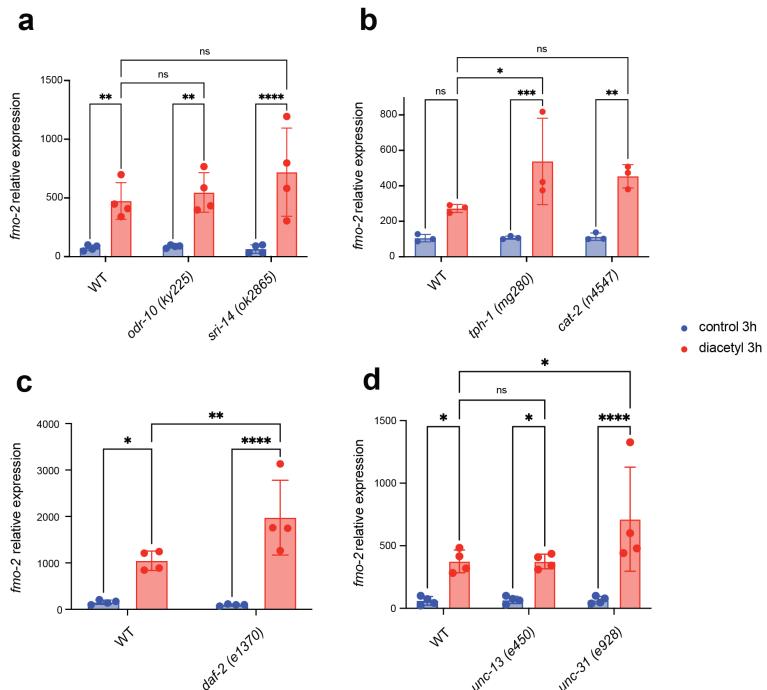
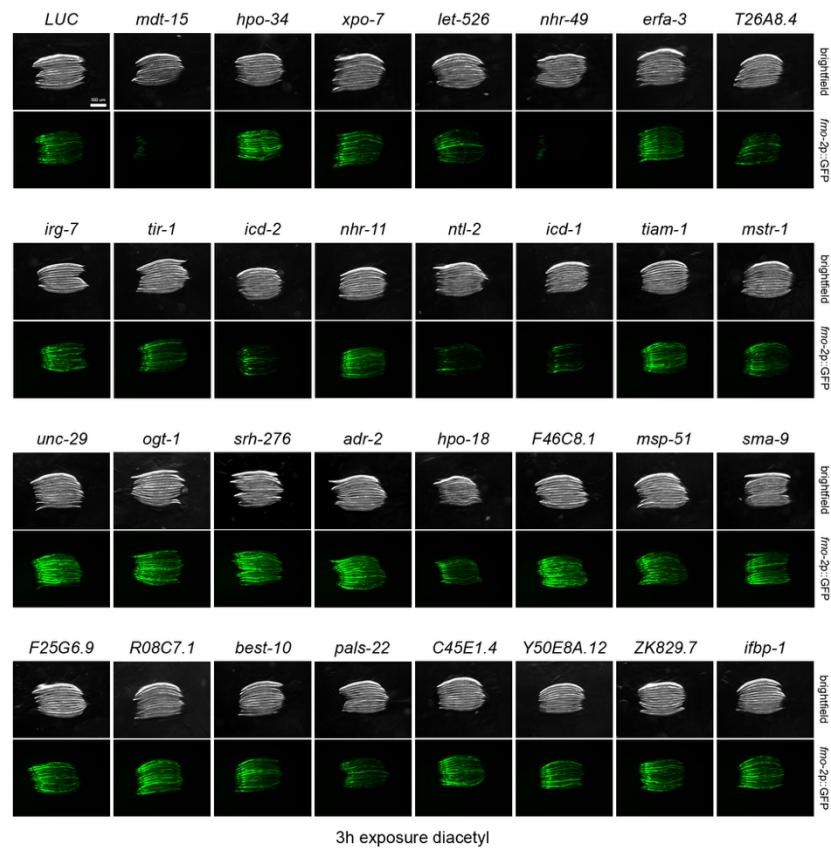


1 **Extended Data Fig 1.** **a**, Scatter plot comparing gene expression between control and diacetyl exposed worms after five minutes
2 of diacetyl exposure. **b**, Scatter plot comparing gene expression between control and diacetyl exposed worms after fifteen
3 minutes of diacetyl exposure. **c**, *gpdh-1* expression levels over twenty-four hours of food deprivation.



4 **Extended Data Fig 2.** **a**, *fmo-2* expression levels in WT, *odr-10 (ky225)* and *sri-14 (ok2865)* exposed to three hours of diacetyl in
5 the absence of food. **b**, *fmo-2* expression levels in WT, *tph-1 (mg280)* and *cat-2 (n4547)* exposed to three hours of diacetyl in
6 the absence of food. **c**, *fmo-2* expression levels in WT and *daf-2 (e1370)* exposed to three hours of diacetyl in the absence of
7 food. **d**, *fmo-2* expression levels in WT, *unc-13 (e450)* and *unc-31 (e928)* exposed to three hours of diacetyl in the absence of
8 food. Data are presented as means; error bars represent \pm SD. *P* values were calculated by two-way ANOVA. **P* < 0.05;
9 ***P* < 0.01, ****P* < 0.001, *****P* < 0.0001.

a

10 **Extended Data Fig 4. a,** Three hour diacetyl induction of *fmo-2* reporter in worms raised on 31 RNAi clones targeting
11 suppressors of *far-3p::GFP* glucose induction⁹ or non-targeting Luciferase (LUC, control).