

Table S1. Genetic cross details

For negatively marked clones

y w^a N⁵⁴⁹ FRT18A/FM7
 y w hs-FLP¹²²; Ubi-GFP FRT2A/TM6B
 y w hs-FLP¹²²; mib1^{EY9780} FRT82B Ubi-GFP/TM6B
 y w hs-FLP¹²²; mib1^{EY9780} FRT82B Ubi-GFP/TM6B
 y w hs-FLP¹²²; mib1^{EY9780} FRT82B Ubi-GFP/TM6B
 y w hs-FLP¹²²; FRT82B hs-HA-GFP/TM6B
 y w hs-FLP¹²²; FRT82B hs-HA-GFP/TM6B

For MARCM clones on 3R

y w hs-FLP¹²² atubGal4 UAS-GFP-6xnl; FRT82B atub-Gal80/TM6B
 y w hs-FLP¹²² atubGal4 UAS-GFP-6xnl; FRT82B atub-Gal80/TM6B

For MARCM clones on 3L

y w hs-FLP¹²² atubGal4 UAS-GFP-6xnl; UAS-y⁺; tubG80 FRT2A/TM6B
 y w hs-FLP¹²² atubGal4 UAS-GFP-6xnl; UAS-y⁺; tubG80 FRT2A/TM6B

For the analysis of *mib*^c clones next to a *Dl* overexpressing territory, larvae of the following genotype were analyzed:

y w hs-FLP¹²²/+; ptc-Gal4/UAS-Dl^{B41}; Ubi-GFP FRT2A/mib^{EY9780} FRT2A

For clonal overexpression (actin flip-outs), larvae of the following genotype were analyzed:

y w hs-FLP¹²²/+; UAS-EGFP-neur^{lm2}/+; act>CD2stop>Gal4/+

*As *mib1* and *neur* are located in different chromosome arms, 3L and 3R, respectively, we could not generate double mutant clones in a wild-type background. Instead, we used homozygous *mib1* animals (viable as larvae) and induced *neur* clones. The same holds true for *mib1* with *Dl* or *Ser*.

Ubi-GFP FRT18A; hs-FLP³/TM6B
 y w; mib^{EY9780} FRT2A/TM6B
 y w; mib^{EY9780} FRT82B neur^l/TM6B*
 y w; mib^{EY9780} FRT82B Dl^{rev10}/TM6B*
 y w; mib^{EY9780} FRT82B Ser^{RX106}/TM6B*
 w; FRT82B Dl^{rev10}/TM6B
 w; FRT82B Ser^{RX106}/TM6B

w; FRT82B Dl^{rev10} e Ser^{RX106}/TM6B
 w; FRT82B Dl^{rev10}/TM6B
 w; FRT82B e Ser^{RX106}/TM6B
 w; FRT82B neur^l cu/TM6B
 w; FRT82B neur^l cu Dl^{rev10}/TM6B
 w; FRT82B neur^l cu e Ser^{RX106}/TM6B
 w; UAS-Dl^{B41}; FRT82B Dl^{rev10} e Ser^{RX106}/T(2;3)SM5;TM6B
 w; UAS-Sermyc^{IC}; FRT82B Dl^{rev10} e Ser^{RX106}/T(2;3)SM5;TM6B
 w; UAS-fng^{22C}; FRT82B Dl^{rev10}/T(2;3)SM5;TM6B
 w; UAS-Sermyc^{IC}; FRT82B Dl^{rev10}/T(2;3)SM5;TM6B
 w; UAS-neur^{z7.1}; FRT82B Dl^{rev10}/T(2;3)SM5;TM6B
 w; UAS-neur^{z7.1}; FRT82B e Ser^{RX106}/T(2;3)SM5;TM6B
 w; UAS-Dl^{B41}; FRT82B hs-*π*myc/T(2;3)SM5;TM6B
 w; UAS-Sermyc^{IC}; FRT82B hs-*π*myc/T(2;3)SM5;TM6B
 w; UAS-fng^{22C}; FRT82B hs-*π*myc/T(2;3)SM5;TM6B
 w; UAS-DIV5; FRT82B hs-*π*myc/T(2;3)SM5;TM6B
 w; UAS-DIV5 UAS-EGFP-neur^{lm2}; FRT82B hs-*π*myc/T(2;3)SM5;TM6B
 w; UAS-DIV5 UAS-EGFP-neur^{lm2}; FRT82B hs-*π*myc/T(2;3)SM5;TM6B

w; UAS-DIV5; mib^{EY9780} FRT2A/T(2;3)SM5;TM6B
 w; UAS-Sermyc^{IC}; mib^{EY9780} FRT2A/T(2;3)SM5;TM6B
 w; UAS-DIV5 UAS-EGFP-neur^{lm2}; mib^{EY9780} FRT2A/T(2;3)SM5;TM6B
 w; UAS-Sermyc^{IC} UAS-EGFP-neur^{lm2}; mib^{EY9780} FRT2A/T(2;3)SM5;TM6B
 w; UAS-DIV5 UAS-neurΔR^{SA}; mib^{EY9780} FRT2A/T(2;3)SM5;TM6B