

# Supplementary Materials: Prevalence and Genetic Characteristics of *Staphylococcus aureus* and *Staphylococcus argenteus* Isolates Harboring Panton-Valentine Leukocidin, Enterotoxins, and TSST-1 Genes from Food Handlers in Myanmar

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		30		60
COL	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD112	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD188	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD8	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD3	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD110	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD7	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
N315	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD15	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD44	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD97	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD191	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD21	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD160	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD115	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD123	TCAAATGTAAATTATAATTGTT	TTGGGGAGTTGAAGTAAATATTAAACAGGATT		
TD158	TCAAATGTAAATTATAATTGTT	TTGGGGAGCTGAAGTAAATATTAAACAGGATT		
TD101	TCAAATGTAAATTATAATTGTT	TTGGGGAGCTGAAGTAAATATTAAACAGGATT		
	*****	*****	*****	*****
				120
COL	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD112	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD188	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD8	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD3	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD110	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD7	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
N315	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD15	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD44	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD97	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD191	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD21	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD160	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD115	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD123	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD158	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
TD101	TTTAATATTATTGTTAGAAGGAATTTCACAAATT	CAGCGAGTGCAATCGAATATT	CAG	
	*****	*****	*****	*****

180

COL	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD112	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD188	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD8	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD3	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD110	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD7	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
N315	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD15	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD44	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD97	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD191	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD21	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD160	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD115	ACTTACATCATAAAAGTAAGTTGATTCAAAGCGCTAACGTAATGCTAAGATGTCATTCA
TD123	ACTTACATCATAAAAGTAAACTGATTCAAAGCGCTATATAATGCTAAGGTGTCATTTG
TD158	ACTTACATCATAAAAGTAAACTGATTCAAAGCGCTATATAATGCTAAGGTGTCATTTG
TD101	ACTTACATCATAAAAGTAAACTAAATTCAAAGCGCTATATAATGCTAAGGTGTCATTTG
	*****

240

COL	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD112	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD188	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD8	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD3	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD110	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD7	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
N315	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD15	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD44	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD97	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD191	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD21	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD160	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD115	TCAATCCAACCTCAGCTGAAAATAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD123	CTAATCCAACCTGATCTGAAAATAAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD158	CTAATCCAACCTGATCTGAAAATAAAAACACAAACGATAGACTGTTGAAGCATGATTG
TD101	CTAATCCAACCTGATCTGAAAATAAAAACACAAACGATAGACTGTTGAAGCATGATTG
	*****

300

COL	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD112	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD188	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD8	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD3	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD110	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD7	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
N315	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD15	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD44	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD97	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD191	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD21	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD160	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD115	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD123	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD158	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
TD101	TATTCATGACATGTTGCTAAATGATGATTGGAAAAAGGATTAAAGTTGAATTGAAA
	*****

360

COL	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD112	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD188	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD8	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD3	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD110	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD7	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
N315	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD15	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD44	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD97	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAAGCTATA
TD191	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD21	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD160	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD115	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD123	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD158	ATGAGGCACTTCAAAGAAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
TD101	ATGAGGCACTTCAAATGAATTATAAATAAGGATATCGATATATTGCTGAAATTATG
	*****

420

COL	GATACGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD112	GATACGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD188	GATACGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD8	GATACGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD3	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD110	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD7	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
N315	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD15	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD44	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD97	GCTATGAATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD191	GATATGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD21	GATATGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD160	GATATGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD115	GATATGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
TD123	GATACGGATGTCATGGGGGAGAAACCAATAAACGCAATGTAGTTATGGAGGGTACTT
TD158	GATACGGATGTCATGGGGGAGAAACCAATAAACGCAATGTAGTTATGGAGGGTACTT
TD101	GATACGGATGTCATGGGGGAGCAACCAATAAACGCAATGTAGTTATGGTGGTACTT
	*****

480

COL	TAAGTGACAATAATAACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD112	TAAGTGACAATAATAACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD188	TAAGTGACAATAATAACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD8	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD3	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD110	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD7	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
N315	TAAGTGACAATAATAAAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD15	TAAGTGACAATAATAAAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD44	TAAGTGACAATAATAAAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD97	TAAGTGACAATAATAAAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD191	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD21	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD160	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD115	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
TD123	TAAGTGACAATAATAAGTACGATAATGATAAGAATATAACCTTGTAAATTATGGATTGACG
TD158	TAAGTGACAATAATAAGTACGATAATGATAAGAATATAACCTTGTAAATTATGGATTGACG
TD101	TAAGTGACAATAATAAGTACGATGATTATAAGAATATAACCTTGTAAATTATGGATTGACG
	*****

540

COL	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACTATT
TD112	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACTATT
TD188	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD8	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD3	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD110	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD7	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
N315	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAAGAAAATTGTTACCATT
TD15	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAAGAAAATTGTTACCATT
TD44	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAAGAAAATTGTTACCATT
TD97	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAAGAAAATTGTTACCATT
TD191	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD21	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD160	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD115	GACATCAAGCAGAAATAGAATTAACAGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD123	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD158	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACCATT
TD101	GACATCAAACAGAAATAGAACTAACTGCAGTAAAACGAAAAA-GAAAATTGTTACTATT

600

COL	CAAGAATTAGAGGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD112	CAAGAATTAGAGGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD188	CAAGAATTAGAGGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD8	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD3	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD110	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD7	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
N315	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD15	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD44	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD97	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD191	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD21	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD160	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD115	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD123	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD158	CAAGAATTAGATGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA
TD101	CAAGAATTAGAGGTTCAATTAAGAAATTATTGAATGAGAAGTATAAGTTGTACGAACAA

660

COL	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD112	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD188	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD8	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD3	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD110	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD7	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
N315	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD15	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD44	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD97	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD191	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD21	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD160	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD115	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD123	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD158	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA
TD101	GGTGGCGACATTGTTAAAGGGTATGTTAAATATTATAATGATGATGAACAAATGTAGAA

720

COL	TATGATTTATAATTAAATGGTGAGTATGGCGTGAGGTATAAAAATGTATGCTGAT
TD112	TATGATTTATAATTAAATGGTGAGTATGGCGTGAGGTATAAAAATGTATGCTGAT
TD188	TATGATTTATAATTAAATGGTGAGTATGGCGTGAGGTATAAAAATGTATGCTGAT
TD8	TATGATTTATAATTAAATGGTGAGTATGGCGTGAGGTATAAAAATGTATGCTGAT
TD3	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD110	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD7	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
N315	TATGATTTATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD15	TATGATTTATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD44	TATGATTTATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD97	TATGATTTATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD191	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD21	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD160	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD115	TATAATTAAATGGTGAGTATGGTTATGAGGTATAAAAATGTATGCTGAT
TD123	TATGATTTATAATTAAATGGTGAGTATGGTCATGAGGTATAAAAATGTATGCTGAT
TD158	TATGATTTATAATTAAATGGTGAGTATGGTCATGAGGTATAAAAATGTATGCTGAT
TD101	TATGATTTATAATTAAATGGTGAGTATGGCGTGAGGTATAAAAATGTATGCTGAT
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780

COL	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD112	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD188	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD8	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD3	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD110	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD7	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
N315	AATAAAACTATCAATAGAGACAAATTGCATTAGATATCTATTAACTATAATT
TD15	AATAAAACTATCAATAGAGACAAATTGCATTAGATATCTATTAACTATAATT
TD44	AATAAAACTATCAATAGAGACAAATTGCATTAGATATCTATTAACTATAATT
TD97	AATAAAACTATCAATAGAGACAAATTGCATTAGATATCTATTAACTATAATT
TD191	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD21	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD160	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD115	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD123	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD158	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
TD101	AATAAAACTATCAATAGTGACAAATTGCATTAGATATCTATTAACTATAATT
*****	
COL	AATTAAG
TD112	AATTAAG
TD188	AATTAAG
TD8	AATTAAG
TD3	AATTAAG
TD110	AATTAAG
TD7	AATTAAG
N315	AATTAAG
TD15	AATTAAG
TD44	AATTAAG
TD97	AATTAAG
TD191	AATTAAG
TD21	AATTAAG
TD160	AATTAAG
TD115	AATTAAG
TD123	AAGTGAG
TD158	AAGTGAG
TD101	AATTAAG
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**Figure S1.** Alignment of nucleotide sequences of intact *selw* genes and pseudogenes encoding truncated SEIW. Sequences of strains COL and N315 represent intact and truncated *selw* genes,

respectively. Start codon and stop codon are shown in yellow and blue, respectively. Nucleotide numbers are indicated for intact *selw* represented by strain COL.

(a)

240

TD123	NYLNEKYKLYEQGGDIVKGYVKYHND-EKNVEYDFYNLNGEYGYHEVLKMYADNKTINSDK
TD158	NYLNEKYKLYEQGGDIVKGYVKYHNDDEKNVEYDFYNLNGEYGYHEVLKMYADNKTINSDK
TD21	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEILKMYADNKTINSDK
TD191	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEILKMYADNKTINSDK
TD115	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD160	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD3	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD7	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD110	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD112	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD188	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
COL	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD8	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
TD101	NYLNEKYKLYEQGGDIVKGYVKYHNDDEQNIIEYNFYNLNGEYGYEVLKMYADNKTINSDK
	*****:*** * ; ***:***** * ; *****

250

TD123	LHLDIYLFKS
TD158	LHLDIYLFKS
TD21	LHLDIYLFKS
TD191	LHLDIYLFKS
TD115	LHLDIYLFKS
TD160	LHLDIYLFKS
TD3	LHLDIYLFKS
TD7	LHLDIYLFKS
TD110	LHLDIYLFKS
TD112	LHLDIYLFKS
TD188	LHLDIYLFKS
COL	LHLDIYLFKS
TD8	LHLDIYLFKS
TD101	LHLDIYLFKS
	*****

(b)

TD44	MGEFEVKYLTGFILILLLEGIFTNSASAIEYSDLHHKSKFD SKRLSNAKMSFINPTQLEN	60
TD97	MGEFEVKYLTGFILILLLEGIFTNSASAIEYSDLHHKSKFD SKRLSNAKMSFINPTQLEN	
TD15	MGEFEVKYLTGFILILLLEGIFTNSASAIEYSDLHHKSKFD SKRLSNAKMSFINPTQLEN	
N315	MGEFEVKYLTGFILILLLEGIFTNSASAIEYSDLHHKSKFD SKRLSNAKMSFINPTQLEN	
COL	MGEFEVKYLTGFILILLLEGIFTNSASAIEYSDLHHKSKFD SKRLSNAKMSFINPTQLEN	
	*****	
TD44	KNTNDRLLKHDL LFHDMFVN VASKKDFKVEFENEAL SKKFINKNID IYAGS SYECHGGA	120
TD97	KNTNDRLLKHDL LFHDMFVN VASKKDFKVEFENEAL SKKFINKNID IYAGS SYECHGGA	
TD15	KNTNDRLLKHDL LFHDMFVN VASKKDFKVEFENEAL SKKFINKNID IYAGS SYECHGGA	
N315	KNTNDRLLKHDL LFHDMFVN VASKKDFKVEFENEAL SKKFINKNID IYAGS SYECHGGA	
COL	KNTNDRLLKHDL LFHDMFVN DDWKKDFKVEFENEAL SKKFINKD IDIFAG NYGYGCHGGA	
	*****	
	*****	
TD44	TNKTQC SYGGV TLSDNNK-----	138
TD97	TNKTQC SYGGV TLSDNNK-----	
TD15	TNKTQC SYGGV TLSDNNK-----	
N315	TNKTQC SYGGV TLSDNNK-----	
COL	TNKTQC SYGGV TLSDNNKYDDYKNIPCNLWIDGHQTEIELTAVKTKKKIVTIQELEVQLR	
	*****	
TD44	-----	240
TD97	-----	
TD15	-----	
N315	-----	
COL	NYLNEKYKLYEQGGDIVKG YVKYYN DDEQ NVEYDFYN LNGEYGREVLKMYADNKTINS DK	
TD44	-----	250
TD97	-----	
TD15	-----	
N315	-----	
COL	LHLDIYLFKS	

**Figure S2.** Alignment of amino acid sequences of intact SEIW (a), truncated SEIW with an intact SEIW of strain COL (b). Amino acid numbers are indicated for intact SEIW.

TD188 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD112 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 COL MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD8 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD7 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD3 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD110 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKFDSKRLSNAKMSFIN--PT  
 TD123 MGEFEVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKLDSKRLYNAKVSFAN--PT  
 TD158 MGELEVVKYLTLGFLILLLLEGIFTNSASAIEYS--DLHHKSKLDSKRLYNAKVSFAN--PT  
 SEA MKKTAFTLLLFIALTLLTSPVNGSEKSEEINEKDLRKKSELQGTALGNLKQIYYYNEKA  
 \* : .. \* : \* \* . :...\* . : \* . \*\*:\*\*\*\*: . \* \* \* : :  
 60

TD188 QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 TD112 QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 COL QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 TD8 QLENKNTKDRLLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 TD7 QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKNIDIYAGSYSYEC  
 TD3 QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKNIDIYAGSYSYEC  
 TD110 QLENKNTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKNIDIYAGSYSYEC  
 TD123 DLENKKTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 TD158 DLENKKTNDRLKHDLFHDMFVNDDWKKDFKVEFENEALSKKFINKDIDIFAGNYGYGC  
 SEA KTNKESHDQFLQHTILFKGFTTDHSWYNDLLVDFDSKDIVDKYKGKKVDLYGAYGYQC  
 . \*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:\*\*\*:  
 120

TD188 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQTEIELTAVTKKKIVTIQELE  
 TD112 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQTEIELTAVTKKKIVTIQELE  
 COL HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQAEIELTAVTKKKIVTIQELE  
 TD8 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQAEIELTAVTKKKIVTIQELD  
 TD7 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQAEIELTAVTKKKIVTIQELD  
 TD3 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQAEIELTAVTKKKIVTIQELD  
 TD110 HGGATNKTCQSYGGVTLSDNNKYDDYKNIPCNLWIDGHQAEIELTAVTKKKIVTIQELD  
 TD123 HGGETNKTCQSYGGVTLSDNNKYDNDKNIPCNLWIDGHQTEIELTAVTKKKIVTIQELD  
 TD158 HGGETNKTCQSYGGVTLSDNNKYDNDKNIPCNLWIDGHQTEIELTAVTKKKIVTIQELD  
 SEA AGGTPNKTACMYGGVTLHDNNRLEEKKVPINLWLWLDGKQNTVPLETVKTNKKNVTVQELD  
 \*\*\* .\*\*\* \* \*\*\*\*\*: \*\*\*: : \* :\*\*\*:\*\*\*:\*\*\*: : \* :\*\*\*:\*\*\*:\*\*\*:  
 180

TD188 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYYNDDQNVEYDFYNLNGEYGREVLKMYADN  
 TD112 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYYNDDQNVEYDFYNLNGEYGREVLKMYADN  
 COL VQLRNYLNEKYKLYEQ---GGDIVKGYVKYYNDDQNVEYDFYNLNGEYGREVLKMYADN  
 TD8 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHNDDEQNIYENFYNLGEYGYEVLKMYADN  
 TD7 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHNDDEQNIYENFYNLGEYGYEVLKMYADN  
 TD3 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHNDDEQNIYENFYNLGEYGYEVLKMYADN  
 TD110 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHNDDEQNIYENFYNLGEYGYEVLKMYADN  
 TD123 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHND-EKNVEYDFYNLNGEYGYEVLKMYADN  
 TD158 VQLRNYLNEKYKLYEQ---GGDIVKGYVKYHNDDEKNVEYDFYNLNGEYGYEVLKMYADN  
 SEA LQARRYLQECKYNLYNSDVFDGKVQRGLIVFHTSTEPVNYDLFGAQGQYSNTLRIYRDN  
 :\* .\*\*\*:\*\*\*:\*\*\*: .\*. : \* : :.. \* :\*\*\*:\*\*\*: :\*\*\*: . :\*\*\*:  
 240

TD188 KTINSKDLHLDIYLFKS  
 TD112 KTINSKDLHLDIYLFKS  
 COL KTINSKDLHLDIYLFKS  
 TD8 KTINSKDLHLDIYLFKS  
 TD7 KTINSKDLHLDIYLFKS  
 TD3 KTINSKDLHLDIYLFKS  
 TD110 KTINSKDLHLDIYLFKS  
 TD123 KTINSKDLHLDIYLFKS  
 TD158 KTINSKDLHLDIYLFKS  
 SEA KTINSENMHIDIYLYTS  
 \*\*\*\*\*:\*\*\*:\*\*\*\*\*: \*

**Figure S3.** Alignment of amino acid sequences of intact SEIW and SEA. Amino acid numbers are indicated for SEA.

**Table S1 Detection of PVL, TSST-1, and enterotoxin (-like) genes in nasal isolates**

Toxin genes	coa -genotype (no. of isolates)												Total n=110 (%)	
	Ia (7)	IIa (3)	IIIa (15)	IVb (11)	Va (10)	Vb (9)	VIa (22)	VIc (1)	VIIa (18)	VIIb (24)	VIIIa (1)	Xa (18)	XIb (5)	
<i>lukS-PV-lukF-PV</i> (PVL)	0	0	2	0	0	0	11	0	1	0	0	0	1	15 (13.6)
<i>tst-1</i> (TSST-1)	0	2	1	0	0	0	0	0	0	1	0	0	0	4 (3.6)
Enterotoxin (-like) genes														
<i>sea</i>	0	0	0	7	0	0	12	0	1	2	0	0	0	22 (20)
<i>seb</i>	0	1	3	0	1	0	1	0	0	8	0	1	0	15 (13.6)
<i>sec</i>	0	1	0	0	1	2	10	0	0	3	0	6	0	23 (20.9)
<i>seg</i>	3	1	0	0	3	0	3	0	0	7	1	1	0	19 (17.3)
<i>seh</i>	0	0	0	0	0	0	0	0	2	1	0	2	0	5 (4.5)
<i>sei</i>	3	2	0	0	6	0	7	0	1	9	1	3	0	32 (29.1)
<i>selj</i>	0	0	0	0	0	0	0	0	0	0	0	4	0	4 (3.6)
<i>sek</i>	0	0	1	1	0	0	0	0	2	9	0	0	0	13 (11.8)
<i>sel</i>	1	0	1	0	0	3	7	0	1	5	1	6	0	25 (22.7)
<i>sem</i>	3	2	0	0	7	0	4	0	0	8	1	3	0	28 (25.5)
<i>sen</i>	4	1	0	0	6	0	1	0	0	8	0	1	0	21 (19.1)
<i>seo</i>	3	2	0	0	6	0	3	0	0	7	1	1	0	23 (20.9)
<i>sep</i>	0	0	5	0	0	0	0	0	0	3	0	0	0	8 (7.3)
<i>seq</i>	0	0	1	1	0	0	0	0	1	6	0	0	0	9 (8.2)
<i>ser</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	3 (2.7)
<i>ses</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	3 (2.7)
<i>set</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	3 (2.7)
<i>selu</i>	3	1	0	0	3	0	3	0	0	4	1	1	0	16 (14.5)
<i>selw</i>	4	3	10	8	7	7	17	1	13	20	1	14	2	107 (97.3)
<i>selx</i>	4	3	10	8	8	7	17	1	13	19	1	14	1	106 (96.4)
<i>sely</i>	1	0	0	1	0	0	1	0	9	11	0	6	4	33 (30)
Enterotoxin genes clusters														
<i>g, i, m, n, o, u</i>	4	1	1	0	2	0	1	0	0	3	0	1	0	13 (11.8)
<i>g, i, m, n, o</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	2 (1.8)
<i>j, r, s, t</i>	0	0	0	0	0	0	0	0	0	0	0	3	0	3 (2.7)
<i>k, q</i>	0	0	1	1	0	0	0	0	1	6	0	0	0	9 (8.1)

**Table S2 Detection of PVL, TSST-1, and enterotoxin (-like) genes in hand isolates**

Toxin genes	coa -genotype (no. of isolates)												Total n=34 (%)	
	Ia (7)	IIa (3)	IIIa (15)	IVb (11)	Va (10)	Vb (9)	VIa (22)	VIc (1)	VIIa (18)	VIIb (24)	VIIIa (1)	Xa (18)	XIb (5)	
<i>lukS-PV-lukF-PV</i> (PVL)	0	0	0	0	1	0	1	0	1	0	0	0	0	3 (11.3)
<i>tst-1</i> (TSST-1)	0	0	1	0	0	0	0	0	0	0	0	0	0	1 (2.9)
Enterotoxin(-like) genes														
<i>sea</i>	0	0	0	2	1	0	4	0	1	1	0	0	0	9 (26.5)
<i>seb</i>	0	0	2	0	1	0	0	0	0	2	0	0	0	5 (14.7)
<i>sec</i>	0	0	0	0	0	0	3	0	1	1	0	3	0	8 (23.5)
<i>seg</i>	3	0	0	0	2	0	0	0	0	2	0	0	0	7 (20.6)
<i>sei</i>	3	0	0	0	2	0	1	0	0	2	0	1	0	9 (26.5)
<i>selj</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (2.9)
<i>sek</i>	0	0	2	0	1	0	0	0	2	2	0	0	0	7 (20.6)
<i>sel</i>	0	0	0	0	0	1	3	0	1	1	0	3	0	9 (26.5)
<i>sem</i>	3	0	1	0	2	0	0	0	0	2	0	1	0	9 (26.5)
<i>sen</i>	2	0	0	0	2	0	0	0	0	2	0	1	0	7 (20.6)
<i>seo</i>	3	0	0	0	2	0	0	0	0	2	0	0	0	7 (20.6)
<i>sep</i>	0	0	2	0	1	0	0	0	0	2	0	0	0	5 (14.7)
<i>seq</i>	0	0	2	0	1	0	0	0	2	2	0	0	0	7 (20.6)
<i>ser</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (2.9)
<i>ses</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (2.9)
<i>set</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (2.9)
<i>selu</i>	3	0	0	0	2	0	0	0	0	2	0	0	0	7 (20.6)
<i>selw</i>	3	0	5	3	3	2	5	0	5	4	0	4	0	34 (100)
<i>selx</i>	3	0	5	3	2	2	5	0	5	4	0	4	0	33 (97.9)
<i>sely</i>	1	0	1	0	0	0	0	0	2	0	0	3	0	7 (20.6)
Enterotoxin genes clusters														
<i>g, i, m, n, o, u</i>	2	0	0	0	2	0	0	0	0	2	0	0	0	6 (17.6)
<i>g, i, m, n, o</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1 (2.9)
<i>j, r, s, t</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	1 (2.9)
<i>k, q</i>	0	0	2	0	1	0	0	0	2	2	0	0	0	7 (20.6)

**Table S3** Identical *coa* types and toxin gene profile in same individual

No.	Age/ Sex	Isolate ID	Hand swab (H) / Nasal swab (N)	<i>coa</i> type	enterotoxin(-like) genes, PVL genes
1	22/M	TD10	H	Xa	<i>sec, sei, sel, selx, sely, selw</i>
		TD9	N		
2	27/M	TD16	H	IVb	<i>sea, selx</i>
		TD15	N		
3	22/M	TD20	H	VIa	<i>sea, sei, sel, selx, selw</i>
		TD19	N		
4	25/F	TD22	H	Xa	<i>sei, ses, set, ser, selx, selw</i>
		TD21	N		
5	26/M	TD35	H	IVb	<i>sea, selx, sew</i>
		TD34	N		
6	25/M	TD42	H	VIIa	<i>selx, selw</i>
		TD41	N		
7	22/M	TD46	H	IIIa	<i>seb, sep, selx</i>
		TD45	N		
8	40/M	TD155	H	Vb	<i>selx, selw</i>
		TD107	N		
9	22/F	TD156	H	VIIb	<i>sea, seg, sei, sem, sen, seo, seu, selx</i>
		TD104	N		
10	28/M	TD157	H	VIa	<i>sea, sel, selx, selw, pvl (lukS-PV-lukF-PV)</i>
		TD110	N		
11	22/M	TD156	H	Ia	<i>seg, sei, sem, sen, seo, seu, selx, selw</i>
		TD104	N		
12	25/M	TD165	H	Vb	<i>sel, selx, selw</i>
		TD164	N		
13	25/F	TD100	H	VIa	<i>selx, selw</i>
		TD99	N		
14	28/M	TD166	H	VIIa	<i>selx, selw</i>
		TD132	N		
15	29/M	TD104	H	VIIb	<i>seb, sek, sep, seq, selx, sely, selw</i>
		TD103	N		
16	32/F	TD177	H	VIa	<i>sea, selx, selw</i>
		TD106	N		
17	40/M	TD102	H	Xa	<i>sec, sel, selx, sely</i>
		TD141	N		

**Table S4** Different *coa* types and/or toxin gene profile in same individual

No.	Age/Sex	Strain ID	Hand swab (H) / Nasal swab (N)	<i>coa</i> type	enterotoxin (-like) genes, TSST-1 gene
1	24/F	TD18	H	IIIa	<i>selx, selw</i>
		TD17	N	VIIb	<i>sec, seg, sei, sel, sem, sen, seo, selx</i>
2	42/M	TD30	H	VIIb	<i>sec, seg, sei, sel, sem, sen, seo, seu, selx</i>
		TD29	N	VIIb	<i>sec, seg, sei, sel, sem, sen, seo, selx</i>
3	45/F	TD158	H	Va	<i>sea, seg, sei, sem, sen, seo, seu, selx, selw</i>
		TD111	N	Va	<i>seg, sei, sem, sen, seo, seu, selx</i>
4	23/F	TD159	H	IIIa	<i>sek, sel, seq, selx, tst-1</i>
		TD112	N	IIIa	<i>sek, sem, seq, selx, tst-1</i>
5	24/F	TD160	H	VIIa	<i>sek, seq, selx, selw</i>
		TD115	N	VIIa	<i>seh, sek, selx, selw</i>
6	27/M	TD97	H	Ia	<i>seg, sei, sem, sen, seo, seu, selx, sely, selw</i>
		TD118	N	Xa	<i>seg, sei, sem, sen, seo, seu, selx, selw</i>
7	25/M	TD98	H	VIIa	<i>sea, sec, sek, sel, seq, selx, selw</i>
		TD118	N	VIIa	<i>sea, seh, sei, sek, sel, seq, selx, selw</i>
8	23/M	TD161	H	Vla	<i>sea, sel, selx, selw</i>
		TD121	N	VIIb	<i>sea, sei, sel, selx, selw</i>
9	21/F	TD163	H	VIIb	<i>seb, sek, sep, seq, selx, sely, selw</i>
		TD127	N	VIIb	<i>seb, sek, sep, selx, sely, selw</i>
10	28/F	TD128a	H	Vla	<i>seb, seg, sei, sem, seo, seu</i>
		TD128b	N	VIIa	<i>selx, selw</i>
11	26/F	TD134	H	Ia	<i>seg, sei, sem, seo, seu, selx, selw</i>
		TD133	N	Ia	<i>seg, sei, sem, sen, seo, seu, selx, selw</i>
12	29/M	TD167	H	IVb	<i>selx, selw</i>
		TD136	N	Xa	<i>sej, ses, set, ser, selx, selw</i>
13	29/F	TD139	H	IIIa	<i>sek, sep, seq, selx, sely, selw</i>
		TD138	N	VIIb	<i>sek, selx, sely, selw</i>
14	25/F	TD173	H	Va	<i>seb, sek, sep, seq</i>
		TD144	N	Va	<i>sei, sem, seo, seu, selx, selw</i>
15	27/F	TD174	H	Va	<i>seg, sei, sem, sen, seo, seu, selx</i>
		TD145	N	VIIb	<i>seg, sei, sem, sen, seo, seu, selx</i>
16	22/M	TD105	H	Xa	<i>sec, sel, sem, sen, selx, sely</i>
		TD146	N	Xa	<i>sec, sel, sem, selx, sely</i>
17	27/M	TD176	H	IIIa	<i>seb</i>
		TD147	N	IIIa	<i>seb, sep, selx</i>

**Table S5 Identities (Percentage) of *se/w* nucleotide sequences (upper right) and deduced amino acid sequences (lower left) among the selected strains**

Strain	Identity with strain																		SEA		
	Group1						Group2						Group3						Group6		
	TD101	TD123	TD158	H-MRSA-15	RF-122	TD112	TD188	COL	TD160	TD115	TD191	TD21	MW2	TD44	TD97	TD15	N315	TD7	TD3	TD110	TD8
TD101	91.0	91.5	90.2	87.4	96.2	96.0	92.7	91.5	91.5	91.1	91.1	91.5	87.7	87.7	87.7	87.7	89.7	89.7	89.7	91.5	58.2
TD123	96.0	99.2	95.2	93.3	94.4	94.4	94.4	92.3	92.3	91.1	91.1	91.5	89.3	89.3	89.3	88.5	92.1	92.1	92.1	94.0	57.5
TD158	96.3	99.5	95.2	92.4	94.4	94.4	94.4	92.7	92.7	92.3	92.3	91.1	88.6	88.6	88.6	87.8	92.1	92.1	92.1	94.0	57.4
H-MRSA-15	95.8	97.3	97.6	90.8	92.9	92.9	93.6	91.5	91.5	91.0	91.0	90.7	87.1	87.1	87.1	88.4	90.5	90.5	90.5	92.5	57.8
RF122	96.3	97.1	97.2	97.1		89.1	89.1	87.6	84.5	84.5	84.5	82.9	87.4	87.4	87.4	87.4	89.9	89.9	89.9	88.2	58.5
TD112	96.2	96.2	96.2	96.2	95.8		100	100	96.2	96.2	95.7	95.7	95.3	94.3	94.3	94.3	93.5	95.6	95.6	95.6	98.8
TD188	96.0	96.3	96.3	96.3	95.9	99.9		100	96.2	96.2	95.7	95.7	95.3	94.3	94.3	94.3	93.5	95.6	95.6	95.6	98.8
COL	96.3	96.1	96.3	96.3	95.8	100	99.9		96.2	96.2	95.7	95.7	95.3	94.3	94.3	94.3	93.5	95.6	95.6	95.6	98.8
TD160	95.6	95.6	95.9	95.9	95.6	97.3	97.5	97.5		100	99.6	99.6	100	91.0	91.0	91.0	91.0	96.6	96.6	96.6	96.6
TD115	95.6	95.6	95.9	95.9	95.6	97.3	97.5	97.5	100		99.6	99.6	100	91.0	91.0	91.0	91.0	96.6	96.6	96.6	96.6
TD191	95.5	95.5	95.8	95.8	95.5	97.2	97.3	97.3	99.9	99.9	100		99.6	91.0	91.0	91.0	91.0	96.6	96.6	96.6	96.6
TD21	95.5	95.5	95.8	95.8	95.5	97.2	97.3	97.3	99.9	99.9	100		99.6	91.0	91.0	91.0	91.0	96.2	96.2	96.2	96.2
MW2	95.5	95.8	95.8	95.8	95.6	97.5	97.6	97.5	99.9	99.9	99.7	99.7	99.7	89.5	89.5	89.5	89.5	95.8	95.8	95.8	95.8
TD44	95.0	94.7	95.2	95.2	95.4	97.2	97.4	97.2	96.4	96.4	96.3	96.3	96.6		100	100	99.3	97.9	97.9	97.9	93.6
TD97	95.0	94.7	95.2	95.2	95.4	97.2	97.4	97.2	96.4	96.4	96.3	96.3	96.6	100		100	99.3	97.9	97.9	97.9	93.6
TD15	95.0	94.7	95.0	95.2	95.2	97.2	97.4	97.2	96.4	96.4	96.3	96.3	96.6	100	100	100	99.3	97.9	97.9	97.9	93.6
N315	95.1	94.7	95.4	95.4	95.4	97.2	97.3	97.2	96.6	96.6	96.4	96.4	96.6	100	100	100	100	97.1	97.1	97.1	92.8
TD7	94.6	95.1	95.1	95.1	95.8	97.4	97.5	97.3	98.1	98.1	98.0	98.0	98.3	98.3	98.3	98.3	98.3	100	100	100	96.0
TD3	94.6	95.1	95.1	95.1	95.8	97.4	97.5	97.3	98.1	98.1	98.0	98.0	98.3	98.3	98.3	98.3	98.3	100	100	100	96.0
TD110	94.6	95.1	95.1	95.1	95.8	97.4	97.5	97.3	98.1	98.1	98.0	98.0	98.3	98.3	98.3	98.3	98.3	100	100	100	96.0
TD8	95.5	96.0	95.8	95.8	95.6	99.1	99.2	99.1	98.0	98.0	97.9	97.9	98.1	96.8	96.8	96.8	96.8	98.0	98.0	98.0	57.4
SEA (similarity)	76.2	73.2	73.2	67.5	70.8	74	74	77.7	77.2	76.4	77.2	76.4	78.2	78.2	78.2	78.2	78.2	78.2	78.2	73.6	
SEA (identity))	41.4	40.6	40.9	40.9	31.7	39.4	39.4	41.7	42.6	40.3	42.6	40.3	39.1	39.1	39.1	34.5	34.5	39.4	39.1	39.8	

Table S6 Primers used for PCR amplification of *S. argenteus* genes

Target gene	Primer	sequence (5'-3')	Product size
thermonuclease	Sta-arg-nucF1	CTATTAAATAATTGTAAAAGTGTAG	
	Sta-arg-nucR1	CTGATTCGATAATAAACATAACGTG	840bp (+Sta-arg-nucF1)
<i>orfX-cas1</i>	orfX-AB	ATGAAAATCACCATTTAGCTGTAGG	
	Sta-argR3	ATTCTCCGCCACAATAGCTGC	ca. 600bp (+orfX-AB)
	Sta-argR1	AAGCCTTGCGCTTGTGCGACTGA	ca. 1kb (+orfX-AB)
	Sta-argF1	CATAAATCCAAAAACAGGGCTCTACATC	
	Sta-argR2	CCAAATTCTATCTCTAGTTCTCCCAG	ca. 4kb (+Sta-argF1)
	Sta-argR4	GATGGTAAAGGC GGCGTCATTTGG	ca. 1.7kb (+Sta-argF1)
	Sta-argF2	CTTAATAATCCTTACCAAGAGCGACC	ca. 2.5kb (+Sta-argR2)
	Sta-argF5	TGAGAGTTCTAAATCTCCAC	
	Sta-argR5	CCGAGTTCTAATAATCGAGTACGA	ca. 2.6kb (+Sta-argF5)