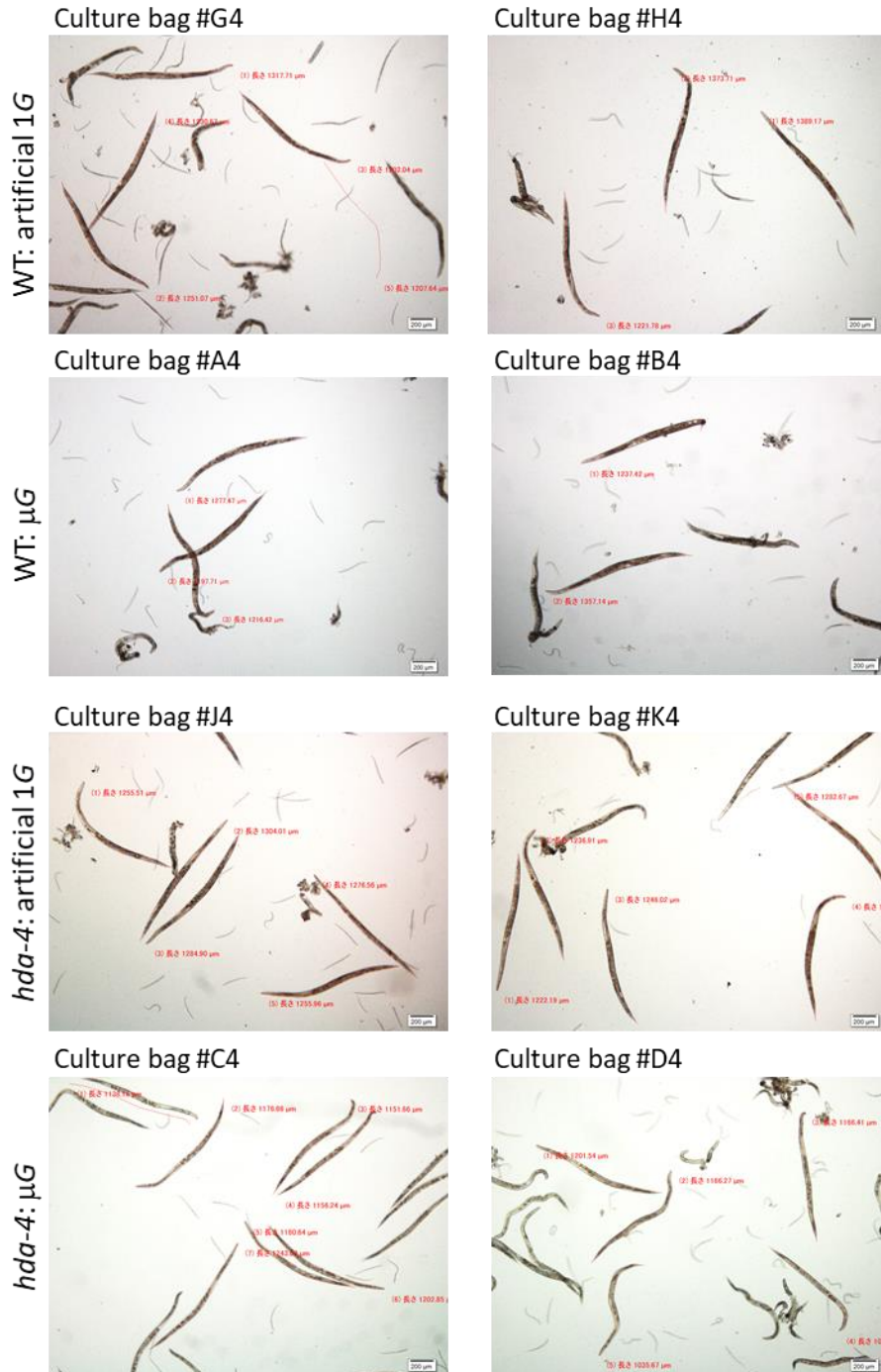
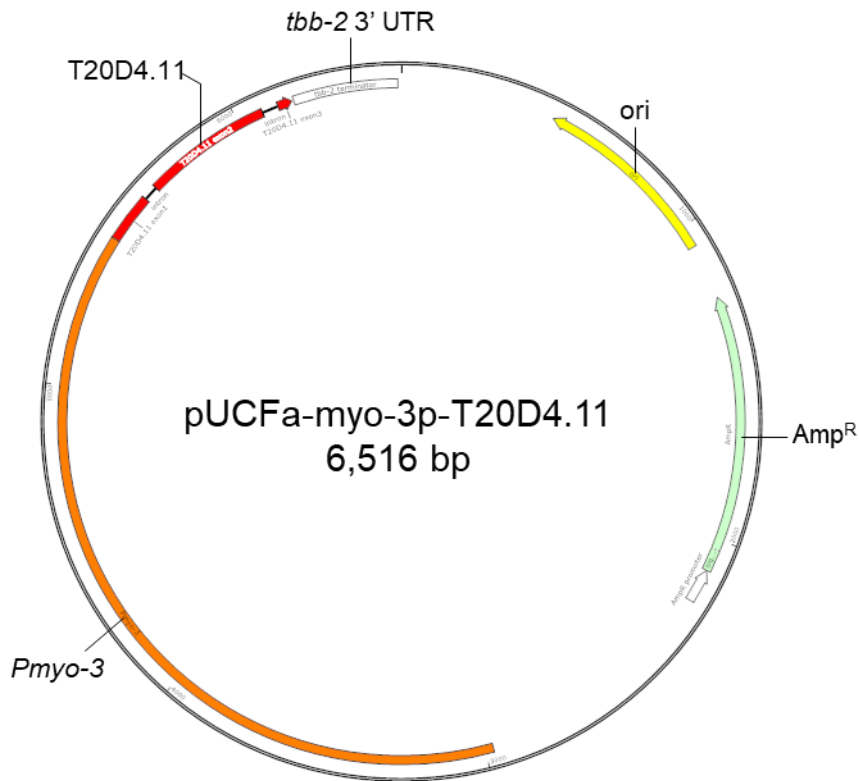


Supplemental Figures

4th generations



Supplemental Fig. 1 Recovered *C. elegans* space-flown samples, wild type and *hda-4* mutant at 4th generations.



pGH8 (*Prab-3::mCherry::unc-54UTR*)
 pCFJ90 (*Pmyo-2::mCherry::unc-54UTR*)
 pCFJ104 (*Pmyo-3::mCherry::unc-54UTR*)

Supplemental Fig. 2 A plasmid map of the T20D4.11 transgene regulated by *myo-3* promoter. Other plasmids, pGH8, pCFJ90, and pCFJ104 were also used as markers to screen transgenic lines.