

Table S1. Comparison between longitudinal musculature and two different smooth muscle cell (SMCs) types found in the muscular sphincter

	Cross-sectional size of fiber (μm)	Diameter of thick filament (nm)	Density of thick filaments in $1 \mu\text{m}^2$
Longitudinal	2.2 ± 0.6	44 ± 0.6	92 ± 6.9
SMCa	8.9 ± 1.7	64 ± 8.0	44.6 ± 1.4
SMCb	5.7 ± 1.5	43 ± 0.9	85 ± 5.6

Pairwise Student's *t*-tests reveal that all SMCs examined had statistically significant differences in fiber diameter ($P < 0.05$). SMCa has a statistically significant difference in thick filament diameter as well as a decreased filament density ($P < 0.05$). All other values were not significant ($P > 0.05$).