**Additional file 4: Table S3.** Exclusive proteins identified in human and fish-adapted GBS strains.

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| --- | --- | --- | --- |
| Accession | Cluster | Description | Host Exclusive in  |
| SaSA20\_0369 | Cluster0329 | 5-formyltetrahydrofolate cyclo-ligase | Fish |
| SaSA53\_0506 | Cluster0420 | Hypothetical protein | Fish |
| GBS\_RS05625 | Cluster0685 | Ribonuclease HII | Fish |
| SaSA20\_0983 | Cluster0788 | N-acetyl neuramic acid synthetase NeuB | Fish |
| SaSA20\_0989 | Cluster0793 | Polysaccharide biosynthesis protein CpsG | Fish |
| SaSA20\_1480 | Cluster1201 | 3'-5' exoribonuclease | Fish |
| SaSA20\_1574 | Cluster1277 | Bacteriocin transport accessory protein | Fish |
| GBS\_RS09930 | Cluster1278 | Malate dehydrogenase | Fish |
| SaSA20\_1598 | Cluster1294 | Flavoprotein | Fish |
| SaSA20\_1606 | Cluster1302 | PTS mannose transporter subunit IIB | Fish |
| SaSA20\_1629 | Cluster1316 | Hypothetical protein | Fish |
| SaSA16\_0843 | Cluster1475 | PhoB family transcriptional regulator | Fish |
| SaSA20\_0863 | Cluster1562 | Hypothetical protein | Fish |
| SaSA20\_1453 | Cluster1580 | Phenazine biosynthesis protein PhzF | Fish |
| SaSA53\_0595 | Cluster1713 | Gluconate 5-dehydrogenase | Fish |
| SaSA16\_1239 | Cluster1728 | Accessory Sec system protein Asp1 | Fish |
| GBS\_RS07210 | Cluster1749 | Hypothetical protein | Fish |
| GBS\_RS06055 | Cluster1759 | ATPase AAA | Fish |
| SaSA20\_1265 | Cluster1780 | Bleomycin resistance protein | Fish |
| GBS\_RS01380 | Cluster1823 | Hypothetical protein | Fish |
| GBS\_RS03805 | Cluster1906 | Beta-hexosamidase | Fish |
| SaSA20\_0640 | Cluster0512 | Penicillin-binding protein 2B | Fish |
| SaSA53\_1568 | Cluster1236 | Membrane protein | Fish |
| GBS\_RS05750 | Cluster1939 | Type VII secretion protein EsaA | Fish |
| SaSA20\_0091 | Cluster0101 | D-alanyl-D-alanine carboxypeptidase | Fish |
| SaSA16\_1707 | Cluster1339 | cAMP factor | Fish |
| GBS\_RS00775 | Cluster0115 | CTP synthetase | Human |
| SaSA20\_0108 | Cluster0118 | DNA repair protein radA | Human |
| SaSA20\_0127 | Cluster0135 | Hypothetical protein | Human |
| GBS\_RS07805 | Cluster0929 | Nucleotide sugar dehydratase | Human |
| GBS\_RS10725 | Cluster2091 | Transcriptional regulator | Human |