**S7 Table. Statistical analysis of lifespan data for Fig 5 A-E and S5 Fig**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Genotype** | **Lifespan (days)** | **% of control *c*** | **n*d*****(censored)** | ***p**e*** |
| **median *a*** | **max *b*** |
| ***Pgpa-3::atg-18 rescue****daf-2* | 36,33 | 54,53 | 171%,132% | 54(32),53(25) | <0.0001,<0.0001 |
| *daf-2;atg-18* | 21,25 | 35,36 | / | 101(12),48(33) | / |
| *daf-2;atg-18;fauEx88* | 41,36 | 63,57 | 195%,144% | 82(7),69(12) | <0.0001,<0.0001 |
| *daf-2;atg-18;fauEx89* | 30,39 | 61,56 | 143%,156% | 37(16),64(6) | <0.0001,<0.0001 |
| *daf-2;atg-18;fauEx90* | 40,34 | 64,53 | 190%,136% | 92(15),64(13) | <0.0001,<0.0001 |
| *daf-2;atg-18;fauEx91* | 41,41 | 63,58 | 195%,164% | 69(13),70(14) | <0.0001,<0.0001 |
| ***Podr-2::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx101* | 45,4225,2840,35 | 57,5136,4657,55 | 180%,150%/160%,125% | 37(61),94(1)56(24),50(28)81(14),73(21) | <0.0001,<0.0001/<0.0001,<0.0001 |
| *daf-2;atg-18;fauEx102* | 40,40 | 57,57 | 160%,143% | 57(16),51(20) | <0.0001,<0.0001 |
| ***Podr-10::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx82* | 35,3223,1833,24 | 50,4730,3251,35 | 152%,178%/143%,133% | 75(20),30(47)48(41),53(4)40(25),69(20) | <0.0001,<0.0001/<0.0001,<0.0001 |
| *daf-2;atg-18;fauEx83* | 33,21 | 51,30 | 143%,117% | 35(20),35(6) | <0.0001,0.0019 |
| ***Ptph-1::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx86* | 45,4225,2831,36 | 57,5136,4651,50 | 180%,150%/124%,129% | 37(61),94(1)56(24),50(28)24(14),65(41) | <0.0001,<0.0001/<0.0001,0.0012 |
| *daf-2;atg-18;fauEx87* | 35,38 | 50,56 | 140%,136% | 17(12),44(10) | 0.0004,0.0011 |
| ***Psrh-220::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx124* | 37,3217,1837,23 | 51,4729,3246,36 | 218%,178%/218%,128% | 73(19),30(47)45(35),53(4)51(26),66(15) | <0.0001, <0.0001/<0.0001, <0.0001 |
| *daf-2;atg-18;fauEx85****Punc-42::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx115**daf-2;atg-18;fauEx116****Pdaf-11::atg-18 rescue****daf-2**daf-2;atg-18**daf-2;atg-18;fauEx119**daf-2;atg-18;fauEx122* | 33,2136,3827,2827,2426,2736,3730,2632,2829,25 | 46,3354,5744,4851,5154,52 49,5343,4045,5243,41 | 194%,117%133%,136%/100%,86%96%,96%120%,142%/107%,108%97%,96% | 30(20),44(9)54(32),43(0)81(7),69(0)78(4),60(0)30(5),66(0)70(118),77(0)43(37),93(2)54(0),83(11)85(0),25(2) | <0.0001, 0.0001<0.0001,<0.0001/0.1816,0.87160.3174,0.1367<0.0001,<0.0001/0.1865,0.01000.5324,0.3300 |

*a* Median lifespan for each trial

*b* Maximum lifespan for each trial

*c* Percentage of changes in median lifespan relative to *daf-2;atg-18* for each trial

*d* Numbers of animals counted for each trial (censored: animals died of internal hatching or lost during the experiments)

*e* *p* values (log-rank test) compared to *daf-2;atg-18*