**Table S4. The statistical analysis for EB/EC or ISC/EB-specific *dMyc* knockdown lifespan.**

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| Cox proportional-hazards ratioa statistical analysis for EB/EC or ISC/EB-specific *dMyc* knockdown lifespan |
| coxph(formula = Surv(time, status) ~ dietb \* gene effectc) |
| Genotype | Predictor | Hazard Ratio (HR) | Wald statistic *p* value for predictor coefficient | Number of flies (n) | Model Likelihood ratio test *p* value |
| *5966-GS>dMyc RNAi*(Fig. 1A) | diet | 0.07734 | < 2e-16\*\*\* | 655 | <2e-16 |
| gene effect | 2.86658 | < 2e-16\*\*\* |
| diet:gene effect interaction | 2.70895 | 0.000000406\*\*\* |
| *5966-GS>dMyc RNAiTRiP-1*(Fig. S1A) | diet | 0.1172 | < 2e-16\*\*\* | 695 | <2e-16 |
| gene effect | 2.2464 | 0.00000000000289\*\*\* |
| diet:gene effect interaction | 1.8435 | 0.000381\*\*\* |
| *5966-GS>dMyc RNAiTRiP-2*(Fig. S1B) | diet | 0.2791 | < 2e-16\*\*\* | 721 | <2e-16 |
| gene effect | 1.4777 | 0.000415\*\*\* |
| diet:gene effect interaction | 2.072 | 0.00000343\*\*\* |
| *5961-GS>dMyc RNAi*(Fig. 1B) | diet | 0.06946 | < 2e-16\*\*\* | 567 | <2e-16 |
| gene effect | 1.77319 | 0.00000829\*\*\* |
| diet:gene effect interaction | 1.2965 | 0.145 |
| Signif. codes: 0 ‘\*\*\*’, 0.001 ‘\*\*’, 0.01 ‘\*’, 0.05 ‘.’, 0.1 ‘ ’, 1 |
| aStatistical analyses (cox proportional-hazards ratio model) were performed using the R 3.3.3 software |
| bdiet (AL = 0, DR = 1) |
| cgene effect (without = 0, with = 1) |