

Table S1: Quantification of pharyngeal muscle contractions in *acr* mutants

genotype	pump rate (pumps/min \pm sem)	peristalsis rate (peristalses/min \pm sem)	% pumps followed by peristalsis	duration of isthmus peristalsis (ms \pm sem)
wild type ^a	218 \pm 11	31 \pm 3	14%	113 \pm 4
<i>acr-6(ok3117)</i> ^b	221 \pm 14	12 \pm 4	6%	115 \pm 13
<i>acr-7(tm863)</i> ^c	198 \pm 3	14 \pm 4	7%	119 \pm 7
<i>acr-10(ok3118)</i> ^d	199 \pm 29	20 \pm 6	12%	96 \pm 3
<i>acr-14(ok1155)</i> ^e	199 \pm 29	21 \pm 6	12%	96 \pm 4
<i>acr-16(ok789)</i> ^f	184 \pm 9	20 \pm 2	12%	118 \pm 7

^a 17 N2 L1s were recorded for 19-20 s and a total of 1194 pumps were analyzed.

^b Six *acr-6* L1s were recorded for 19-20 s and a total of 428 pumps were analyzed.

^c Six *acr-7* L1s were recorded for 19-20 s and a total of 392 pumps were analyzed.

^d 21 *acr-10* L1s were recorded for 20-21 s and a total of 1190 pumps were analyzed.

^e Five *acr-14* L1s were recorded for 19-20 s and a total of 325 pumps were analyzed.

^f Six *acr-16* L1s were recorded for 19-20 s and a total of 364 pumps were analyzed.