

Table S2

Genetic enhancement/suppression of the *in fy* multiple hair cell phenotype.

Gal4	UAS-in	UAS-fy	other	Mean # mhc	Number of wings	p <sup>&amp;</sup> =
<i>ptc -1*</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>		4.16 (3.0)	55	NR
<i>ptc -2</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>		18.33 (8.2)	6	<0.001
<i>ptc -1, Tub-1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>		25.60 (7.3)	15	<0.001
<i>ptc -1</i>	<i>HA-in-2</i>	<i>fy-GFP -1</i>		42.51 (18.2)	37	<0.001
<i>ptc -1</i>	<i>HA-in-2</i>	<i>fy-GFP -2</i>		72.18 (12.5)	22	<0.001
<i>ptc -1</i>	<i>HA-in-2</i>	<i>fy-GFP -1,</i> <i>fy-flag-ollas-1</i>		25.2 (5.7)	19	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -2</i>		2.80 (2.2)	15	=0.10
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1,</i> <i>fy-flag-ollas</i>		0.32 (0.55)	28	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>			0 (0)	10	<0.001
<i>ptc -1</i>		<i>fy-GFP -1</i>		0 (0)	15	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>pk-1/+</i>	53.71 (21.6)	14	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>pk<sup>pk-sple</sup>/+</i>	7.60 (4.6)	15	=0.01
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>Vang<sup>A5</sup>/+</i>	29.55 (17.1)	11	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>fz<sup>p21</sup>/+</i>	11.24 (5.9)	38	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>fz<sup>k21</sup>/+</i>	17.59 (7.94)	17	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>stan<sup>3-71</sup>/+</i>	12.29 (4.6)	24	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>dsh<sup>1</sup>/+</i>	11.13 (7.4)	15	<0.001
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>fy<sup>1</sup>/+</i>	4.00 (2.1)	22	=0.92
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>fy<sup>2</sup>/+</i>	4.17 (3.6)	18	=0.81
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>frtz<sup>3521</sup>/+</i>	2.65 (2.2)	48	=0.01
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>in<sup>1</sup>/+</i>	4.11 (3.3)	27	=0.79
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>arm-fz-GFP/+</i>	5.76 (4.5)	17	=0.277
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>Cas-dsh-GFP</i>	2.01 (1.5)	20	=0.004
<i>ptc -1</i>	<i>HA-in-1</i>	<i>fy-GFP -1</i>	<i>Ubi-myc-frtz-GFP</i>	5.30 (5.3)	10	=0.70

\*=number of copies

&= t-test comparison to *ptc-GAL4 UAS-HA-in UAS-fy-GFP/+*