**Supplemental Table 4.** Mean cycle threshold (Ct) for each of the evaluated genes in canine colonoid- or Caco-2-derived monolayers.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **Category** | **Gene Full Name** | **Symbol** | **Cycle threshold (Ct)** | |
|  |  |  |  | **Mean** | **SD** |
| *Canis lupus familiaris* (dog) (colonoid-derived monolayers) | Housekeeping gene | Glyceraldehyde-3-phosphate dehydrogenase | GAPDH | 20.67 | 1.52 |
| Tight and adherens junction proteins | Cadherin 1 | CDH1 | 24.49 | 0.12 |
| Occludin | OCLN | 25.92 | 0.12 |
| Tight junction protein 1 | TJP1 | 29.80 | 0.15 |
| Intestinal epithelial cell differentiation markers | Mucin 2 | MUC2 | 25.83 | 0.22 |
| Neurogenin 3 | NEUROG3 | 33.75 | 0.37 |
| Intestinal alkaline phosphatase | ALP | 26.91 | 0.76 |
| Stem cell markers | Olfactomedin 4 | OLFM4 | 22.19 | 0.91 |
| HOP homeobox | HOPX | 25.85 | 1.01 |
| Prominin 1 | PROM1 | 26.48 | 0.10 |
| SRY-box transcription factor 9 | SOX9 | 26.27 | 0.12 |
| Leucine-rich repeat-containing G protein-coupled receptor 5 | LGR5 | 30.38 | 0.68 |
| Transporters | Organic anion transporting polypeptide | Oatp2b1 | 32.41 | 0.28 |
|  | Oatp2b1 (liver tissue) (used as positive control) | 21.41 | 0.07 |
| Multidrug resistance p-glycoprotein | Mdr1 | 25.36 | 0.14 |
| Cytochrome P450 (CYP) enzymes | Cytochrome P-450 3a12 | Cyp3a12 | 27.40 | 0.70 |
| Cytochrome P450 2b11 | Cyp2b11 | 30.48 | 1.29 |
| Cytochrome P450 2C21 | Cyp2c21 (Cyp2c18) | 31.24 | 0.08 |
| *Homo sapiens* (human)(Caco-2-derived monolayers*)* | Housekeeping gene | Glyceraldehyde-3-phosphate dehydrogenase | GAPDH | 20.21 | 0.08 |
| Transporters | Organic anion transporting polypeptide 2B1/ solute carrier organic anion transporter family member 2B1 | OATP2B1 (SLCO2B1) | 28.11 | 0.10 |
| ATP binding cassette subfamily B member 1 | ABCB1 (MDR1) | 35.53 | 1.76 |
| Cytochrome P450 (CYP) enzymes | Cytochrome P450 family 3 subfamily A member 4 | CYP3A4 | 32.39 | 0.22 |
| Cytochrome P450 family 2 subfamily B member 6 | CYP2B6 | 33.22 | 0.30 |
| Cytochrome P450 family 2 subfamily C member 9 | CYP2C9 | 31.34 | 1.46 |
| Cytochrome P450 family 2 subfamily C member 19 | CYP2C19 | 38.34 | 0.06 |

Values are expressed as the arithmetic mean of the data and one standard deviation of “n = 3” monolayers.