

Table S1. Swimming and quiescent bouts for nematode worms

	Mean (min)	s.d.	s.e.m.	No. of bouts/worms	P-values
Swimming bout					
<i>nmr-1::GFP</i> mock	12.3	11.51	0.9	153/24	n.a.
AVA ablated	10.1	11.04	0.9	135/16	0.09 n.s.*
AVA and AVE ablated	11.6	11.99	0.9	167/17	0.5324 n.s.*
AVD ablated	6.4	6.04	0.5	151/17	<0.0001*
PVC ablated	11.9	13.19	1.1	154/16	0.7435 n.s.*
RIM ablated	9.6	10.66	0.9	129/16	0.04 n.s.*
Wild-type raised 20°C, assay 20°C	42.7	32.02	6.7	23/16	<0.0001 [†]
Wild-type raised 25°C, assay 20°C	46.3	35.65	6.9	27/15	<0.0001 [†]
Wild-type assayed in <i>E.coli</i> (Op50)	12.7	13.75	1.1	167/32	0.2860 n.s. [†]
Quiescent bout					
<i>nmr-1::GFP</i> mock	5.7	3.66	0.3	170/24	n.a.
AVA ablated	8.5	10.14	0.8	143/24	0.0003*
AVA and AVE ablated	7.2	4.35	0.3	179/17	0.0446 n.s.*
AVD ablated	7.2	7.66	0.6	163/17	0.042 n.s.*
PVC ablated	4.9	2.29	0.2	169/16	0.2639 n.s.*
RIM ablated	9.2	10.22	0.9	134/16	<0.0001*
Wild-type raised 20°C, assay 20°C	4.8	1.73	0.3	35/16	0.9965 n.s. [†]
Wild-type raised 25°C, assay 20°C	5.4	2.65	0.4	41/15	0.6296 n.s. [†]
Wild-type assayed in <i>E.coli</i> (OP50)	9.3	15.69	1.1	189/32	<0.0001 [†]

P-values are for comparison with wild-type ([†]) under standard assay conditions (raised 20°C on *E. coli*, assay 25°C without *E. coli*) or mock ablation (*). n.s., non-significant difference. n.a., not applicable.