

Supplementary Figure S3. Stochastic persistence of zebularine-induced TS-GUS reactivation in adult tissues of zebularine treated mutants. (A) Whole-plant GUS staining

cmt3

drm1,2

0

rdr2

drd1

ago4

2

0

rdr2

drd1

drm1,2

cmt3

ago4

of wild type and drd1 plants treated with 20 μ M zebularine for 1 week and recovered without the inhibitor for 2 weeks. GUS activity in drd1 is still detectable in all rosette leaves at this stage **(B)** GUS staining of cauline leaves and inflorescences from TS-GUS plants treated with 20 μ M zebularine for 2 weeks and recovered without the drug for 3 weeks. GUS activity in vascular tissues and small patches (arrowheads) could be detected in ago4 or drd1 plants respectively. **(C)** Quantitative reverse transcription PCR measurements of activated repetitive elements in adult cauline leaves of zebularine-treated mutant plants (Two weeks zebularine treatments and three weeks recovery). Results from two independent biological replicates are shown.