



Supplementary Fig 1.

Table 1

	Taenia caecum		Bladder	
	Control	T + R	Control	T + R
IP₃ (50 μM)	8.4 ± 1.2	0*	12.0 ± 1.7	0*
cADPR (50 μM)	2.7 ± 0.4	0*	9.0 ± 1.78	0*
NAADP (1 μM)	3.9 ± 0.8	3.5 ± 0.1	2.5 ± 0.5	1.9 ± 0.3

* $P < 0.05$, compared to its control response, n=3-13

Table 2

	Taenia caecum		Bladder	
	NAADP (1 μM)	NAADP (2 μM)	NAADP (1 μM)	NAADP (2 μM)
Control	3.9 ± 0.7	5.9 ± 0.8	2.5 ± 0.4	1.8 ± 0.5
NAADP (100 μM)	0*	0.03 ± 0.01*	0.04 ± 0.02 *	0.2 ± 0.04 *
Baf (1 μM)	0*	0*	0.2 ± 0.05 *	0*

* $P < 0.05$, compared to its control response, n=4-12

SUPPLEMENTARY DATA

Supplementary Fig. 1

Mouse detrusor muscle express both TPC1 and TPC2 channels. RT-PCR demonstrates the TPC expression profiles in wild-type and *Tpcn2*^{-/-} mice. TPC1 is present in both wild-type and *Tpcn2*^{-/-} mice. TPC2 is present in wild-type but absent in *Tpcn2*^{-/-} mice. The numbers indicate the number of exon in the gene and the red bars indicate the region amplified in RT-PCR.

Table 1

Summary of messenger-evoked contractions in guinea pig taenia caecum and bladder muscle strips

IP₃ (50 μM), cADPR (50 μM) and NAADP (1 μM) contractions in the absence (control) and presence of thapsigargin (T; 5 μM) + ryanodine (R; 100 μM) in taenia caecum and in bladder.

Table 2

Summary of NAADP-evoked contractions in guinea pig taenia caecum and bladder muscle strips

The effects of NAADP (N, 100 μM) and bafilomycin (B, 100 nM) on NAADP induced control (C) contraction responses in taenia caecum and in bladder.