**Supplementary Table 2.** Wildtype and mutant mtDNA levels in the different cell death and aging pathway mutants. (mean of 3 replicates ± standard deviation)

|  |  |  |
| --- | --- | --- |
| **Nuclear Genotype** | **wildtype mtDNA copy number**  | **uaDf5 mtDNA copy number**  |
| wild type | 1.5 x 105 ± 2.4 x 104 | 3.9 x 105 ± 9.6 x 104 |
| *ced-3(n717)* | 1.7 x 105 ± 2.0 x 104 | 5.7 x 105 ± 9.9 x 104 |
| *ced-3(n1286)* | 3.2 x 105 ± 6.2 x 104 | 14.8 x 105 ± 2.6 x 105 |
| *ced-3(n2454)* | 2.4 x 105 ± 4 x 103 | 6.7 x 105 ± 2.5 x 104 |
| *ced-3(n718)* | 3 x 105 ± 2.5 x 104 | 5.3 x 105 ± 3.8 x 104 |
|  |  |  |
| *csp-1(tm917)* | 1.7 x 105 ± 5.3 x 103 | 6.7 x 105 ± 1.7 x 104 |
| *csp-1(tm91); ced-3(n717)* | 2 x 105 ± 2.2 x 104 | 9.2 x 105 ± 1.0 x 105 |
| *csp-2(tm3077)* | 2 x 105 ± 6.8 x 103 | 5.7 x 105 ± 8.5 x 104 |
|  |  |  |
| *ced-13(sv32)* | 2.2 x 105 ± 3.1 x 104 | 9.1 x 105 ± 2.0 x 105 |
| *ced-13(tm536)* | 2.4 x 105 ± 3.1 x 104 | 12.2 x 105 ± 2.2 x 105 |
|  |  |  |
| *ced-4(n1162)* | 1.3 x 105 ± 5.7 x 104 | 4.1 x 105 ± 2.0 x 105 |
| *ced-4(n1894)* | 1.9 x 105 ± 3.0 x 104 | 6.2 x 105 ± 1.0 x 105 |
| *ced-9(n1950)* | 2.6 x 105 ± 2.4 x 104 | 5.7 x 105 ± 5.0 x 104 |
|  |  |  |
| *ced-1(e1735)* | 2.2 x 105 ± 4.7 x 104 | 9.3 x 105 ± 2.3 x 104 |
| *ced-2(e1752)* | 2 x 105 ± 1.2 x 104 | 9.0 x 105 ± 1.2 x 105 |
| *ced-1(e1735); ced-2(e1752)* | 1.2 x 105 ± 3.0 x 104 | 6.0 x 105 ± 1.9 x 105 |
| *ced-10(n1993)* | 1.1 x 105 ± 6.3 x 103 | 3.8 x 105 ± 6 x 104 |
| *ced-10(n3246)* | 1.8 x 105 ± 2.3 x 104 | 8.4 x 105 ± 9.7 x 104 |
|  |  |  |
| *daf-2(e1370)* | 4.08 x 105 ± 4.8 x 104 | 3x 105 ± 4.8 x 104 |
| *daf-2(e1391)* | 3.9 x 105 ± 9.1 x 104 | 1.1 x 105 ± 3.2 x 104 |
| *clk-1(qm30)* | 7.7 x 105 ± 11.2 x 104 | 2.3 x 105 ± 1.9 x 104 |
| *daf-2(e1391) clk-1(qm30)* | 3.5 x 105 ± 3.5 x 104 | 0 |
| *daf-16(mu86)* | 1.8 x 105 ± 3.0 x 104 | 6.1 x 105 ± 1.3 x 104 |
| *daf-16(mgDf50)* | 1.8 x 105 ± 3.4 x 104 | 6.2 x 105 ± 1.1 x 104 |
| *daf-16(mu86); daf-2(e1370)* | 2.4 x 105 ± 1.8 x 104 | 4.5 x 105 ± 8.2 x 104 |
| *daf-16(mu86); daf-2(e1391)* | 2.7 x 105 ± 2.5 x 104 | 2.8 x 105 ± 2.4 x 104 |
| *aak-2(ok524)* | 2.2 x 105 ± 9 x 103 | 8.5 x 105 ± 1.0 x 104 |
| *aak-2(gt33)* | 1.8 x 105 ± 3.4 x 104 | 6.2 x 105 ± 1.1 x 104 |