

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA0007		hypothetical protein
PA0017		conserved hypothetical protein
PA0020		hypothetical protein
PA0026		hypothetical protein
PA0027		hypothetical protein
PA0030		hypothetical protein
PA0039		hypothetical protein
PA0040		conserved hypothetical protein
PA0041		probable hemagglutinin
PA0049		hypothetical protein
PA0050		hypothetical protein
PA0057		hypothetical protein
PA0060		conserved hypothetical protein
PA0071		hypothetical protein
PA0098		hypothetical protein
PA0105	<i>coxB</i>	cytochrome c oxidase, subunit II
PA0112		hypothetical protein
PA0114		conserved hypothetical protein
PA0143	<i>nuh</i>	nonspecific ribonucleoside hydrolase
PA0146		conserved hypothetical protein
PA0151		probable TonB-dependent receptor
PA0160		hypothetical protein
PA0162		probable porin
PA0165		hypothetical protein
PA0186		probable binding protein component of ABC transporter
PA0189		probable porin
PA0190		probable acid phosphatase
PA0192		probable TonB-dependent receptor
PA0203		probable binding protein component of ABC transporter
PA0222		hypothetical protein
PA0234		hypothetical protein
PA0240		probable porin
PA0261		hypothetical protein
PA0270		hypothetical protein
PA0273		probable MFS transporter
PA0274		hypothetical protein
PA0283	<i>sbp</i>	sulfate-binding protein precursor
PA0291	<i>oprE</i>	outer membrane porin OprE precursor
PA0295		probable periplasmic polyamine binding protein
PA0300	<i>spuD</i>	polyamine transport protein
PA0301	<i>spuE</i>	polyamine transport protein
PA0305		hypothetical protein
PA0307		hypothetical protein
PA0309		hypothetical protein
PA0311		hypothetical protein
PA0314		probable binding protein component of ABC transporter
PA0315		hypothetical protein
PA0320		conserved hypothetical protein
PA0323		probable binding protein component of ABC transporter
PA0327		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA0328		hypothetical protein
PA0346		hypothetical protein
PA0347	<i>glpQ</i>	glycerophosphoryl diester phosphodiesterase, periplasmic
PA0348		hypothetical protein
PA0349		hypothetical protein
PA0359		hypothetical protein
PA0360		hypothetical protein
PA0361		probable gamma-glutamyltranspeptidase precursor
PA0365		hypothetical protein
PA0371		hypothetical protein
PA0372		probable zinc protease
PA0379		conserved hypothetical protein
PA0383		conserved hypothetical protein
PA0388		hypothetical protein
PA0421		hypothetical protein
PA0423		conserved hypothetical protein
PA0434		hypothetical protein
PA0451		conserved hypothetical protein
PA0457		hypothetical protein
PA0460		hypothetical protein
PA0468		hypothetical protein
PA0470		probable hydroxamate-type ferrisiderophore receptor
PA0497		hypothetical protein
PA0498		hypothetical protein
PA0499		probable pili assembly chaperone
PA0509	<i>nirN</i>	probable c-type cytochrome
PA0517	<i>nirC</i>	probable c-type cytochrome precursor
PA0518	<i>nirM</i>	cytochrome c-551 precursor
PA0519	<i>nirS</i>	nitrite reductase precursor
PA0521		probable cytochrome c oxidase subunit
PA0536		hypothetical protein
PA0542		conserved hypothetical protein
PA0545		hypothetical protein
PA0572		hypothetical protein
PA0575		conserved hypothetical protein
PA0581		conserved hypothetical protein
PA0594	<i>surA</i>	peptidyl-prolyl cis-trans isomerase SurA
PA0595	<i>ostA</i>	organic solvent tolerance protein OstA precursor
PA0599		hypothetical protein
PA0600		probable two-component sensor
PA0602		probable binding protein component of ABC transporter
PA0604		probable binding protein component of ABC transporter
PA0620		probable bacteriophage protein
PA0630		hypothetical protein
PA0673		hypothetical protein
PA0674		hypothetical protein
PA0679		hypothetical protein
PA0688		hypothetical protein
PA0689		hypothetical protein
PA0690		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA0692		hypothetical protein
PA0693	<i>exbB2</i>	transport protein ExbB2
PA0696		hypothetical protein
PA0697		hypothetical protein
PA0713		hypothetical protein
PA0714		hypothetical protein
PA0719		hypothetical protein of bacteriophage Pfl
PA0721		hypothetical protein of bacteriophage Pfl
PA0723	<i>coaB</i>	coat protein B of bacteriophage Pfl)
PA0724		probable coat protein A of bacteriophage Pfl
PA0731		hypothetical protein
PA0732		hypothetical protein
PA0735		hypothetical protein
PA0740		probable beta-lactamase
PA0753		hypothetical protein
PA0754		hypothetical protein
PA0755		probable porin
PA0757		probable two-component sensor
PA0764	<i>mucB</i>	negative regulator for alginate biosynthesis MucB
PA0766	<i>mucD</i>	serine protease MucD precursor
PA0769		hypothetical protein
PA0777		hypothetical protein
PA0781		hypothetical protein
PA0801		hypothetical protein
PA0806		hypothetical protein
PA0812		hypothetical protein
PA0818		hypothetical protein
PA0827		hypothetical protein
PA0843	<i>plcR</i>	phospholipase accessory protein PlcR precursor
PA0845		conserved hypothetical protein
PA0849	<i>trxB2</i>	thioredoxin reductase 2
PA0850		hypothetical protein
PA0852	<i>cpbD</i>	chitin-binding protein CbpD precursor
PA0856		hypothetical protein
PA0869	<i>pbpG</i>	D-alanyl-D-alanine-endopeptidase
PA0874		hypothetical protein
PA0884		probable C4-dicarboxylate-binding periplasmic protein
PA0888	<i>aotJ</i>	arginine/ornithine binding protein AotJ
PA0912		hypothetical protein
PA0919		hypothetical protein
PA0928		sensor/response regulator hybrid
PA0931		siderophore receptor protein
PA0943		hypothetical protein
PA0946		hypothetical protein
PA0958	<i>oprD</i>	outer membrane porin protein OprD precursor
PA0972	<i>tolB</i>	TolB protein
PA0974		conserved hypothetical protein
PA0976		conserved hypothetical protein
PA0981		hypothetical protein
PA0989		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA0992	<i>cupC1</i>	fimbrial subunit CupC1
PA0993	<i>cupC2</i>	chaperone CupC2
PA0994	<i>cupC3</i>	usher CupC3
PA1005		conserved hypothetical protein
PA1019	<i>mucK</i>	cis,cis-muconate transporter MucK
PA1025		probable porin
PA1043		hypothetical protein
PA1046		hypothetical protein
PA1060		hypothetical protein
PA1074	<i>braC</i>	branched-chain amino acid transport protein BraC
PA1084	<i>flgI</i>	flagellar P-ring protein precursor FlgI
PA1106		hypothetical protein
PA1108		probable MFS transporter
PA1112		conserved hypothetical protein
PA1114		hypothetical protein
PA1115		hypothetical protein
PA1121		conserved hypothetical protein
PA1139		hypothetical protein
PA1148	<i>toxA</i>	exotoxin A precursor
PA1149		hypothetical protein
PA1163		probable glucosyl transferase
PA1166		hypothetical protein
PA1169		probable lipoxxygenase
PA1171		probable transglycolase
PA1173	<i>napB</i>	cytochrome c-type protein NapB precursor
PA1174	<i>napA</i>	periplasmic nitrate reductase protein NapA
PA1178	<i>oprH</i>	outer membrane protein H1 precursor
PA1180	<i>phoQ</i>	two-component sensor PhoQ
PA1233		hypothetical protein
PA1242		hypothetical protein
PA1248	<i>aprF</i>	alkaline protease secretion protein AprF
PA1250	<i>aprI</i>	alkaline proteinase inhibitor AprI
PA1260		probable binding protein component of ABC transporter
PA1266		probable oxidoreductase
PA1271		probable tonB-dependent receptor
PA1286		probable MFS transporter
PA1287		probable glutathione peroxidase
PA1288		probable outer membrane protein precursor
PA1293		hypothetical protein
PA1302		probable heme utilization protein precursor
PA1322		probable TonB-dependent receptor
PA1337	<i>ansB</i>	glutaminase-asparaginase
PA1338	<i>ggt</i>	gamma-glutamyltranspeptidase precursor
PA1342		probable binding protein component of ABC transporter
PA1343		hypothetical protein
PA1352		conserved hypothetical protein
PA1360		conserved hypothetical protein
PA1365		probable siderophore receptor
PA1379		probable short-chain dehydrogenase
PA1381		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA1383		hypothetical protein
PA1408		hypothetical protein
PA1410		probable periplasmic spermidine/putrescine-binding protein
PA1433		conserved hypothetical protein
PA1434		hypothetical protein
PA1445	<i>fliO</i>	flagellar protein FliO
PA1446	<i>fliP</i>	flagellar biosynthetic protein FliP
PA1450		conserved hypothetical protein
PA1451		conserved hypothetical protein
PA1471		hypothetical protein
PA1479	<i>ccmE</i>	cytochrome C-type biogenesis protein CcmE
PA1481	<i>ccmG</i>	cytochrome C biogenesis protein CcmG
PA1482	<i>ccmH</i>	cytochrome C-type biogenesis protein CcmH
PA1483	<i>cycH</i>	cytochrome c-type biogenesis protein
PA1493	<i>cysP</i>	sulfate-binding protein of ABC transporter
PA1494		conserved hypothetical protein
PA1509		hypothetical protein
PA1530		hypothetical protein
PA1537		probable short-chain dehydrogenase
PA1558		hypothetical protein
PA1573		conserved hypothetical protein
PA1577		hypothetical protein
PA1578		hypothetical protein
PA1579		hypothetical protein
PA1600		probable cytochrome c
PA1605		hypothetical protein
PA1606		hypothetical protein
PA1613		hypothetical protein
PA1624		hypothetical protein
PA1635	<i>kdpC</i>	potassium-transporting ATPase, C chain
PA1639		hypothetical protein
PA1645		hypothetical protein
PA1649		probable short-chain dehydrogenase
PA1669		hypothetical protein
PA1680		hypothetical protein
PA1688		hypothetical protein
PA1716	<i>pscC</i>	type III secretion protein PscC
PA1726	<i>bglX</i>	periplasmic beta-glucosidase
PA1734		hypothetical protein
PA1740		hypothetical protein
PA1743		hypothetical protein
PA1744		hypothetical protein
PA1747		hypothetical protein
PA1761		hypothetical protein
PA1762		hypothetical protein
PA1763		hypothetical protein
PA1764		hypothetical protein
PA1765		hypothetical protein
PA1767		hypothetical protein
PA1768		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA1777	<i>oprF</i>	outer membrane protein OprF precursor
PA1798		probable two-component sensor
PA1808		probable permease of ABC transporter
PA1809		probable permease of ABC transporter
PA1810		probable binding protein component of ABC transporter
PA1811		probable solute-binding protein
PA1845		hypothetical protein
PA1846	<i>cti</i>	cis/trans isomerase
PA1855		hypothetical protein
PA1863	<i>modA</i>	molybdate-binding periplasmic protein precursor ModA
PA1868	<i>xqhA</i>	secretion protein XqhA
PA1871	<i>lasA</i>	LasA protease precursor
PA1875		probable outer membrane protein precursor
PA1887		hypothetical protein
PA1893		hypothetical protein
PA1910		probable tonB-dependent receptor protein
PA1914		conserved hypothetical protein
PA1922		probable TonB-dependent receptor
PA1923		hypothetical protein
PA1934		hypothetical protein
PA1946	<i>rbsB</i>	binding protein component precursor of ABC ribose transporter
PA1951		hypothetical protein
PA1952		hypothetical protein
PA1953		hypothetical protein
PA1954		hypothetical protein
PA1955		hypothetical protein
PA1956		hypothetical protein
PA1974		hypothetical protein
PA1977		hypothetical protein
PA1981		hypothetical protein
PA1982	<i>exaA</i>	quinoprotein alcohol dehydrogenase
PA1983	<i>exaB</i>	cytochrome c550
PA2003	<i>bdhA</i>	3-hydroxybutyrate dehydrogenase
PA2004		conserved hypothetical protein
PA2017		hypothetical protein
PA2037		hypothetical protein
PA2044		hypothetical protein
PA2058		probable binding protein component of ABC transporter
PA2059		probable permease of ABC transporter
PA2064	<i>pcoB</i>	copper resistance protein B precursor
PA2070		hypothetical protein
PA2077		hypothetical protein
PA2078		hypothetical protein
PA2089		hypothetical protein
PA2109		hypothetical protein
PA2113		probable porin
PA2124		probable dehydrogenase
PA2128	<i>cupA1</i>	fimbrial subunit CupA1
PA2129	<i>cupA2</i>	chaperone CupA2
PA2130	<i>cupA3</i>	usher CupA3

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA2131	<i>cupA4</i>	fimbrial subunit CupA4
PA2132	<i>cupA5</i>	chaperone CupA5
PA2134		hypothetical protein
PA2135		probable transporter
PA2139		hypothetical protein
PA2150		conserved hypothetical protein
PA2199		probable dehydrogenase
PA2204		probable binding protein component of ABC transporter
PA2209		hypothetical protein
PA2213		probable porin
PA2237		probable glycosyl hydrolase
PA2240		hypothetical protein
PA2257	<i>pvcD</i>	pyoverdine biosynthesis protein PvcD
PA2266		probable cytochrome c precursor
PA2272	<i>pbpC</i>	penicillin-binding protein 3A
PA2282		hypothetical protein
PA2283		hypothetical protein
PA2286		hypothetical protein
PA2289		conserved hypothetical protein
PA2290	<i>gcd</i>	glucose dehydrogenase
PA2291		probable glucose-sensitive porin
PA2295		probable permease of ABC transporter
PA2296		hypothetical protein
PA2309		hypothetical protein
PA2335		probable TonB-dependent receptor
PA2336		hypothetical protein
PA2338		probable binding protein component of ABC maltose/mannitol transporter
PA2349		conserved hypothetical protein
PA2352		probable glycerophosphoryl diester phosphodiesterase
PA2361		hypothetical protein
PA2377		hypothetical protein
PA2385	<i>pvdQ</i>	PvdQ
PA2389		conserved hypothetical protein
PA2395	<i>pvdO</i>	PvdO
PA2398	<i>fpvA</i>	ferripyoverdine receptor
PA2405		hypothetical protein
PA2407		probable adhesion protein
PA2410		hypothetical protein
PA2420		probable porin
PA2421		hypothetical protein
PA2430		conserved hypothetical protein
PA2433		hypothetical protein
PA2434		hypothetical protein
PA2436		hypothetical protein
PA2448		hypothetical protein
PA2450		hypothetical protein
PA2452		hypothetical protein
PA2456		hypothetical protein
PA2460		hypothetical protein
PA2462		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA2463		hypothetical protein
PA2464		hypothetical protein
PA2465		hypothetical protein
PA2466		probable TonB-dependent receptor
PA2474		hypothetical protein
PA2476	<i>dsbG</i>	thiol:disulfide interchange protein DsbG
PA2478		probable thiol:disulfide interchange protein
PA2480		probable two-component sensor
PA2481		hypothetical protein
PA2482		probable cytochrome c
PA2505		probable porin
PA2506		hypothetical protein
PA2521	<i>czcB</i>	RND divalent metal cation efflux membrane fusion protein CzcB precursor
PA2522	<i>czcC</i>	outer membrane protein precursor CzcC
PA2524		probable two-component sensor
PA2526		probable RND efflux transporter
PA2528		probable RND efflux membrane fusion protein precursor
PA2531		probable aminotransferase
PA2539		conserved hypothetical protein
PA2542		conserved hypothetical protein
PA2543		conserved hypothetical protein
PA2548		hypothetical protein
PA2554		probable short-chain dehydrogenase
PA2562		hypothetical protein
PA2569		hypothetical protein
PA2590		hypothetical protein
PA2592		probable periplasmic spermidine/putrescine-binding protein
PA2594		conserved hypothetical protein
PA2595		conserved hypothetical protein
PA2596		conserved hypothetical protein
PA2599		conserved hypothetical protein
PA2614	<i>lola</i>	periplasmic chaperone LolA
PA2633		hypothetical protein
PA2647	<i>nuoL</i>	NADH dehydrogenase I chain L
PA2652		probable chemotaxis transducer
PA2653		probable transporter
PA2656		probable two-component sensor
PA2658		hypothetical protein
PA2659		hypothetical protein
PA2688	<i>pfeA</i>	ferric enterobactin receptor precursor PfeA
PA2689		hypothetical protein
PA2691		conserved hypothetical protein
PA2700		probable porin
PA2708		hypothetical protein
PA2711		probable periplasmic spermidine/putrescine-binding protein
PA2712		hypothetical protein
PA2749	<i>endA</i>	DNA-specific endonuclease I
PA2750		hypothetical protein
PA2755	<i>eco</i>	ecotin precursor
PA2760		probable outer membrane protein precursor

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA2761		hypothetical protein
PA2779		hypothetical protein
PA2783		hypothetical protein
PA2787	<i>cpg2</i>	carboxypeptidase G2 precursor
PA2792		hypothetical protein
PA2800		conserved hypothetical protein
PA2807		hypothetical protein
PA2808		hypothetical protein
PA2816		hypothetical protein
PA2836		probable secretion protein
PA2854		conserved hypothetical protein
PA2856	<i>tesA</i>	acyl-CoA thioesterase I precursor
PA2862	<i>lipA</i>	lactonizing lipase precursor
PA2865		probable glycosylase
PA2869		hypothetical protein
PA2870		hypothetical protein
PA2898		hypothetical protein
PA2902		hypothetical protein
PA2910		conserved hypothetical protein
PA2911		probable TonB-dependent receptor
PA2913		hypothetical protein
PA2914		probable permease of ABC transporter
PA2923	<i>hisJ</i>	periplasmic histidine-binding protein HisJ
PA2934		probable hydrolase
PA2939		probable aminopeptidase
PA2949		probable lipase
PA2992		hypothetical protein
PA2997	<i>nqrC</i>	Na <sup>+</sup> -translocating NADH:ubiquinone oxidoreductase subunit Nrq3
PA3003		hypothetical protein
PA3015		hypothetical protein
PA3016		hypothetical protein
PA3020		probable soluble lytic transglycosylase
PA3021		hypothetical protein
PA3032	<i>snrI</i>	cytochrome c SnrI
PA3037		hypothetical protein
PA3038		probable porin
PA3047		probable D-alanyl-D-alanine carboxypeptidase
PA3053		probable hydrolytic enzyme
PA3054		hypothetical protein
PA3060	<i>pelE</i>	hypothetical protein
PA3064	<i>pelA</i>	hypothetical protein
PA3075		hypothetical protein
PA3076		hypothetical protein
PA3080		hypothetical protein
PA3081		conserved hypothetical protein
PA3082	<i>gbt</i>	glycine betaine transmethylase
PA3093		hypothetical protein
PA3105	<i>xcpQ</i>	general secretion pathway protein D
PA3115	<i>fimV</i>	motility protein FimV
PA3125		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA3140		hypothetical protein
PA3145	<i>wbpL</i>	glycosyltransferase WbpL
PA3178		hypothetical protein
PA3186	<i>oprB</i>	outer membrane porin OprB precursor
PA3190		probable binding protein component of ABC sugar transporter
PA3191		probable two-component sensor
PA3203		hypothetical protein
PA3205		hypothetical protein
PA3206		probable two-component sensor
PA3222		hypothetical protein
PA3224		hypothetical protein
PA3227	<i>ppiA</i>	peptidyl-prolyl cis-trans isomerase A
PA3229		hypothetical protein
PA3234		probable sodium:solute symporter
PA3236		probable glycine betaine-binding protein precursor
PA3237		hypothetical protein
PA3238		hypothetical protein
PA3239		conserved hypothetical protein
PA3250		hypothetical protein
PA3252		probable permease of ABC transporter
PA3253		probable permease of ABC transporter
PA3257	<i>prc</i>	periplasmic tail-specific protease
PA3261		hypothetical protein
PA3268		probable TonB-dependent receptor
PA3274		hypothetical protein
PA3279	<i>oprP</i>	outer membrane porin OprP precursor
PA3280	<i>oprO</i>	outer membrane porin OprO precursor
PA3284		hypothetical protein
PA3292		hypothetical protein
PA3296	<i>phoA</i>	alkaline phosphatase
PA3304		conserved hypothetical protein
PA3312		probable 3-hydroxyisobutyrate dehydrogenase
PA3316		probable permease of ABC transporter
PA3318		hypothetical protein
PA3336		probable MFS transporter
PA3339		hypothetical protein
PA3340		hypothetical protein
PA3367		hypothetical protein
PA3369		hypothetical protein
PA3383		binding protein component of ABC phosphonate transporter
PA3391	<i>nosR</i>	regulatory protein NosR
PA3393	<i>nosD</i>	NosD protein
PA3404		probable outer membrane protein precursor
PA3408	<i>hasR</i>	heme acquisition protein HasR
PA3412		hypothetical protein
PA3414		hypothetical protein
PA3421		conserved hypothetical protein
PA3422		hypothetical protein
PA3445		conserved hypothetical protein
PA3449		conserved hypothetical protein

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<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA3462		probable sensor/response regulator hybrid
PA3464		hypothetical protein
PA3472		hypothetical protein
PA3475	<i>pheC</i>	cyclohexadienyl dehydratase precursor
PA3490		probable ferredoxin
PA3497		hypothetical protein
PA3512		probable permease of ABC transporter
PA3513		hypothetical protein
PA3526		probable outer membrane protein precursor
PA3535		probable serine protease
PA3540	<i>algD</i>	GDP-mannose 6-dehydrogenase AlgD
PA3544	<i>algE</i>	outer membrane protein AlgE
PA3545	<i>algG</i>	alginate-c5-mannuronan-epimerase AlgG
PA3546	<i>algX</i>	alginate biosynthesis protein AlgX
PA3547	<i>algL</i>	poly(beta-d-mannuronate) lyase precursor AlgL
PA3550	<i>algF</i>	alginate o-acetyltransferase AlgF
PA3556	<i>arnT</i>	inner membrane L-Ara4N transferase ArnT
PA3558		hypothetical protein
PA3573		probable MFS transporter
PA3576		hypothetical protein
PA3586		probable hydrolase
PA3588		probable porin
PA3610	<i>potD</i>	polyamine transport protein PotD
PA3611		hypothetical protein
PA3619		hypothetical protein
PA3637	<i>pyrG</i>	CTP synthase
PA3647		probable outer membrane protein precursor
PA3648		probable outer membrane protein precursor
PA3669		hypothetical protein
PA3670		hypothetical protein
PA3675		hypothetical protein
PA3681		hypothetical protein
PA3708	<i>wspA</i>	probable chemotaxis transducer
PA3715		hypothetical protein
PA3724	<i>lasB</i>	elastase LasB
PA3737	<i>dsbC</i>	thiol:disulfide interchange protein DsbC
PA3750		hypothetical protein
PA3756		hypothetical protein
PA3772		hypothetical protein
PA3773		hypothetical protein
PA3779		hypothetical protein
PA3785		conserved hypothetical protein
PA3786		hypothetical protein
PA3787		conserved hypothetical protein
PA3819		conserved hypothetical protein
PA3821	<i>secD</i>	secretion protein SecD
PA3835		hypothetical protein
PA3836		hypothetical protein
PA3858		probable amino acid-binding protein
PA3865		probable amino acid binding protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA3883		probable short-chain dehydrogenase
PA3885		hypothetical protein
PA3889		probable binding protein component of ABC transporter
PA3892		conserved hypothetical protein
PA3901	<i>fecA</i>	Fe(III) dicitrate transport protein FecA
PA3902		hypothetical protein
PA3909		hypothetical protein
PA3910		hypothetical protein
PA3922		conserved hypothetical protein
PA3923		hypothetical protein
PA3931		conserved hypothetical protein
PA3938		probable periplasmic taurine-binding protein precursor
PA3946		probable two-component sensor
PA3959		hypothetical protein
PA3974		probable two-component sensor
PA3978		hypothetical protein
PA3992		hypothetical protein
PA3999	<i>dacC</i>	D-ala-D-ala-carboxypeptidase
PA4001	<i>SlfB1</i>	soluble lytic transglycosylase B
PA4020	<i>mpl</i>	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl-meso-diaminopimelate ligase
PA4027		hypothetical protein
PA4034	<i>aqpZ</i>	aquaporin Z
PA4035		hypothetical protein
PA4040		hypothetical protein
PA4045		conserved hypothetical protein
PA4048		hypothetical protein
PA4049		hypothetical protein
PA4063		hypothetical protein
PA4066		hypothetical protein
PA4067	<i>oprG</i>	outer membrane protein OprG precursor
PA4076		hypothetical protein
PA4081	<i>cupB6</i>	fimbrial subunit CupB6
PA4085	<i>cupB2</i>	chaperone CupB2
PA4086	<i>cupB1</i>	probable fimbrial subunit CupB1
PA4099		hypothetical protein
PA4100		probable dehydrogenase
PA4102		probable two-component sensor
PA4107		hypothetical protein
PA4110	<i>ampC</i>	beta-lactamase precursor
PA4118		hypothetical protein
PA4137		probable porin
PA4144		probable outer membrane protein precursor
PA4154		conserved hypothetical protein
PA4156		probable TonB-dependent receptor
PA4159	<i>fepB</i>	ferrienterobactin-binding periplasmic protein precursor FepB
PA4161	<i>fepG</i>	ferric enterobactin transport protein FepG
PA4168		probable TonB-dependent receptor
PA4175	<i>prpL</i>	Pvds-regulated endoprotease, lysyl class
PA4179		probable porin
PA4195		probable binding protein component of ABC transporter

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA4204		conserved hypothetical protein
PA4206	<i>mexH</i>	probable RND efflux membrane fusion protein precursor
PA4220		hypothetical protein
PA4221	<i>fptA</i>	Fe(III)-pyochelin receptor precursor
PA4298		hypothetical protein
PA4301		hypothetical protein
PA4304		probable type II secretion system protein
PA4305		hypothetical protein
PA4309	<i>pctA</i>	chemotactic transducer PctA
PA4321		hypothetical protein
PA4323		hypothetical protein
PA4325		hypothetical protein
PA4340		hypothetical protein
PA4345		hypothetical protein
PA4346		hypothetical protein
PA4347		hypothetical protein
PA4351		probable acyltransferase
PA4355		probable MFS transporter
PA4373		hypothetical protein
PA4374		probable RND efflux membrane fusion protein precursor
PA4377		hypothetical protein
PA4384		hypothetical protein
PA4390		hypothetical protein
PA4391		hypothetical protein
PA4429		probable cytochrome c1 precursor
PA4437		hypothetical protein
PA4453		conserved hypothetical protein
PA4459		conserved hypothetical protein
PA4460		conserved hypothetical protein
PA4487		conserved hypothetical protein
PA4488		conserved hypothetical protein
PA4489		conserved hypothetical protein
PA4490		conserved hypothetical protein
PA4492		conserved hypothetical protein
PA4495		hypothetical protein
PA4496		probable binding protein component of ABC transporter
PA4497		probable binding protein component of ABC transporter
PA4500		probable binding protein component of ABC transporter
PA4501		probable porin
PA4502		probable binding protein component of ABC transporter
PA4514		probable outer membrane receptor for iron transport
PA4533		hypothetical protein
PA4555	<i>pilY2</i>	type 4 fimbrial biogenesis protein PilY2
PA4564		conserved hypothetical protein
PA4571		probable cytochrome c
PA4578		hypothetical protein
PA4579		hypothetical protein
PA4587	<i>ccpR</i>	cytochrome c551 peroxidase precursor
PA4589		probable outer membrane protein precursor
PA4590	<i>pra</i>	protein activator

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA4591		hypothetical protein
PA4592		probable outer membrane protein precursor
PA4607		hypothetical protein
PA4612		conserved hypothetical protein
PA4613	<i>katB</i>	catalase
PA4616		probable c4-dicarboxylate-binding protein
PA4619		probable c-type cytochrome
PA4623		hypothetical protein
PA4624		hypothetical protein
PA4625		hypothetical protein
PA4643		hypothetical protein
PA4648		hypothetical protein
PA4649		hypothetical protein
PA4651		probable pili assembly chaperone
PA4652		hypothetical protein
PA4653		hypothetical protein
PA4661		hypothetical protein
PA4675		probable TonB-dependent receptor
PA4680		hypothetical protein
PA4681		hypothetical protein
PA4682		hypothetical protein
PA4687	<i>hitA</i>	ferric iron-binding periplasmic protein HitA
PA4688	<i>hitB</i>	iron (III)-transport system permease HitB
PA4697		hypothetical protein
PA4708		hypothetical protein
PA4710		probable outer membrane hemin receptor
PA4714		conserved hypothetical protein
PA4736		hypothetical protein
PA4739		conserved hypothetical protein
PA4751	<i>ftsH</i>	cell division protein FtsH
PA4777	<i>pmrB</i>	PmrB
PA4783		conserved hypothetical protein
PA4813	<i>lipC</i>	lipase LipC
PA4815		hypothetical protein
PA4818		conserved hypothetical protein
PA4823		hypothetical protein
PA4824		hypothetical protein
PA4834		hypothetical protein
PA4837		probable outer membrane protein precursor
PA4840		conserved hypothetical protein
PA4844		probable chemotaxis transducer
PA4845	<i>dipZ</i>	thiol:disulfide interchange protein DipZ
PA4856		probable sensor/response regulator hybrid
PA4874		conserved hypothetical protein
PA4879		conserved hypothetical protein
PA4881		hypothetical protein
PA4884		hypothetical protein
PA4886		probable two-component sensor
PA4894		hypothetical protein
PA4898		probable porin

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA4913		probable binding protein component of ABC transporter
PA4915		probable chemotaxis transducer
PA4921		hypothetical protein
PA4922	<i>azu</i>	azurin precursor
PA4933		hypothetical protein
PA4947	<i>amiB</i>	N-acetylmuramoyl-L-alanine amidase
PA4966		hypothetical protein
PA4974		probable outer membrane protein precursor
PA4985		hypothetical protein
PA5022		conserved hypothetical protein
PA5033		hypothetical protein
PA5040	<i>pilQ</i>	type 4 fimbrial biogenesis protein PilQ
PA5048		probable nuclease
PA5076		probable binding protein component of ABC transporter
PA5078		conserved hypothetical protein
PA5082		probable binding protein component of ABC transporter
PA5084		probable oxidoreductase
PA5087		hypothetical protein
PA5088		hypothetical protein
PA5096		probable binding protein component of ABC transporter
PA5103		hypothetical protein
PA5112	<i>estA</i>	esterase EstA
PA5113		hypothetical protein
PA5120		hypothetical protein
PA5121		hypothetical protein
PA5122		hypothetical protein
PA5123		hypothetical protein
PA5133		conserved hypothetical protein
PA5134		probable carboxyl-terminal protease
PA5135		conserved hypothetical protein
PA5136		hypothetical protein
PA5137		hypothetical protein
PA5138		hypothetical protein
PA5139		hypothetical protein
PA5146		hypothetical protein
PA5153		probable periplasmic binding protein
PA5158		probable outer membrane protein precursor
PA5159		multidrug resistance protein
PA5167		probable c4-dicarboxylate-binding protein
PA5169		probable C4-dicarboxylate transporter
PA5183		hypothetical protein
PA5184		hypothetical protein
PA5191		hypothetical protein
PA5207		probable phosphate transporter
PA5212		hypothetical protein
PA5217		probable binding protein component of ABC iron transporter
PA5219		hypothetical protein
PA5223	<i>ubiH</i>	ubiH protein
PA5233		hypothetical protein
PA5248		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA5249		hypothetical protein
PA5254		probable peptidyl-prolyl cis-trans isomerase, FkbP-type
PA5282		probable MFS transporter
PA5284		hypothetical protein
PA5287	<i>amtB</i>	ammonium transporter AmtB
PA5292	<i>pcP</i>	phosphochlorylcholine phosphatase
PA5300	<i>cycB</i>	cytochrome c5
PA5304	<i>dadA</i>	D-amino acid dehydrogenase, small subunit
PA5305		conserved hypothetical protein
PA5306		conserved hypothetical protein
PA5307		hypothetical protein
PA5317		probable binding protein component of ABC dipeptide transporter
PA5325		hypothetical protein
PA5330		hypothetical protein
PA5359		hypothetical protein
PA5363		hypothetical protein
PA5369		hypothetical protein
PA5375	<i>betT1</i>	choline transporter BetT
PA5378		hypothetical protein
PA5388		hypothetical protein
PA5389		probable transcriptional regulator
PA5423		hypothetical protein
PA5441		hypothetical protein
PA5444		conserved hypothetical protein
PA5461		hypothetical protein
PA5462		hypothetical protein
PA5463		hypothetical protein
PA5464		hypothetical protein
PA5467		hypothetical protein
PA5468		probable citrate transporter
PA5472		hypothetical protein
PA5474		probable metalloprotease
PA5478		conserved hypothetical protein
PA5481		hypothetical protein
PA5489	<i>dsbA</i>	thiol:disulfide interchange protein DsbA
PA5490	<i>cc4</i>	cytochrome c4 precursor
PA5491		probable cytochrome
PA5494		hypothetical protein
PA5498		probable adhesin
PA5501	<i>znuB</i>	permease of ABC zinc transporter ZnuB
PA5505		probable TonB-dependent receptor
PA5512		probable two-component sensor
PA5514		probable beta-lactamase
PA5518		probable potassium efflux transporter
PA5520		hypothetical protein
PA5528		hypothetical protein
PA5533		hypothetical protein
PA5537		hypothetical protein
PA5538	<i>amiA</i>	N-acetylmuramoyl-L-alanine amidase
PA5542		hypothetical protein

**Supplementary Table 2. Proteins predicted to use a type I signal peptide for export.**

<b>PAID</b>	<b>Gene</b>	<b>Protein</b>
PA5545		conserved hypothetical protein