Supplementary Data 2

Table S2. Peptides, identified in the *Streptococcus* spp. strains analyzed, that represent virulence factors.

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| --- | --- | --- | --- | --- |
| **Function** | **Strain** | **Protein** | **Peptide** | **100% sequence identity by NCBI** |
| Toxins | ST1 | Toxin RelE | LLATISM\*IQEQGVLIAQRM\*EWVKK | *Streptococcus suis* |
| ST3 | Antitoxin RelB | VFKENNLNTAQALNLFLKNVAETGQLNLK | *Streptococcus gallolyticus* |
| ST12 | Antitoxin YefM | NTYLSQKVLRGM\*AK | *Streptococcus suis* |
| ST2 | Toxin YoeB | LIYM\*M\*DGDNVAFLSFKDHY | *Streptococcus mitis* |
| ST11 and ST12 | Pyrogenic exotoxin SpeK | NIYAPRYDEDEILDNR | *Streptococcus dysgalactiae* subsp. *dysgalactiae,*  *Streptococcus dysgalactiae* |
| ST3 | Beta-class phenol-soluble modulin | LGTSIVDIVESGVSVLGK | *Staphylococcus epidermidis* |
| ST9 | Doc toxin | LYPTLFDKATILFVQLVKK | *Streptococcus sobrinus Streptococcus downei* |
| Antibiotic resistance | ST3 | MarR family transcriptional regulator | M\*DYQRINDYLTSIFNNVLVIEEM\*SLRGSR | *Streptococcus* spp. |
| ST4 | MarR family transcriptional regulator | FNRFILAFEQLKK | *Streptococcus oralis* |
| ST2 | MarR family transcriptional regulator | EM\*QQYVDLQGAYLALVKEEFAKAGLLPLK | *Streptococcus downei* MFe28 |
| ST9 | MurM protein | QSLQRYLSEFRGFLDK | *Streptococcus equi* |
| ST8 | Beta-lactamase class A | FSITDVLVNSKKELVFQIDDK | *Streptococcus suis* |
| ST6 | Beta-lactamase class A | LVPDQPIQITGFYVNEEEVPIFKLKNGQFVIADK | *Streptococcus sanguinis* |
| ST3 | TipAS antibiotic-recognition domain | EVASDEVQGATKRLM\*QK | *Bacillus cereus, Bacillus thuringiensis, Bacillus anthracis, Bacillus tropicus, Streptococcus pneumoniae* |
| ST3 | Cell wall-active antibiotics response protein | DTIHLERVILSNHDNVIILRK | *Streptococcus pseudopneumoniae, Streptococcus* sp.HMSC061D10*, Streptococcus* sp.SK140 |
| ST10 | Streptomycin adenylyltransferase | M\*RTETDM\*FDVILQTAKVLQVDAVAM\*SGSR | *Streptococcus cristatus* |
| ST1 | Penicillin binding protein | ASKEEILTFYINKVYM\*ANGYYGM\*R | *Floricoccus penangensis* |
| ST12 | Penicillin binding protein | VQESAQNAGDTIGRAVK | *Streptococcus gallolyticus, Streptococcus macedonicus, Streptococcus pasteurianus* |
| ST14 | Glyoxalase/Bleomycin resistance protein | M\*ITSLYPVLM\*C\*ENLEATANFFIENFQFR | *Streptococcus* sp. *DD11* |
| ST1 | M56 peptidase | FSHGQTAHETIVNAKDGKLVK | *Streptococcus sanguinis* |
| Other resistances | ST4 | TelA protein | DSLQEFYFDSKSIEQKM\*DGM\*AAAVVK | *Streptococcus iniae* |
| ST9 | MerA mercuric reductase | LLKEYDPEISEAITK | *Streptococcus mitis* SK579, *Streptococcus mitis, Streptococcus pneumoniae, Streptococcus mitis* SK1073, *Streptococcus oralis, Weissella thailandensis, Enterococcus faecium, Aerococcus* sp. *1KP-2016, Dialister micraerophilus, Rothia* sp.HMSC065G12*, Bacillus cereus,Leuconostocaceae bacterium, Streptococcus gordonii, Lactobacillus parafarraginis, Solibacillus isronensis, Bacillus megaterium, Pantoea agglomerans.* |
| ST1 | MerR family transcriptional regulator | LEDHLLDLKAK | *Streptococcus agalactiae, Streptococcus halotolerans, Streptococcus thoraltensis, Streptococcus acidominimus* |
| Colonization and immune evasion | ST1 | N-acetylmuramoyl-L-alanine amidase | M\*KKVILASTVALSILGFTQATVQAQENNAESVR | *Streptococcus mitis* |
| ST8 | N-acetylmuramoyl-L-alanine amidase | LIKPQPKPQPQPQPKPQTKPVSK | *Peptostreptococcus anaerobius* |
| ST10 | N-acetylmuramoyl-L-alanine amidase | VLKHIEDESLIK | *Peptostreptococcus anaerobius* |
| ST7 | N-acetylmuramoyl-L-alanine amidase | LVEIAFIDNNSDM\*ATYEANK | *Streptococcus dysgalactiae, Streptococcus urinalis, Streptococcus porcinus, Streptococcus agalactiae, Streptococcus pluranimalium, Streptococcus suis* |
| ST14 | N-acetylmuramoyl-L-alanine amidase | SM\*IKTAILSLIAIFVIVPTASADNSVSRIDGGSR | *Bacillus altitudinis, Bacillus* spp. |
| ST2 | LysM domain | TLNSLKSDTIYPNQVLK | *Bacillus* spp. |
| ST5 | LysM domain | VEEPATPAPKAEEPATPAPK | *Streptococcus mitis, Gemella haemolysans, Streptococcus pseudopneumoniae, Streptococcus oralis* |
| ST6 | Bifunctional autolysin | KGSIIGLIGLLIILVAAGFIFFSM\*ISDQIFFKK | *Staphylococcus hominis, Mycobacteroides abscessus sub*sp. *Abscessus, Bacilli,* |
| ST8 | Lysin | AGAIFVKREASHDYGHTGVVIK | *Streptococcus phocae* |
| ST10 | Lysozyme | LIIFLLVFLFAFQTYR | *Streptococcus henryi* |
| ST4 | Lysozyme M1 (1,4-beta-N-acetylmuramidase) | LNPM\*IVVVFFLSFFALIFITGVTGNTVNK | *Streptococcus suis* |
| ST3 | CLpX ATPases | EENDVDLQKSNILM\*IGPTGSGKTFLAQTLAR | *Streptococcus vestibularis* |
| ST5 | CLpX ATPases | SIIEETM\*LDVM\*FEVPSQENVKLIRITK | *Streptococcus pneumoniae* |
| ST5 | CLp ATPases | WIGDAQKRTK | *Streptococcus agalactiae, Streptococcus canis, Streptococcus equi,*  *Streptococcus castoreus, Streptococcus dysgalactiae* |
| ST9 | CLp ATPases | RTIQDHIEDAITDYYLEHPK | *Streptococcus cristatus, Streptococcus gordonii* |
| ST8 | CLp ATPases | ENLLQIVELM\*LADVNKRLSSNNIHLDVTDK | *Streptococcus pneumoniae, Streptococcus mitis* |
| ST8 | CLpC ATPases | EDVVKLIGNRATR | *Streptococcus sinensis, Streptococcus anginosus* |
| ST14 | CLpX ATPases | NNPVLVGDAGVGKTVLALGLAQR | *Streptococcus suis, Streptococcus pneumoniae* |
| ST3 | CLp ATPases | IM\*VQPLIAHLAEKNISLK | *Streptococcus macacae* |
| ST9 | CLpX ATPases | SIIEEIM\*M\*DVM\*FDVPSDESIEKVIITK | *Enterococcus gallinarum, Enterococcus faecalis, Listeria monocytogenes, Bacilli* |
| ST7 | CLp ATPases | ETIKAIHDLRKPK | *Streptococcus castoreus, Streptococcus ictaluri* |
| ST3 | CLpC ATPases | IDEIIVFHSLEKKHLTEIVSLM\*SDQLTK | *Pseudomonas* sp. *GW456-E7 Bacillus vallismortis, Bacillus subtilis, Bacillus intestinalis Bacillus tequilensis* |
| ST6 | Neuraminidase A | SLVLPKLPGQVSLIGSNKQGVVDLNNK | *Streptococcus* sp.HMSC074B11, *Streptococcus pseudopneumoniae, Streptococcus* sp.HPH0090, *Streptococcus* sp*.* oral taxon431, *Streptococcus mitis, Streptococcus* sp.UMB0029, *Streptococcus* sp.LQJ-218, *Streptococcus infantis* |
| ST6 | Sialidase B | NAPYLGPGRGIIESSTGRILIPSYTGK | *Streptococcus pneumoniae, Streptococcus mitis, Streptococcus pseudopneumoniae,*  *Streptococcus infantis* |
| ST13 | Sialidase A | VPLVTSGDYSGSPINM\*DM\*ALVQDTSSKTK | *Streptococcus agalactiae* |
| ST14 | Sialidase A | VPTLQLANGKTARFM\*TQYDTK | *Streptococcus pneumoniae, Streptococcus oralis* |
| ST3 | Sialidase A | EDVETNTSNGQRVDLSSELDKLK | *Streptococcus pneumoniae* |
| ST10 | Choline binding protein (Cbp) | TGWVKDKGTWYYLDK | *Streptococcus pneumoniae* |
| ST2 | Choline binding protein (Cbp) | EGSTWYYLKGSGAM\*ATGWATANGQWSYFEK | *Streptococcus mitis* |
| ST7 | PspA | TEQVLLTEAVQQVQR | *Streptococcus gordonii, Streptococcus cristatus* |
| ST4 | PspA | DLDAADKALEAAQAELKAR | *Streptococcusmitis* |
| ST4 | Ig A1 protease | GTESEAAKPAPKEAGTTAGNEVK | *Streptococcus pneumoniae* |
| ST2 | Ig A1 protease | NNDKYYAIYNLK | *Streptococcus* sp*. 596553, Streptococcus pneumoniae* |
| ST2 | Ig A1 protease | KKVM\*GLLLIGSM\*GQSLLLSIDAAALQNIELR | *Streptococcus* spp. |
| ST13 | Sortase A | AKVGM\*TIYLTDKSM\*IYTYK | *Streptococcus gallolyticus, Streptococcus macedonicus, Streptococcus pasteurianus, Streptococcus henryi,* |
| ST14 | Sortase C | M\*IGAGAIIVGAVLFALYR | *Bacillus cereus* |
| ST2 | Sortase B | NFLIGQQSNHYQVSKVSKK | *Streptococcus macedonicus, Streptococcus gallolyticus, Streptococcus pasteurianus, Streptococcus lutetiensis,* |
| ST4 | Sortase A | YYYEAAFLIIVPENTAFYK | *Streptococcus azizi,*  *Streptococcus acidominimus* |
| ST6 and ST13 | C5A peptidase | EDISGEEASAPQTSPQESPVEPEEVTRGR | *Streptococcus suis* |
| ST2 | C5A peptidase | YPDKSPAEISELVKALIM\*STAKPHINK | *Streptococcus anginosus* |
| ST13 | M protein | LM\*EERARHVDLIDNIR | *Streptococcus pyogenes* |
| ST1 | M Protein | SVAVAVAVLGAAFANQTEVK | *Streptococcus pyogenes* |
| ST1 | M Protein | AEAVSRSNSEQNNLEKR | *Streptococcus pyogenes* |
| ST14 | M Protein | IVAVALTVVGAGFANQTEVK | *Streptococcus pyogenes* |
| ST11 | M Protein | YVEKSYHLLSDFIDQISSTYNFKIDNK | *Streptococcus cristatus* |
| ST9 | Mga protein | KVLLTFFLDKR | *Streptococcus pseudoporcinus* |
| ST14 | Mga protein | VLEKIAPYFDM\*PHDKIVK | *Weissella confusa,*  *Streptococcus pneumoniae* |
| ST7 | Mga protein | KHHLALSERLVLTGDEISVR | *Weissella confusa,*  *Streptococcus pneumoniae* |
| ST5 | O-acetylase OafA | IVPPLVM\*M\*ILLIIPFTFLVR | *Streptococcus henryi* |
| ST10 | Superoxide dismutase | FGSGWAWLVVNPDGKLEVM\*STANQDTPISEGK | *Streptococcus anginosus, Streptococcus anginosus sub*sp. *anginosus, Streptococcus constellatus* subsp. *constellatus, Streptococcus* sp.8400103 |
| ST14 | Superoxide dismutase | FGSGWAWLVVNKDGKLEVTSTANQDTPLSEGK | *Streptococcus infantarius, Streptococcus equinus* |
| ST6 | Peptidoglycane-N-acetylglucosamine deacetylase | DAELYQTYFAQK | *Streptococcus oralis* |
| ST4 | Type II secretion system protein F | QFLLPQLM\*ENDANSYSK | *Enterococcus faecalis* |
| ST6 | CpsB | KGM\*FETPEEKIAENFLQIR | *Streptococcus pneumoniae* |
| ST1 | CpsC | EIILSQDVLEKVATDLKLELPPK | *Streptococcus* sp.1643, *Streptococcus oralis* |
| ST5 | CpsC | EIIISQDVLEEVVSDLKLDLTPK | *Streptococcus pneumoniae* |
| ST13 | CapD protein | KLTDYVIDLVEILNK | *Streptococcus pneumoniae, mitis, pseudopneumoniae, oralis, australis, Streptococcus* sp.M334 |
| ST3 | Accessory pilus subunit | NNVKTYLLKIK | *Streptococcus suis* |
| ST13 | Flp pilus assembly protein CpaB | KEELPDSAILNLK | *Bacillus* spp. |
| ST8 | Pilin protein FimC | SRFGDAADKAASLSAK | *Streptococcus sanguinis* |
| ST12 | Agglutinin receptor | TVETIQSTNEQAVADYLTKKTK | *Streptococcus suis,*  *Streptococcus agalactiae* |
| ST3 | Agglutinin receptor | VESAVSLAKEAGLTVK | *Streptococcus mitis* |
| ST7 | Agglutinin receptor | TIDPSVHQYGQQELDALVK | *Streptococcus oralis, Streptococcus* sp.CM6, *Streptococcus* sp.SR1 |
| ST9 | Agglutinin receptor | TTSLM\*FEDYLPAGYLFDLEKTLAENGDYEVTFDASK | *Streptococcus canis* FSL Z3-227 |
| ST2 | Bacillolysin | NPDWEIGEDIYTPGK | *Bacillus* spp. |
| ST1 | Collagen adhesion protein | VTVVAGQVAKVNFNNVLK | *Streptococcus suis, Eubacterium* sp. *marseille-*P5640*, Bariatricus massiliensis, Clostridium innocuum, Faecalicatena orotica, Lachnospiraceae bacterium, Pseudoflavonifractor* sp. *Marseille-*P3106*, Clostridium clostridioforme, Clostridiaceae bacterium, Caproiciproducens galactitolivorans, Clostridioides difficile* |
| ST11 | Adhesin | WLLKYNNITPFAQKNLVFYDEQVDSR | *Streptococcus* sp.I-P16*, Streptococcus australis, Peptoniphilus lacrimalis* DNF00528 |
| ST8 | adhesin P1/ Cell surface antigen I/II | ADYEAKLAKYQADLAK | *Streptococcus mutans, Streptococcus intermedius, Streptococcus anginosus* |
| ST7 | CppA protein | NLFQGRENFIPK | *Streptococcus anginosus* |
| ST9 | Transposase TcpC | TLEQFLDGYVSRYFTYDSQAGSSDENISK | *Streptococcus pneumoniae, Streptococcus oralis, Streptococcus* sp.HMSC056C01, *Streptococcus* sp.SK140, *Streptococcus infantis* SK1302 |
| ST5 | LytR family transcriptional regulator | AHTVQIITEEASFNM\*VQNLSNLENQYGETLM\*R | *Streptococcus oralis* |
| ST14 | General stress protein 17 | M\*KPVVKEYTNDEQLM\*KDVEELQK | *Bacillus, Bacillus subtilis* |
| ST2 | Asp23 protein | SGLSGGFSAVQEKVGEGVEAVKDAASSNENTR | *Streptococcus cristatus* |
| ST12 | Asp23protein | KM\*TDLDVIEVNVKVVDIK | *Streptococcus phocae, Streptococcus canis, Streptococcus ictaluri, Streptococcus pyogenes, Streptococcus dysgalactiae, Streptococcus dysgalactiae* subsp. *equisimilis, Streptococcus dysgalactiae* subsp. *dysgalactiae, Streptococcus dysgalactiae* subsp. *equisimilis* SK1249 |
| ST14 | Asp23 protein | ATEDGSIAVDVYTVLSYGTKISEVSKNIQER | *Streptococcus infantis, Streptococcus oralis, Streptococcus mitis* |
| ST2 | Type VII secretion protein EsaA | NSDVSTALSNIWFEAIDSNLKK | *Streptococcus oralis* |
| ST2 | Type VII secretion protein EssB | LRLALNLLDLEQALSLPVTFFLHPENLFITK | *Streptococcus pantholopis* |
| ST8 | Type VII secretion protein EssB | LEFVREDNQISVQISSSGYRR | *Streptococcus* sp.*,*  *Streptococcus mitis* |
| ST14 | Virulence factor | VFGQTDETTIPLLANALADSM\*NQSELETLPR | *Streptococcus macedonicus, Streptococcus equinus* |
| ST3 | Virulence-associated protein E | M\*KATVDNYVLVLRNDPYISESLK | *Streptococcus pasteurianus* |
| ST9 | Equibactin | LYEISLKVADC\*LGKNGVK | *Streptococcus equi* |
| Antimicrobial production | ST3 | Bacteriocin | WTSKSSKAYAYAGQTSYAFIK | *Streptococcus salivarius* |
| ST2 | Bacteriocin | M\*SQKIGIM\*M\*NIK | *Streptococcus intermedius* |
| ST14 | Bacteriocin-associated integral membrane protein | AIAVGFSLAGVLAILM\*QK | *Streptococcus pneumoniae* |
| ST4 | LanT protein | QNVDKLHFTRFDK | *Streptococcus pneumoniae* |
| ST12 | LanM protein | RAATKFM\*INTDC\*PSK | *Streptococcus pneumoniae* |
| ABC transporter | ST2 | Metal ABC transporter | DGADYISVM\*QDNLKALEK | *Streptococcus varani* |
| ST6 | Metal ABC transporter | VPSAYIWEINTEEEGTPDQISSLIEK | *Streptococcus pyogenes, Streptococcus equi* subsp. *zooepidemicus* Sz105, *Streptococcus canis, Streptococcus castoreus, Streptococcus porcinus, Streptococcus ictaluri, Streptococcus equi* |
| ST4 | Nickel ABC transporter | SQPM\*NTKM\*IVANAGNKDSAVSDK | *Staphylococcus warneri* VCU121, *Staphylococcus warneri, Streptococcus pneumoniae* |
| ST10 | Copper ABC transporter | SM\*PDAIYLFTLLKVAC\*M\*GLTSFYSLR | *Streptococcus infantarius, Streptococcus lutetiensis, Streptococcus equinus, Streptococcus* sp.CNU 77-61, *Streptococcus* sp.KCJ4932 |
| ST1 | Copper ABC transporter | NNLTLYENQYSLPIAFASQSIYNNVK | *Streptococcus mitis* |
| ST10 | Zinc ABC transporter | AVIARM\*FASDPNIFVLDEPTTGM\*DAGSK | *Streptococcus* spp. |
| ST3 | Zinc ABC transporter | TIYKNFM\*EIGTAILM\*STGLAISLIVM\*SKGK | *Streptococcus cristatus, Streptococcus* sp.HMSC062B01, *Streptococcus gordonii,* |
| ST2 | Cobalt or another cation ABC transporter | DGKLREVFQIPSYEM\*TQVASK | *Streptococcus pneumoniae* |
| ST3 | Cobalt ABC transporter | LSSDPVEVTQYYIEKGGPNV | *Streptococcus salivarius* |
| ST2 | Cobalt ABC transporter (CbiM) | IISKDPNSKTM\*LALSGAFIFILSSLK | *Streptococcus australis, Streptococcus parasanguinis* |
| ST4 | FeoABC transporter (FeoB) | LM\*DM\*GLTHHTKIYLRK | *Streptococcus gallolyticus* |
| ST10 | FeoABC transporter (FeoB) | RNLQLTIQLLELNVPVM\*IGLNM\*IDVSAK | *Staphylococcus warneri, Staphylococcus epidermidis, Mycobacteroides abscessus* subsp. *abscessus* |
| ST9 | FeoABC transporter (FeoB) | EATGNQNISPNLTISNAQLNLEDKNK | *Streptococcus dysgalactiae* |
| ST1 | Bacitracin ABC transporter (BceAB) | TVLGFGC\*FVVQLVVIILVAYANGYVM\*K | *Streptococcus* sp.HSISM1, *Streptococcus parasanguinis* |
| ST14 | Bacitracin ABC transporter (BceAB) | QNIIALIQENGIKKSVLAK | *Streptococcus* sp.SK643, *Streptococcus pseudopneumoniae* |
| ST2 | Bacitracin ABC transporter | SVEYPEKIATLLVNAGYPPK | *Streptococcus sanguinis* |
| ST9 and ST12 | Bacteriocin ABC transporter | VNKGEFIAIM\*GESGSGK | *Streptococcus phocae* |
| ST9 | Bacteriocin ABC transporter | M\*IVNFYTPNHGQITLGDYDLK | *Streptococcus gallolyticus* |
| ST4 | Bacteriocin ABC transporter | KTVEDLSM\*M\*KGDM\*TFK | *Streptococcus oralis, Streptococcus* sp.NPS 308, *Streptococcus* sp.oral taxon 071str. 73H25AP, *Streptococcus mitis, Streptococcus* sp.VT 162, *Streptococcus australis, Streptococcus pseudopneumoniae, Streptococcus halitosis, Streptococcus* spp. |
| ST9 | Lantibiotic Mutacin ABC transporter protein (MutE) | LM\*VPILNILPNGLPAGTDAVVAPK | *Streptococcus sobrinus* |
| ST4 | Lantibiotic ABC transporter | STIM\*KIIFGLENADSGAIVFNGGKNAGK | *Streptococcus mitis* |
| ST2 | Amino acid ABC transporter | TIDLSQPITTETLLWVR | *Weissella confusa* |
| ST2 | Amino acid ABC transporter | QVLFTKPYM\*ANKQVLVTKK | *Floricoccus penangensis* |
| ST14 | Amino acid ABC transporter | M\*VDGKNQVVGADIGM\*AQAIADELGVK | *Streptococcus oralis* |
| ST5 | Amino acid ABC transporter | LINFAHGDIYM\*VGAFM\*GYFLLNSLK | *Streptococcus australis* ATCC 700641*, Streptococcaceae bacterium, Streptococcus parasanguinis, Mycobacterium tuberculosis,* |
| ST3 | Amino acid ABC transporter | NLTDKSQM\*NIGIFFAIIALVVIWFLM\*KK | *Streptococcus parasanguinis* |
| ST13 | Amino acid ABC transporter | TGVPLLTPSGTQDDLTVDAK | *Streptococcus* sp.449\_SSPC, *Streptococcus salivarius,* |
| ST14 | Amino acid ABC transporter | VIFM\*DKGIIAEEGKPEDLFTNPKEER | *Streptococcus* sp.oral taxon 058, *Streptococcus oralis* |
| ST13 | Amino acid ABC transporter | IVLPQAFRIALPNLTTALLNLM\*R | *Streptococcus* sp.AS14, *Streptococcus sanguinis, Streptococcus cristatus, Streptococcus* sp. *CCH8-C6* |
| ST9, ST13 and ST14 | Amino acid ABC transporter | NLLLAPVKVQKR | *Streptococcus* sp.45, *Streptococcus infantarius, Streptococcus* sp. KCJ4932, *Streptococcus infantarius sub*sp. *infantarius* CJ18*,*  *Streptococcus lutetiensis* 033, *Streptococcus infantarius, Streptococcus equinus* |
| ST10 | Glutamine ABC transporter | DASLAPM\*FVAGAIYLIM\*IGLVTLISKQVEK | *Streptococcus* sp.DD13 |
| ST13 | Glutamine ABC transporter | KDEVIKEAENLLER | *Streptococcus sanguinis* |
| ST14 | Glycine/betaine ABC transporter | YDLQVLEDDKQLFPPYQGAPLM\*KEDLLK | *Streptococcus oralis, Streptococcus mitis* |
| ST2 | Glycine/betaine ABC transporter | QEITLAYVEWDSEVASTNVLAEVLKTK | *Streptococcus infantarius* |
| ST4 | Glycine/betaine ABC transporter | AKLRTIVAAFAVM\*VLGLGASYAPSM\*IPSK | *Streptococcus infantis* |
| ST14 | Oligopeptide ABC transporter | KNVQM\*IFQDPQASLNAR | *Streptococcus infantarius, Streptococcus lutetiensis* |
| ST1 | Multidrug ABC transporter | QLQQYIYESLLTTSVK | *Streptococcus suis* |
| ST4 | Multidrug ABC transporter | SGSKALKQLQQYIYESLLTTSVK | *Streptococcus suis* |
| ST10 | Multidrug ABC transporter | LESKEIDENSIVSK | *Streptococcus pneumoniae, Streptococcus salivarius, Streptococcus* sp.HMSC068F04, *Streptococcus* sp.FDAARGOS\_192, *Streptococcus* sp.SR4, *Streptococcus thermophilus, Streptococcus* sp.C150, *Streptococcus* sp.HMSC064H09,  *Streptococcus* sp.HMSC064H03, *Streptococcus* sp.HSISS2 |
| ST2 | Multidrug ABC transporter | AQGTLADLQATFGDASASLNDIYLALTKEV | *Streptococcus phocae* |
| ST1 | Multidrug ABC transporter | YLLNLDEKQINIAPHLTINHLK | *Streptococcus* |
| ST1 | Multidrug ABC transporter | M\*PTAFYLFFSSM\*YQDTPGGPANFM\*R | *Streptococcus pneumoniae* |
| ST5 | Multidrug ABC transporter | TTLIM\*VSQRTNSLAK | *Streptococcus* sp. *caviae* |
| ST7 | Multidrug ABC transporter | FPNAFYLSM\*SILLVQAVLNM\*R | *Streptococcus pantholopis* |
| ST3 | Multidrug ABC transporter | SGVVLSLLGAM\*ISFILYLVFLKANIK | *Streptococcus* sp.HMSC066E07, *Streptococcus anginosus* |
| ST13 | Choline ABC transporter | IIIAIASM\*LQTIPSLALLALM\*IPLFGIGK | *Streptococcus agalactiae,*  *Listeria monocytogenes, Streptococcus agalactiae* |
| ST7 | Multidrug ABC transporter | IAYLPQEGALFHDTVLYNLTIGREVPEDR | *Streptococcus suis* |
| ST14 | Macrolide ABC transporter (MacB) | STLM\*NIIGM\*LDRPTSGEYYLEGEEVAKLSEK | *Streptococcus anginosus, Streptococcus* sp.KCOM 2412, *Streptococcus* sp.HMSC057E02 |
| Other Transporters | ST8 | Manganese transport protein MntH | GKEFLPFVNHSAIAGILTTGVM\*R | *Staphylococcus warneri* |
| ST2 | Manganese transport protein MntH | YLLLSVVLISSLIAM\*QLQQM\*AGKLGIVTQK | *Streptococcus equinus, Streptococcus* sp.KCJ4950 |
| ST6 | HlyC/CorC family transporter | TAPVIIFLGKIVSPFVWLLSASTNLLSQM\*TPM\*K | *Streptococcus cristatus, Streptococcus* sp. *marseille-*P644, *Streptococcus* sp. *marseille-*P7375 |
| ST4 | HlyC/CorC family transporter | ISNYIHELPM\*ISETTR | *Staphylococcus* spp. |
| ST2 and ST8 | HlyC/CorC family transporter | DEIIGM\*VNVKDLFIR | *Bacillus* spp. |
| ST4 | Metal-binding protein | KAILQLETLAC\*PTC\*M\*QK | *Streptococcus gallolyticus, Streptococcus macedonicus, Streptococcus infantarius, Streptomyces xinghaiensis, Lactobacillus delbrueckii, Enterococcus cecorum, Lactobacillus delbrueckii, Aeriscardovia aeriphila, Lactobacillus porci,*  *Lactobacillus agilis, Bifidobacterium pseudolongum, Enterococcus cecorum.* |
|  | ST4 | Multidrug MFS transporter | M\*VIVLC\*SILIAIVVLGAFVFPVK | *Streptococcus agalactiae, Enterococcus faecalis* |
| ST2 | multidrug efflux MFS transporter (NorA) | ILGGFSAGM\*VM\*PGVTGM\*IADISK | *Bacilli, Staphylococcus* spp.*, Staphylococcus hominis* |
| ST9 | Multidrug transporter MatE | AM\*LIM\*SLGAGINIVLDPVLM\*IM\*FK | *Streptococcus intermedius, Streptococcus* sp.AS20 |
| ST14 | MFS Lantibiotic transporter | DLWC\*NM\*IIAAK | *Streptococcus dysgalactiae* |

(M\* methionine oxidation; C\* carbamidomethylation of Cys).