Table S2: Full list of upregulated genes (fold change ≥ 1.5) in response to 20 μg/ml LL-37 compared to non-treated *P. aeruginosa* PAO1

PA number	Gene name	Function class	Fold change
PA0035	trpA	Amino acid biosynthesis and metabolism	1.5
PA0050		Hypothetical, unclassified, unknown	2.5
PA0051	phzH	Putative enzymes	1.6
PA0059	osmC	Adaptation, Protection	1.5
PA0062		Hypothetical, unclassified, unknown	1.6
PA0074	ppkA	Adaptation, Protection; Translation, post- translational modification, degradation; Protein secretion/export apparatus	1.5
PA0088		Protein secretion/export apparatus	1.6
PA0090		Translation, post-translational modification, degradation; Chaperones & heat shock proteins; Protein secretion/export apparatus	1.9
PA0091		Protein secretion/export apparatus	1.9
PA0098		Hypothetical, unclassified, unknown	1.6
PA0099		Hypothetical, unclassified, unknown	1.6
PA0102		Central intermediary metabolism	2.0
PA0103		Membrane proteins; Transport of small molecules	2.0
PA0122		Adaptation, Protection	1.8
PA0141		Hypothetical, unclassified, unknown	1.5
PA0169		Motility & Attachment	1.8
PA0175		Transcriptional regulators; Adaptation, Protection; Chemotaxis	1.6
PA0176		Adaptation, Protection; Chemotaxis	1.5
PA0177		Adaptation, Protection; Chemotaxis	1.8

PA0187		Hypothetical, unclassified, unknown	2.6
PA0269		Hypothetical, unclassified, unknown	1.7
PA0320		Hypothetical, unclassified, unknown	7.2
PA0327		Hypothetical, unclassified, unknown	1.8
PA0429		Hypothetical, unclassified, unknown	1.6
PA0430	metF	Amino acid biosynthesis and metabolism; Central intermediary metabolism	2.0
PA0431		Hypothetical, unclassified, unknown	1.9
PA0460		Hypothetical, unclassified, unknown	1.5
PA0506		Putative enzymes	1.6
PA0546	metK	Amino acid biosynthesis and metabolism; Central intermediary metabolism	3.2
PA0547		Transcriptional regulators	3.1
PA0589		Energy metabolism	1.5
PA0635		Related to phage, transposon, or plasmid	1.5
PA0744		Putative enzymes	1.6
PA0779		Putative enzymes	1.9
PA0793		Hypothetical, unclassified, unknown	1.9
PA0795	prpC	Central intermediary metabolism; Carbon compound catabolism	1.9
PA0796	prpB	Fatty acid and phospholipid metabolism; Central intermediary metabolism; Carbon compound catabolism	2.5
PA0852	cbpD	Secreted Factors (toxins, enzymes, alginate)	1.6
PA0853		Putative enzymes	1.5
PA0866	aroP2	Transport of small molecules	1.7
PA0887	acsA	Carbon compound catabolism; Central intermediary metabolism	3.1
PA0938		Hypothetical, unclassified, unknown	1.5

PA0996	pqsA	Biosynthesis of cofactors, prosthetic groups and carriers	2.1
PA0997	pqsB	Biosynthesis of cofactors, prosthetic groups and carriers	1.9
PA0998	pqsC	Biosynthesis of cofactors, prosthetic groups and carriers	1.6
PA0999	pqsD	Biosynthesis of cofactors, prosthetic groups and carriers	1.7
PA1000	pqsE	Biosynthesis of cofactors, prosthetic groups and carriers	2.1
PA1001	phnA	Adaptation, Protection	2.0
PA1002	phnB	Amino acid biosynthesis and metabolism; Adaptation, Protection	2.2
PA1070	braG	Transport of small molecules	1.8
PA1115		Membrane proteins	2.2
PA1119		Membrane proteins; Cell wall / LPS / capsule	1.5
PA1130	rhIC	Cell wall / LPS / capsule; Adaptation, Protection	2.2
PA1168		Hypothetical, unclassified, unknown	8.0
PA1169		Putative enzymes	4.7
PA1173	парВ	Energy metabolism	1.8
PA1175	napD	Energy metabolism	2.0
PA1176	napF	Energy metabolism	1.5
PA1216		Hypothetical, unclassified, unknown	2.0
PA1217		Amino acid biosynthesis and metabolism	1.8
PA1323		Hypothetical, unclassified, unknown	1.5
PA1471		Hypothetical, unclassified, unknown	1.7
PA1478		Hypothetical, unclassified, unknown	2.0
PA1480	ccmF	Energy metabolism	1.6
PA1494		Hypothetical, unclassified, unknown	1.5

PA1550		Hypothetical, unclassified, unknown	2.3
PA1551		Energy metabolism	2.0
PA1556		Energy metabolism; Energy metabolism	1.7
PA1559		Hypothetical, unclassified, unknown	7.9
PA1560		Hypothetical, unclassified, unknown	3.4
PA1592		Hypothetical, unclassified, unknown	1.5
PA1657		Hypothetical, unclassified, unknown	3.5
PA1658		Hypothetical, unclassified, unknown	2.8
PA1659		Hypothetical, unclassified, unknown	2.3
PA1662		Putative enzymes	1.7
PA1664		Hypothetical, unclassified, unknown	4.1
PA1665		Hypothetical, unclassified, unknown	2.3
PA1666		Hypothetical, unclassified, unknown	1.7
PA1667		Hypothetical, unclassified, unknown	2.3
PA1668		Hypothetical, unclassified, unknown	1.5
PA1760		Transcriptional regulators	1.5
PA1797		Hypothetical, unclassified, unknown	2.9
PA1812	mltD	Amino acid biosynthesis and metabolism; Cell wall / LPS / capsule	1.7
PA1852		Hypothetical, unclassified, unknown	2.0
PA1869		Fatty acid and phospholipid metabolism	2.5
PA1871	lasA	Secreted Factors (toxins, enzymes, alginate); Translation, post-translational modification, degradation	1.8
PA1887		Hypothetical, unclassified, unknown	1.5
PA1888		Hypothetical, unclassified, unknown	1.7
PA1894		Hypothetical, unclassified, unknown	1.6
PA1895		Membrane proteins	1.5

PA1901	phzC2	Secreted Factors (toxins, enzymes, alginate)	4.7
PA1902	phzD2	Secreted Factors (toxins, enzymes, alginate)	5.8
PA1903	phzE2	Secreted Factors (toxins, enzymes, alginate)	6.1
PA1904	phzF2	Secreted Factors (toxins, enzymes, alginate)	6.0
PA1905	phzG2	Secreted Factors (toxins, enzymes, alginate)	6.3
PA1930		Adaptation, Protection; Chemotaxis	1.5
PA1969		Hypothetical, unclassified, unknown	1.6
PA2003	bdhA	Carbon compound catabolism	1.7
PA2011	gnyL	Carbon compound catabolism	1.6
PA2012	gnyA	Carbon compound catabolism	3.5
PA2013	gnyH	Carbon compound catabolism	4.0
PA2014	gnyB	Carbon compound catabolism	3.8
PA2015	gnyD	Carbon compound catabolism	3.1
PA2016	gnyR	Transcriptional regulators	3.6
PA2030		Hypothetical, unclassified, unknown	2.5
PA2031		Hypothetical, unclassified, unknown	2.4
PA2066		Hypothetical, unclassified, unknown	2.1
PA2067		Putative enzymes	2.3
PA2068		Membrane proteins; Transport of small molecules	6.1
PA2069		Putative enzymes	6.8
PA2109		Hypothetical, unclassified, unknown	1.7
PA2110		Hypothetical, unclassified, unknown	1.6
PA2112		Hypothetical, unclassified, unknown	1.7
PA2166		Hypothetical, unclassified, unknown	1.7
PA2171		Hypothetical, unclassified, unknown	2.0
PA2193	hcnA	Central intermediary metabolism	2.4

PA2194	hcnB	Central intermediary metabolism	2.6
PA2195	hcnC	Central intermediary metabolism	2.1
PA2274		Hypothetical, unclassified, unknown	1.9
PA2290	gcd	Carbon compound catabolism; Energy metabolism	1.6
PA2300	chiC	Carbon compound catabolism	5.0
PA2302		Secreted Factors (toxins, enzymes, alginate); Putative enzymes	1.7
PA2303		Secreted Factors (toxins, enzymes, alginate)	2.0
PA2358		Hypothetical, unclassified, unknown	5.2
PA2366		Hypothetical, unclassified, unknown	2.1
PA2367		Hypothetical, unclassified, unknown	2.1
PA2368		Hypothetical, unclassified, unknown	2.3
PA2433		Hypothetical, unclassified, unknown	2.3
PA2441		Hypothetical, unclassified, unknown	1.6
PA2485		Hypothetical, unclassified, unknown	1.6
PA2486		Hypothetical, unclassified, unknown	1.7
PA2552		Putative enzymes	1.9
PA2553		Putative enzymes	1.9
PA2554		Putative enzymes	2.3
PA2555		Putative enzymes	1.6
PA2557		Fatty acid and phospholipid metabolism	3.0
PA2562		Hypothetical, unclassified, unknown	1.9
PA2566		Hypothetical, unclassified, unknown	2.0
PA2570	pa1L	Adaptation, Protection; Motility & Attachment; Cell wall / LPS / capsule	1.6
PA2572		Transcriptional regulators; Two-component regulatory systems	1.5
PA2588		Transcriptional regulators	1.5

PA2607		Hypothetical, unclassified, unknown	1.5
PA2642	nuoG	Energy metabolism	1.6
PA2643	пиоН	Energy metabolism	1.6
PA2646	пиоК	Energy metabolism	1.5
PA2647	nuoL	Energy metabolism	1.6
PA2655		Hypothetical, unclassified, unknown	1.6
PA2717	сро	Central intermediary metabolism	1.5
PA2754		Hypothetical, unclassified, unknown	1.7
PA2788		Adaptation, Protection; Chemotaxis	2.1
PA2895		Hypothetical, unclassified, unknown	1.6
PA3028	moeA2	Biosynthesis of cofactors, prosthetic groups and carriers	1.5
PA3038		Transport of small molecules	2.2
PA3049	rmf	Translation, post-translational modification, degradation	1.7
PA3126	ibpA	Chaperones & heat shock proteins	2.1
PA3149	wbpH	Putative enzymes; Cell wall / LPS / capsule	1.6
PA3213		Hypothetical, unclassified, unknown	1.6
PA3214		Hypothetical, unclassified, unknown	1.5
PA3234		Membrane proteins; Transport of small molecules	1.8
PA3235		Membrane proteins	1.6
PA3361	lecB	Motility & Attachment	5.9
PA3478	rhIB	Secreted Factors (toxins, enzymes, alginate)	2.0
PA3479	rhlA	Secreted Factors (toxins, enzymes, alginate)	1.5
PA3520		Hypothetical, unclassified, unknown	1.6
PA3530		Hypothetical, unclassified, unknown	1.9
PA3552	arnB	Cell wall / LPS / capsule; Antibiotic resistance and susceptibility; Adaptation, Protection	1.6

PA3553	arnC	Adaptation, Protection; Putative enzymes; Cell wall / LPS / capsule; Antibiotic resistance and susceptibility	1.6
PA3555	arnD	Adaptation, Protection; Antibiotic resistance and susceptibility; Cell wall / LPS / capsule	1.5
PA3556	arnT	Adaptation, Protection; Membrane proteins; Cell wall / LPS / capsule	2.0
PA3557	arnE	Adaptation, Protection; Cell wall / LPS / capsule; Membrane proteins	2.0
PA3558	arnF	Membrane proteins; Adaptation, Protection; Cell wall / LPS / capsule	2.2
PA3559	ugd	Putative enzymes	2.8
PA3569	mmsB	Carbon compound catabolism	2.3
PA3570	mmsA	Amino acid biosynthesis and metabolism; Carbon compound catabolism	2.6
PA3642	rnhB	DNA replication, recombination, modification and repair	1.5
PA3643	ІрхВ	Cell wall / LPS / capsule	1.5
PA3659		Putative enzymes	1.6
PA3661		Hypothetical, unclassified, unknown	3.5
PA3676		Membrane proteins; Transport of small molecules	1.6
PA3677		Transport of small molecules	1.7
PA3678		Transcriptional regulators	1.7
PA3719		Antibiotic resistance and susceptibility	2.0
PA3720		Hypothetical, unclassified, unknown	2.6
PA3724	lasB	Secreted Factors (toxins, enzymes, alginate); Translation, post-translational modification, degradation	2.1
PA3733		Hypothetical, unclassified, unknown	1.5
PA3734		Hypothetical, unclassified, unknown	1.8
PA3784		Hypothetical, unclassified, unknown	2.3

PA3785 Hypothetical, unclassified, unknown 2.5 PA3786 Hypothetical, unclassified, unknown 1.9	
PA3786 Hypothetical, unclassified, unknown 1.9	
PA3809 fdx2 Energy metabolism 1.6	
PA3810 hscA Chaperones & heat shock proteins 1.5	
PA3901 fecA Membrane proteins; Transport of small molecules 2.4	
PA3905 Hypothetical, unclassified, unknown 2.0	
PA3906 Hypothetical, unclassified, unknown 2.1	
PA3907 Hypothetical, unclassified, unknown 1.7	
PA3908 Hypothetical, unclassified, unknown 1.9	
PA3919 Hypothetical, unclassified, unknown 1.7	
PA3981 Hypothetical, unclassified, unknown 1.8	
PA3982 Hypothetical, unclassified, unknown 1.6	
PA3996 lis Biosynthesis of cofactors, prosthetic groups and carriers 2.0	
PA4067 oprG Membrane proteins 1.6	
PA4129 Hypothetical, unclassified, unknown 3.1	
PA4130 Central intermediary metabolism 2.3	
PA4131 Putative enzymes 2.5	
PA4132 Hypothetical, unclassified, unknown 2.9	
PA4133 Energy metabolism 3.7	
PA4134 Hypothetical, unclassified, unknown 5.4	
PA4139 Hypothetical, unclassified, unknown 9.6	
PA4140 Hypothetical, unclassified, unknown 2.6	
PA4141 Hypothetical, unclassified, unknown 3.2	
PA4142 Protein secretion/export apparatus 1.5	
PA4205 mexG Membrane proteins 10.2	2
PA4206 mexH Transport of small molecules 4.9	

PA4207	mexI	Membrane proteins; Transport of small molecules	2.5
PA4208	opmD	Membrane proteins; Transport of small molecules	3.1
PA4209	phzM	Putative enzymes	5.3
PA4210	phzA1	Secreted Factors (toxins, enzymes, alginate)	7.8
PA4211	phzB1	Secreted Factors (toxins, enzymes, alginate)	4.5
PA4217	phzS	Putative enzymes	5.3
PA4221	fptA	Transport of small molecules	1.7
PA4228	pchD	Secreted Factors (toxins, enzymes, alginate); Transport of small molecules	1.6
PA4229	pchC	Secreted Factors (toxins, enzymes, alginate); Transport of small molecules	1.7
PA4230	pchB	Secreted Factors (toxins, enzymes, alginate); Transport of small molecules	1.8
PA4231	pchA	Secreted Factors (toxins, enzymes, alginate); Transport of small molecules	1.5
PA4290		Adaptation, Protection; Chemotaxis	1.6
PA4306		Motility & Attachment	2.0
PA4359		Hypothetical, unclassified, unknown	1.6
PA4428	sspA	Adaptation, Protection	1.6
PA4430		Energy metabolism	1.5
PA4489		Hypothetical, unclassified, unknown	2.0
PA4490		Hypothetical, unclassified, unknown	1.5
PA4515		Hypothetical, unclassified, unknown	2.7
PA4525	pilA	Motility & Attachment	1.6
PA4573		Hypothetical, unclassified, unknown	1.5
PA4597	oprJ	Membrane proteins; Antibiotic resistance and susceptibility; Transport of small molecules	3.9
PA4598	mexD	Transport of small molecules; Membrane proteins; Antibiotic resistance and susceptibility	4.4

PA4599	mexC	Transport of small molecules; Antibiotic resistance and susceptibility	9.1
PA4600	nfxB	Transcriptional regulators	1.9
PA4611		Hypothetical, unclassified, unknown	1.6
PA4624		Cell wall / LPS / capsule	1.9
PA4625		Secreted Factors (toxins, enzymes, alginate); Cell wall / LPS / capsule	3.0
PA4675		Transport of small molecules	1.9
PA4700	mrcB	Cell wall / LPS / capsule	1.5
PA4757		Membrane proteins	1.8
PA4758	carA	Amino acid biosynthesis and metabolism; Nucleotide biosynthesis and metabolism	1.6
PA4773		Hypothetical, unclassified, unknown	4.9
PA4774		Hypothetical, unclassified, unknown	3.2
PA4775		Hypothetical, unclassified, unknown	2.2
PA4776	pmrA	Two-component regulatory systems	1.9
PA4782		Hypothetical, unclassified, unknown	1.5
PA4865	ureA	Central intermediary metabolism	2.3
PA4925		Hypothetical, unclassified, unknown	1.7
PA4946	mutL	DNA replication, recombination, modification and repair	1.7
PA4953	motB	Membrane proteins; Adaptation, Protection; Chemotaxis	1.5
PA4961		Membrane proteins	1.7
PA4997	msbA	Fatty acid and phospholipid metabolism; Cell wall / LPS / capsule; Transport of small molecules	1.7
PA5070	tatC	Membrane proteins; Transport of small molecules	1.6
PA5182		Membrane proteins	2.2
PA5183		Membrane proteins	2.7

	Transport of small molecules	2.0
	Hypothetical, unclassified, unknown	2.0
dapF	Amino acid biosynthesis and metabolism	1.9
	Hypothetical, unclassified, unknown	1.6
argB	Amino acid biosynthesis and metabolism	1.5
spoT	Nucleotide biosynthesis and metabolism; Adaptation, Protection	1.5
	Hypothetical, unclassified, unknown	2.7
	Hypothetical, unclassified, unknown	1.6
	Hypothetical, unclassified, unknown	1.5
	Putative enzymes	1.9
	Membrane proteins	1.5
	Hypothetical, unclassified, unknown	1.7
	Nucleotide biosynthesis and metabolism	1.8
	Nucleotide biosynthesis and metabolism	1.9
	Hypothetical, unclassified, unknown	1.6
tonB	Transport of small molecules	2.0
	argB spoT	Hypothetical, unclassified, unknown  Amino acid biosynthesis and metabolism Hypothetical, unclassified, unknown  Amino acid biosynthesis and metabolism  SpoT Nucleotide biosynthesis and metabolism; Adaptation, Protection Hypothetical, unclassified, unknown Hypothetical, unclassified, unknown Putative enzymes Membrane proteins Hypothetical, unclassified, unknown Nucleotide biosynthesis and metabolism Nucleotide biosynthesis and metabolism Nucleotide biosynthesis and metabolism Hypothetical, unclassified, unknown