

SUPPLEMENTAL TABLE 1: INITIAL PATHWAY SCREEN

<i>Pathway/construct tested</i>	<i>Phenotype</i>
RAS/MAPK <i>UAS-EGFR</i> <i>UAS-λ top 4.4</i> <i>UAS-Ras NI7</i> <i>UAS-Ras VI2</i>	Unevenly spaced/reduced clusters Large clusters ‡ Large clusters
Notch <i>UAS-N intra</i> <i>UAS-N ECN</i>	‡ ‡ ‡
TGFβ <i>UAS-tkv QD</i>	Developmental delay
Wnt/Wg <i>UAS-armS10</i> <i>UAS-pan ΔN</i>	Normal Developmental delay
JAK/STAT <i>UAS-hop TumL</i> <i>UAS-Upd</i> <i>UAS-stat92E RNAi</i> <i>UAS-hop RNAi</i>	Large cells ‡ Normal Normal
IIS <i>UAS-InR active</i> <i>UAS-InR dominant negative</i>	Large clusters Normal
Ecdysone <i>UAS-EcR dominant negative</i>	Lethal
Hh pathway <i>UAS-Hh</i> <i>UAS-Ci U3P active</i>	Reduced and abnormal ‡
Other <i>UAS-hid ala</i> <i>UAS-E-cadherin</i> <i>UAS-fmi</i> <i>UAS-robo 1A</i> <i>UAS-fra</i> <i>UAS-sna</i> <i>UAS-cdc42 NI7</i> <i>UAS-Rheb</i> <i>UAS-stg</i> <i>UAS-ΔmyB</i>	Lethal Slightly larger clusters (?) Normal Normal Normal Developmental delay Normal Normal Normal Normal

‡ tests for which the presence of a balancer chromosome could not be eliminated.