Table S1. Inactivation of PI31 in neurons results in an eclosion defect.

| Genotype | Eclosion rate |
|----------------|-----------------|
| nrv2-GAL4 | 98.5% (463/470) |
| UAS-PI31 RNAi | 98.2% (163/166) |
| nrv2>PI31 RNAi | 0% (0/115) |