

**Table S2**

The expression levels of the differentially expressed genes (TPs vs. HVs) and their product description and subclassification.

<b>Locus</b>	<b>Gene</b>	<b>FC<sup>a</sup></b>	<b>Product /Function<sup>b</sup> [function]<sup>c</sup></b>	<b>Protein Class Assignment<sup>d</sup></b>	<b>Subclass<sup>d</sup></b>
PA14_00820 <sup>e</sup>	<i>tagQ1</i>	-1.70	TagQ1 / [Type VI secretion-associated lipoprotein TagQ]	Membrane proteins; Protein secretion/ export apparatus	T6SS, HS1-T6SS
PA14_00830	<i>tagR1</i>	-1.70	TagR1 / [Type VI secretion posttranslational regulatory protein TagR]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_00875	<i>ppkA</i>	-1.84	PpkA / Serine/threonine protein kinase	Adapation, protection; Protein secretion/ export apparatus; Translation, post-translational modification, degradation	T6SS, HS1-T6SS
PA14_00890	<i>pppA</i>	-1.93	PppA / [serine/threonine phosphoprotein phosphatase]	Protein secretion/export apparatus; Putative enzymes	T6SS, HS1-T6SS
PA14_00900	<i>tagF1</i>	-1.74	TagF / [Type VI secretion-associated protein]	Protein secretion/export apparatus	T6SS, HS1-T6SS
PA14_00910	<i>icmF1</i>	-1.71	IcmF1 / [IcmF domain-containing protein, type VI secretion]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_00925	<i>tssL1</i>	-1.54	TssL1 / [Type IV / VI secretion system, DotU]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_00940	<i>tssK1</i>	-1.70	TssK1 / [Type VI secretion protein]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_00960	<i>tssJ1</i>	-1.82	TssJ1 / [Type VI secretion lipoprotein]	Fatty acid and phospholipid metabolism	T6SS, HS1-T6SS
PA14_00970	<i>PA14_00970</i>	-1.67	/ [Type VI secretion system, FHA domain-containing protein]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_00990	<i>tssA1</i>	-1.85	TssA1 / [Type VI secretion-associated protein, ImpA family]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_01010	<i>hsiB1</i>	-1.79	HsiB1 / [Type VI secretion protein TssB1 or ImpB]	Protein secretion/export apparatus	T6SS, HS1-T6SS
PA14_01020	<i>hsiC1</i>	-1.75	HsiC1 / [Type VI secretion protein TssB1, EvpB or ImpC]	Protein secretion/export apparatus	T6SS, HS1-T6SS
PA14_01030	<i>hcp1</i>	-1.57	Hcp1 / [Hcp1 family type VI secretion system effector]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_01040	<i>tagJ1</i>	-1.52	TagJ1 / [Type VI secretion virulence protein, SciE type]	Protein secretion/export apparatus	T6SS, HS1-T6SS
PA14_01060	<i>tssE1</i>	-1.64	TssE1 / [Type VI secretion system lysozyme-like protein TssE]	Protein secretion/export apparatus	T6SS, HS1-T6SS
PA14_01070	<i>tssF1</i>	-1.56	TssF1 / [Type VI secretion protine TssF or ImpG]	Protein secretion/export apparatus	T6SS, HS1-T6SS

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PA14_01080	<i>tssG1</i>	-1.82	TssG1 / [Type VI secretion protein TssG]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_01100	<i>clpV1</i>	-1.77	ClpV1 / [Type VI secretion ATPase ClpV1]	Translation, post-translational modification, degradation	T6SS, HS1-T6SS
PA14_01110	<i>vgrG1</i>	-1.77	VgrG1 / [Type VI secretion system, Vgr family or ImpA family]	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_01150	<i>eagT6</i>	-2.00	EagT6 / Hypothetical protein	Hypothetical, unclassified, unknown	T6SS, HS1-T6SS
PA14_01160	<i>PA14_01160</i>	-1.77	/ [ImpA family type VI secretion-associated protein; Rhs element Vgr protein]	Hypothetical, unclassified, unknown	T6SS
PA14_01180	<i>PA14_01180</i>	-1.63	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_01200	<i>PA14_01200</i>	-1.64	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_01460	<i>dctA</i>	-1.54	DctA / C4-dicarboxylate transport protein	Transport of small molecules	
PA14_01580	<i>gabP</i>	-1.78	GabP / Gamma-aminobutyrate (GABA) permease	Transport of small molecules	
PA14_01610	<i>PA14_01610</i>	-1.51	/ Hypothetical protein [cupin 2 protein]	Carbon compound catabolism	
PA14_02230	<i>cheW</i>	-1.83	CheW / Purine-binding chemotaxis protein	Chemotaxis	
PA14_02260	<i>PA14_02260</i>	-1.73	/ Two-component response regulator [CheY]	Two-component regulatory systems	
PA14_02520	<i>PA14_02520</i>	-2.34	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_02530	<i>PA14_02530</i>	1.50	/ Hypothetical protein [esterase or alpha/beta hydrolase fold protein]	Hypothetical, unclassified, unknown	
PA14_02550	<i>mdcA</i>	5.86	MdcA / Malonate decarboxylase subunit alpha	Carbon compound catabolism	Malonate
PA14_02560	<i>PA14_02560</i>	4.20	/ Triphosphoribosyl-dephospho-CoA synthase	Biosynthesis of cofactors, prosthetic groups and carriers	Malonate
PA14_02570	<i>mdcC</i>	6.00	MdcC / Malonate decarboxylase subunit delta	Carbon compound catabolism	Malonate
PA14_02580	<i>mdcD</i>	3.00	MdcD / Malonate decarboxylase subunit beta	Carbon compound catabolism	Malonate
PA14_02590	<i>mdcE</i>	4.00	MdcE / Malonate decarboxylase subunit gamma	Carbon compound catabolism	Malonate
PA14_03190	<i>tli3</i>	-1.55	Tli3 / Hypothetical protein; probably T6SS related	Hypothetical, unclassified, unknown	T6SS
PA14_03210	<i>PA14_03210</i>	-1.65	/ Hypothetical protein; probably T6SS related	Hypothetical, unclassified, unknown	T6SS

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PA14_03220	<i>vgrG2b</i>	-1.65	VgrG2b / [ImpA family type VI secretion-associated protein; Rhs element Vgr protein]	Hypothetical, unclassified, unknown	T6SS
PA14_03610	<i>PA14_03610</i>	-1.71	/ Zn-dependent protease with chaperone function	Chaperones and heat shock proteins	
PA14_03700	<i>sbp</i>	2.02	Sbp / Sulfate-binding protein	Transport of small molecules	
PA14_03710	<i>PA14_03710</i>	2.04	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_03790	<i>PA14_03790</i>	-1.54	/ Sensory box GGDEF domain-containing protein	Two-component regulatory system	
PA14_04180	<i>PA14_04180</i>	3.04	/ Hypothetical protein [stress-induced protein YgiW]	Hypothetical, unclassified, unknown	Heavy metals
PA14_04290	<i>PA14_04290</i>	-1.87	/ [Arginine-specific autotransporter of <i>Pseudomonas aeruginosa</i> , AaaA]	Amino acid biosynthesis and metabolism; Membrane proteins	Amino acids
PA14_05110	<i>PA14_05110</i>	-1.54	/ Hypothetical protein [GTPase (dynamin-...)]	Hypothetical, unclassified, unknown	
PA14_05600	<i>PA14_05600</i>	-1.67	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_05620	<i>sahH</i>	-1.73	SahH / S-adenosyl-L-homocysteine hydrolase	Amino acid biosynthesis and metabolism; Central intermediary metabolism	Amino acids
PA14_06420	<i>PA14_06420</i>	-3.09	/ [LamB/YcsF family protein]	Antibiotic resistance and susceptibility	
PA14_06430	<i>PA14_06430</i>	-3.15	/ [acetyl-CoA carboxylase, bitoin carboxyl carrier protein AccB]	Putative enzymes	
PA14_06920	<i>PA14_06920</i>	-1.64	/ Class III pyridoxal phosphate-dependent aminotransferase	Putative enzymes; Transport of small molecules	
PA14_07090	<i>metK</i>	-1.80	MetK / S-adenosylmethionine synthetase	Amino acid biosynthesis and metabolism; Antibiotic resistance and susceptibility; Central intermediary metabolism	Amino acids
PA14_07330	<i>PA14_07330</i>	-1.55	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_07355	<i>PA14_07355</i>	1.93	/ [Alkylhydroperoxidase or carboxymuconolactone decarboxylase family protein]	Hypothetical, unclassified, unknown	
PA14_07400	<i>PA14_07400</i>	-1.56	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_08450	<i>PA14_08450</i>	-1.53	/ Hypothetical protein	Membrane proteins	
PA14_09280	<i>pchF</i>	-1.56	PchF / Pyochelin synthetase	Transport of small molecules	Pyochelin

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PA14_09300	<i>PA14_09300</i>	-1.80	/ ABC transporter ATP-binding protein	Transport of small molecules	Pyochelin
PA14_09320	<i>PA14_09320</i>	-1.81	/ ABC transporter ATP-binding protein	Transport of small molecules	Pyochelin
PA14_11370	<i>PA14_11370</i>	-1.82	/ Lipoprotein	Fatty acid and phospholipid metabolism	
PA14_11410	<i>ribC</i>	-1.75	RibC / Riboflavin synthase subunit alpha	Biosynthesis of cofactors, prosthetic groups and carriers	
PA14_11470	<i>pgpA</i>	1.62	PgpA / Phosphatidylglycerophosphatase A	Fatty acid and phospholipid metabolism	
PA14_12570	<i>PA14_12570</i>	-1.69	/ Transcriptional regulator, AsnC family	Transcriptional regulators	
PA14_13010	<i>PA14_13010</i>	3.08	/ [NLPA lipoprotein or methionine ABC transporter substrate-binding protein]	Hypothetical, unclassified, unknown	
PA14_13130	<i>PA14_13130</i>	-1.59	/ Hypothetical protein [type V secretory pathway, adhesin AidA]	Hypothetical, unclassified, unknown	
PA14_13140	<i>PA14_13140</i>	-1.93	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_13230	<i>moaC</i>	-1.52	MoaC / Molybdenum cofactor biosynthesis protein	Biosynthesis of cofactors, prosthetic groups and carriers	
PA14_13300	<i>PA14_13300</i>	1.74	/ Collagenase-like protease	Translation, post-translational modification, degradation	
PA14_13580	<i>PA14_13580</i>	1.90	/ ABC transporter ATP-binding protein [Glycine betaine/L-proline transport ATP-binding protein]	Transport of small molecules	
PA14_14210	<i>PA14_14210</i>	-1.73	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_14290	<i>PA14_14290</i>	-2.19	/ [Glutathione S-transferase family protein]	Hypothetical, unclassified, unknown	
PA14_14390	<i>PA14_14390</i>	-1.50	/ ABC-type transport protein, periplasmic	Transport of small molecules	
PA14_15030	<i>leuA</i>	-2.12	LeuA / 2-isopropylmalate synthase	Amino acid biosynthesis and metabolism	Amino acids
PA14_15350	<i>PA14_15350</i>	1.88	/ Integrase	Related to phage, transposon, or plasmid	
PA14_16010	<i>PA14_16010</i>	2.29	/ [Long-chain acyl-CoA thioester hydrolase]	Fatty acid and phospholipid metabolism	
PA14_16180	<i>PA14_16180</i>	-1.68	/ Hypothetical protein	Hypothetical, unclassified, unknown	

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PA14_16190	<i>PA14_16190</i>	-1.57	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_16200	<i>PA14_16200</i>	-1.66	/ [Phosphatidylserine/phosphatidylglycerophosphate/cardiolipin synthases,related enzymes]	Hypothetical, unclassified, unknown	
PA14_16660	<i>PA14_16660</i>	2.88	/ Metal-transporting P-type ATPase	Transport of small molecules	Heavy metals
PA14_16840	<i>PA14_16840</i>	-1.74	/ Lipoprotein	Fatty acid and phospholipid metabolism	
PA14_17000	<i>PA14_17000</i>	-3.18	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_17120	<i>cdsA</i>	2.13	CdsA / Phosphatidate cytidyltransferase	Fatty acid and phospholipid metabolism	
PA14_17220	<i>lpxB</i>	1.55	LpxB / Lipid-A-disaccharide synthase	Cell wall / LPS / capsule	
PA14_17340	<i>ispD</i>	1.52	IspD / 2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	Biosynthesis of cofactors, prosthetic groups and carriers	
PA14_17510	<i>PA14_17510</i>	-1.95	/ [putative TolB-like translocation protein]	Protein secretion/export apparatus	
PA14_17600	<i>PA14_17600</i>	-1.54	/ Hypothetical protein	Protein secretion/export apparatus	
PA14_17720	<i>PA14_17720</i>	-1.67	/ LuxR family transcriptional regulator	Transcriptional regulators	
PA14_17930	<i>glpD</i>	-1.60	GlpD / Glycerol-3-phosphate dehydrogenase	Central intermediary metabolism; Energy metabolism	
PA14_17980	<i>glpF</i>	-1.71	GlpF / Glycerol uptake facilitator protein	Transport of small molecules	
PA14_19020	<i>tse3</i>	-1.52	Tse3 / Hypothetical protein T6SS secreted effector protein	Secreted factors (toxins, enzymes, alginate)	T6SS
PA14_19100	<i>rhIA</i>	2.31	RhIA / Rhamnosyltransferase chain A	Secreted factors (toxins, enzymes, alginate)	
PA14_19190	<i>PA14_19190</i>	-1.59	/ Malate dehydrogenase	Central intermediary metabolism	
PA14_19320	<i>PA14_19320</i>	-2.17	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_19490	<i>lsfA</i>	2.37	LsfA / 1-Cys peroxiredoxin LsfA	Adaptation, protection	
PA14_19530	<i>PA14_19530</i>	3.11	/ NAD(P)H-dependent FMN reductase	Central intermediary metabolism	

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PA14_19680	<i>PA14_19680</i>	2.67	/ [Murein hydrolase transporter LgrA]	Membrane proteins; Protein secretion/ export apparatus	
PA14_20010	<i>hasR</i>	-2.27	HasR / Heme uptake outer membrane receptor	Transport of small molecules	Heme
PA14_20390	<i>phnJ</i>	4.75	PhnJ / [Carbon-phosphorus lyase complex subunit]	Transport of small molecules	
PA14_20550	<i>PA14_20550</i>	-1.71	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_21570	<i>PA14_21570</i>	2.99	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_21580	<i>PA14_21580</i>	2.78	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_21590	<i>PA14_21590</i>	3.00	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_21600	<i>PA14_21600</i>	4.18	/ [DoxX family protein]	Membrane proteins	
PA14_21610	<i>oprO</i>	4.92	OprO / Pyrophosphate-specific outer membrane porin	Transport of small molecules	
PA14_22280	<i>PA14_22280</i>	1.72	/ Pirin-related protein	Transcriptional regulators	
PA14_24050	<i>xcpV</i>	-1.68	XcpV / General secretion pathway protein I for T2SS	Protein secretion/export apparatus	T2SS
PA14_24300	<i>PA14_24300</i>	-1.56	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_24330	<i>PA14_24330</i>	-1.52	/ [RND efflux transporter]	Motility and attachment	
PA14_24850	<i>PA14_24850</i>	1.70	/ [Glutaredoxin or thiol-disulfide isomerase and thioredoxin]	Hypothetical, unclassified, unknown	
PA14_24950	<i>PA14_24950</i>	-1.73	/ FAD-dependent glycerol-3-phosphate	Carbon compound catabolism; Energy	
PA14_24960	<i>PA14_24960</i>	-1.71	/ Carbohydrate kinase	Carbon compound catabolism	
PA14_25030	<i>PA14_25030</i>	1.65	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_25410	<i>PA14_25410</i>	-1.55	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_25540	<i>ptpA</i>	1.54	PtpA / Phosphotyrosine protein phosphatase	Amino acid biosynthesis and metabolism	Amino acids
PA14_25620	<i>PA14_25620</i>	1.72	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_25640	<i>plsX</i>	1.53	PlsX / Glycerol-3-phosphate acyltransferase	Fatty acid and phospholipid metabolism	

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PA14_25650	<i>fabD</i>	-1.52	FabD / Malonyl CoA-acyl carrier protein transacylase	Fatty acid and phospholipid metabolism	
PA14_25980	<i>aroF</i>	-2.90	AroF / Phospho-2-dehydro-3-deoxyheptonate aldolase	Amino acid biosynthesis and metabolism	Amino acids
PA14_26020	<i>PA14_26020</i>	-1.63	/ Aminopeptidase	Secreted factors (toxins, enzymes, alginate)	
PA14_27100	<i>lipA</i>	-1.78	LipA / Lactonizing lipase precursor	Secreted factors (toxins, enzymes, alginate)	
PA14_27520	<i>PA14_27520</i>	-1.56	/ Glutathione peroxidase	Adaptation, protection	
PA14_27830	<i>PA14_27830</i>	5.81	/ [Two-component response repressor, PtrA]	Adaptation, protection; Transcriptional regulators	
PA14_28010	<i>PA14_28010</i>	-1.68	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_28390	<i>PA14_28390</i>	-2.00	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_29190	<i>PA14_29190</i>	-1.70	/ Tsi2-like immunity protein	Adaptation, protection	T6SS
PA14_29200	<i>PA14_29200</i>	-1.79	/ Tse2-like effector protein	Secreted factors (toxins, enzymes, alginate)	T6SS
PA14_29330	<i>PA14_29330</i>	-1.91	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_29400	<i>PA14_29400</i>	-1.86	/ Hypothetical protein	Cell wall / LPS / capsule	
PA14_29830	<i>PA14_29830</i>	-1.80	/ Methyltransferase	Antibiotic resistance and susceptibility	
PA14_30700	<i>PA14_30700</i>	1.53	/ Sensor/response regulator hybrid [Hpt sensor hybrid histidine kinase]	Two-component regulatory systems	
PA14_30730	<i>PA14_30730</i>	-1.52	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_30800	<i>PA14_30800</i>	1.60	/ Hypothetical protein	Energy metabolism	
PA14_31040	<i>PA14_31040</i>	1.50	/ Cation efflux system protein	Protein secretion/export apparatus	
PA14_31050	<i>PA14_31050</i>	1.68	/ Hypothetical protein [Heat shock protein HtpX]	Hypothetical, unclassified, unknown	
PA14_31580	<i>PA14_31580</i>	1.83	/ Acyl-CoA dehydrogenase	Fatty acid and phospholipid metabolism; Putative enzymes	

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PA14_31700	<i>PA14_3</i>	-1.71	/ CDP-alcohol phosphatidyltransferase	Fatty acid and phospholipid metabolism;	
PA14_31720	<i>PA14_3</i>	-2.38	/ [Lysophospholipase]	Fatty acid and phospholipid metabolism	
PA14_31750	<i>PA14_3</i>	-1.78	/ Acyltransferase	Fatty acid and phospholipid metabolism	
	1750				
PA14_31760	<i>PA14_3</i>	-1.74	/ Phosphatidate cytidyltransferase	Fatty acid and phospholipid metabolism	
	1760				
PA14_31770	<i>PA14_3</i>	-1.82	/ Oxidoreductase	Energy metabolism	
	1770				
PA14_31820	<i>PA14_3</i>	-2.30	/ Aminotransferase	Amino acid biosynthesis and metabolism	Amino acids
	1820				
PA14_31960	<i>PA14_3</i>	6.80	/ Two-component response regulator [CzrR/CzcR]	Two-component regulatory systems	Heavy metals
	1960				
PA14_31990	<i>czcB</i>	4.50	CzcB / Cobalt/zinc/cadmium efflux RND	Transport of small molecules	Heavy metals
PA14_32250	<i>PA14_3</i>	5.17	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_32270	<i>PA14_3</i>	2.96	/ Porin [outer membrane porin, OprD family]	Transport of small molecules	
PA14_32905	<i>PA14_3</i>	-2.32	/ Hypothetical protein [enterochelin esterase-]	Hypothetical, unclassified, unknown	
PA14_32930	<i>PA14_3</i>	-1.55	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_32985	<i>gcvH2</i>	-1.51	GcvH2 / Glycine cleavage system H protein	Amino acid biosynthesis and metabolism	Amino acids
PA14_33000	<i>gcvP2</i>	-1.95	GcvP2 / Glycine dehydrogenase	Amino acid biosynthesis and metabolism	Amino acids
PA14_33010	<i>glyA2</i>	-1.73	GlyA2 / Serine hydroxymethyltransferase	Amino acid biosynthesis and metabolism	Amino acids
PA14_33030	<i>sdaA</i>	-2.00	SdaA / L-serine dehydratase	Amino acid biosynthesis and metabolism	Amino acids
PA14_33040	<i>gcvT2</i>	-1.55	GcvT2 / Glycine cleavage system protein T2	Amino acid biosynthesis and metabolism;	Amino acids
				Central intermediary metabolism	
PA14_33500	<i>pvdH</i>	-2.35	PvdH / Diaminobutyrate-2-oxoglutarate aminotransferase	Adaptation, protection; Transport of small molecules	Pyoverdine
PA14_33520	<i>PA14_3</i>	-1.55	/ Thioesterase	Adaptation, protection; Biosynthesis of cofactors, prosthetic groups and carriers; Putative enzymes	
	3520				
PA14_33550	<i>PA14_3</i>	-1.83	/ ABC transporter ATP-binding protein	Transport of small molecules	
	3550				
PA14_33680	<i>fpvA</i>	-1.56	FpvA / Ferripyoverdine receptor	Transport of small molecules	Pyoverdine
PA14_33690	<i>pvdE</i>	-2.11	PvdE / Pyoverdine biosynthesis protein	Adaptation, protection; Membrane proteins; Transport of small molecules	Pyoverdine
PA14_33700	<i>pvdF</i>	-1.89	PvdF / Pyoverdine synthetase	Adaptation, protection; Secreted factors (toxins, enzymes, alginate)	Pyoverdine
PA14_33710	<i>pvdO</i>	-1.83	PvdO / [Chromophore maturation protein]	Adaptation, protection	Pyoverdine



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PA14_33720	<i>pvdN</i>	-1.72	PvdN / [Chromophore maturation protein; class V aminotransferase	Adapatation, protection; Transport of small molecules	Pyoverdine
PA14_33750	<i>PA14_3</i>	-1.59	/ Outer membrane protein [pyoverdine efflux]	Transport of small molecules	Pyoverdine
PA14_33810	<i>pvdA</i>	-2.27	PvdA / L-ornithine 5-monooxygenase	Biosynthesis of cofactors, prosthetic groups and carriers	Pyoverdine
PA14_33820	<i>pvdQ</i>	-1.72	PvdQ / Penicillin acylase-related protein	Adaptation, protection; Antibiotic resistance and susceptibility	Pyoverdine
PA14_33860	<i>lldA</i>	1.85	LldA / L-lactate dehydrogenase	Energy metabolism	
PA14_33870	<i>PA14_3</i> <i>3870</i>	1.80	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_34030	<i>hcp3</i>	-2.67	Hcp3 / [Hemolysin co-regulated T6SS effector]	Hypothetical, unclassified, unknown	T6SS, H3-T6SS
PA14_34050	<i>hsiC3</i>	-2.00	HsiC3 / [EvpB family T6SS protein]	Hypothetical, unclassified, unknown	T6SS, H3-T6SS
PA14_34370	<i>PA14_3</i> <i>4370</i>	9.60	/ ABC maltose/mannitol transporter ATP-binding protein	Transport of small molecules	Mannitol
PA14_34390	<i>PA14_3</i> <i>4390</i>	34.00	/ Binding-protein-dependent maltose/mannitol transport protein	Transport of small molecules	Mannitol
PA14_34600	<i>PA14_3</i> <i>4600</i>	1.52	/ Glyceraldehyde-3-phosphate dehydrogenase	Carbon compound catabolism	
PA14_35780	<i>PA14_3</i> <i>5780</i>	-1.59	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_35790	<i>PA14_3</i> <i>5790</i>	-1.53	/ Homospermidine synthase	Putative enzymes; Secreted factors (toxins, enzymes, alginate)	
PA14_36290	<i>PA14_3</i> <i>6290</i>	1.82	/ [Oxidoreductase]	Energy metabolism; Putative enzymes	
PA14_36300	<i>PA14_3</i> <i>6300</i>	1.68	/ TetR family transcriptional regulator	Transcriptional regulators	
PA14_36330	<i>hcnA</i>	2.94	HcnA / Hydrogen cyanide synthase	Central intermediary metabolism	
PA14_37080	<i>PA14_3</i> <i>7080</i>	-1.52	/ [Transcriptional regulator; cupA gene regulator C, CgrC]	Transcriptional regulators	
PA14_37250	<i>PA14_3</i> <i>7250</i>	-1.86	/ Major facilitator transporter	Transport of small molecules	
PA14_37590	<i>kynB</i>	-1.69	KynB / Kynurenine formamidase	Amino acid biosynthesis and metabolism; Putative enzymes	Amino acids
PA14_38500	<i>PA14_3</i> <i>8500</i>	1.65	/ lclR family transcriptional regulator	Transcriptional regulators	

<b>Locus</b>	<b>Gene</b>	<b>FC<sup>a</sup></b>	<b>Product /Function<sup>b</sup> [function]<sup>c</sup></b>	<b>Protein Class Assignment<sup>d</sup></b>	<b>Subclass<sup>d</sup></b>
PA14_39350	<i>rbsB</i>	1.76	/ Ribose ABC transporter substrate-binding protein	Transport of small molecules	
PA14_39460	<i>PA14_39460</i>	-1.64	/ [Catalase]	Hypothetical, unclassified, unknown	
PA14_39590	<i>metE</i>	-1.98	MetE / 5-methyltetrahydropteroyltriglutamate/homocysteine S-methyltransferase	Amino acid biosynthesis and metabolism	Amino acids
PA14_40650	<i>PA14_40650</i>	-1.83	/ Hypothetical protein [Tsi1-like T6SS immunity protein]	Hypothetical, unclassified, unknown	T6SS-related
PA14_40660	<i>PA14_40660</i>	-2.12	/ Hypothetical protein [Tse1-like T6SS effector protein]	Hypothetical, unclassified, unknown	T6SS-related
PA14_41420	<i>PA14_41420</i>	-1.57	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_41760	<i>PA14_41760</i>	-1.92	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_41790	<i>PA14_41790</i>	-1.63	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_42630	<i>PA14_42630</i>	1.66	/ Translocation protein in T3SS	Protein secretion/export apparatus	T3SS
PA14_42660	<i>pscU</i>	2.91	PscU / Translocation protein in T3SS	Protein secretion/export apparatus	T3SS
PA14_42700	<i>alkA</i>	-1.67	AlkA / DNA-3-methyladenine glycosylase II	DNA replication, recombination, modification and repair	
PA14_43610	<i>PA14_43610</i>	-1.78	/ AMP-binding protein	Fatty acid and phospholipid metabolism	
PA14_43780	<i>PA14_43780</i>	-1.60	/ Oxoreductase	Energy metabolism	
PA14_43790	<i>PA14_43790</i>	-1.63	/ Aldehyde dehydrogenase	Putative enzymes	
PA14_44710	<i>xdhA</i>	-1.56	XdhA / Xanthine dehydrogenase	Nucleotide biosynthesis and metabolism	
PA14_44800	<i>PA14_44800</i>	-1.75	/ Transporter [Xanthine/uracil/vitamin C permease]	Membrane proteins; Transport of small molecules	
PA14_44830	<i>PA14_44830</i>	-1.69	/ [Chitin or polysaccharide deacetylase family protein]	Carbon compound catabolism	
PA14_44840	<i>PA14_44840</i>	-1.73	/ [possible OHCU decarboxylase]	Hypothetical, unclassified, unknown	
PA14_44850	<i>alc</i>	-1.72	Alc / Allantoicase	Carbon compound catabolism	
PA14_44860	<i>PA14_44860</i>	-1.69	/ Ureidoglycolate hydrolase	Central intermediary metabolism	

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PA14_44880	<i>PA14_44880</i>	-2.43	/ Hypothetical protein	Membrane proteins	
PA14_45350	<i>ccmC</i>	1.77	CcmC / Heme exporter protein	Transport of small molecules	Heme
PA14_46370	<i>PA14_46370</i>	-1.78	/ Two-component sensor [Sensor histidine kinase/response regulator]	Two-component regulatory systems	
PA14_46640	<i>PA14_46640</i>	-2.86	/ Siderophore receptor	Transport of small molecules	Iron utilization
PA14_46910	<i>PA14_46910</i>	-1.97	/ ABC transporter substrate-binding protein	Transport of small molecules	Amino acids
PA14_46920	<i>PA14_46920</i>	-1.54	/ ABC transporter permease [Glutamate/aspartate transporter GltJ]	Membrane proteins; Transport of small molecules	Amino acids
PA14_46930	<i>PA14_46930</i>	-1.52	/ ABC transporter permease [Glutamate/aspartate transporter GltK]	Transport of small molecules	Amino acids
PA14_46950	<i>PA14_46950</i>	-1.63	/ ABC transporter ATP-binding protein [Glutamate/aspartate transporter GltL]	Transport of small molecules	Amino acids
PA14_46960	<i>ggt</i>	-1.94	Ggt / Gamma-glutamyltranspeptidase	Central intermediary metabolism	
PA14_46970	<i>ansB</i>	-2.29	AnsB / Glutaminase-asparaginase	Amino acid biosynthesis and metabolism	Amino acids
PA14_48060	<i>aprA</i>	1.67	AprA / Alkaline metalloproteinase	Secreted factors (toxins, enzymes, alginate)	
PA14_48140	<i>aprX</i>	1.86	/ Hypothetical protein [AprX in <i>P. aeruginosa</i> PAO1]	Membrane proteins; Secreted factors (toxins, enzymes, alginate)	
PA14_49320	<i>PA14_49320</i>	-1.71	/ [Alginate lyase 2]	Hypothetical, unclassified, unknown	
PA14_49560	<i>toxA</i>	-1.89	ToxA / Exotoxin A	Secreted factors (toxins, enzymes, alginate)	
PA14_49650	<i>PA14_49650</i>	-2.15	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_49850	<i>PA14_49850</i>	1.53	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_50610	<i>PA14_50610</i>	-1.78	/ Short-chain dehydrogenase	Putative enzymes	
PA14_50620	<i>PA14_50620</i>	-1.63	/ Hypothetical protein [possible bacteriophage protein]	Hypothetical, unclassified, unknown	
PA14_50770	<i>PA14_50770</i>	1.63	/ Transporter [putative gluconate transporter]	Transport of small molecules	
PA14_51680	<i>PA14_51680</i>	2.36	/ Radical activating enzyme [SAM domain]	Putative enzymes	

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PA14_52080	<i>PA14_52080</i>	1.71	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_52090	<i>PA14_52090</i>	1.84	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_52120	<i>PA14_52120</i>	3.20	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_53210	<i>PA14_53210</i>	-1.55	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_53260	<i>PA14_53260</i>	-1.67	/ Hypothetical protein [threonine dehydratase]	Hypothetical, unclassified, unknown	
PA14_53400	<i>PA14_53400</i>	1.72	/ Oxidoreductase	Putative enzymes	
PA14_53410	<i>PA14_53410</i>	1.83	/ Transcriptional regulator [TetR family]	Transcriptional regulators	
PA14_53820	<i>PA14_53820</i>	1.79	/ [N-acetylmuramoyl-L-alanine amidase]	Antibiotic resistance and susceptibility	
PA14_54130	<i>PA14_54130</i>	-1.54	/ Transcriptional regulator [LysR family]	Transcriptional regulators	
PA14_54540	<i>PA14_54540</i>	2.92	/ [Tricarboxylate transport protein TctC]	Hypothetical, unclassified, unknown	
PA14_54630	<i>PA14_54630</i>	-1.93	/ Acyl-CoA dehydrogenase	Putative enzymes	
PA14_54640	<i>PA14_54640</i>	-1.68	/ Enoyl-CoA hydratase	Putative enzymes	
PA14_54750	<i>PA14_54750</i>	2.11	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_54850	<i>PA14_54850</i>	2.50	/ [Bacteriophage-related integrase]	Hypothetical, unclassified, unknown	
PA14_54870	<i>PA14_54870</i>	1.79	/ [Transcriptional regulator, AraC family]	Hypothetical, unclassified, unknown	
PA14_55810	<i>PA14_55810</i>	-1.59	/ Two-component response regulator LuxR family (PAO1 PrpB)	Two-component regulatory systems	
PA14_56100	<i>PA14_56100</i>	-1.52	/ Hypothetical protein [RDD domain-containing protein]	Membrane proteins	
PA14_56200	<i>PA14_56200</i>	-1.60	/ Hypothetical protein [possible lipoprotein]	Fatty acid and phospholipid metabolism	

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PA14_56360	<i>PA14_56360</i>	1.65	/ Hypothetical protein [possible arylsulfate sulfotransferase]	Hypothetical, unclassified, unknown	
PA14_58130	<i>mreC</i>	1.78	MreC / Rod shape-determining protein	Cell wall / LPS / capsule	
PA14_58240	<i>PA14_58240</i>	-1.75	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_58350	<i>dppA1</i>	-1.81	DppA1 / Dipeptide-binding ABC transporter substrate-binding protein	Transport of small molecules	
PA14_59390	<i>PA14_59390</i>	1.92	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_59780	<i>rcsC</i>	1.60	RcsC / Kinase sensor protein	Two-component regulatory systems	
PA14_59970	<i>PA14_59970</i>	1.61	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_60030	<i>PA14_60030</i>	1.54	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_60490	<i>PA14_60490</i>	-1.63	/ Cytochrome c family protein	Energy metabolism	
PA14_60530	<i>PA14_60530</i>	1.95	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_60730	<i>PA14_60730</i>	-1.67	/ Outer membrane protein	Membrane proteins; Transport of small molecules	
PA14_60750	<i>pra</i>	-1.81	Pra / protein activator	Carbon compound catabolism	
PA14_61270	<i>PA14_61270</i>	-1.97	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_61920	<i>PA14_61920</i>	-3.00	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_61940	<i>PA14_61940</i>	-1.89	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_62100	<i>PA14_62100</i>	2.92	/ Sulfite oxidase subunit YedZ	Membrane proteins	
PA14_62110	<i>PA14_62110</i>	2.77	/ Sulfite oxidase subunit YedY	Putative enzymes	
PA14_62130	<i>ilvC</i>	-1.54	IlvC / Ketol-acid reductoisomerase	Amino acid biosynthesis and metabolism; Biosynthesis of cofactors, prosthetic groups and carriers	Amino acids

<b>Locus</b>	<b>Gene</b>	<b>FC<sup>a</sup></b>	<b>Product /Function<sup>b</sup> [function]<sup>c</sup></b>	<b>Protein Class Assignment<sup>d</sup></b>	<b>Subclass<sup>d</sup></b>
PA14_62150	<i>ilvH</i>	-1.70	IlvH / Acetolactate synthase 3 regulatory subunit	Amino acid biosynthesis and metabolism; Biosynthesis of cofactors, prosthetic groups and carriers	Amino acids
PA14_62160	<i>ilvI</i>	-1.57	IlvI / Acetolactate synthase 3 catalytic subunit	Amino acid biosynthesis and metabolism; Biosynthesis of cofactors, prosthetic groups and carriers	Amino acids
PA14_64350	<i>ureA</i>	-1.86	UreA / Urease subunit gamma	Central intermediary metabolism	
PA14_64550	<i>PA14_64550</i>	2.25	/ [Thiosulfate reductase cytochrome B subunit]	Energy metabolism	
PA14_64840	<i>PA14_64840</i>	-1.70	/ Short-chain dehydrogenase	Putative enzymes	
PA14_64870	<i>PA14_64870</i>	-2.33	/ ABC transporter ATP-binding protein [for Branched-chain amino acid transport]	Transport of small molecules	Amino acids
PA14_64950	<i>pncA</i>	-2.69	PncA / [Nicotinamidase]	Central intermediary metabolism	
PA14_64960	<i>pncB1</i>	-2.09	PncB1 / Nicotinate phosphoribosyl-transferase	Biosynthesis of cofactors, prosthetic groups and carriers	
PA14_64980	<i>nadE</i>	-2.25	NadE / NAD synthetase	Amino acid biosynthesis and metabolism;	Amino acids
PA14_65030	<i>PA14_65030</i>	1.60	/ [Putative metalloendopeptidase-related membrane protein]	Membrane proteins	
PA14_65630	<i>PA14_65630</i>	1.50	/ [Putative aspartyl protease]	Putative enzymes	
PA14_66440	<i>metY</i>	-1.52	MetY / O-acetylhomoserine aminocarboxy- propyltransferase	Amino acid biosynthesis and metabolism	Amino acids
PA14_66540	<i>PA14_66540</i>	-2.89	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_67350	<i>hutU</i>	-1.87	HutU / Urocanate hydratase	Amino acid biosynthesis and metabolism	Amino acids
PA14_67510	<i>estA</i>	-1.58	EstA / Esterase	Fatty acid and phospholipid metabolism	
PA14_67620	<i>PA14_67620</i>	1.86	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_67640	<i>PA14_67640</i>	-1.77	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_67830	<i>PA14_67830</i>	-1.59	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_68260	<i>PA14_68260</i>	-1.61	/ C4-dicarboxylate-binding protein [DctP family]	Membrane proteins	
PA14_68280	<i>PA14_68280</i>	-1.74	/ Dicarboxylate transporter [DctQ subunit]	Membrane proteins; Transport of small	

Locus	Gene	FC <sup>a</sup>	Product /Function <sup>b</sup> [function] <sup>c</sup>	Protein Class Assignment <sup>d</sup>	Subclass <sup>d</sup>
PA14_68290	<i>PA14_68290</i>	-1.54	/ C4-dicarboxylate transporter [DctM subunit]	Membrane proteins	
PA14_69380	<i>PA14_69380</i>	-1.51	/ Peptidyl-prolyl cis-trans isomerase, FkbP-type	Chaperones and heat shock proteins; Translation, post-translational modification, degradation	
PA14_70600	<i>PA14_70600</i>	-1.88	/ HU family DNA-binding protein	DNA replication, recombination, modification and repair	
PA14_71070	<i>PA14_71070</i>	-1.82	/ AraC family transcriptional regulator	Transcriptional regulators	
PA14_71460	<i>glyA1</i>	-2.38	GlyA1 / Serine hydroxymethyltransferase	Amino acid biosynthesis and metabolism	Amino acids
PA14_71900	<i>PA14_71900</i>	1.60	/ Hypothetical protein	Hypothetical, unclassified, unknown	
PA14_72410	<i>PA14_72410</i>	-1.80	/ Multiple antibiotic resistance (MarC-like) protein	Antibiotic resistance and susceptibility	
PA14_72760	<i>PA14_72760</i>	1.63	/ Beta-lactamase	Adaptation, protection; Antibiotic resistance	
PA14_73040	<i>amiA</i>	3.00	AmiA / N-acetylmuramoyl-L-alanine amidase	Cell wall / LPS / capsule	
PA14_73060	<i>PA14_73060</i>	2.63	/ Carbonic anhydrase-like protein	Transport of small molecules	

<sup>a</sup>Upregulation (green) and downregulation (red) of gene expression in PA14 grown in blood from SBPs or TPs compared to HVs

<sup>b</sup>Product /Function from UCBPP-PA14 Genome database

<sup>c</sup>[function from Pseudomonas Ortholog Database]

<sup>d</sup>From the PseudoCap database

<sup>e</sup>Genes highlighted in yellow were discussed in the text and/or figures

<http://pseudomonas.com/>

<http://pseudoluge.pseudomonas.com/>

<http://pseudomonas.com/pseudocap>