Table 5. Nonorthologous ORFs in Staphylococcus epidermidis
 ATCC 12228

ORF ID	or arrond go do	OHF's in Staphylococcus epidermidis. ATCC 12228
טווו ווט	COG*	Product
Transport sys	tems	
SE1106	-	ABC transporter (membrane spanning protein)
SE0137	D	Capsular polysaccharide synthesis enzyme Cap5B
	E	
SE0105		Arginine/oirnithine antiporter
SE0222	Е	Glycine betaine/carnitine/choline ABC transporter (ATP-bindin) opuCA
SE0223	E	OpuCB protein
SE0225	E	OpuCD protein
SE2004	E	Amino acid ABC transporter-like protein
SE2015	E	OpuCD protein
SE2018		
	E	Glycine betaine/carnitine/choline ABC transporter (ATP-bindin) opuCA
SE2130	E	D-serine/D-alanine/glycine transporter
SE2101	G	PTS enzyme II glucose-specific factor IIABC component
SE0123	GEPR	Sugar transporter
SE0196	GEPR	Transmembrane efflux pump protein
SE0241	GEPR	Multidrug resistance protein
	GEPR	
SE1757		Multidrug resistance protein
SE2238	GEPR	TcaB protein
SE2396	GEPR	Transporter
SE0146	M	Conserved hypothetical protein
SE0259	M	Glycine betaine transporter opuD-like protein
SE2016	М	Glycine betaine/carnitine/choline ABC transporter (osmoprotec) opuCC
SE0062	P	
		Copper-transporting ATPase copA
SE0073	P	Cadmium efflux system accesory protein
SE0074	Р	Putative divalent heavy-metal cations transporter
SE0078	Р	Cadmium resistance transporter, putative
SE0084	Р	Mercuric transport protein
SE0126	Р	Copper-transporting ATPase copA
SE0138	P	Arsenical resistance operon trans-acting ArsD
SE0251	P	ABC transporter, periplasmic binding component
SE0334	Р	Arsenic efflux pump protein
SE0335	Р	Arsenic efflux pump protein
SE0462	Р	Conserved hypothetical protein
SE1515	Р	Putative cadmium resistance transporter
SE1955	Р	Copper export proteins
SE1957	Р	Copper export proteins
SE0117	Q Q	ABC transporter (ATP-binding protein)
SE0140	R	Putative membrane protein
SE2170	R	Anaerobic dicarboxylate transport
Regulation sy	stems	
SE1636	-	AgrD protein
SE0107	E	Arginine repressor
SE0081	K	Conserved hypothetical protein
		·· · · · · · · · · · · · · · · · · · ·
SE0093	K	Transcriptional regulator tetR-family
SE0104	K	Transcription regulator Crp/Fnr family protein
SE0139	K	Arsenical resistance operon repressor-like protein
SE1642	K	Sucrose operon repressor
SE1871	K	Transcription regulator
SE1891		
	K	Transcription regulator RoiR family
	K	Transcription regulator ApriR family Transcriptional regulator ApriR family
SE2410	K	Transcriptional regulator AcrR family
SE2410 SE1102	K KG	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor
SE2410 SE1102 SE0121	K KG T	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase
SE2410 SE1102	K KG	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor
SE2410 SE1102 SE0121 SE0120	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase
SE2410 SE1102 SE0121	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase
SE2410 SE1102 SE0121 SE0120	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045	K KG T TK nts -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063	K KG T TK nts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064	K KG T TK nts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Truncated transposase Truncated transposase Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065	K KG T TK nts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Truncated transposase Truncated transposase Truncated transposase Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064	K KG T TK nts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Truncated transposase Truncated transposase Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065	K KG T TK nts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Truncated transposase Truncated transposase Truncated transposase Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066	K KG T TK nts - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100	K KG T TK onts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257	K KG T TK Ints - - - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355	K KG T TK 	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483	K KG T TK Ints - - - - - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495	K KG T TK onts - - - - - - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483	K KG T TK Ints - - - - - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495	K KG T TK onts - - - - - - - - - -	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568	K KG T TK onts	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase Conserved hypothetical protein
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568 SE0590 SE0551	K KG T TK 	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568 SE0590 SE0551 SE0652	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0590 SE0590 SE0552 SE0668	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568 SE0590 SE0651 SE0662 SE0668 SE0702	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568 SE0590 SE0651 SE0652 SE0668 SE0702 SE0711	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0483 SE0495 SE0568 SE0590 SE0661 SE0668 SE0702 SE0711 SE0808	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0588 SE0590 SE0651 SE0662 SE0668 SE0702 SE0711 SE0808 SE0809	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0065 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0568 SE0590 SE0651 SE0652 SE0668 SE0701 SE0808 SE0701 SE0808 SE0790 SE0899	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase
SE2410 SE1102 SE0121 SE0120 Mobile eleme SE0042 SE0045 SE0063 SE0064 SE0066 SE0067 SE0100 SE0257 SE0355 SE0483 SE0495 SE0588 SE0590 SE0651 SE0662 SE0668 SE0702 SE0711 SE0808 SE0809	K KG T TK	Transcriptional regulator AcrR family Lactose phosphotransferase system repressor Two-component sensor histidine kinase Response regulator Abortive phage resistance protein Truncated transposase

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SE1005
                         Truncated transposase
  SE1044
                         Truncated transposase
  SE1219
                         Truncated transposase
  SE1319
                         Truncated transposase
  SE1363
                         Truncated transposase
  SE1386
                         Truncated transposase
  SE1454
                         Truncated transposase
                         Similar to phage phi PVL amidase
  SE1470
  SE1475
                         Abortive phage resistance protein
  SE1539
                         Truncated transposase
  SE1839
                         Truncated transposase
  SE1899
                         Truncated transposase
  SE1982
                         Truncated transposase
  SE1990
                         Truncated transposase
  SE2078
                         Truncated transposase
  SE2134
                         Truncated transposase
  SE2153
                         Truncated transposase
  SE2203
                         Truncated transposase
  SE2235
                         Truncated transposase
  SE2338
                         Truncated transposase
               L
  SE0051
                         Conserved hypothetical protein
  SE0056
               L
                         Cassette chromosome recombinase B
  SE0057
               L
                         Cassette chromosome recombinase A
  SE0059
               L
                         Cassette chromosome recombinase A
  SE0071
                         Transposase for IS-like element
  SE0076
               L
                         Truncated transposase
  SE0079
               L
                         Transposase for IS-like element
  SE0101
               L
                         Transposase
               L
                         Putative replication initiation protein Rep
  SE0111
  SE0282
               L
                         Tansposase
  SE0628
               L
                         Conserved hypothetical protein
  SE0667
               L
                         Transposase
                         Conserved hypothetical protein
  SE0675
               L
                         Conserved hypothetical protein
  SE0687
               L
  SE0710
               L
                         Recombinase Sin
  SE0988
               L
                         Integrase XerD family protein
  SE1013
               L
                         IS605/IS200-like transposase
  SE1292
                         IS605/IS200-like transposase
  SE1453
                         Conserved hypothetical protein
  SE1455
               L
                         Transposase
  SE1467
                         Integrase
               L
  SE1472
               L
                         Integrase
  SE1487
                         Replication-associated protein
               L
  SF1509
               L
                         Integrase
                         Transposase
  SE1721
               L
  SE1900
               L
                         Transposase
  SE1983
               L
                         Transposase
  SE2079
               L
                         Transposase
  SE2208
               L
                         IS605/IS200-like transposase
  SE2260
                         Conserved hypothetical protein
Virulence factors and antibiotics resistance
  SE0722
                         Serine protease HtrA
  SE0828
                         Lipoprotein VsaC
  SE0848
                         Phenol soluble modulin \beta1/\beta2
  SE0849
                         Phenol soluble modulin \beta 1/\beta 2
  SE1634
                         \delta-Haemolysin
                         Ser-Asp rich fibrinogen-binding protein
  SE1632
               Κ
  SE0185
               R
                         Glycerol ester hydrolase
               R
  SE0245
                         Triacylglycerol lipase precursor
  SE2403
               R
                         Glycerol ester hydrolase
Other function assigned
  SE0086
                         Organomercurial lyase
  SE0709
                         Alcohol dehydrogenase
  SE1104
                         Phosphohydrolases, Icc family
  SE2057
                         Thiamine phosphate synthase
  SE2394
                         Poly (glycerol-phosphate) α-glucosyltransferase
               С
  SE0077
                         Dihydrolipoamide dehydrogenase component of pyruvate dehydrogenase E3
  SE0080
               0000000
                         Regulatory protein
                         Dihydrolipoamide dehydrogenase
  SE0085
  SE0195
                         Putative NADH-dependent flavin oxidoreductase
  SF0235
                         Glycerol dehydrogenase
  SE0253
                         Dihydrolipoamide dehydrogenase
  SE0254
                         Branched-chain \alpha-keto acid dehydrogenase E1
  SE0255
                         Branched-chain \alpha-keto acid dehydrogenase E1
  SE0256
               С
                         Dihydrolipoamide S-acetyltransferase
  SE1914
               С
                         L-ribulokinase
  SE2145
               С
                         L-lactate dehydrogenase
  SE0096
                         Alginate lyase
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SE0102	Е	Putative carbamate kinase
SE0103	Е	Ornithine carbamoyltransferase
SE0106	Е	Arginine deiminase
SE0112	E	Pyridoxal-deC
SE0216	E	Succinyl-diaminopimelate desuccinylase
SE1209	E	Ornithine aminotransferase
SE1656 SE2035	E E	Acetolactate synthase small subunit
SE2058	E	Succinyl-diaminopimelate desuccinylase Glycine oxidase
SE2220	E	Succinyl-diaminopimelate desuccinylase
SE0320	ER	Xylitol dehydrogenase
SE2019	ER	Sorbitol dehydrogenase
SE2098	ER	Sorbitol dehydrogenase-like protein
SE0755	F	Inosine-uridine preferring nucleoside hydrolase
SE1736	F	Deoxyribose-phosphate aldolase
SE2060	F	Thiamine biosynthesis protein
SE0703	G	Glucose-6-phosphate 1-dehydrogenase
SE0705	G	Glucose-6-phosphate 1-dehydrogenase
SE1161	G	Glycerol-3-phosphate dehydrogenase
SE1781	G	6-Phospho-β-galactosidase
SE0181	Н	8-Amino-7-oxononanoate synthase
SE0194 SE1976	H H	Thiamine biosynthesis lipoprotein Uroporphyrin-III C-methyltransferase
SE2061	H	Molybdopterin biosynthesis protein moeB
SE2178	Н.	Uroporphyrin-III C-methyltransferase
SE0997	i	Cardiolipin synthetase-like protein
SE0026	J	Spermidine acetyltransferase
SE0046	J	Spermidine acetyltransferase
SE0946	J	Ribosome-binding factor A
SE1164	J	30S ribosomal protein S1
SE1813	J	50S ribosomal protein L14
SE0043	L	Type I restriction enzyme R protein
SE0044	L	Probable specificity determinant HsdS
SE0091 SE0108	L L	Type I restriction enzyme R protein Type I restriction-modification system endonuclease
SE0106 SE0115	L	Coenzyme PQQ synthesis protein E
SE0706	Ĺ	UvrA-like protein
SE1482	L	DNA topoisomerase III topB
SE0025	M	Teichoic acid biosynthesis protein F
SE0168	М	Galactosamine-containing minor teichoic acid biosynthesis protein
SE0170	M	Galactosamine-containing minor teichoic acid biosynthesis protein
SE1480	M	Sortase
SE2041	М	Poly (glycerol-phosphate) α -glucosyltransferase
SE2199	М	Teichoic acid biosynthesis protein F
SE2199 SE2318	M M	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) $lpha$ -glucosyltransferase
SE2199 SE2318 SE2393	M M M	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α -glucosyltransferase Poly (glycerol-phosphate) α -glucosyltransferase
SE2199 SE2318 SE2393 SE0072	M M M N	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α -glucosyltransferase Poly (glycerol-phosphate) α -glucosyltransferase Lipoprotein signal peptidase
SE2199 SE2318 SE2393 SE0072 SE2397	M M M N	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α -glucosyltransferase Poly (glycerol-phosphate) α -glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B
SE2199 SE2318 SE2393 SE0072	M M M N	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α -glucosyltransferase Poly (glycerol-phosphate) α -glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127	M M M N N	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356	M M N N Q Q	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α -glucosyltransferase Poly (glycerol-phosphate) α -glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197	M M M N N Q Q	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157	M M N N Q Q QR R R	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154	M M N N Q Q R R R R	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266	M M N N Q Q QR R R	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158	M M N N Q Q R R R R	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158	M M N N Q Q R R R R R	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017	M M M N N Q Q Q R R R R R R S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024	M M M N N Q Q Q R R R R R R S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027	M M M N N Q Q Q R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024	M M M N N Q Q QR R R R R R S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028	M M M N N Q Q Q R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyttransferase Poly (glycerol-phosphate) α-glucosyttransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0027 SE0024 SE0027 SE0028 SE0029	M M M N N Q Q QR R R R R R S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041	M M M N N Q Q Q R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050	M M M N N Q Q R R R R R R S S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-0xo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2333 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0052	M M M N N Q Q R R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2338 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0052 SE0053	M M M N N Q Q R R R R R R S S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2333 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0052	M M M N N Q Q R R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0052 SE0053 SE0054	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0050 SE0052 SE0053 SE0054 SE0055	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2333 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0053 SE0054 SE0055 SE0058	M M M N N Q Q R R R R R R R S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE2199 SE2318 SE2338 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0055 SE0058 SE0056 SE0058 SE0060 SE0061 SE0068	M M M N N Q Q R R R R R R S S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2393 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0033 SE0041 SE0047 SE0049 SE0055 SE0058 SE0058 SE0058 SE0058 SE0060 SE0061 SE0068 SE0070	M M M N N Q Q Q R R R R R R R S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Malate:quinone oxidoreductase Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE2199 SE2318 SE2338 SE0072 SE2397 SE0127 SE2356 SE0197 SE0157 SE0226 SE0266 SE2154 SE2158 Unknown SE0017 SE0024 SE0027 SE0028 SE0029 SE0031 SE0032 SE0033 SE0041 SE0047 SE0049 SE0050 SE0055 SE0058 SE0056 SE0058 SE0060 SE0061 SE0068	M M M N N Q Q R R R R R R S S S S S S S S S S S S	Teichoic acid biosynthesis protein F Poly (glycerol-phosphate) α-glucosyltransferase Poly (glycerol-phosphate) α-glucosyltransferase Lipoprotein signal peptidase Type-1 signal peptidase Type-1 signal peptidase 1B Putative multicopper oxidases 2-Oxo-hepta-3-ene-1,7-dioate hydratase Acetoin(diacetyl)reductase Malate:quinone oxidoreductase Tributyrin esterase Malate:quinone oxidoreductase Coenzyme A disulfide reductase Malate:quinone oxidoreductase Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein

SE0083		
	_	Conserved hypothetical protein
SE0087	_	Conserved hypothetical protein
SE0088	S	Hypothetical protein
	S	
SE0089		Hypothetical protein
SE0092	S	Hypothetical protein
SE0097	S	Hypothetical protein
SE0098	-	Conserved hypothetical protein
SE0099	S	Hypothetical protein
SE0109	S	Hypothetical protein
SE0113	S	Hypothetical protein
SE0114	-	Conserved hypothetical protein
SE0116	S	Hypothetical protein
SE0118	S	Hypothetical protein
SE0119	S	Hypothetical protein
SE0122	S	Hypothetical protein
SE0124	-	
		Immunodominant antigen B
SE0125	S	Hypothetical protein
SE0128	-	Conserved hypothetical protein
SE0131	-	Conserved hypothetical protein
SE0141	S	Hypothetical protein
SE0143	S	Hypothetical protein
SE0144	S	Conserved hypothetical protein
SE0148	S	Hypothetical protein
SE0149	S	Hypothetical protein
SE0150	S	Hypothetical protein
SE0151	S	Hypothetical protein
SE0153	-	Conserved hypothetical protein
SE0154	S	Hypothetical protein
SE0155	S	Hypothetical protein
SE0158	S	Hypothetical protein
SE0159	S	Hypothetical protein
SE0169	S	Hypothetical protein
SE0171	S	Hypothetical protein
SE0172	S	Hypothetical protein
SE0173	S	Hypothetical protein
SE0174	S	Hypothetical protein
SE0176	S	Hypothetical protein
SE0177	S	Hypothetical protein
SE0178	S	Hypothetical protein
SE0186	-	Conserved hypothetical protein
SE0187	_	Conserved hypothetical protein
SE0190	S	
		Hypothetical protein
SE0192	S	Hypothetical protein
SE0200	S	Hypothetical protein
SE0204	S	Hypothetical protein
	S	Hypothetical protein
SE0207		Hypothetical protein
SE0207 SE0230	S	
	S S	Hypothetical protein
SE0230		Hypothetical protein Multidrug resistance protein
SE0230 SE0233	S	Multidrug resistance protein Hypothetical protein
SE0230 SE0233 SE0239	S GEPR	Multidrug resistance protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240	S GEPR S	Multidrug resistance protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248	S GEPR S S R	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260	S GEPR S S R S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265	S GEPR S S R S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268	S GEPR S S R S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279	S GEPR S S R S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280	S GEPR S S R S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0302	S GEPR S S R S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0265 SE0268 SE0279 SE0280 SE0302 SE0316	S GEPR S S R S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0302 SE0316 SE0328	S GEPR S S R S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0316 SE0328 SE0333	S GEPR S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0302 SE0302 SE0316 SE0328 SE0333 SE0336	S GEPR S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0316 SE0328 SE0333	S GEPR S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0302 SE0302 SE0316 SE0328 SE0333 SE0336	S GEPR S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0302 SE0316 SE0328 SE0333 SE0336 SE0345	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0248 SE0260 SE0265 SE0268 SE0279 SE0280 SE0302 SE0316 SE0328 SE0333 SE0333 SE03345 SE0377	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0240 SE0240 SE0246 SE0260 SE0265 SE0265 SE0279 SE0280 SE0302 SE0316 SE0328 SE0333 SE0333 SE0336 SE0377 SE0378	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein
SE0230 SE0233 SE0233 SE0240 SE0240 SE0246 SE0260 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE0336 SE0345 SE0377 SE0378 SE0391	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein
SE0230 SE0233 SE0233 SE0240 SE0246 SE0246 SE0265 SE0265 SE0265 SE0279 SE0280 SE0316 SE0328 SE0333 SE0333 SE0336 SE0345 SE0377 SE0378 SE0391 SE0393	S GEPR S S R S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0246 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE0345 SE0377 SE0377 SE0391 SE0393 SE0394 SE0394 SE0394	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0239 SE0240 SE0246 SE0246 SE0260 SE0265 SE0268 SE0279 SE0280 SE0302 SE0316 SE0333 SE0336 SE03377 SE0377 SE0378 SE0391 SE0391 SE0393 SE0394 SE0416 SE0417	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0260 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0333 SE0336 SE0377 SE0378 SE0391 SE0393 SE0393 SE0394 SE0394 SE0416 SE0417 SE0453	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0260 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE03377 SE0378 SE0391 SE0391 SE0394 SE0394 SE0394 SE0416 SE0417 SE0453 SE0458	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE0230 SE0233 SE0233 SE0240 SE0246 SE0246 SE0265 SE0265 SE0265 SE0280 SE0377 SE0333 SE0336 SE0345 SE0377 SE0377 SE0378 SE0391 SE0393 SE0394 SE0394 SE0394 SE0416 SE0417 SE0417 SE0453 SE0458 SE0458 SE0469	S GEPR S S R S S . S S S S S S S S . S . S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0260 SE0265 SE0268 SE0279 SE0280 SE0316 SE0328 SE0333 SE0336 SE0345 SE0377 SE0377 SE0378 SE0391 SE0391 SE0394 SE0417 SE0417 SE0417 SE0453 SE0458 SE0469 SE0476	S GEPR S S R S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0265 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE0345 SE0377 SE0377 SE0393 SE0394 SE0416 SE0417 SE0453 SE0453 SE0458 SE0469 SE0476 SE0482	S GEPR S S R S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0260 SE0265 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0333 SE0336 SE0345 SE0377 SE0378 SE0391 SE0393 SE0393 SE0394 SE0416 SE0417 SE0453 SE0458 SE0476 SE0476 SE0476 SE0482 SE0496	S GEPR S S S S S S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0260 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0333 SE0336 SE0377 SE0378 SE0391 SE0391 SE0416 SE0417 SE0453 SE0458 SE0469 SE0476 SE0496 SE0497	S GEPR S S R S S - S S S S S S S S - S - S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0265 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE03377 SE0378 SE0391 SE0391 SE0394 SE0416 SE0458 SE0458 SE0476 SE0476 SE0476 SE0497 SE0498	S GEPR S S R S S . S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0265 SE0265 SE0265 SE0265 SE0302 SE0302 SE0316 SE0328 SE0333 SE0333 SE03345 SE0377 SE0378 SE0391 SE0394 SE0416 SE0417 SE0416 SE0417 SE0458 SE0458 SE0458 SE0458 SE0476 SE0482 SE0496 SE0497 SE0498 S	S GEPR R S S R S S . S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE0230 SE0233 SE0233 SE0239 SE0240 SE0246 SE0265 SE0265 SE0268 SE0279 SE0302 SE0316 SE0328 SE0333 SE0336 SE03377 SE0378 SE0391 SE0391 SE0394 SE0416 SE0458 SE0458 SE0476 SE0476 SE0476 SE0497 SE0498	S GEPR S S R S S . S S S S S S S S S S S S S S	Multidrug resistance protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein

SE0552	S	Hypothetical protein
SE0555	S	Hypothetical protein
SE0567	S	Hypothetical protein
SE0570	-	Conserved hypothetical protein
SE0572	S	Hypothetical protein
SE0574	S	Hypothetical protein
SE0575	-	Conserved hypothetical protein
SE0582	S	Hypothetical protein
SE0589	S S	Hypothetical protein
SE0597 SE0603	S	Hypothetical protein Hypothetical protein
SE0611	S	Hypothetical protein
SE0612	S	Hypothetical protein
SE0661	S	Hypothetical protein
SE0671	-	Conserved hypothetical protein
SE0704	S	Hypothetical protein
SE0708	S	Hypothetical protein
SE0719	-	Conserved hypothetical protein
SE0730	S	Hypothetical protein
SE0732	-	Truncated Pre protein
SE0733	S	Hypothetical protein
SE0734	-	Conserved hypothetical protein
SE0735	-	Conserved hypothetical protein
SE0737	S	Hypothetical protein
SE0739	S	Hypothetical protein
SE0742	S	Hypothetical protein
SE0820	S	Hypothetical protein
SE0829	S	Hypothetical protein
SE0846 SE0847	S	Hypothetical protein Hypothetical protein
SE0847 SE0870	S	Secretory antigen SsaA
SE0870	S	Hypothetical protein
SE0874 SE0882	-	Conserved hypothetical protein
SE0919	-	Conserved hypothetical protein
SE0920	S	Hypothetical protein
SE0961	-	Competence-damage inducible protein
SE0992	-	Conserved hypothetical protein
SE0993	S	Hypothetical protein
SE0994	-	Conserved hypothetical protein
SE1001	-	Conserved hypothetical protein
SE1021	S	Hypothetical protein
SE1056	S	Hypothetical protein
SE1084	S	Hypothetical protein
SE1085	S	Hypothetical protein
SE1095	S	Hypothetical protein
SE1098	S	Hypothetical protein
SE1101	S	Hypothetical protein
SE1103	Q	Conserved hypothetical protein
SE1112		
	S	Hypothetical protein
SE1124	S	Conserved hypothetical protein
SE1129	S -	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149	S - S	Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein
SE1129 SE1149 SE1173	S - S S	Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE1129 SE1149 SE1173 SE1189	S - S S S	Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223	S - S S S	Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239	S S S S S	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316	S	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362	s . s s s s s s s	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364	s . s s s s s s s s	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362	s . s s s s s s s	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395	5 . 5 5 5 5 5 5 5 5 5	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399	5 . 5 5 5 5 5 5 5 5	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399 SE1420	9.99999999999	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399 SE1420 SE1445	9 . 999999999999	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399 SE1440 SE1445 SE1465	9 . 9 9 9 9 9 9 9 9 9 9 9 9	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399 SE1420 SE1445 SE1465 SE1466	9 . 9999999999999 . 99	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1399 SE1420 SE1445 SE1466 SE1466 SE1468 SE1469 SE1471	9 , 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1365 SE1420 SE1445 SE1465 SE1466 SE1466 SE1468 SE1468 SE1471 SE1473	9 , 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1316 SE1362 SE1364 SE1395 SE1399 SE1420 SE1445 SE1465 SE1466 SE1468 SE1469 SE1469 SE1471 SE1473 SE1473	9 . 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1173 SE1189 SE1223 SE1223 SE1239 SE1316 SE1362 SE1399 SE1420 SE1445 SE1465 SE1466 SE1468 SE1469 SE1471 SE1471 SE1473 SE1474 SE1476	9 . 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1420 SE1445 SE1465 SE1466 SE1468 SE1469 SE1471 SE1471 SE1473 SE1474 SE1476 SE1476 SE1476	9 . 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1420 SE1445 SE1466 SE1466 SE1468 SE1469 SE1471 SE1473 SE1473 SE1474 SE1476 SE1477 SE1477 SE1477	9 . 99999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein LtrC-like protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1364 SE1362 SE1364 SE1395 SE1420 SE1445 SE1466 SE1468 SE1469 SE1471 SE1473 SE1474 SE1474 SE1476 SE1477 SE1477 SE1477 SE1477 SE1477 SE1477	9 . 9 9 9 9 9 9 9 9 9 9 9 9 9 . 9 9 9 9	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1316 SE1362 SE1364 SE1365 SE1420 SE1445 SE1465 SE1466 SE1468 SE1468 SE1471 SE1473 SE1474 SE1476 SE1477 SE1477 SE1477 SE1477 SE1479 SE1481	9 , 9 9 9 9 9 9 9 9 9 9 9 9 9 , 9 9 9 9	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1316 SE1362 SE1364 SE1395 SE1395 SE1420 SE1445 SE1465 SE1466 SE1468 SE1469 SE1477 SE1477 SE1477 SE1477 SE1477 SE1477 SE1478 SE1481 SE1483	9 . 9 9 9 9 9 9 9 9 9 9 9 9 9 . 9 9 9 9	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1399 SE1445 SE1465 SE1466 SE1466 SE1468 SE1469 SE1477 SE1473 SE1474 SE1477 SE1477 SE1478 SE1479 SE1479 SE1481 SE1483 SE1483 SE1484	9 . 99999999999999 . 99999 . 9 9 9	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein Conserved hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1395 SE1420 SE1445 SE1465 SE1466 SE1468 SE1469 SE1471 SE1477 SE1477 SE1478 SE1479 SE1479 SE1479 SE1479 SE1479 SE1481 SE1483 SE1484 SE1484 SE1484 SE1485	9.9999999999999999999999999999999999999	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein
SE1129 SE1149 SE1149 SE1173 SE1189 SE1223 SE1239 SE1316 SE1362 SE1364 SE1399 SE1445 SE1465 SE1466 SE1466 SE1468 SE1469 SE1477 SE1473 SE1474 SE1477 SE1477 SE1478 SE1479 SE1479 SE1481 SE1483 SE1483 SE1484	9 . 99999999999999 . 99999 . 9 9 9	Conserved hypothetical protein Conserved hypothetical protein Conserved hypothetical protein Hypothetical protein Hypothetical protein Hypothetical protein Conserved hypothetical protein Conserved hypothetical protein LtrC-like protein Hypothetical protein Conserved hypothetical protein

SE1489	-	Secretory antigen SsaA-like protein
SE1490	-	Putative ATPase TraE
SE1491	-	Conserved hypothetical protein
SE1492 SE1493	S S	Hypothetical protein
SE1493 SE1494	-	Hypothetical protein Conserved hypothetical protein
SE1495	_	Conserved hypothetical protein
SE1496	S	Hypothetical protein
SE1497	Ĺ	Hypothetical protein
SE1498	-	Conserved hypothetical protein
SE1499	S	Hypothetical protein
SE1500	S	Hypothetical protein
SE1501	S	Hypothetical protein
SE1502	S	Hypothetical protein
SE1503	S	Hypothetical protein
SE1504 SE1506	S S	Hypothetical protein Hypothetical protein
SE1500	S	Hypothetical protein
SE1508	S	Hypothetical protein
SE1522	S	Hypothetical protein
SE1534	S	Conserved hypothetical protein
SE1536	-	Conserved hypothetical protein
SE1544	S	Hypothetical protein
SE1556	S	Hypothetical protein
SE1575	-	Immunodominant antigen B
SE1605	-	Conserved hypothetical protein
SE1610	S	Hypothetical protein
SE1614	S	Conserved hypothetical protein
SE1628 SE1641	S S	Hypothetical protein Hypothetical protein
SE1663	S	Hypothetical protein
SE1664	S	Hypothetical protein
SE1665	S	Hypothetical protein
SE1683	S	Hypothetical protein
SE1714	S	Hypothetical protein
SE1741	S	Hypothetical protein
SE1744	-	Conserved hypothetical protein
SE1755	S	Hypothetical protein
SE1773	-	Alkaline shock protein 23
SE1854 SE1859	- S	FDHD protein
SE1872	-	Hypothetical protein SsaA protein
SE1886	_	Protein of pXO2-46
SE1887	-	Conserved hypothetical protein
SE1894	-	Conserved hypothetical protein
SE1909	S	Hypothetical protein
SE1910	S	Hypothetical protein
SE1915	S	Hypothetical protein
SE1916	S	Hypothetical protein
SE1918 SE1921	-	Conserved hypothetical protein
SE1921 SE1922	-	Conserved hypothetical protein Hypothetical protein
SE1931	S S	Hypothetical protein
SE1953	-	Conserved hypothetical protein
SE1954	-	Conserved hypothetical protein
SE1956	S	Hypothetical protein
SE1980	S	Hypothetical protein
SE2006	S	Hypothetical protein
SE2008	N	Lipoprotein precursor
SE2026	-	Conserved hypothetical protein
SE2031	S	Hypothetical protein
SE2037 SE2049	- S	Conserved hypothetical protein Hypothetical protein
SE2050	-	Truncated hypothetical protein
SE2051	1	Unknown
SE2059	-	Conserved hypothetical protein
SE2065	S	Hypothetical protein
SE2072	S	Hypothetical protein
SE2083	S	Hypothetical protein
SE2084	S	Hypothetical protein
SE2100	S	Hypothetical protein
SE2123 SE2124	S -	Hypothetical protein
SE2124 SE2127	S	SsaA protein Hypothetical protein
SE2128	S	Conserved hypothetical protein
SE2136	-	TcaA protein
SE2137	S	Hypothetical protein
SE2138	S	Hypothetical protein
SE2149	S	Hypothetical protein
SE2151	-	Conserved hypothetical protein

SE2152	S	Hypothetical protein
SE2155	S	Hypothetical protein
SE2169	S	Hypothetical protein
SE2173	S	Hypothetical protein
SE2182	S	Hypothetical protein
SE2186	S	Hypothetical protein
SE2190	S	Hypothetical protein
SE2191	-	Conserved hypothetical protein
SE2196	-	Conserved hypothetical protein
SE2198	MG	Conserved hypothetical protein
SE2200	-	Conserved hypothetical protein
SE2202	S	Hypothetical protein
SE2204	L	Conserved hypothetical protein
SE2205	S	Hypothetical protein
SE2206	S	Hypothetical protein
SE2211	S	Hypothetical protein
SE2223	-	Conserved hypothetical protein
SE2224	-	Conserved hypothetical protein
SE2226	S	Hypothetical protein
SE2234	S	Hypothetical protein
SE2237	-	Conserved hypothetical protein
SE2250	S	Hypothetical protein
SE2251	S	Hypothetical protein
SE2252	S	Hypothetical protein
SE2264	-	Conserved hypothetical protein
SE2265	S	Hypothetical protein
SE2304	S	Hypothetical protein
SE2325	-	Conserved hypothetical protein
SE2327	S	Hypothetical protein
SE2331	S	Hypothetical protein
SE2334	-	Conserved hypothetical protein
SE2336	S	Hypothetical protein
SE2340	S	Hypothetical protein
SE2341	S	Conserved hypothetical protein
SE2342	S	Conserved hypothetical protein
SE2343	S	Hypothetical protein
SE2344	S	Hypothetical protein
SE2359	S	Hypothetical protein
SE2361	S	Hypothetical protein
SE2363	S	Hypothetical protein
SE2366	S	Hypothetical protein
SE2368	S	Hypothetical protein
SE2385	S	Hypothetical protein
SE2398	S	Hypothetical protein
SE2399	S	Hypothetical protein
SE2404	S	Hypothetical protein
SE2407	Q	Conserved hypothetical protein
SE2413	Š	Hypothetical protein
		n COGs category described in Fig. 1

^{*} Classification based on COGs category described in Fig. 1.