

Supplementary Table 1

Gene Symbol	Gene Name	Fold Change	p-value (<0.05)
Tacr1	Tachykinin receptor 1	2.67	0.042
Edn1	Endothelin 1	1.58	0.013

Gene Symbol	Gene Name	Fold Change	p-value (> 0.05)
Il10	Interleukin 10	2.23	0.369
Dbh	Dopamine beta hydroxylase	2.12	0.376
Cd4	CD4 antigen	2.03	0.310
Bdkrb1	Bradykinin receptor, beta 1	1.98	0.389
Il2	Interleukin 2	1.91	0.482
Il1a	Interleukin 1 alpha	1.84	0.379
Prok2	Prokineticin 2	1.81	0.261
Grm1	Glutamate receptor, metabotropic 1	1.79	0.443
Tnf	Tumor necrosis factor	1.59	0.304
Adrb2	Adrenergic receptor, beta 2	1.50	0.247
Pla2g1b	Phospholipase A2, group IB, pancreas	1.49	0.564
Il6	Interleukin 6	1.46	0.483
Oprd1	Opioid receptor, delta 1	1.32	0.338
Il1b	Interleukin 1 beta	1.27	0.667
Faah	Fatty acid amide hydrolase	1.27	0.167
Cnr1	Cannabinoid receptor 1 (brain)	1.23	0.425
Bdnf	Brain derived neurotrophic factor	1.20	0.786
Ptger1	Prostaglandin E receptor 1 (subtype EP1)	1.20	0.258
Mapk8	Mitogen-activated protein kinase 8	1.19	0.530
Pdyn	Prodynorphin	1.18	0.809
Cd200	Cd200 antigen	1.15	0.515
Tac1	Tachykinin 1	1.12	0.877
Ccl12	Chemokine (C-C motif) ligand 12	1.12	0.772
P2rx7	Purinergic receptor P2X, ligand-gated ion channel, 7	1.11	0.341
Scn3a	Sodium channel, voltage-gated, type III, alpha	1.11	0.780
Trpv3	Transient receptor potential cation channel, subfamily V, member 3	1.10	0.608
Cx3cr1	Chemokine (C-X3-C) receptor 1	1.09	0.609
Alox5	Arachidonate 5-lipoxygenase	1.08	0.299
Adora1	Adenosine A1 receptor	1.08	0.538
Grin2b	Glutamate receptor, ionotropic, NMDA2B (epsilon 2)	1.08	0.603
Gch1	GTP cyclohydrolase 1	1.08	0.202
Scn9a	Sodium channel, voltage-gated, type IX, alpha	1.08	0.908
Kcnj6	Potassium inwardly-rectifying channel, subfamily J, member 6	1.07	0.894
Il18	Interleukin 18	1.07	0.874
Mapk3	Mitogen-activated protein kinase 3	1.07	0.581
Mapk1	Mitogen-activated protein kinase 1	1.05	0.768
Grin1	Glutamate receptor, ionotropic, NMDA1 (zeta 1)	1.05	0.586
Gdnf	Glial cell line derived neurotrophic factor	1.05	0.660
Ptger4	Prostaglandin E receptor 4 (subtype EP4)	1.04	0.478
Grm5	Glutamate receptor, metabotropic 5	1.04	0.561
Ptger3	Prostaglandin E receptor 3 (subtype EP3)	1.03	0.603
Itgb2	Integrin beta 2	1.02	0.725
Oprm1	Opioid receptor, mu 1	1.01	0.896
Ngf	Nerve growth factor	1.01	0.844
Ptgs2	Prostaglandin-endoperoxide synthase 2	1.00	0.503

Gene Symbol	Gene Name	Fold Change	p-value (<0.05)
Calca	Calcitonin/calcitonin-related polypeptide, alpha	0.99	0.908
Ace	Angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	0.99	0.653
Kcnip3	Kv channel interacting protein 3, calsenilin	0.99	0.953
Tlr4	Toll-like receptor 4	0.99	0.751
P2ry1	Purinergic receptor P2Y, G-protein coupled 1	0.99	0.968
Maob	Monoamine oxidase B	0.98	0.935
Kcnq2	Potassium voltage-gated channel, subfamily Q, member 2	0.97	0.838
Ccr2	Chemokine (C-C motif) receptor 2	0.97	0.632
Pnoc	Prepronociceptin	0.96	0.801
Comt	Catechol-O-methyltransferase	0.96	0.874
Cck	Cholecystokinin	0.96	0.451
Kcnq3	Potassium voltage-gated channel, subfamily Q, member 3	0.94	0.590
Scn10a	Sodium channel, voltage-gated, type X, alpha	0.94	0.632
Mapk14	Mitogen-activated protein kinase 14	0.94	0.427
P2rx4	Purinergic receptor P2X, ligand-gated ion channel 4	0.92	0.372
Ptgs1	Prostaglandin-endoperoxide synthase 1	0.91	0.843
Ptges2	Prostaglandin E synthase 2	0.91	0.705
Chrna4	Cholinergic receptor, nicotinic, alpha polypeptide 4	0.90	0.932
Cacna1b	Calcium channel, voltage-dependent, N type, alpha 1B subunit	0.90	0.590
Scn11a	Sodium channel, voltage-gated, type XI, alpha	0.89	0.598
Trpa1	Transient receptor potential cation channel, subfamily A, member 1	0.88	0.610
Cnr2	Cannabinoid receptor 2 (macrophage)	0.88	0.471
Htr1a	5-hydroxytryptamine (serotonin) receptor 1A	0.88	0.847
Penk	Preproenkephalin	0.87	0.413
Ptges3	Prostaglandin E synthase 3 (cytosolic)	0.85	0.810
P2rx3	Purinergic receptor P2X, ligand-gated ion channel, 3	0.83	0.499
Slc6a2	Solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2	0.83	0.968
Oprk1	Opioid receptor, kappa 1	0.82	0.615
Csf1	Colony stimulating factor 1 (macrophage)	0.82	0.187
Trpv1	Transient receptor potential cation channel, subfamily V, member 1	0.81	0.483
Htr2a	5-hydroxytryptamine (serotonin) receptor 2A	0.81	0.572
Ntrk1	Neurotrophic tyrosine kinase, receptor, type 1	0.78	0.631
Itgam	Integrin alpha M	0.70	0.306
Ednra	Endothelin receptor type A	0.70	0.203
Tlr2	Toll-like receptor 2	0.67	0.146
Ptges	Prostaglandin E synthase	0.66	0.338
Cckbr	Cholecystokinin B receptor	0.60	0.884