|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental File 2. Genetic interactions of Acn with p38b and Cdk5/p35 loss and gain of function.** | | | | | | | | | | | |
|  | **Level of Roughness** | | | | |  | |  | |
| **GMR-Gal4**  **driven**  **UAS-transgenes** | **Normal** | **Mild  Errors** | **Rough  Eyes** | **Severely  Rough Eyes** | **Average  Score** | | **% (1,2)**  **Suppression  or Enhancement** | | **n**  **=**  **flies scored** | |
| *w*1118 | 65 | 0 | 0 | 0 | 1 | | NA | | 65 | |
| GMR-Gal4/+ | 57 | 4 | 0 | 0 | 1.1 | | NA | | 61 | |
| Acn/+ | 10 | 46 | 16 | 0 | 2.1 | | NA | | 72 | |
| p38b+ Acn | 0 | 7 | 23 | 30 | 3.4 | | **-107** | | 60 | |
| p38b | 51 | 13 | 0 | 0 | 1.2 | |  | | 64 | |
| p38bK53R + Acn | 55 | 17 | 0 | 0 | 1.2 | | **79** | | 72 | |
| p38bK53R | 37 | 4 | 0 | 0 | 1.1 | |  | | 41 | |
| p35+ Acn | 0 | 18 | 12 | 35 | 3.3 | | **-96** | | 65 | |
| p35 | 42 | 11 | 0 | 0 | 1.2 | |  | | 53 | |
| Cdk5WT + Acn | 0 | 7 | 9 | 11 | 3.1 | | **-92** | | 27 | |
| Cdk5WT | 37 | 6 | 0 | 0 | 1.1 | |  | | 43 | |
| Cdk5K33A + Acn | 42 | 10 | 3 | 0 | 1.3 | | **74** | | 55 | |
| Cdk5K33A | 37 | 4 | 0 | 0 | 1.1 | |  | | 41 | |
| p35RNAi(27048) + Acn | 48 | 4 | 0 | 0 | 1.1 | | **91** | | 52 | |
| p35RNAi(27048) | 52 | 7 | 0 | 0 | 1.1 | |  | | 59 | |
| p35RNAi(27290) + Acn | 45 | 12 | 4 | 0 | 1.3 | | **69** | | 61 | |
| p35RNAi(27290) | 47 | 6 | 0 | 0 | 1.1 | |  | | 53 | |

All flies were raised at 28°C.

Scores to calculate Average Roughness: normal = 1; mild = 2; rough = 3; strongly rough = 4.

(1) Positive or negative numbers indicate suppression and enhancement, respectively.

(2) Green or red colors highlight UAS-transgenes with more than 50% suppression or enhancement.

(3) Numbers in parenthesis indicated stock numbers of the Bloomington Drosophila stock center