```
                    105                                 143                                 171         180  185
                     ↓                                   ↓                                   ↓           ↓    ↓
SO_3237:            GANSSADLSALKAEMDQLANEIDEIGKTTAFGTTKLLAGGFSAGKNFQVGAQDGEDIKVTVKASNKSSLSVGS--LGNTTSAARASSLKK
SO_3238:            GANSTADLVSIKAEMDQLATEIDSIGNSTAFGNTKLLTGTFSAGKVFQVGHQEGEDIKVTVKASNKTSLSVGA--LNNATSANRASSLAK
Swoo_1609:          GANSADDIAALKAEMDQLATEIDAIGTSTAFGNTKLMTGGFSAGKTFQVGHQEGEDVKVTVKKTDKTSLSVGS--LALATSANRASALGA
Ssed_3075:          GANSADDIAALKAEMDQLVNEIDAIGTTTAFGNTKLMTGTFSAGKNFQVGHQDGEDIKVTVKKTDKASLSVNA--VVIATSANRASALGA
Ssed_3076:          GANSVDDIAALKAEMDQLVTEIDLIGTSTAFGNTKLLTGGFSAGKNFQVGHQDGEDIKVTVKKTDKASLSVNA--VVIATSANRASALGA
Swoo_1608:          GANSTEDLAALKAEMDQLATEIDNIGTSTAFGNTKLLQGGFSAGKIFQVGHQEGEDVKVVVKKTDKTSLSVAA--LNNATSANRASSLAA
Shew_1357:          GANSTADLQALKDEMDALATEITAIGTNTAFGDTKLLNGDFSAGKTFQVGHQDGEDIKVSVGKSDAAALSVNS--LTVLTSAGRASALTK
Sama_2306:          GANSADDLTSLKNEMDQLALEITAIGNTTAFGDTKLMTGGFSNGKKFQVGHQNAEDVTVTVKTNNAGTLSVGA--LDVTTSGGRSTAMLK
Shew_1356:          GANSTADLQALKDEMDQLAEEITAIGNSTAFGNTKLLTGEFSAGKLFQVGHQDGEDVTISVGTLNAGVLSVNS--LTVLTSAGRDSAIGK
Sden_1314:          GANSADDLTALKAEMDQLVTEITAIGNSTAFGNTKLMTGTFSTGKLFQVGHQEGEDVTVKVNTNNATSLSVGA--LTVLTSAGRNSALTK
Shal_1438:          GANSTDDIASIQKEIDALATEITSIGNSTAFGNTKLLDGGFSAGKSFQVGHQKGEDISVKVSKVNSSSLAVGG--LTLTNSANRQSALTK
Shal_1439:          GANSSDDIASIKKEIDALAGEITSIGNTTAFGNTKLMNGDFSAGKSFQVGHQKGEDITVKVQKVNASSLAVGS--LTLTNSANRQSALTK
Sden_1315:          GSNSADDLTALKAEMDDLALEITSIGTTTAFGSTKLMTGTFSAGKLFQVGHQEGEDVTIKVKKTDATALSVNA--LTVLTSAGRNSAITK
Sputcn32_2586:      GANSTDDLDAIQKEIDQLAEEITAIGDSTAFGNTKLMTGNFSAGKTFQVGHQEGEDITISVGTNNAGSLMVST--LTIATSGGRSTALAA
Sputw3181_1417:     GANSTDDLDAIQKEIDQLAEEITAIGDSTAFGNTKLMTGNFSAGKTFQVGHQEGEDITISVGTNNAGTLMVST--LAIATSGGRSTALAA
Sbal_2935:          GSNSTSDIGAIKSELDALATEITAIANTTAFGNTKLLDGSFSAGKTFQVGHQNGEDIKVSVGKVTASAIKVNASVILVSTAGQRSTSLSN
Sama_2307:          GANSADDLQAIQDEITQLITEITAIGNSTAFGNTKLMTGDFSAGKKFQVGHQEGEDVTITVNTNNATSLSVNA--VTVLTSAGRNSSLLK
Sputw3181_1418:     GANSTDDLDAIQKEIDELALEITEIGTNTAFGTTKLLDGTFSAGKTFQVGHQTGEDITISVAKTTASALKVGS--L-DITGSARASALAA
Sbal223_1428:       GSNSTSDIGAIKSELDALATEITAIANTTAFGNTKLLNGDFSAGKTFQVGHQNGEDIKISVSKVTASAIKVNASVILVSTAGQRSTSLTN
Shewana3_1332:      GANSTDDLDAIQKEINQLSEEITAIGDSTAFGNTLLMTGLFSTGKTFQVGHQEGEDITISVGTTNAGSLSVNA--LAIASAGGRSTALAN
Sputcn32_2585:      GANSSDDLTSIQKEIDQLALEITAIGTNTAFGTTKLLDGTFSAGKTFQVGHQSGEDITISVSKTTASALKVGS--L-DIKGSARASALAA
Shewana3_1333:      GANSTDDLDAIQKEIDQLALEITEIGDNTAFGSTKLLDGTFS-GKTFQVGHQSGEDITISVAKTTASALKVDS--L-DITGSARASALAA
Sbal223_1427:       GANSTSDIDAIKSEIDALASEISAIANSTAFGNTKLLDGSFSAGKTFQVGHQNKEDITVSVSKVTASALKVQASVVKVSTAAQRSASLTN
Sbal_2936:          GANSTSDIDAIKSEIDALASEISAIANSTAFGNTKLLDGTFSAGKTFQVGHQNKEDITVSVSKVTASALKVQASVVKVSTAAQRSASLTN
Shew185_2950:       GANSTSDKDAIQAEIDQLALEITAISNTTAFGDTKLLSGGFSA-KSFQVGHQEGENISISISGTDAGTLSVDA--LLVSSDSAASTSIGL
Sput200_2751:       GANSTSDIAALQAEYDQLVTEIDAIGANTAFGDTKVLDGTFTA-KNFQTGHTVAEAI--TVDIADMSGVGTAA--SGVVGTA----TLAL
Sput200_2750:       GANSPSDIDALQAEYDELVAEIDAIGANTAFGDTKVLDGTFAA-KDFQTGHTATE--KVTVDIADMSGVGTAA--TGVVGTA----TLAL
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Supplemental Figure 7: Alignment of the variable regions of *Shewanella* flagellins. Variable regions of *S. oneidensis* MR-1 FlaA and FlaB (aa 101-189) were aligned to corresponding flagellin sequences of *Shewanella* spp. harbouring flagellins with a similar domain structure (comprising between 260 and 280 aa). Modified residues in FlaB are marked with arrows and in red. At some positions, several flagellins have a threonine instead of a serine residue (marked in green) that might be similarly modified. Invariable residues are highlighted in yellow, and positions with a single amino acid variation are marked in grey. Locus tag coding: Swoo, *S. woodyi;* Ssed, *S. sediminis*; Shew, *S. loihica*; Shal, *S. halifaxensis*; Sden, *S. denitrificans*; Sputcn32, *S. putrefaciens* CN-32; Sputw3181, *S.* sp. W3-18-1; Shewana3, *S.* sp. ANA-3; Sbal183, *S. baltica* OS183; Shew185, *S. baltica* OS185; Sput200, *S. putrefaciens* 200.