**Figure 2-figure supplement 1-source data 1A. Lifespan analysis of flies encoding a single copy of the *UAS chinmoRNAi*transgene and a strain that is heterozygous for *let-7-C* and c*hinmo*.**

|  |  |  |  |
| --- | --- | --- | --- |
| Experiment# | **Lifespan (Days)** | **p value** | **2** |
| Genotype | Maximum  (Number of flies) | Median |  |  |
| *+/+; UAS chinmoRNAi/+ DR-RU* | 92(96) | 56 | 0.2277 | 1.46 |
| *+/+; UAS chinmoRNAi/+ DR+RU* | 90(103) | 64 |
| *+/+; UAS chinmoRNAi/+ AL-RU* | 44(108) | 32 | 0.9711 | 0 |
| *+/+; UAS chinmoRNAi/+ AL+RU* | 44(99) | 32 |
| *+/+; UAS chinmoRNAi/+ DR-RU* | 92(96) | 56 | 0.00E+00 | 133.7 |
| *+/+; UAS chinmoRNAi/+ AL-RU* | 44(108) | 32 |
| *+/+; UAS chinmoRNAi/+ DR +RU* | 90(103) | 64 | 0.00E+00 | 151 |
| *+/+; UAS chinmoRNAi/+ AL+RU* | 44(99) | 32 |
|  |
| *chinmo1, let-7-CKO2/+; +/+ AL*  | 60(104) | 38 | 0.00E+00 | 48.52 |
| *chinmo1, let-7-CKO2/+; +/+ DR*  | 86(90) | 58 |

# This experiment tests the effect of diet and ligand in the RNAi genetic background and the effect of

diet in a heterozygous background graph is depicted in Figure 2-supplement 1A-B; p value calculated

by log rank test; ****2, Chi2 calculated by Log rank test.

**Figure 2- figure supplement 1-source data 1B.** **Cox proportional analysis of flies that encode a single copy of the *UAS chinmoRNAi*transgene.**

|  |  |  |
| --- | --- | --- |
|  | **Risk factor** | **p value** |
| *+/+; UAS chinmoRNAi/+* | Diet | 0 |
| Ligand | 0.722871 |