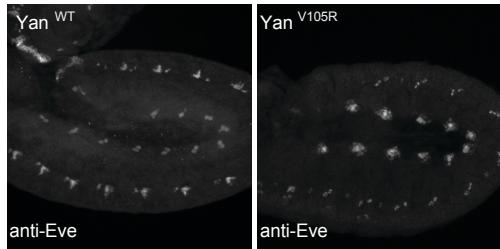
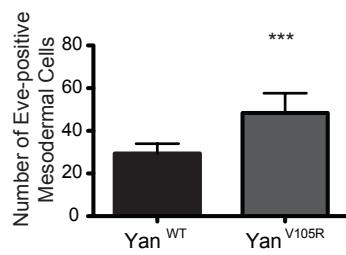
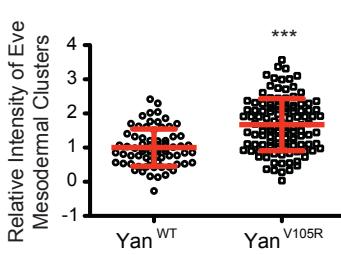


**A****B****C**

**Figure S6** Yan<sup>V105R</sup> has a reduced ability to repress endogenous eve expression. A) Endogenous eve expression in mesodermal clusters in either yan<sup>-/-</sup>;Yan<sup>V105R</sup> or yan<sup>E833/ER433</sup>;Yan<sup>V105R</sup> embryos. B) Quantification of number of Eve-positive cells in the mesodermal clusters in Stage 11 yan<sup>E833/ER433</sup>; Yan<sup>WT</sup> or yan<sup>E833/ER433</sup>;Yan<sup>V105R</sup> embryos (N=40 embryos; p<0.0001, students t-test) C) Quantification of eve expression in the mesodermal clusters reveals an increase in the mean intensity (N=10 embryos; p<0.0001, students t-test) and variation (p<0.0001, Mann Whitney U) in yan<sup>E833/ER433</sup>; Yan<sup>V105R</sup> embryos relative to yan<sup>E833/ER433</sup>; Yan<sup>WT</sup>.