Table S3 Results obtained for the measurement of spontaneous breathing pattern of ADAR2 ko (ko) and control (ct) mice. Data are represented as mean ± standard error of mean

Characterization of the mice								
Parameter	**ct (A)**			**ko (B)**			**A ~ B**	
	male	**female**	**p-value**	**male**	**female**	**p-value**	**male**	**female**
	(n=6)	**(n=6)**		**(n=5)**	**(n=6)**		**p-value**	**p-value**
bw [g]	31.8 ± 1.4	24.8 ± 1.1	< 0.01	34.7 ± 0.3	24.1 ± 0.6	< 0.001	n.s.	n.s.
age [d]	133.5 ± 0.3	133.8 ± 0.5	n.s.	133.2 ± 0.4	133.7 ± 0.4	n.s.	n.s.	n.s.
mean_f [1/min]	446.2 ± 12.9	428.4 ± 26.7	n.s.	485.7 ± 10.3	458.6 ± 12.7	n.s.	n.s.	n.s.
Respiratory rate and timing at rest and activity								
Rest								
f [1/min]	362.3 ± 12.5	363.8 ± 11.6	n.s.	390.4 ± 2.7	372.2 ± 10.8	n.s.	n.s.	n.s.
Ti [ms]	54.0 ± 0.7	47.5 ± 1.3	< 0.01	48.4 ± 1.0	46.4 ± 1.5	n.s.	< 0.01	n.s.
Te [ms]	112.6 ± 5.2	118.2 ± 4.2	n.s.	105.3 ± 1.2	115.5 ± 4.2	n.s.	n.s.	n.s.
Ti/TT	0.33 ± 0.01	0.29 ± 0.00	< 0.01	0.32 ± 0.01	0.29 ± 0.01	< 0.05	n.s.	n.s.
Activity								
f [1/min]	474.3 ± 9.2	476.3 ± 11.4	n.s.	494.6 ± 7.1	492.4 ± 3.9	n.s.	n.s.	n.s.
Ti [ms]	45.0 ± 0.7	40.9 ± 0.5	< 0.01	42.0 ± 0.6	39.9 ± 0.7	n.s.	< 0.02	n.s.
Te [ms]	81.8 ± 2.0	85.4 ± 2.9	n.s.	79.4 ± 1.8	82.0 ± 0.8	n.s.	n.s.	n.s.
Ti/TT	0.35 ± 0.01	0.32 ± 0.01	< 0.01	0.35 ± 0.01	0.33 ± 0.00	n.s.	n.s.	n.s.
Tidal volume and flow rates at rest and activity								
Rest								
TV [ml]	0.26 ± 0.02	0.21 ± 0.00	< 0.01	0.26 ± 0.02	0.20 ± 0.01	< 0.05	n.s.	n.s.
PIF [ml/s]	8.1 ± 0.5	7.5 ± 0.3	n.s.	8.9 ± 0.5	7.2 ± 0.4	< 0.05	n.s.	n.s.
PEF [ml/s]	4.9 ± 0.4	4.0 ± 0.2	n.s.	5.1 ± 0.3	3.8 ± 0.2	< 0.01	n.s.	n.s.
MIF [ml/s]	4.9 ± 0.3	4.5 ± 0.1	n.s.	5.3 ± 0.3	4.2 ± 0.3	< 0.05	n.s.	n.s.
MEF [ml/s]	2.4 ± 0.2	1.8 ± 0.1	< 0.02	2.4 ± 0.2	1.7 ± 0.2	< 0.05	n.s.	n.s.

Activity								
TV [ml]	0.28 ± 0.01	0.22 ± 0.01	< 0.01	0.27 ± 0.01	0.21 ± 0.01	< 0.01	n.s.	n.s.
PIF [ml/s]	9.9 ± 0.5	8.6 ± 0.3	n.s.	10.5 ± 0.5	8.6 ± 0.4	< 0.01	n.s.	n.s.
PEF [ml/s]	6.8 ± 0.5	5.3 ± 0.3	< 0.02	6.9 ± 0.4	5.3 ± 0.2	< 0.01	n.s.	n.s.
MIF [ml/s]	6.1 ± 0.3	5.3 ± 0.2	< 0.05	6.4 ± 0.3	5.2 ± 0.2	< 0.01	n.s.	n.s.
MEF [ml/s]	3.4 ± 0.2	2.5 ± 0.1	< 0.01	3.4 ± 0.2	2.5 ± 0.1	< 0.01	n.s.	n.s.
Minute ventilation and body size/weight related parameters at rest and activity								
Rest								
sTV [µl/g]	8.4 ± 0.5	8.6 ± 0.4	n.s.	7.5 ± 0.6	8.1 ± 0.6	n.s.	n.s.	n.s.
MV [ml/min]	93.4 ± 7.1	74.5 ± 3.2	n.s.	97.7 ± 7.7	71.6 ± 6.1	< 0.05	n.s.	n.s.
sMV [ml/min/g]	3.0 ± 0.3	3.1 ± 0.2	n.s.	2.8 ± 0.2	3.0 ± 0.3	n.s.	n.s.	n.s.
Activity								
sTV [µl/g]	8.8 ± 0.6	8.8 ± 0.6	n.s.	7.7 ± 0.4	8.6 ± 0.5	n.s.	n.s.	n.s.
MV [ml/min]	130.0 ± 7.6	101.5 ± 5.0	< 0.02	130.8 ± 8.0	100.7 ± 5.1	< 0.01	n.s.	n.s.
sMV [ml/min/g]	4.1 ± 0.3	4.2 ± 0.4	n.s.	3.8 ± 0.2	4.2 ± 0.2	n.s.	n.s.	n.s.

Abbreviations

bw	body weight (g)
mean_f	mean of all respiratory rates (1/min)
f	respiratory rate (1/min)
TV	tidal volume (ml)
sTV	specific tidal volume (µl/g)
MV	minute ventilation (ml/min)
sMV	specific ventilation (ml/min/g)
Ti	inspiratory time (ms)
Te	expiratory time (ms)
Ti/TT	relative duration of inspiration
PIF	peak inspiratory flow rate (ml/s)
PEF	peak expiratory flow rate (ml/s)
MIF	mean inspiratory flow rate (ml/s)
MEF	mean expiratory flow rate (ml/s)