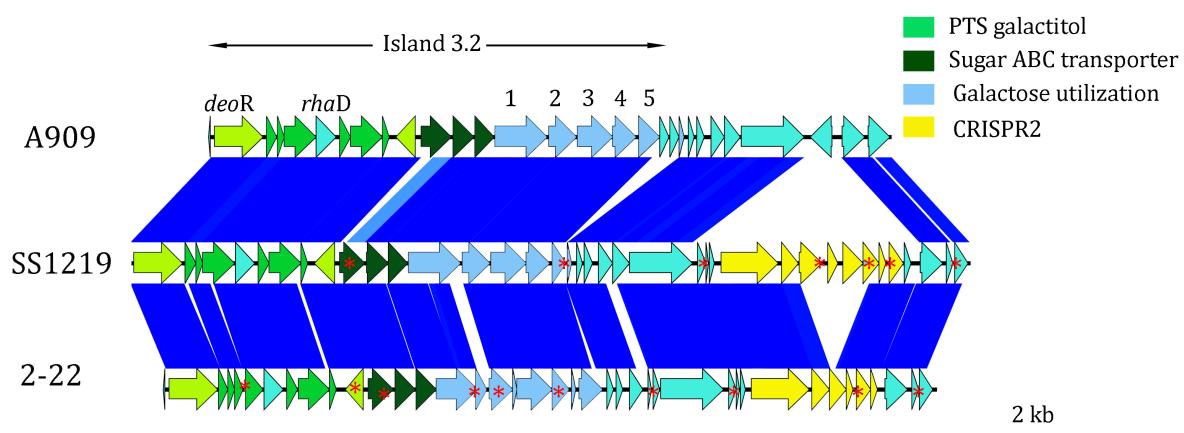
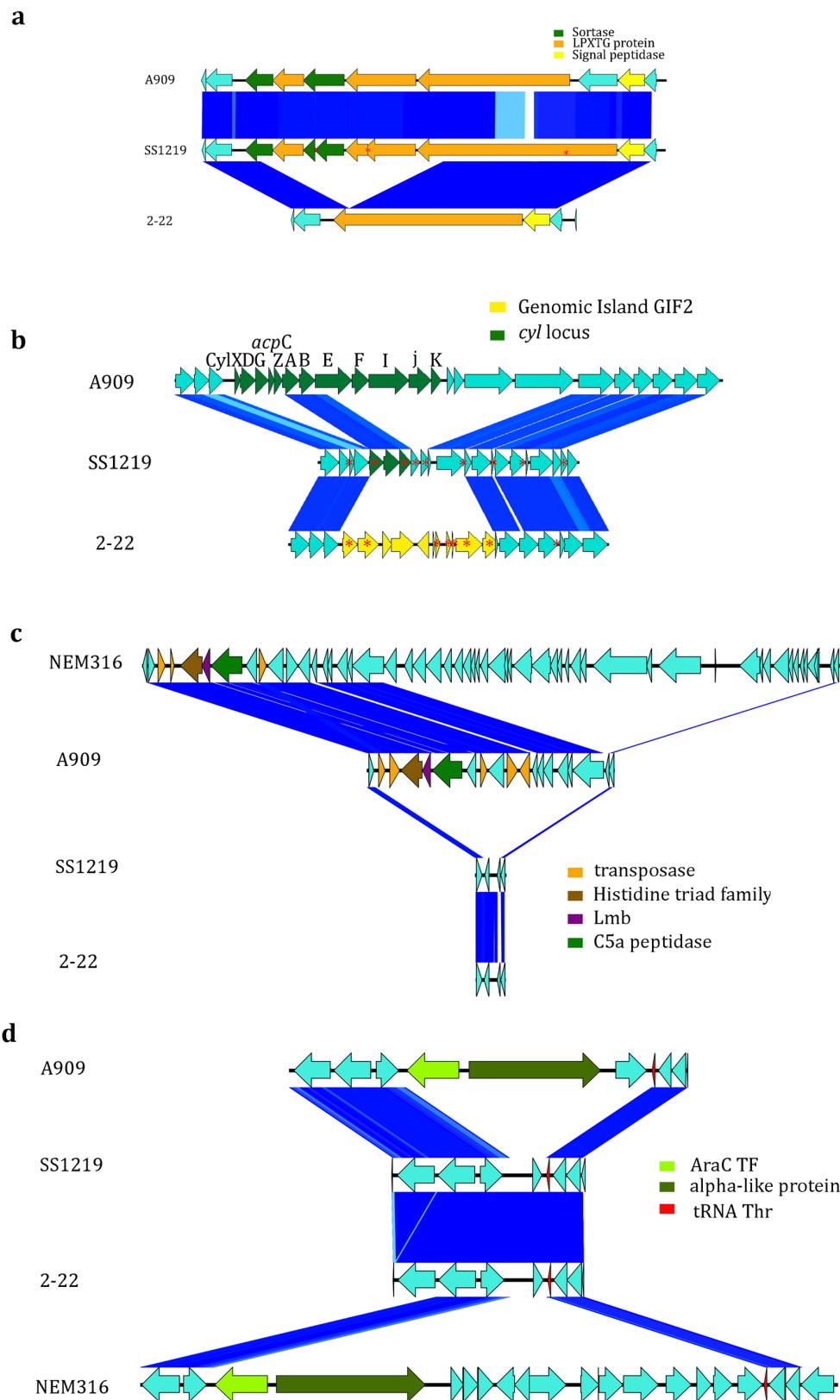


**Figure S1: Comparison of the genomic Island 3.2 in human and fish isolates.**

Alignment of region 3.2 of strain A909 on genomic sequence of strains 2-22 (ST261) and SS1219 (ST260). Regions with > 70 % nucleotide identity are indicated by blue bars. Genes coding for the two PTS for galactitol, for sugar transporter and for galactose utilization are shown. Pseudogenes are marked by red stars.

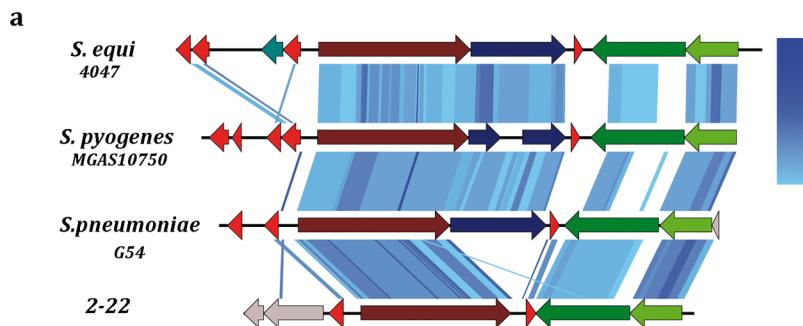


**Figure S2: Comparison of the organization of the *pil2* (a), *cyl* (b), C5a peptidase (c) and alpha-like protein (d) loci in ST260-261 strains versus strains isolated from human.**



**Figure S3: Organization of the *rgf* locus in ST260-261 strains.** (a): sequence comparison of the *rgf* locus in various streptococci; (b,c) : sequence comparison of the two bacteriocin-like peptides found in strain 2-22. (d) comparison of the locus in four *S. agalactiae* strains. *GBS222\_1615* encodes a putative bacteriocin\_II precursor with a double-glycine leader peptide leading to a 47AA-long peptide after cleavage. This peptide, similar to sanguinicin K11 [GenBank: ABX39517] and to a putative bacteriocin from *S. equi* lacks the YGNGVXC-motif characteristic of class II.1 pediocin-like bacteriocins. *GBS222\_1615* is associated with genes for a sensor histidine kinase and a response regulator (*GBS222\_1618-1619*), as well as for a BlpC-like peptide pheromone with a double-glycine leader peptide (*GBS222\_1617*) and a BlpA-like bacteriocin export ABC transporter (*GBS222\_1616*). Unlike in *S. thermophilus*, this locus lacks the gene for the accessory transporter protein that is however variably found in streptococcal Blp loci.

Red arrows: genes encoding bacteriocin-like peptides, brown arrows: bacteriocin export ABC transporter, dark blue arrows: accessory transporter protein, light green: response regulator, dark green: histidine kinase.



**b**

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GBS222_1615 MNVKSIEQQLEVMDEALSHVEGGIGHRWICSKNGKHTYTSAWLSEKTAAANARNHMALYPGSVCRVYHV
S. equi MNTKTVEPFSTMTADMLAGVEGGWGYRWRCT----DGYTSANHLLRDTAQENADNHMILYPGTCRVYN
Sanguinicin MDTKVMSQFDVLDENTLATEVEGGWGYVWQCS----NKYKAWHAQRRTAQENANYMRIHRGVVCAVFN
SAI_2022 MKHYHMLKVALVIDGYTVRT-----GKHTYTSAGHLSEKTAAANARNMGLYPGSVCRVYHV

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**c**

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GBS222_1617 MKQNTTLNFKTNFQELSPEQLNNITGGGWIDDIKKIINLDKLNFLRL
S. equi MDKPTRQ PKFQELTPSQLTQITGGGWEGLQKVPVSKPKLLK
S. mitis Blpc MDKNQNL TSFQELTTELNQITGGGWEDILYTLNIIKYNNNTKGLHHPIQ
S. pneumo MDKKQNL ASFQELTTELNQITGGGWEDILYSLNIIKHNNTKGLHHPIQ
SAN_2057 MELQL QELSPEQLNNITGGGWIDGIKIINLDKLNFLKL

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**d**

