

A

5' -

Polyubiquitin
5'-UTR

TdTomato

Neomycin
resistance
gene

Polyubiquitin
3'-UTR

3'

B

5' -

GAPDH
promoter

SV40 NLS

Cre
recombinase

EGFP

TBP
promoter

Hygromycin
resistance
gene

Poly(A)
signal

3'

Supplementary Fig. S2. (A) Nucleotide sequences (3,727 bp) and specific regions of the pUb-TdTomato-LP-Neo-LP vector (total length: 6,608 bp), excluding sequences related to *E. coli* expression. The 5'- and 3'- UTRs of pUb are highlighted in yellow at the front and rear, respectively. The regions shaded in gray represent the 2 loxP sites. The bolded sequence represents the gene encoding the tdTomato fluorescent protein. The neomycin phosphotransferase gene is highlighted in green. The underlined regions indicate the restriction enzyme sites used for cloning, *KpnI*, *HindIII*, *XbaI*, and *SpeI*, in sequential order. (B) Nucleotide sequences (5,063 bp) and specific regions of the pGAPDH-Cre-HYG vector (total length: 7,145 bp), excluding those related to *E. coli* expression. Nucleotide sequences of pGAPDH-Cre-HYG with specific genes and regions indicated. The GAPDH promoter is shaded in gray, the Cre recombinase gene is highlighted in yellow, and the EGFP fluorescence gene is highlighted in green. The underlined and bolded sequence corresponds to the hygromycin B phosphotransferase gene.