

**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 <sup>a</sup>	218 $\pm$ 11	31 $\pm$ 3	14%	113 $\pm$ 4
<i>acr-6(ok3117)</i> <sup>b</sup>	221 $\pm$ 14	12 $\pm$ 4	6%	115 $\pm$ 13
<i>acr-7(tm863)</i> <sup>c</sup>	198 $\pm$ 3	14 $\pm$ 4	7%	119 $\pm$ 7
<i>acr-10(ok3118)</i> <sup>d</sup>	199 $\pm$ 29	20 $\pm$ 6	12%	96 $\pm$ 3
<i>acr-14(ok1155)</i> <sup>e</sup>	199 $\pm$ 29	21 $\pm$ 6	12%	96 $\pm$ 4
<i>acr-16(ok789)</i> <sup>f</sup>	184 $\pm$ 9	20 $\pm$ 2	12%	118 $\pm$ 7

<sup>a</sup> 17 N2 L1s were recorded for 19-20 s and a total of 1194 pumps were analyzed.

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

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

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

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

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