



**S10 Fig. EG4883, a strain with mCherry-marked sperm, recovers fecundity as well as N2.** Recovery of fecundity of EG4883 is not significantly different from N2: EG4883 compared to N2 on control plates (white bar, data from Fig. 1B)  $P = 0.4$ , binomial test; EG4883 compared to N2 on ascaroside control plates (white bar, data from Fig. 2)  $P = 0.9$ , binomial test; and EG4883 compared to N2 on plates with male ascaroside cocktail (white bar, data from Fig. 2)  $P = 0.13$ , binomial test. EG4883 on male cocktail plates recovered fecundity significantly better than on ascaroside control plates  $P = 9.8 \times 10^{-7}$ , binomial test. These experiments used *singled* hermaphrodites on plates with male cocktail diluted in water. See S1 Table for numbers of independent trials and worms tested in each trial.