**Supplementary Table S1 Sequences of target gene specific primer**

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| Gene name |  | Primer sequences (5'-3') |
| Mouse GAPDH  NM\_001289726.2 | Forward | 5'-AGGTCGGTGTGAACGGATTTG-3' |
| Reverse | 5'-TGTAGACCATGTAGTTGAGGTCA-3' |
| Mouse IL-4  NM\_021283.2 | Forward | 5'-GGTCTCAACCCCCAGCTAGT-3' |
| Reverse | 5'-GCCGATGATCTCTCTCAAGTGAT-3' |
| Mouse IL-33  NM\_001164724.2 | Forward | 5'-TCCAACTCCAAGATTTCCCCG-3' |
| Reverse | 5'-CATGCAGTAGACATGGCAGAA-3' |
| Mouse TSLP  NM\_021367.2 | Forward | 5'-ATGATTCTCCGACTCATTGCAC-3' |
| Reverse | 5'-GAGGATCACGTAATGGGGCTT-3' |
| Mouse TNF-ɑ  NM\_001278601.1 | Forward | 5'-GAGTCCGGGCAGGTCTACTTT-3' |
| Reverse | 5'-CAGGTCACTGTCCCAGCATCT-3' |
| Mouse TRPV1  NM\_001001445.2 | Forward | 5'-CCACTGGTGTTGAGACGCC-3' |
| Reverse | 5'-TCTGGGTCTTTGAACTCGCTG-3' |
| Human GAPDH  NM\_001256799.3 | Forward | 5'-ACAACTTTGGTATCGTGGAAGG-3' |
| Reverse | 5'-GCCATCACGCCACAGTTTC-3' |
| Human IL-6  NM\_000600.5 | Forward | 5'-ACTCACCTCTTCAGAACGAATTG-3' |
| Reverse | 5'-CCATCTTTGGAAGGTTCAGGTTG-3' |
| Human TNF-ɑ  NM\_000594.4 | Forward | 5'-CCTCTCTCTAATCAGCCCTCTG-3' |
| Reverse | 5'-GAGGACCTGGGAGTAGATGAG-3' |
| Human CXCL10  NM\_001565.4 | Forward | 5'-GTGGCATTCAAGGAGTACCTC-3' |
| Reverse | 5'-TGATGGCCTTCGATTCTGGATT-3' |
| Human CD86  NM\_001206924.2 | Forward | 5'-CTGCTCATCTATACACGGTTACC-3' |
| Reverse | 5'-GGAAACGTCGTACAGTTCTGTG-3' |
| Human IL-12/23  NM\_002187.3 | Forward | 5'-CTCAGGGACAACAGTCAGTTC-3' |
| Reverse | 5'-ACAGGGCTATCAGGGAGCA-3' |
| Human TRPV1  NM\_080706.3 | Forward | 5'-CAGGCTCTATGATCGCAGGAG-3' |
| Reverse | 5'-TTTGAACTCGTTGTCTGTGAGG-3' |