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| **Supplementary file 11. PCR genotyping primers and enzymes, and phenotypes used for strain construction.** |
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| **Allele** |  **phenotype** | **Primers** | **Restriction Enzyme** |
| *daf-3(mgDf90)* | - | AAACGCGTCATGTGGACCAC | - |
| ACCCTCATGCCTACTGTCAG |
| *oyIs84* | fluorescent marker | - | - |
| *daf-1(m40)* | dauer constitutive | GAGACGATCATCCACTTGGTAAG | Tsp45I |
| AAATCTTCCGGATCCAACTCTAC |
| *daf-7(ok3125)* | dauer constitutive | ATCTTCACTCCCGGTGTTTATCT  | *-* |
| CTCAGGATTGGAGACTTTGTGAG |
| *mes-1(ok2467)* | sterile | - | *-* |
| *tdc-1(ok914)* | - | AACGGTGCATTTTTCAGGAC  | *-* |
| GGACGTTGAGAATGCGAAAT  |
| AAATGGTTTACGGGCTTGG  |
| ATGGTTGGCCATGTTGAGAT |
| *eat-2(ad1116)* | decreased pumping | GGAGCCACTTAGGACACC  | Hpy188I |
| CCACACTATCTTTCTACCAC |
| *tbh-1(ok1196)* | - | AAGCAGGATCAGGAGCACAT  | *-* |
| ATGAGAAGTGCCGTTGCTCT  |
| CATGTCATTGATGGCTGGAC  |
| GAACGCCAGTTGGTTGATTT |
| *daf-2(e1370)* | dauer constitutive | GACGATCCCGAGGTGAGTAT  | *-* |
| CAGCGATGGTTGTGATGGAA |
| *daf-16(mu86)* | - | AGAACACCATGGGGGCACTGGAT  | *-* |
| GGCGGGAATGAAGCAAGAGCCAA  |
| TGACGCTCACCTTGAAAAGGTCAAT  |
| GGAACCGATTCGCCAACCCATGA |
| *ins-3(tm3608)* | - | GATCAGCATTGTCACCTGAC  | *-* |
| TGGCAACTGATGTCCGGTAT |
| *ins-4(tm3620)* | - | CCGCCCAATCCCTTTAACGT  | *-* |
| GATGGCTTGTTGGACGACTG  |
| TGGCGCTTGACGCATCAGTC  |
| GAGTGCACTGTGTTGTGCAG |
| *ins-5(tm2560)* | - | GGCTCCTTGCGCCATGATGT  | *-* |
| ATCCTTGAATGCCCGTGAGT  |
| GCTCCTCCCATGTTGGATTG  |
| GGTTTCAGGAGGGTGACGGT |
| *ins-6(tm2416)* | - | TTTACCCACCCCTTCGTGAT  | *-* |
| TTGTACAAGCCACTGGGATG |
| TCGTGATGCTCCGCCTATTG |
| ACAGAGACTGATATCGGAGT |
| *daf-28(tm2308)* | - | TCCGCCCACTTTGAGCTATA  | *-* |
| GCACCCGATCTGACGACACT  |
| GGGTTATCACTAGGAAGTTG  |
| ACCGAGAGGTAGGGGTAATT |
| *hlh-30(tm1978)* | - | TGTCACCTCGGATAGGAAGCCGG | - |
| TGGCGGGAAGTTCGAAAATTGTTGA |
| GCTGAAATGTTTGCTCAAAAGCGCC |
| *ctl-2(ok1137)*  | - | TACCCAGAAGCGTAATCCACAG | *-* |
| CATCTTGTCTGGCGAGAACTCG |