

Table S1. Primer sets for 23S rRNA and ribosomal proteins in staphylococci

	Primer	Sequence (5'-3')
23S rRNA	SA-23S-F	CGATTTGGGCACTGTCTCA
	SA-23S-R	TGTGAACTCTTGGGGGAGAT
	SE-23S-F	CCCTAGCTGTGTTGGCTTTC
	SE-23S-R	TCGTCATCTTCGAGGGATCT
	SSC-23S-F	GTTCCCTCAGAATGGTTGGA
	SSC-23S-R	GTGCTTACACCCCGAACCTA
	SSM-23S-F	GCATAAGGGAGCTTGACTGC
	SSM-23S-R	TCAGCACTTATCCCGTCCAT
L3	SA-L3-F	AGGAGGTGGACTTTTCGATGA
	SA-L3-R	TCCTTTTTGCTTCCATGGTT
	SE-L3-F	TCTCGTGAACAATTCGAACAA
	SE-L3-R	GCCATTATGCAATTCCTCCT
	SSC-L3-F	CGTGAACAATTCGAACAACG
	SSC-L3-R	ACCTTGCGTAATGAAGCAC
	SSM-L3-F	CTCGTGAGCAATTCGAACAA
	SSM-L3-R	TGCATTTTCCTCCTTTCGTT
L4	SA-L4-F	CAGGACGTATGGGTGGAAAC
	SA-L4-R	CAACTGCCATTTTCACTTGTGT
	SE-L4-F	GAAGCGAAAGGAGGAAATTG
	SE-L4-R	TCGAAGATTTCTTCAACAGCAA
	SSC-L4-F	GGTAACGTGCCAGGTCCTAA
	SSC-L4-R	GAAAATTTCTTCGATTGCGATT
	SSM-L4-F	AAAGGTAATGTGCCTGGTCCT
	SSM-L4-R	TCGCACGTGTATCTACATCAA
L22	SA-L22-F	GCTCAAGAAGGAAGCGAAAA
	SA-L22-R	CGCATTTAATTTGTTGCGTA
	SE-L22-F	CATTGGCCATACTTTTGCAG
	SE-L22-R	GCAATATTGATGCGATTTGCT
	SSC-L22-F	TGGTCTCGTCGTTCAACAGT
	SSC-L22-R	TTTGCTGCACGTTCAATTC
	SSM-L22-F	ACATGCTGCAGACGACAAAA
	SSM-L22-R	CCATTTAGCGTCCCAATCAC

Table S2. Comparative analyses of domain V in 23S rRNA and ribosomal proteins

23S rRNA of *S. aureus*

ATCC25923	AGTTCCGACCCGCACGAAAGGCGTAACGATTTGGGCACTGTCTCAACGAGAGACTCGGTG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	AAATCATAGTACCTGTGAAGATGCAGGTTACCCGCGACAGGACGGAAGACCCCGTGGAG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	CTTTACTGTAGCCTGATATTGAAATTCGGCACAGCTTGACAGGATAGGTAGGAGCCTTT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	GAAACGTGAGCGCTAGCTTACGTGGAGGCGCTGGTGGGATACTACCCTAGCTGTGTGGC
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	TTTCTAACCCGCACCACTTATCGTGGTGGGAGACAGTGTTCAGGCGGCAGTTTGACTGGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	GCGGTCGCCCTCCTAAAAGGTAACGGAGGCGCTCAAAGGTTCCCTCAGAATGGTTGAAAT
SA2	*****
SA3	*****
SA12	*****

SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 CATTTCATAGAGTGTAAGGCATAAGGGAGCTTGACTGCGAGACCTACAAGTCGAGCAGGG
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TCGAAAGACGGACTTAGTGATCCGGTGGTTCCGCATGGAAGGGCCATCGCTCAACGGATA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 AAAGCTACCCCGGGGATAACAGGCTTATCTCCCCAAGAGTTCACATCGACGGGGAGGTT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TGGCACCTCGATGTCGGCTCATCGCATCCTGGGGCTG
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

23S rRNA of *S. epidermidis*

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ATCC12228      CGCTAGCTTACGTGGAGGCGTTGGTGGGATACTACCCTAGCTGTGTTGGCTTTCTAACCC
SE7            *****
SE9            *****
SE10           *****

ATCC12228      GCACCACTTATCGTGGTGGGAGACAGTGTGAGCGGGCAGTTTGACTGGGGCGGTCGCCT
SE7            *****
SE9            *****
SE10           *****

ATCC12228      CCTAAAAGGTAACGGAGGCGCTCAAAGGTTCCCTCAGAATGGTTGAAATCATTATAGA
SE7            *****
SE9            *****
SE10           *****

ATCC12228      GTGTAAAGGCATAAGGGAGCTTGACTGCGAGACCTACAAGTCGAGCAGGGTCGAAAGACG
SE7            *****
SE9            *****
SE10           *****

ATCC12228      GACTTAGTGATCCGGTGGTTCGCGATGGAAGGGCCATCGCTCAACGGATAAAAGCTACCC
SE7            *****
SE9            *****
SE10           *****

ATCC12228      CGGGGATAACAGGCTTATCTCCCCCAAGAGTTCACATCGACGGGGAGGTTTGGCACCTCG
SE7            *****
SE9            *****
SE10           *****

ATCC12228      ATGTCGGCTCATCGCATCCTGGGGCTGTAGTCGGTCCCAAGGGTTGGGCTGTTGCCCCAT
SE7            *****
SE9            *****
SE10           *****

ATCC12228      TAAAGCGGTACGCGAGCTGGGTTCAGAACGTCGTGAGACAGTTCGGTCCCTATCCGTCGT
SE7            *****
SE9            *****
SE10           *****

ATCC12228      GGGCGTAGGAAATTTGAGAGGAGCTGTCCTTAGTACGAGAGGACCGGGATGGACATACCT
SE7            *****
SE9            *****
SE10           *****

ATCC12228      CTGGTGTACCAGTTGTCGTGCCAACGGCATAGCTGGGTAGCTATGTATGGACGGGATAAG
SE7            *****
SE9            *****
SE10           *****

ATCC12228      TGCTGAAAGCATCTAAGCATGAAGCCCCCTCAAGATGAGATTTCCTCAACTTCGGTTATA
SE7            *****
SE9            *****
SE10           *****

ATCC12228      AGATCCCTCGAAGATGACGA
SE7            *****
SE9            *****
SE10           *****
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23S rRNA of *S. sciuri*

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NCTC12103    AAGGTTCCCTCAGAATGGTTGGAAATCATTTCGCAGAGTGTAAGGCACAAGGGAGCTTGA
SSC1         *****
SSC2         *****

NCTC12103    CTGCGAGACCTACAAGTCGAGCAGGGTCGAAAGACGGACTTAGTGATCCGGTGGTTCCGC
SSC1         *****
SSC2         *****

NCTC12103    ATGGAAGGGCCATCGCTCAACGATAAAAGCTACCCCGGGGATAACAGGCTTATCTCCCC
SSC1         *****
SSC2         *****

NCTC12103    CAAGAGTTTACATCGACGGGGAGGTTTGGCACCTCGATGTCGGCTCATCGCATCTGGGG
SSC1         *****
SSC2         *****

NCTC12103    CTGTAGTCGGTCCCAAGGTTGGGCTGTTGCCCCATTAAAGCGGTACGCGAGCTGGGTTC
SSC1         *****
SSC2         *****

NCTC12103    AGAACGTCGTGAGACAGTTTCGGTCCCTATCCGTCGTGGGCGTAGGAAATTTGAGAGGAGC
SSC1         *****
SSC2         *****

NCTC12103    TGTCCCTTAGTACGAGAGGACCGGGATGGACATACCTCTGGTGTACCAGTTGTCGCGCCAG
SSC1         *****
SSC2         *****

NCTC12103    CGGCATAGCTGGGTAGCTATGTATGGACGGGATAAGTGCTGAAAGCATCTAAGCATGAAG
SSC1         *****
SSC2         *****

NCTC12103    CCCCCCTCAAGATGAGATTTCCCAACTTCGGTTATAAGATCCCTCAAAGATGATGAGGTT
SSC1         *****
SSC2         *****

NCTC12103    AATAGGTTTCGGGGTGTAAGCAC
SSC1         *****
SSC2         *****
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23S rRNA of *S. simulans*

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ATCC11046    GCATAAGGGAGCTTGACTGCGAGACCTACAAGTCGAGCAGGGTCGAAAGACGGACTTAGT
SSM1          *****

ATCC11046    GATCCGGTGGTTCCGCATGGAAGGGCCATCGCTCAACGGATAAAAGCTACCCCGGGGATA
SSM1          *****

ATCC11046    ACAGGCTTATCTCCCCAAGAGTTCACATCGACGGGGAGGTTTGGCACCTCGATGTCGGC
SSM1          *****

ATCC11046    TCATCGCATCCTGGGGCTGTAGTCGGTCCCAAGGGTTGGGCTGTTCGCCCATTAAGCGG
SSM1          *****

ATCC11046    TACGCGAGCTGGGTTCAGAACGTCGTGAGACAGTTCGGTCCCTATCCGTCGTGGGCGTAG
SSM1          *****

ATCC11046    GAAATTTGAGAGGAGCTGTCCTTAGTACGAGAGGACCGGGATGGACATACCTCTGGTGTA
SSM1          *****

ATCC11046    CCAGTTGTCGTGCCAACGGCATAGCTGGGTAGCTATGTATGGACGGGATAAGTGCTGA
SSM1          *****
```

L3 of *S. aureus*

ATCC25923 AGGAGGTGGACTTTCGATGACCAAAGGAATCTTAGGAAGAAAAATTGGGATGACACAAGT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 ATTCGAGAGAAAACGGTGAATTAATCCCTGTAACAGTAGTAGAAGCTAAAGAAAAATGTTGT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 ATTACAAAAGAAAAGCTGTAGAAGTTGATGGATACAACGCAATCCAAGTTGGATTGAAGA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 CAAAAAAGCATACAAAAAAGATGCAAAATCTAACAAATATGCTAATAAACAGCTGAAGG
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TCACGCTAAAAAAGCTGACGCAGCACCTAAGCGCTTCATTTCGTGAATTCGCAATGTAGA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 CGTGGATGCTTACGAAGTAGGTCAAGAAGTCTCAGTAGATACTTTGTAGCTGGCGACGT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****

SA21	*****
ATCC25923	TATTGACGTAACAGGCGTATCAAAAGGTAAAGGTTTCCAAGGTGCAATTAAACGCCACGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	ACAATCTCGTGACCTATGTCACACGGTTCTCATTTCCACAGAGCACCAGGTTCTGTAGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	TATGGCTTCAGATGCTTCTAGAGTATTCAAAGGCCAAAAAATGCCAGGACGTATGGGTGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	AAACACTGTAAGTTTCAAACTTAGAAGTAGTTCAAGTTGACACAGAAAACAAAGTTAT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	CTTAGTAAAAGGTAATGTACCTGGACCTAAAAAGGTTTAGTAGAAATCAGAACTTCAAT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	TAAAAAAGGTAATAAATAATAAGAGTGAAAGGAGGAAATGCATAATGGCTAATTATGAT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	GTTTTAAAATTAGACGGAACATAATCAGGTTCAATCGAATTAAGCGATGCAGTATTCGGT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	ATTGAGCCAAATAATAGCGTTTTATTCTGAAGCTATTAATTTACAACGTGCTTCATTACGT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	CAAGGTACGCATGCTGTTAAGAATCGTTCAGCAGTAAGCGGTGGCGGACGTAAACCATGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	AAGCAAAAAGGA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

L3 of *S. epidermidis*

ATCC12228	TCTCGTGAACAATTCTGAACAACGTACTCATAAACGTTTAATCGACATTGTTAATCCAACA
SE7	*****
SE9	*****
SE10	*****
ATCC12228	CCTAAACCGGTAGATGCTCTAATGGGCTTAAACTTACCATCAGGTGTAGACATCGAAATT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	AAATTATAATAGACAATATAGGAGGTGGACTTTCGATGACCAAAGGAATCTTAGGAAGA
SE7	*****
SE9	*****
SE10	*****
ATCC12228	AAAATTGGGATGACACAAGTTTTCGGTGAAAATGGTGAATTAATCCCTGTAACAGTTGTA
SE7	*****
SE9	*****
SE10	*****
ATCC12228	GAAGCTAGTCAAAACGTTGTATTACAAAAGAAAAGTGAAGAAGTTGATGGTTATAATGCT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	ATCCAAGTAGGTTTGAAGATAAAACAAGCATATAAGAAAGGTTCTAAATCTAATAAATAT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	GCTAATAAACCGCTGAAGGTCATGCTAAAAAGCTGACACAGCACCTAAGCGCTTCATT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	CGTGAATTCCGCAACGTTAACGTTGACGAATACGAAGTAGGTCAAGAAGTCTCAGTTGAT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	ACATTCGAAACTGGTGACATCATTTGATGTTACAGGCGTTTCAAAGGTAAAGGTTTCCAA
SE7	*****
SE9	*****
SE10	*****
ATCC12228	GGTGCTATTAAACGTCATGGACAAGGTCGTGGACCAATGGCTCACGGTTCTCATTTCCAT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	AGAGCGCCAGGCTCTGTAGGTATGGCATCAGACGCTTCAAAGTGTTTAAAGGACAAAAA
SE7	*****
SE9	*****
SE10	*****
ATCC12228	ATGCCAGGACGTATGGGTGGAACACTGTTACTGTTCAAACCTTAGAAGTCGTTCAAGTT
SE7	*****
SE9	*****
SE10	*****
ATCC12228	GACACTGAAAATAGTGTGATTTTAGTAAAAGGCAATGTACCTGGACCTAAAAAAGGTTTA
SE7	*****
SE9	*****
SE10	*****

ATCC12228	GTAGAAATCACAACTTCAATAAAAAAGGTAATAAATAATTAAGAAGCGAAAGGAGGAAA
SE7	*****
SE9	*****
SE10	*****

ATCC12228	TTGCATAATGGC
SE7	*****
SE9	*****
SE10	*****

L3 of *S. sciuri*

NCTC12103	CGTGAACAATTCTGAACAACGTACGCATAAACGTTTAATCGACATTCTTAACCCTACACCA
SSC1	*****
SSC2	*****
NCTC12103	AAAACAGTTGATGCTCTTATGGGCTTAAACTTACCATCAGGTGTAGACATCGAAATCAAA
SSC1	*****
SSC2	*****
NCTC12103	TTATAATTCATTAAAATAACAGGAGGTGCGACTTTCGATGACCAAAGGAATCTTAGGAAG
SSC1	*****
SSC2	*****
NCTC12103	AAAAATTGGAATGACACAAGTATTCGCAGAAAACGGTGAATTAAATACCAGTTACTGTAGT
SSC1	*****
SSC2	*****
NCTC12103	AGAAGCTAGTCAAAACGTAGTATTACAACTAAAACTGAAGAAGTGGACGGCTACAACGC
SSC1	*****
SSC2	*****
NCTC12103	TGTTCAAATCGGTTTGAAGACAAACAAGCATATAAAAAAGATCGTAAATCTAACAAATA
SSC1	*****
SSC2	*****
NCTC12103	TGCTACTAAAGCTGCTGAAGGCCATGCTAAAAAAGCAGGTACAGCACCTAAGCGCTTCAC
SSC1	*****
SSC2	*****
NCTC12103	TCGTGAATTCAGAAACATTGATGTTTCAGCATACGAGGTAGGTCAAGAAGTCACTGTAGA
SSC1	*****
SSC2	*****
NCTC12103	TACTTTCCAAGCAGGAGACATTATTGATGCAACAGGCGTTTCAAAGGTAAAGGTTTCCA
SSC1	*****
SSC2	*****
NCTC12103	AGGCTCAATTAAACGTCACGGATTCTCTCGTGGACCAATGAGTCACGGTTCTCGTTACCA
SSC1	*****
SSC2	*****
NCTC12103	CAGAGGCTCTGGTTCAATGGGTATGGCTTCAGATGCTTCTAAAGTATTTAAAGGTAAAGA
SSC1	*****
SSC2	*****
NCTC12103	ATTACCAGGCCGTATGGGCGGAAACACAGTTACTATGCAAACTTAGAAGTAGTTAAAGT
SSC1	*****
SSC2	*****
NCTC12103	TGATGCAGAAAATAACGTAATTTTAGTTAAAGGTAACGTGCCAGGTCCTAAAAAAGGTTT
SSC1	*****
SSC2	*****
NCTC12103	AGTAAAACTTACAACCTCAATTAAAAAAGGTAATAAATAATTATTTAGGTGAAAGGAGGA
SSC1	*****
SSC2	*****
NCTC12103	AACAACATTATGGCTAATATTGATGTATTAAGTAGATGGATCAAAATCAGGTTCTATC
SSC1	*****
SSC2	*****
NCTC12103	GAATTAAATGATAGTGTATTTGGTATCGAACCAACCAACACGTATTATTCGAAGCAGTC
SSC1	*****
SSC2	*****

NCTC12103	AACTTACAACGTGCTTCATTACGCCAAGGT
SSC1	*****
SSC2	*****

L3 of *S. simulans*

ATCC11046 SSM1	CTCGTGAGCAATTCTGAACAACGTACTCATAAACGTTTAATCGACATTGTTAACCTACAC *****
ATCC11046 SSM1	CAAAACTGTTGATGCTCTTATGGGCTTAACTTACCATCAGGTGTAGACATCGAAATTA *****
ATCC11046 SSM1	AATTATAATAGAAAATCATAGGAGGTGGACTTTCGATGACCAAAGGAATCTTAGGAAGAA *****
ATCC11046 SSM1	AAATCGGGATGACACAAGTATTCGGTGAAAACGGAGACTTAATCCCAGTAACGTAGTAG *****
ATCC11046 SSM1	AAGCAGGACAAAACGTAGTATTACAAAAGAACTGAAGAGGTAGACGGTTACAACGCTA *****
ATCC11046 SSM1	TCCAAGTAGGTTTGAAGACAAACAAGCATACAAAAAGACAGCAAGTCAAATAAATATG *****
ATCC11046 SSM1	CTAATAAACCCAGCTGAAGGTCACGCTAAAAAGCTGACACAGCTCCTAAGCGCTTCATTC *****
ATCC11046 SSM1	GTGAATTCAGAAACATCAATGTTGATGAATACGAAGTAGGTCAAGAAGTCTCAGTTGATA *****
ATCC11046 SSM1	CATTTGAAGCTGGGGACATCATTGACGTAACGGAGTATCTAAAGGTAAAGGTTCCAAG *****
ATCC11046 SSM1	GCAATATCAAACGTCATGGCCACGGTCGTGGACCAATGTCTCACGGTTCTCATTTCACA *****
ATCC11046 SSM1	GAGCGCCAGGTTCTGTAGGTATGGCATCTGACGCATCTAAAGTATTTAAAGGTCACAAAA *****
ATCC11046 SSM1	TGCCAGGTCGTATGGGTGGCAACACAGTGACAGTACAAAACCTAGAAGTTGTACAAATCG *****
ATCC11046 SSM1	ATACAGAAAACAACGTTATCTTAGTTAAAGGTAATGTGCCTGGTCCTAAAAAAGGATTAG *****
ATCC11046 SSM1	TAGAAATCAAACCTCAATTAAAAAAGGTAACAAATAATTAATTAACGAAAGGAGAAAA *****
ATCC11046 SSM1	TGCA ****

L4 of *S. aureus*

ATCC25923	CAGGACGTATGGGTGGAAACACTGTAAGTGTTCAAAACCTAGAAAGTAGTTCAAGTTGACA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	CAGAAAACAAAGTTATCTTAGTAAAAGGTAATGTACCTGGACCTAAAAAAGGTTTAGTAG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	AAATCAGAACTTCAATTAAAAAAGGTAATAAATAATAAGAAGTGAAAGGAGGAAATGCAT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	AATGGCTAATTATGATGTTTTAAAATTAGACGGAACCTAAATCAGGTTCAATCGAATTAAG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	CGATGCAGTATTCGGTATTGAGCCAAATAATAGCGTTTTATTGCAAGCTATTAATTACA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	ACGTGCTTCATTACGTCAAGGTACGCATGCTGTTAAGAATCGTTCAGCAGTAAGCGGTGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****

SA21	*****
ATCC25923	CGGACGTAAACCATGGAAGCAAAAAGGAACAGGTCGTGCTCGTCAAGGTACAATCCGTGC
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	TCCACAATGGCGTGGCGGTGGTATCGTATTCCGACCAACTCCAAGAAGTTATGCATACAA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	AATGCCTAAGAAAATGCGTCGTTAGCTTTACGCTCAGCATTATCTTTCAAAGTTCAAGA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	GAATGGCTTAACTGTAGTTGACGCATTCAACTTCGAAGCTCCAAAACTAAAGAATTCAA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	AAATGTATTATCTACATTAGAACAACCTAAAAAGTATTAGTAGTTACTGAAAACGAAGA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****
ATCC25923	TGTAAATGTTGAATTATCAGCACGCAACATCCCTGGCGTTCAAGTGACAAC TGCTCAAGG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	TTTAAATGTTTTAGATATCACTAATGCTGACAGCTTAGTAATTACTGAAGCTGCTGCTAA
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	AAAAGTTGAGGAGGTGCTCGGATAATGGAAGCAAGAGATATTCTTAAGCGCCCCGTAATC
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	ACTGAGAAATCTTCTGAAGCAATGGCTGAAGACAAATACACTTTCGACGTTGATACTCGT
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

ATCC25923	GTTAACAAAACACAAGTGAAAATGGCAGTTG
SA2	*****
SA3	*****
SA12	*****
SA16	*****
SA17	*****
SA18	*****
SA19	*****
SA20	*****
SA21	*****

L4 of *S. epidermidis*

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ATCC12228    GAAGCGAAAGGAGGAAATTGCATAATGGCTAATTATGATGTTTTAAAAGTAGACGGATCA
SE7          *****
SE9          *****
SE10         *****

ATCC12228    AAATCAGGTTCAAGTTGAATTAAACGATGCAGTATTTGCTATCGAACCTAATAATAGCGTT
SE7          *****
SE9          *****
SE10         *****

ATCC12228    CTTTTGAAGCTATTAACCTACAACGTGCGTCATTACGCCAAGGTACTCACGCTGTTAAG
SE7          *****
SE9          *****
SE10         *****

ATCC12228    AATCGTTCAGCAGTACGTGGTGGTGGACGTAAACCATGGAGACAAAAAGGTACAGGTCGT
SE7          *****
SE9          *****
SE10         *****

ATCC12228    GCACGTCAAGGTACAATCCGTGCTCCACAATGGCGTGGTGGTGGTGTAGTATTCGGACCA
SE7          *****
SE9          *****
SE10         *****

ATCC12228    ACACCAAGAAGCTATGCATATAAAATGCCAAAGAAAATGCGTCGTTTAGCATTACGTTCT
SE7          *****
SE9          *****
SE10         *****

ATCC12228    GCATTATCTTTTAAAGTTCAAGAAAATAGCTTTACAATTGTAGATACTTTTGGTTTGTAA
SE7          *****
SE9          *****
SE10         *****

ATCC12228    GCACCAAAAACAAAAGAATTCAAAAATGTATTAACCTACTCTTGAACAACCTAAGAAAGTA
SE7          *****
SE9          *****
SE10         *****

ATCC12228    TTAGTTGTAACAGAAAACGAAGATGTAAATGTTGAATTATCAGCACGTAACATTCCTGGT
SE7          *****
SE9          *****
SE10         *****

ATCC12228    GTTCAAGTTACAACCTGCTCAAGGATTAAATGTACTTGATCTAACAAGCGCTGACAGTGTA
SE7          *****
SE9          *****
SE10         *****

ATCC12228    ATCATTACAGAAGCAGCTGCGAAAAAGTTGAGGAGGTGCTCGCATAATGGAAGCAAGAG
SE7          *****
SE9          *****
SE10         *****

ATCC12228    ATGTTCTTAAGCGCCCCGTAATCACTGAAAAATCTTCTGAAGCTATGGCAGAAGATAAAT
SE7          *****
SE9          *****
SE10         *****

ATCC12228    ACACTTTTCGATGTAGATACTCGTGCAAATAAAACACAAGTTAAAATTGCTGTTGAAGAAA
SE7          *****
SE9          *****
SE10         *****
```

ATCC12228	TCTTCGA
SE7	*****
SE9	*****
SE10	*****

L4 of *S. sciuri*

NCTC12103	GGTAACGTGCCAGGTCCTAAAAAAGGTTTAGTAAAACCTTACAACTTCAATTAAAAAAGGT
SSC1	*****
SSC2	*****
NCTC12103	AATAAATAATTATTTAGGTGAAAGGAGGAAACAACATTATGGCTAATATTGATGTATTAA
SSC1	*****
SSC2	*****
NCTC12103	AAGTAGATGGATCAAAATCAGGTTCTATCGAATTAAATGATAGTGTATTTGGTATCGAAC
SSC1	*****
SSC2	*****
NCTC12103	CAAACCAACACGTATTATTCTGAAGCAGTCAACTTACAACGTGCTTCATTACGCCAAGGTA
SSC1	*****
SSC2	*****
NCTC12103	CTCACGCAGTTAAAAATCGTTCAGCAGTTCGTGGTGGTGGACGTAAACCTTGGAACAAA
SSC1	*****
SSC2	*****
NCTC12103	AAGGTACAGGTCGTGCTCGTCAAGGTACAATCCGTGCGCCACAATGGCGTGGTGGTGGTA
SSC1	*****
SSC2	*****
NCTC12103	TCGTATTTCGGTCCTACACCAAGAAGTTATTCTTACAAAATGCCTAAGAAAATGCGTCGTT
SSC1	*****
SSC2	*****
NCTC12103	TAGCATTACGTTCTGCATTATCTTCAAAAGTAAGTGGTAACGAATTAACAGTTTGTAGAAG
SSC1	*****
SSC2	*****
NCTC12103	CATTCAACTTTGATGCACCTAAAACAAAAGAATTCAAAAATGTAATGAGCAACTTAGAAC
SSC1	*****
SSC2	*****
NCTC12103	TTTCTAAGAAAGTTTATTTCATCGTTGATACTGTAGACAGCAACGTTGAATTATCAGCTC
SSC1	*****
SSC2	*****
NCTC12103	GTAACATTCCAGGTGTTAAAGTTATCGACGCTCAAAGCTTAAACGTATTAGATATCTTAG
SSC1	*****
SSC2	*****
NCTC12103	ATTCTAGTAAAGTCGTAATAACTAAAGCAGCAGTGGATAAAGTAGAGGAGGTGCTCGCAT
SSC1	*****
SSC2	*****
NCTC12103	AATGGAAGCAAGAGATGTTATTAAGCGCCCCGTAATCACAGAAAAATCTTCATCAGATAT
SSC1	*****
SSC2	*****
NCTC12103	GGCTTTAGATAAAATACACATTTGATGTAGATACACGTGCAAACAAAACACAAGTAAAAAT
SSC1	*****
SSC2	*****
NCTC12103	CGCAATCGAAGAAATTTTC
SSC1	*****
SSC2	*****

L4 of *S. simulans*

ATCC11046 SSM1	AAAGGTAATGTGCCTGGTCCTAAAAAAGGATTAGTAGAAATCAAACCTTCAATTAAAAAA *****
ATCC11046 SSM1	GGTAACAAATAATTAATTAACGAAAGGAGGAAAATGCATAATGGCAAATTATGATGTATT *****
ATCC11046 SSM1	AAAAGTAGACGGATCAAAGCAGGTTCAAGTTGAATTAAGCGATGCTGTATTTCGCAATTGA *****
ATCC11046 SSM1	ACCAAACAAAGATGTTCTTTTCGAAGCAATTAACCTACAACGTGCTTCATTACGCCAAGG *****
ATCC11046 SSM1	TACGCATTTCGGTAAAAAACCGTTCAGCAGTACGCGGCGGTGGACGTAAACCATGGAGACA *****
ATCC11046 SSM1	AAAAGGTACAGGACGTGCGCGTCAAGGTACTATCCGTGCTCCACAATGGCGTGGTGGCGG *****
ATCC11046 SSM1	TATCGTATTCGACCGACTCCAAGAAGCTATGCATACAAAATGCCTAAGAAAATGCGTCG *****
ATCC11046 SSM1	TTTAGCATTACGTTCTGCATTATCTTTCAAAGTACAAGAAAATGAATTCAAATTATTGA *****
ATCC11046 SSM1	TGCTTTCGGTTTAGAAGCACCAAAACTAAAGAATTCACTAAAGTATTATCAAACCTAGA *****
ATCC11046 SSM1	ATTACCTAAAAAGTTTTAGTAGTTACTGAATCAGAAGATGTAAATGTTGAATTATCAGC *****
ATCC11046 SSM1	ACGTAACATTCCTGGTGTTCAAATCACTACTGTAACGTGTTTAAACGTATTAGACATCAC *****
ATCC11046 SSM1	TAGCGCTGACAGTGTTAATTACAGAAGCAGCTGCTAAAAAAGTTGAGGAGGTGCTCGG *****
ATCC11046 SSM1	ATAATGGAAGCAAGAGACGTTCTTAAGCGCCCGTAATCACAGAAAAATCTTCAGAAGCA *****
ATCC11046 SSM1	ATGGCTGAAGACAAATACACTTTTGATGTAGATACAGTGCGA *****

L22 of *S. aureus*

ATCC25923 GCTCAAGAAGGAAGCGAAAAGAAACAAGTAATCAAAACATGGTCACGTCGTTCTACAATT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TTCCCTAATTTTCATCGGACATACTTTTGCAGTATACGACGGACGTAAACACGTACCTGTA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TATGTAAGTGAAGATATGGTAGGTCATAAATTAGGTGAGTTTGCTCCTACTCGTACATTC
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 AAAGGACACGTTGCAGACGACAAGAAAACAAGAAGATAATATCTATTAAGTAGAGGAGGA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 CATCCTAATGGAAGCAAAAGCGGTTGCTAGACAATAAGAATCGCACCTCGTAAAGTAAG
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 ACTAGTTCTTGACTTAATCAGAGGTAAAAATGCTGCTGAAGCTATTGCAATTTTAAAAATT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****

SA20 *****
SA21 *****

ATCC25923 AACAAACAAAGCTTCATCACCAGTAATTGAAAAAGTATTAATGTCCGCTTTAGCTAATGC
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 TGAACATAACTATGACATGAACACAGATGAATTAGTAGTTAAAGAAGCATATGCTAACGA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 AGGACCAACATTAAAACGTTTCCGTCCACGTGCGCAAGGTCGTGCAAGTGCGATTAAACAA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 ACGTACAAGCCACATTACAATCGTCGTAAGTGACGGTAAAGAAGAAGCTAAAGAAGCTTA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 ATTAAC TTTTAAGGAGGGAATACTGTGGGTCAAAAAATTAATCCAATCGGACTTCGTGTT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 GGTATTATCCGTGATTGGAAGCTAAATGGTATGCTGAAAAAGACTTCGCTTCACTTTTA
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****

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SA21 *****

ATCC25923 CACGAAGATTTAAAAATCCGTAAATTTATTGATAATGAATTAAAAGAAGCATCAGTTTCT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 CACGTAGAGATTGAACGTGCTGCAAACCGTATCAACATTGCAATTCATACTGGTAAACCT
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****

ATCC25923 GGTATGGTAATTGGTAAAGGCGGTTTCAGAAATCGAAAAATTACGCAACAAATTAAATGCG
SA2 *****
SA3 *****
SA12 *****
SA16 *****
SA17 *****
SA18 *****
SA19 *****
SA20 *****
SA21 *****
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L22 of *S. epidermidis*

ATCC12228 CATTGGCCATACTTTTGCAGTATACGATGGACGTAAACATGTACCTGTATATGTCACTGA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 AGATATGGTAGGTCACAAATTAGGTGAATTTGCTCCTACACGTACTTTTAAAGGACATGC
SE7 *****
SE9 *****
SE10 *****

ATCC12228 AGCAGACGACAAGAAAACAAGAAGATAATTTTAATAAGTAGAGGAGGAAATCCTGATGGA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 AGCAAAAGCGGTTGCTAGAACAAATAAGAATCGCACCTCGTAAAGTAAGACTTGTCTTGA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 TTTAATCAGAGGTAAAAATGCTGGAGAAGCTATTGCTATTTTAAATTAAC TAATAAAGC
SE7 *****
SE9 *****
SE10 *****

ATCC12228 TTCATCACCAGTAATCGAAAAAGTATTAATGTCCGCTTTGGCAAATGCTGAGCACAACTA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 TGATATGAATACAGATGAATTAGTTGTAAAAGAAGCATATGCTAATGAAGGACCAACTTT
SE7 *****
SE9 *****
SE10 *****

ATCC12228 AAAACGTTTCCGCCCACGTGCACAAGGACGTGCAAGTGCAATTAATAAACGTACAAGCCA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 CATTACAATCGTCGTAAGTGACGGTAAAGAAGAAGCTAAAGAAGCTTAATAACTTTCTAA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 GGAGGGAATACTGTGGGTCAAAAAATTAATCCAATCGGACTTCGTGTCGGTGTTATCCGT
SE7 *****
SE9 *****
SE10 *****

ATCC12228 GATTGGAAGCAAAATGGTATGCTGAAAAGACTTTGCTTCAC TTTACATGAAGACTTA
SE7 *****
SE9 *****
SE10 *****

ATCC12228 AAAATCCGTAAATTTATTGATAATGAATTAAGAAGCGTCAGTTTCTCACGTAGATATT
SE7 *****
SE9 *****
SE10 *****

ATCC12228 GAACGTGCAGCAAATCGCATCAATATTGC
SE7 *****
SE9 *****
SE10 *****

L22 of *S. sciuri*

NCTC12103 TGGTCTCGTCGTTCAACAGTATTTCTTAACCTCATCGGACATACAATAGCAGTATATGAT
SSC1 *****
SSC2 *****

NCTC12103 GGTCGTAAACATGTGCCAGTTTTCTTACTGAAGATATGGTTGGACATAAATTAGGAGAG
SSC1 *****
SSC2 *****

NCTC12103 TTTGCACCTACACGTACTTATAAAGGTCATGCTGCAGACGACAAAAAGACTAAACGCTAA
SSC1 *****
SSC2 *****

NCTC12103 TTTCTAAAAAGAGGAGGAAGTCACAATGGAAGCAAAAGCGGTTGCTAGAACAAATAAGAAT
SSC1 *****
SSC2 *****

NCTC12103 CGCACCTCGTAAAGTGAGATTAGTTTATAGATCTTATTAGAGGTAAAGAAGTGGCAGAAGC
SSC1 *****
SSC2 *****

NCTC12103 AATTGCCATCTTAAATTAACAAACAAAGCAACATCACCTGTTGTTGAAAAATTATTAAT
SSC1 *****
SSC2 *****

NCTC12103 GTCAGCATTAGCAAATGCAGAACATAACTATGATTTAAATCCTGACACATTAGTAGTAAA
SSC1 *****
SSC2 *****

NCTC12103 AGAAGCTTACGCTAATGAAGGACCTACATTGAAACGTTTCCGTCCACGTGCACAAGGTCG
SSC1 *****
SSC2 *****

NCTC12103 TGCAAGTGCGATTAAACAAACGTACTAGCCATATTACAATCGTAGTTGGCGAAAAAGAAGC
SSC1 *****
SSC2 *****

NCTC12103 TAAAGAAGTTAAAGAAGCATAATTAACATAATCATTAAAGGAGGGAATATAGTGGGTCAAA
SSC1 *****
SSC2 *****

NCTC12103 AAATTAATCCAATCGGACTTCGTGTCGGTGTAATTCGTGACTGGGAAGCAAAGTGGTATG
SSC1 *****
SSC2 *****

NCTC12103 CAGGTAAAGACTTCGCAACACTTTTACATGAAGACTTAAAAGTTGTAATATATATCGCAG
SSC1 *****
SSC2 *****

NCTC12103 AAGCATTAAAGAAGCTTCAGTTTCAAGTGTTGAAATTGAACGTGCAGCAAA
SSC1 *****
SSC2 *****

L22 of *S. simulans*

ATCC11046 SSM1	GACATGCTGCAGACGACAAAAAACAAGAAGATAAAATACTTTCTATTAAGTAGAGGAGGA *****
ATCC11046 SSM1	AGACCAAATGGAAGCAAAAGCGGTTGCTAGAACTATCAGAATCGCACCTCGTAAAGTCAG *****
ATCC11046 SSM1	ATTAGTTTTAGACTTAATCAGAGGCAAAAACGTTGGTGAAGCTGTTGCTATTTTAAAATT *****
ATCC11046 SSM1	AACTAACAAAGCATCATCACCAGTTGTTGAAAAATTATTAATGTCCGCTTTAGCTAATGC *****
ATCC11046 SSM1	AGAGCACAACTATGACATGAATACAGATGAATTAGTTGTTAAAGAAGCATATGCTAACGA *****
ATCC11046 SSM1	AGGACCAACTTTAAAACGTTTCCGTCCACGTGCTCAAGGACGCGCAAGTGCAATTAACAA *****
ATCC11046 SSM1	ACGTACAAGCCACATTACAATTGTCGTAAGTGACGGCAAAGAAGAAGCTAAAGAAGCTTA *****
ATCC11046 SSM1	ATAAACTATCTAAGGAGGGAATACTGTGGGTCAAAAAATTAATCCAATCGGACTTCGTGT *****
ATCC11046 SSM1	TGGTGTTATCCGTGATTGGGACGCTAAATGG *****