**Table S3** Primers of target mRNA genes

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| Gene | GenBank ID | F-Primer | R-Primer | Produce size, bp |
| *β-actin* | NC\_052545.1 | CGTGACTGACTGACTACCT | TGATCGAAATCAGTGCGAC | 93 |
| *tnf-α* | NM\_204267.2 | CAGATGGGAAGGGAATGAAC | AGAGCATCAACGCAAAGGG | 86 |
| *il-1β* | NM\_204524.2 | GCTCTACATGTCGTGTGTGATGAG | TGTCGATGTCCCGCATGA | 140 |
| *il-10* | NM\_001004414.4 | GATTCAGATAGAAGTTCTGTGCC | GGTAACTTCTCTAAACACAGCAG | 98 |
| *il-6* | NM\_204628.2 | GCATTCACTGAGTTTCCACCATT | GTAGCACTGAGGGACATGGTAAG | 108 |
| *mucin-2* | XM\_040673055.2 | GTCATTCCAAGGTGAACCCATCTCC | CAGCAACAGCAGAACAGAAGCAATC | 105 |
| *occludin* | NM\_205128.1 | CGTCATGCTCATCGCCTCCATC | TTGAGGTAGGTGCTGCCGTAGG | 126 |
| *claudin* | NM\_001013611.2 | GACCAGGTGAAGAAGATGCGGATG | CGAGCCACTCTGTTGCCATACC | 107 |
| *zo-1* | XM\_040706827.2 | TCTTCCTCCTCCCGCTTCTTCAC | AGAGATGGTGGTGTAGGCAGTGG | 81 |