**Supporting information**

 

**Figure S1 Biofloc enriched suspension in seawater**

**Table S1 Specific primers and their sequence used for reverse transcriptase real-time PCR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene | Function |  | Primer sequence (5’ – 3’) | Product size (bp) | References |
| Flagella-related motility genes |
| flaA | Polar flagellin | F | CTGCGGGTCTTCAAATCTC | 205 | Yang and Defoirdt 2015 |
| R | GTTAGTGGTCTCGTTCATTGC |
| fliS | Polar flagellin specific chaperone | F | CTCCGCACAAAGTCATTCAA | 224 | Yang and Defoirdt 2015 |
| R | CAATGTCACCACCATCTTCC |
| cheR | Chemotaxis protein | F | ATGCGATGACGACTAACGA | 174 | Yang and Defoirdt 2015 |
| R | ACGCTTGGCAATAAACCTG |
| Marker gene indicate presence of non-virulent AHPND *Vibrio parahaemolyticus* phenotype |
| AlkPhoX | Alkaline phosphatase PhoX | F | GAACAAGATCGTATTGGTG | 254 | Kumar *et al.*, 2020 |
| R | CCAAACGCACAACCTTC |
| Virulent AHPND plasmid (responsible for toxin production) |
| PirBVP | Encodes PirBVP toxin  | F | ACTAGGCAAGGCTCATAAATATGACG  | 102 | Han et al. 2015 |
| R | ATTGCTTCAGGTCCATTGGCAATAA |
| ORF-14 | Copy number of the pVA1 plasmid  | F | GGCTCTTTCATAGGTGGTGTCATTC | 103 | Han et al. 2015 |
| R | CGACTACTATGCCGTTGAGTTGAAG |
| Reference gene |
| toxR | Endogenous control | F | AATCCATGGATTCCACGCGTTATTT | 103 | Han et al. 2015 |
| R | CACCAATCTGACGGAACTGAGATTC  |
| rpoA | RNA polymerase A submit (rpoA) (endogenous control) | F | CGTAGCTGAAGGCAAAGATGA | 197 | Yang and Defoirdt 2015  |
| R | AAGCTGGAACATAACCACGA |