**Data S1.**

|  |  |  |
| --- | --- | --- |
|  | **Common fish pathogens** | **Putative fish pathogens** |
| **Fish pathogen species** |  **(literature)** |  **(this study)** |
|  | **Turbot** | **Sole** | **Turbot** | **Sole** |
| *Aeromonas salmonicida*  | X |   |   |   |
| *Chryseobacterium scophthalmum*  | X |   |   |   |
| *Mycobacterium conceptionense* |   |   | X | X |
| *Mycobacterium marinum*  | X |   |   |   |
| *Photobacterium damselae*  | X  |   X | X |   |
| *Pseudomonas anguilliseptica*  | X | X |   |   |
| *Pseudomonas putida* |   |   | X | X |
| *Serratia liquefaciens* | X |   |   |   |
| *Serratia marcescens* |   |   | X | X |
| *Streptococcus infantarius* |   |   | X |   |
| *Streptococcus parauberis*  | X |   |   |   |
| *Tenacibaculum discolor* |   |   | X | X |
| *Tenacibaculum maritimum* | X | X |   |   |
| *Tenacibaculum soleae* |   |   | X | X |
| *Vibrio anguillarum*  | X | X | X | X |
| *Vibrio gallaecicus* |   |   | X |   |
| *Vibrio ichthyoenteri* |   |   | X | X |
| *Vibrio parahaemolyticus* |   |   | X | X |
| *Vibrio sagamiensis* |   |   | X | X |
| *Vibrio xuii* |   |   | X | X |