

**Table S4** Viability measures for founder lines A3 and A4 used for RNAseq

Founder	Replicate <sup>a</sup>	Nicotine Viability <sup>b</sup>	Control Viability <sup>c</sup>
A3	1	0.233	0.367
A3	2	0	0.633
A3	3	0	0.6
A3	4	0	0.733
A3	5	0	0.867
A3	6	0	0.6
A3	7	0	0.833
A3	8	0	0.767
A3	9	0	0.867
A3	10	0.267	0.667
A3	11	0.533	0.733
		<b>mean = 0.09</b>	<b>mean = 0.70</b>
		<b>SD = 0.177</b>	<b>SD = 0.147</b>
A4	1	0.233	0.133
A4	2	0.3	0.9
A4	3	0.767	0.833
A4	4	0.833	0.8
A4	5	0.6	0.767
A4	6	0.5	0.7
A4	7	0.467	0.6
A4	8	0.533	0.5
A4	9	0.567	0.767
A4	10	0.767	0.733
A4	11	0.333	0.8
		<b>mean = 0.54</b>	<b>mean = 0.68</b>
		<b>SD = 0.199</b>	<b>SD = 0.214</b>

<sup>a</sup> Each replicate assay involved 30 first-instar larvae.

<sup>b</sup> The fraction of first-instar larvae emerging as adults on nicotine-supplemented media.

<sup>c</sup> The fraction of first-instar larvae emerging as adults on control, nicotine-free media.