

**Table S1. P:A ratio after irradiation of discs in which the posterior (P) compartment is defective in *dpp* and/or *wg* activity**

Genotype of P compartments	<i>n</i>	P:A ratio
<i>dpp</i> <sup>+</sup> <i>wg</i> <sup>+</sup>	14	0.637±0.028
<i>dpp</i> <sup>-</sup>	10	0.622±0.049
<i>dpp</i> <sup>-</sup> RX	18	0.626±0.077
<i>dpp</i> <sup>-</sup> (RNAi)	8	0.633±0.052
<i>dpp</i> <sup>-</sup> RX (RNAi)	9	0.642±0.093
<i>wg</i> <sup>-</sup>	16	0.504±0.074
<i>wg</i> <sup>-</sup> RX	10	0.538±0.081
<i>dpp</i> <sup>-</sup> <i>wg</i> <sup>-</sup>	11	0.416±0.047
<i>dpp</i> <sup>-</sup> <i>wg</i> <sup>-</sup> RX	9	0.437±0.060

**Table S2. P:A ratio after irradiation of discs in which the posterior (P) compartments contain P35**

Genotype	<i>n</i>	P:A ratio
<i>hh&gt;p35</i> ( <i>dpp</i> <sup>+</sup> <i>wg</i> <sup>+</sup> )	16	0.973±0.174
<i>hh&gt;p35</i> ( <i>dpp</i> <sup>-</sup> <i>wg</i> <sup>+</sup> )	11	0.627±0.031
<i>hh&gt;p35</i> ( <i>dpp</i> <sup>+</sup> <i>wg</i> <sup>-</sup> )	10	0.533±0.048

**Table S3. Spalt/total size ratio in *dronc*<sup>-</sup> and in *spalt>hep*<sup>Act</sup> *dronc*<sup>-</sup> discs**

Genotype	<i>n</i>	S:T ratio
<i>spalt&gt;GFP</i> <i>dronc</i> <sup>-</sup>	8	0.174±0.022
<i>spalt&gt;hep</i> <sup>Act</sup> <i>dronc</i> <sup>-</sup>	8	0.314±0.082