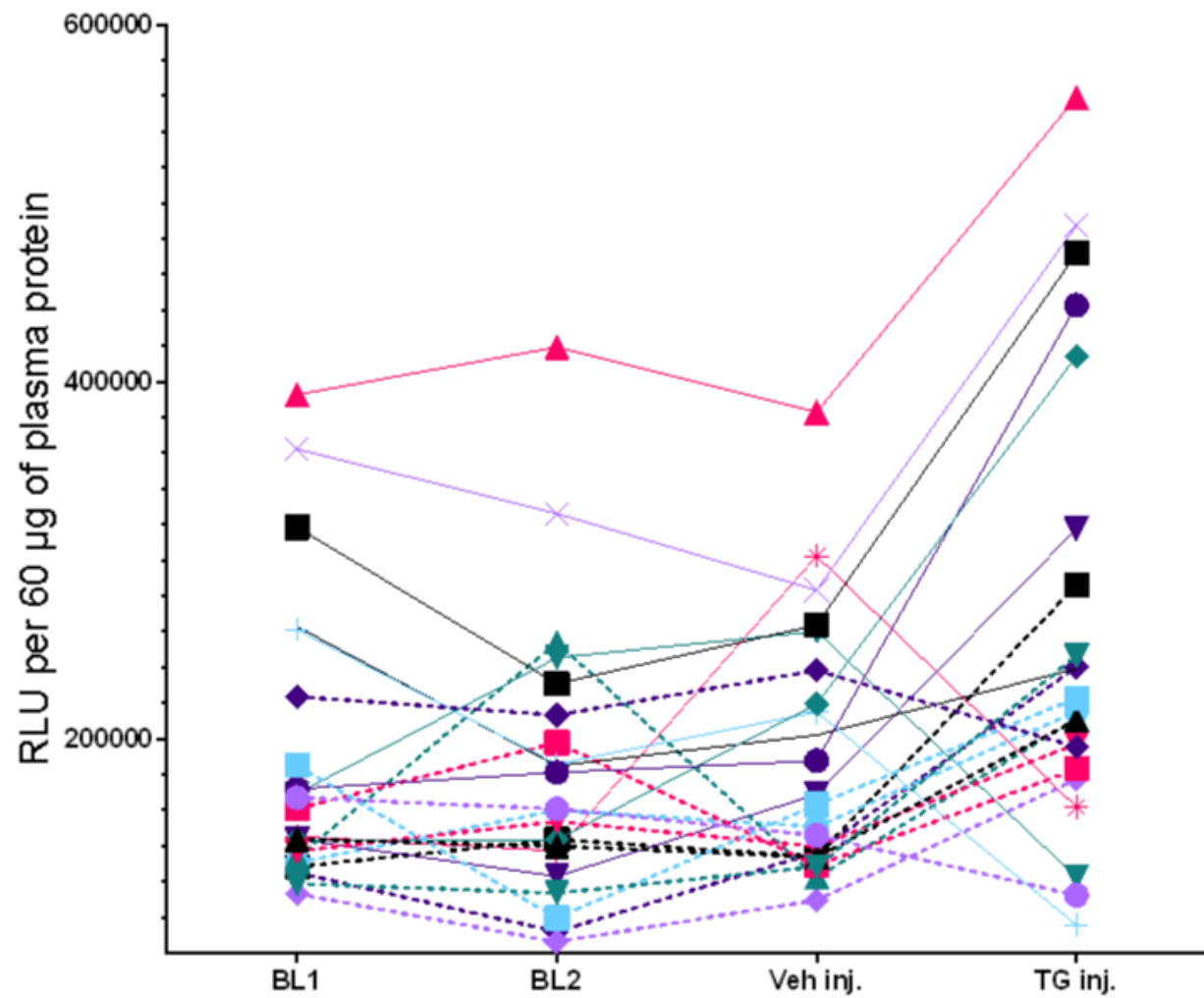
Supplementary Fig. 5 Line graph of individual mice from Fig. 4b

GLuc luminescence from LSL-SERCaMP x DAT-Cre mouse CSF. Dotted lines represent female mice.



Supplementary Fig. 6 PBS and BSA role on low luminescence signal

(a) Serpentine pipetting path of the plate reader. (b-c) CSF sample with overexpressed SERCaMP was diluted in (b) PBS only or (c) PBS with 1 mg/mL BSA. 15 s kinetic measurement of the same sample was recorded on the plate. Data is presented as AUC for RLU for each individual well.



Supplementary Fig. 7 Line graph of individual mice from Fig. 4d

GLuc luminescence from LSL-SERCaMP x Alb-Cre mouse plasma. Dotted lines represent female mice.