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| **Table S1** Primers used for bacterial and host qPCR |
| **Bacterial 16S or 23S** **rRNA target** | **Primer** | **Sequence (5'-3')** |
| *Eubacteria* (total bacteria) | Forward | ACTCCTACGGGAGGCAGCAGT |
| Reverse | ATTACCGCGGCTGCTGGC |
| *Lactobacillus* | Forward | AGCAGTAGGGAATCTTCCA |
| Reverse | CACCGCTACACATGGAG |
| *Bacteroidetes* | Forward | GGARCATGTGGTTTAATTCGATGAT |
| Reverse | AGCTGACGACAACCATGCAG |
| *Enterobacteriaceae* | Forward | TGCCGTAACTTCGGGAGAAGGCA |
| Reverse | TCAAGGCTCAATGTTCAGTGTC |
| *Clostridium butyricum* | Forward | GTGCCGCCGCTAACGCATTAAGTAT |
| Reverse | ACCATGCACCACCTGTCTTCCTGCC |
| *Faecalibacterium prausnitzii* | Forward | GATGGCCTCGCGTCCGATTAG |
| Reverse | CCGAAGACCTTCTTCCTCC |
|  |  |  |
| **Host gene target** | **Primer** | **Sequence (5'-3')** |
| *ZO-1* | Forward | GCCTGAATCAAACCCAGCAA |
| Reverse | TATGCGGCGGTAAGGATGAT |
| *Occludin* | Forward | GATGGACAGCATCAACGACC |
| Reverse | CATGCGCTTGATGTGGAAGA |
| *Claudin 3* | Forward | GAAGGGCTGTGGATGAACTG |
| Reverse | GAGACGATGGTGATCTTGGC |
| *MUC2* | Forward | AATGCTGAGTTCTTGCCTAA |
| Reverse | GTTGCAGTTCATATCCTGGT |
| *TFF2* | Forward | CCCTGCTGATCCTCGTAT |
| Reverse | GCTGTTATTTCCCAGTTGA |
| *IL-22* | Forward | CAGGAATCGCACCTACACCT |
| Reverse | TCATGTAGCAGCGGTTGTTC |
| *IL-17A* | Forward | CCATTCCAGGTGCGTGAACT |
| Reverse | TTTCTTCTCCAGGCGGTACG |
| *IFN-α* | Forward | CCAGCACCTCGAGCAAT |
| Reverse | GGCGCTGTAATCGTTGTCT |
| *CYP1A2* | Forward | ATCTTTGGAGCAGGCTTTGA |
| Reverse | CGCTCTCCTGAATCTTCTTCTG |
| *EPHX2* | Forward | TCTCCAGCAAGAAGAACCATTG |
| Reverse | AACACGGAAGCCAGCATCA |
| *GAPDH* | Forward | TCTCTGGCAAAGTCCAAGTG |
| Reverse | CTTGAAGTGTCCGTGTGTAGAA |