# S2 Table. Primer and probes used for real-time PCR.

<table>
<thead>
<tr>
<th>Gene</th>
<th>Primer and probe sequence</th>
</tr>
</thead>
</table>
| IGF-1  | Forward: 5’-TGTGCCCTCTGTCCACGCTTT-3’  
                    | KC609005,KC609006  
                    | Reverse: 5’-AATGACTGTGCCCCTGTCAAGTC-3’  
                    | Probe: 6-FAM-TAGGTGTTCCTGGCATGTCTGTGAGCG-TAMRA |
| IGF-2  | Forward: 5’-TCTGAGAGAGGTCGCCACAC-3’  
                    | KC609007, KC609008  
                    | Reverse: 5’-TCTGTAGAGAGGTGGCCGACAC-3’  
                    | Probe: 6-FAM-TGGAGAGTGTTTCTCCCGTAGCTGTGACCT-TAMRA |
| MSTN-1a| Forward: 5’-ACACGCCCATCAAGTCCCAAAT-3’  
                    | KC609015, KC609016  
                    | Reverse: 5’-CTGGTCAAGAGTGTGAAAAG-3’  
                    | Probe: 6-FAM-ATTCAGAGATGGTTTCTCCCGTAGCTGTGACCT-TAMRA |
| MSTN-1b| Forward: 5’-CCGCACCTTAGATAATGAATCTGATG-3’  
                    | KC609017, KC609018  
                    | Reverse: 5’-TTGGTGGTGCCGTCGCCT-TAMRA |
| MyoD1a | Forward: 5’-TCCTGCGGAATGCCATCAG-3’  
                    | KC609013, KC609014  
                    | Reverse: 5’-GGACTGGACGTCCGATCGTC-3’  
                    | Probe: 6-FAM-ATTCAGAGATGGTTTCTCCCGTAGCTGTGACCT-TAMRA |
| MyoD1b | Forward: 5’-CCAGCCTTAGGATTTCTCTCTGATAACACA-3’  
                    | KC609011, KC609012  
                    | Reverse: 5’-GCCCTCCTGCCCAGCTGCTGTAACACA-3’  
                    | Probe: 6-FAM-TCGAGAGAGAATCTCTACAGACACGTCCACG-
| MRF4   | Forward: 5’-TGGTAGTTTATTGTTTCTGCTGTTCCATGAGG-3’  
                    | KC609009, KC609010  
                    | Reverse: 5’-GCTGACGTCGGTTCTTATACAGGCTAC-3’  
                    | Probe: 6-FAM-AAGAGAAACCCGACTTGGCAACGAGAAGTCGTCAG-TAMRA |
| CAST-L | Forward: 5’-GGGTAATAGTGTGATGTGTTTAAGG-3’  
                    | KC609003, KC609004  
                    | Reverse: 5’-GGGTAACTCAGTTCCATCAACATGTAACACT-3’  
                    | Probe: 6-FAM-ACAGAGCTCCCAATCTCATTACATAACCCTATCTATCTAGT-TAMRA |
| β-actin| Forward: 5’-GGAGAGCCTTGCTAGGTGC-3’  
                    | KC888023, KC888024  
                    | Reverse: 5’-CTCGTGCCCGCATGTGATGTA-3’  
                    | Probe: 6-FAM-CTGAGACGTCCCTGCTATCATCAACACT-3’ |
| ARP1   | Forward: 5’-GGGAATATCCATCAATGCTGGATG-3’  
                    | Purcell et al. (2004)  
                    | Reverse: 5’-CCCTCCAAGGAGACAGAAGA-3’  
                    | Probe: 6-FAM-CTGAGACGTCCCTGCTATCATCAACACT-3’ |
| 18s    | Life Technologies catalogue number 4308329  
                    | Purcell et al. (2004)  
                    | Life Technologies catalogue number 4308329  
                    | Life Technologies catalogue number 4308329 |

GenBank accession number or Taqman assay reference is provided below each gene.

1 Purcell MK, Kurath G, Garver KA, Herwig RP, Winton JR. Quantitative expression profiling of immune response genes in rainbow trout following infectious haematopoietic necrosis virus (IHNV) infection or DNA vaccination. Fish & Shellfish Immunology. 2004; 17(5): 447-62.