

Contig id	Start	Stop	Strand	Gene	Sequence name	Scope	Element type	Element subtype	Class	Subclass	Method	Target length	Ref. sequence length	% Coverage of ref. sequence	% Identity to reference sequence	Alignment length	Accession of closest sequence	Name of closest sequence
Staphylococcus_aureus_31_c1	38847	39779	+	lukE	bi-component leukocidin LukED subunit E	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	311	311	100.00	99.68	311	RCV70079	bi-component leukocidin LukED subunit E
Staphylococcus_aureus_31_c1	39784	40764	+	lukD	bi-component leukocidin LukED subunit D	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	327	327	100.00	94.50	327	CAA73668	bi-component leukocidin LukED subunit D
Staphylococcus_aureus_31_c1	52416	53120	+	splA	serine protease SplA	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	235	235	100.00	99.57	235	ABD31004	serine protease SplA
Staphylococcus_aureus_31_c1	53248	53967	+	splB	serine protease SplB	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	240	240	100.00	99.58	240	ABD31003	serine protease SplB
Staphylococcus_aureus_31_c1	427948	428883	+	lukS-PV	Panton-Valentine bi-component leukocidin subunit S	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	312	312	100.00	99.68	312	AGW3387	Panton-Valentine bi-component leukocidin subunit S
Staphylococcus_aureus_31_c1	428888	429862	+	lukF-PV	Panton-Valentine bi-component leukocidin subunit F	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	325	325	100.00	98.77	325	BAA24008	Panton-Valentine bi-component leukocidin subunit F
Staphylococcus_aureus_31_c2	321699	322418	+	sel	staphylococcal enterotoxin type L	plu s	VIRULE NCE	VIRULE NCE	NA	NA	EXACTX	240	240	100.00	100.00	240	AMG4053	staphylococcal enterotoxin type L
Staphylococcus_aureus_31_c2	322591	323388	-	sec2	staphylococcal enterotoxin type C2	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	266	266	100.00	99.25	266	AAA2662	staphylococcal enterotoxin type C2
Staphylococcus_aureus_31_c3	54324	57872	+	cna	collagen adhesin Cna polysaccharide	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLASTX	1183	1183	100.00	98.99	1183	BAB96477	collagen adhesin Cna polysaccharide
Staphylococcus_aureus_31_c3	79565	80614	-	icaC	intercellular adhesin biosynthesis	plu s	VIRULE NCE	VIRULE NCE	NA	NA	EXACTX	350	350	100.00	100.00	350	AUU5856	intercellular adhesin biosynthesis

Staphylococcus_aureus_31_c3	124522	126048	+	aur	/export protein IcaC zinc metalloprotease aureolysin	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLAST X	509	509	100.00	99.41	509	EHO93748.1	/export protein IcaC zinc metalloprotease aureolysin
Staphylococcus_aureus_31_c3	361426	362400	-	hlg B	bi-component gamma-hemolysin HlgAB/HlgCB subunit B	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLAST X	325	325	100.00	97.54	325	CAA57278.1	bi-component gamma-hemolysin HlgAB/HlgCB subunit B
Staphylococcus_aureus_31_c3	362405	363349	-	hlg C	HlgCB subunit C	plu s	VIRULE NCE	VIRULE NCE	NA	NA	BLAST X	315	315	100.00	97.46	315	CAA57277.1	HlgCB subunit C
Staphylococcus_aureus_31_c3	363920	364846	-	hlg A	bi-component gamma-hemolysin HlgAB subunit A multidrug efflux MFS	plu s	VIRULE NCE	VIRULE NCE	NA	NA	EXACTX	309	309	100.00	100.00	309	AUU5466.9.1	bi-component gamma-hemolysin HlgAB subunit A multidrug efflux MFS
Staphylococcus_aureus_31_c3	597306	598745	+	lmr S	transporter LmrS multidrug efflux MATE	plu s	STRESS	BIOCIDE	MACROLIDE/PHENICOL	CHLORAMPHENICOL/ERYTHROMYCIN	BLAST X	480	480	100.00	99.38	480	AAW3846.4.1	transporter LmrS multidrug efflux MATE
Staphylococcus_aureus_31_c4	129581	130933	-	mepA	transporter MepA tetracycline efflux MFS	plu s	AMR	AMR	EFFLUX	EFFLUX	BLAST X	451	451	100.00	99.33	451	BAB41547.1	transporter MepA tetracycline efflux MFS
Staphylococcus_aureus_31_c4	360925	362274	-	tet(38)	transporter Tet(38) staphylococcal	core	AMR	AMR	TETRACYCLINE	TETRACYCLINE	EXACTX	450	450	100.00	100.00	450	WP_00110.0294.1	transporter Tet(38) staphylococcal
Staphylococcus_aureus_31_c4	429132	429854	-	seh	enterotoxin type H beta-lactam sensor/signal transducer	plu s	VIRULE NCE	VIRULE NCE	NA	NA	EXACTX	241	241	100.00	100.00	241	AAA1977.7.1	enterotoxin type H beta-lactam sensor/signal transducer
Staphylococcus_aureus_31_c4	448421	449395	-	mecR1	MecR1	core	AMR	AMR	BETA-LACTAM	METHICILLIN	PARTIALX	325	585	55.56	100.00	325	WP_00095.2923.1	MecR1
Staphylococcus_aureus_31_c4	449495	451498	+	mecA	PBP2a family beta-	core	AMR	AMR	BETA-LACTAM	METHICILLIN	EXACTX	668	668	100.00	100.00	668	WP_00072.1310.1	PBP2a family beta-

					lactam-resistant peptidoglycan transpeptidase MecA complement													lactam-resistant peptidoglycan transpeptidase MecA complement	
Staphylococcus_aureus_31_c5	830	833			inhibitor	plu	VIRULE	VIRULE			EXAC							ADL23798	inhibitor
	25	72	-	scn	SCIN-A	s	NCE	NCE	NA	NA	TX	116	116	100.00	100.00	116	.1	SCIN-A	
Staphylococcus_aureus_31_c5	848	853			staphylokinase	plu	VIRULE	VIRULE			BLAST							CAA24957	staphylokinase
	73	61	-	sak	staphylococcal	s	NCE	NCE	NA	NA	X	163	163	100.00	99.39	163	.1	staphylococcal	
Staphylococcus_aureus_31_c5	870	878			enterotoxin type A	plu	VIRULE	VIRULE			EXAC							BAV60816	enterotoxin type A
	73	43	-	sea	staphylococcal	s	NCE	NCE	NA	NA	TX	257	257	100.00	100.00	257	.1	staphylococcal	
Staphylococcus_aureus_31_c5	121	122			enterotoxin type Q	plu	VIRULE	VIRULE			BLAST							EYN56163	enterotoxin type Q
	762	487	+	seq	staphylococcal	s	NCE	NCE	NA	NA	X	242	242	100.00	98.76	242	.1	staphylococcal	
Staphylococcus_aureus_31_c5	122	123			enterotoxin type K	plu	VIRULE	VIRULE			BLAST							AAW3643	enterotoxin type K
	514	236	+	sek	delta-hemolysin	s	NCE	NCE	NA	NA	X	241	242	99.59	97.10	241	9.1	delta-hemolysin	
Staphylococcus_aureus_31_c5	143	143				plu	VIRULE	VIRULE			BLAST							AGU62139	
	296	373	-	hld		s	NCE	NCE	NA	NA	X	26	26	100.00	96.15	26	.1		