

Supplementary Material S5. List of Gene Ontology terms of the biological process category enriched for the set of upregulated transcripts in gill tissue.

UPREGULATED

| term description | term number |
|---|--------------------|
| biological_process | GO:0008150 |
| positive regulation of cell growth | GO:0030307 |
| carbohydrate metabolic process | GO:0005975 |
| cellular catabolic process | GO:0044248 |
| protein folding | GO:0006457 |
| protein polyubiquitination | GO:0000209 |
| lipid metabolic process | GO:0006629 |
| intracellular transport | GO:0046907 |
| nucleobase-containing compound catabolic process | GO:0034655 |
| proteolysis | GO:0006508 |
| single-organism developmental process | GO:0044767 |
| cellular macromolecular complex assembly | GO:0034622 |
| protein complex subunit organization | GO:0071822 |
| generation of neurons | GO:0048699 |
| vesicle-mediated transport | GO:0016192 |
| response to oxygen-containing compound | GO:1901700 |
| protein complex assembly | GO:0006461 |
| cell cycle | GO:0007049 |
| response to external stimulus | GO:0009605 |
| positive regulation of transcription, DNA-templated | GO:0045893 |

DOWNREGULATED

| term description | term number |
|---|--------------------|
| microtubule-based process | GO:0007017 |
| energy derivation by oxidation of organic compounds | GO:0015980 |
| heterocycle biosynthetic process | GO:0018130 |
| aromatic compound biosynthetic process | GO:0019438 |
| cellular nitrogen compound biosynthetic process | GO:0044271 |
| organic cyclic compound biosynthetic process | GO:1901362 |
| biological_process | GO:0008150 |
| regulation of signal transduction | GO:0009966 |
| cellular protein modification process | GO:0006464 |
| nucleotide metabolic process | GO:0009117 |
| response to organic substance | GO:0010033 |
| single-organism transport | GO:0044765 |
| cell morphogenesis involved in differentiation | GO:0000904 |

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|---|------------|
| regulation of multicellular organismal process | GO:0051239 |
| purine-containing compound metabolic process | GO:0072521 |
| single-organism biosynthetic process | GO:0044711 |
| cell surface receptor signaling pathway | GO:0007166 |
| regulation of biological quality | GO:0065008 |
| anatomical structure morphogenesis | GO:0009653 |
| protein modification by small protein conjugation | GO:0032446 |
