

## Supplementary data

**Supplementary Table 1**

	Wild-type	<i>Trpm3</i> <sup>-/-</sup>	p-value
number of animals	20	11	
intercontractile interval (s)	188 (153-249)	190 (150-234)	0.98
voided volume (μl)	54 (41-72)	59 (45-76)	0.58
basal pressure (cm H <sub>2</sub> O)	3 (2-4)	4 (2-4)	0.98
peak pressure (cm H <sub>2</sub> O)	41 (39-43)	44 (38-46)	0.27
residual volume (μl)	55 (28-67)	45 (36-73)	0.66
voiding efficiency (%)	51 (43-72)	53 (49-65)	0.79
compliance	0.011 (0.0085-0.016)	0.011 (0.0093-0.021)	0.85
total bladder capacity (calculated)	111 (85-135)	113 (82-117)	0.69

Table S1. Parameters of cystometry in wild type and *Trpm3*<sup>-/-</sup> mice. Values are presented as median ± interquartile range, medians were compared using Mann-Whitney-U-test

Supplementary Table 2

	Wild-type			<i>Trpm3</i> <sup>-/-</sup>		
	saline	CYP	p-value	saline	CYP	p-value
number of animals	8	7		7	8	
intercontractile interval (s)	214 (43)	130 (16)	<b>0.00116</b>	230 (52)	156 (30)	<b>0.00379</b>
voided volume (μl)	69 (14)	45 (6.5)	<b>0.00184</b>	73 (14)	52 (8.3)	<b>0.00578</b>
basal pressure (cm H <sub>2</sub> O)	2.8 (1.4)	3.9 (1.0)	<b>0.41678</b>	2.4 (1.3)	3.8 (1.1)	<b>0.17317</b>
peak pressure (cm H <sub>2</sub> O)	42 (3.8)	35 (2.1)	<b>0.01413</b>	40 (3.8)	40 (5.6)	<b>0.99999</b>
residual volume (μl)	36 (29)	30 (30)	<b>0.97215</b>	47 (30)	8.1 (6.3)	<b>0.03081</b>
voiding efficiency (%)	70 (20)	66 (21)	<b>0.97922</b>	64 (15)	86 (9.8)	<b>0.07671</b>
compliance	0.016 (0.0035)	0.0063 (0.0019)	<b>0.01763</b>	0.023 (0.0091)	0.012 (0.0068)	<b>0.00824</b>
theoretical total bladder capacity	105 (32)	75 (31)	<b>0.26214</b>	120 (40)	60 (5.2)	<b>0.0029</b>

**Table S2. Parameters of cystometry in saline and cyclophosphamide pretreated wild type and *Trpm3*<sup>-/-</sup> mice.** Values are presented as mean ± standard deviation, differences within the groups were compared using two-way analysis of variance with post-hoc Tukey test