

Table SI. Comparison of gene expression between control and atopic dorsal root ganglions (DRGs). Expression levels of itch-related receptor genes including *Mrgpra3*, *IL-31RA*, *PAR₂*, *TrpA1*, *TGR5* and *NK1R* in atopic DRGs were significantly higher than those in control DRGs. Expression level of *H₁Rin* atopic DRGs was significantly lower than that in control DRGs

Genes	Comparison	Mean ± SD	<i>p</i> -value (<i>t</i> -test)
<i>H1R</i>	Control	1	0.543
	AD	1.27 ± 0.52	
<i>H4R</i>	Control	1	0.0002*
	AD	0.25 ± 0.09	
<i>Mrgpra3</i>	Control	1	0.0003*
	AD	2.33 ± 1.09	
<i>IL-31RA</i>	Control	1	0.0004*
	AD	2.85 ± 1.06	
<i>Osmr</i>	Control	1	0.6983
	AD	0.95 ± 0.24	
<i>PAR2</i>	Control	1	0.004*
	AD	1.46 ± 0.95	
<i>TSLPR</i>	Control	1	0.641
	AD	0.75 ± 0.48	
<i>Trpv1</i>	Control	1	0.125
	AD	1.49 ± 1.31	
<i>TrpA1</i>	Control	1	0.0220*
	AD	1.37 ± 0.68	
<i>TGR5</i>	Control	1	0.0057*
	AD	1.41 ± 0.92	
<i>NK1R</i>	Control	1	0.0302*
	AD	2.5 ± 0.84	

**p* < 0.05.

Control: DRGs from SDS-treated mice; AD: DRGs from Dfb-treated mice. AD: atopic dermatitis; SDS: sodium dodecyl sulphate; Dfb: *Dermatophagoides farinae* body; DRG: dorsal root ganglion; SD: standard deviation; AD: atopic dermatitis.