**Supplementary Table 5**

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| --- | --- | --- | --- |
| Functions | Nutrient transport | Barrier function | Osmoregulation |
|  | *fabp2b* | *slc6a6*(10-1) | *slc10a2* | *pept* | *zo-1* | *Occludin*( ×10-1) | *claudin-25b* | *aqp10* | *aqp-1a*(10-2) | *ecc* |
| One-Way ANOVA |
| P (model) | 0.79 | 0.05 | 0.78 | 0.44 | 0.8 | 0.88 | 0.081 | 0.17 | 0.064 | 0.13 |
| Pooled SEM | 0.82 | 0.49 | 1.3 | 0.32 | 0.07 | 0.06 | 0.09 | 0.74 | 0.67 | 1.06 |
| Means values |
| FW-Ref | 4.4 | 5.5 | 8.1 | 3.1 | 0.7 | 0.28 | 0.9 | 5.62 | 7.3 | 5.7 |
| FW-Test | 4.4 | 5.7 | 9.7 | 2.7 | 0.7 | 0.29 | 0.9 | 5.96 | 9.2 | 2.5 |
| SW-Ref | 4.7 | 4.4 | 8.9 | 2.7 | 0.7 | 0.31 | 1.0 | 4.45 | 5.4 | 2.6 |
| SW-Test | 3.9 | 4.1 | 9.4 | 2.5 | 0.8 | 0.32 | 1.2 | 4.59 | 5.8 | 2.5 |

The gene expression in distal intestine of Atlantic salmon between treatments.

Abbreviation: fabp2b, Fatty acid binding protein 2b; slc6a6, Sodium and chloride dependent taurine transporter; slc10a2, Solute carrier family 10 member 2 a (ASBT); pept, Peptide transporter; zo-1, tight junction protein 1; claudin-25b, Claudine 25b; aqp-10, Aquaporin 10; aqp-1a, Aquaporin 1a; Ecc, Epithelial chloride channel protein.