Table S3: Full list of downregulated genes (fold change  $\ge$  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
PA0026	plcB	Hypothetical, unclassified, unknown	-1.9
PA0115		Hypothetical, unclassified, unknown	-1.5
PA0277		Hypothetical, unclassified, unknown	-1.7
PA0347	glpQ	Fatty acid and phospholipid metabolism	-3.6
PA0450		Membrane proteins; Transport of small molecules	-1.5
PA0603		Transport of small molecules	-2.2
PA0604		Transport of small molecules	-2.4
PA0605		Membrane proteins; Transport of small molecules	-2.6
PA0606		Membrane proteins; Transport of small molecules	-1.8
PA0674		Transcriptional regulators	-5.1
PA0675		Transcriptional regulators	-3.4
PA0676		Membrane proteins; Transcriptional regulators	-1.9
PA0679		Hypothetical, unclassified, unknown	-2.1
PA0681		Protein secretion/export apparatus	-2.3
PA0682		Protein secretion/export apparatus	-1.7
PA0683		Protein secretion/export apparatus	-1.5
PA0685		Protein secretion/export apparatus	-2.2
PA0688		Transport of small molecules	-2.8
PA0691		Hypothetical, unclassified, unknown	-6.0
PA0692		Hypothetical, unclassified, unknown	-3.0
PA0693	exbB2	Membrane proteins; Transport of small molecules	-6.4
PA0694	exbD2	Membrane proteins; Transport of small molecules	-2.2

PA0696		Hypothetical, unclassified, unknown	-3.6
PA0697		Hypothetical, unclassified, unknown	-2.4
PA0698		Hypothetical, unclassified, unknown	-2.6
PA0730		Putative enzymes	-2.3
PA0750	ung	DNA replication, recombination, modification and repair	-1.5
PA0775		Hypothetical, unclassified, unknown	-1.6
PA0842		Putative enzymes	-2.9
PA0975		Putative enzymes	-1.5
PA0979		Related to phage, transposon, or plasmid	-2.0
PA1004	nadA	Amino acid biosynthesis and metabolism; Biosynthesis of cofactors, prosthetic groups and carriers	-1.5
PA1014		Putative enzymes	-1.5
PA1051		Membrane proteins; Transport of small molecules	-3.3
PA1052		Hypothetical, unclassified, unknown	-1.7
PA1078	flgC	Cell wall / LPS / capsule; Motility & Attachment	-1.5
PA1081	flgF	Cell wall / LPS / capsule; Motility & Attachment	-1.5
PA1082	flgG	Cell wall / LPS / capsule; Motility & Attachment	-1.6
PA1083	flgH	Cell wall / LPS / capsule; Motility & Attachment	-1.5
PA1116		Hypothetical, unclassified, unknown	-2.5
PA1134		Hypothetical, unclassified, unknown	-1.7
PA1190		Membrane proteins	-2.8
PA1225		Putative enzymes	-1.5
PA1299		Hypothetical, unclassified, unknown	-1.5
PA1325		Hypothetical, unclassified, unknown	-1.5
PA1326	ilvA2	Amino acid biosynthesis and metabolism	-1.5
PA1327		Putative enzymes	-1.5

PA1383		Hypothetical, unclassified, unknown	-1.6
PA1606		Hypothetical, unclassified, unknown	-4.9
PA1607		Hypothetical, unclassified, unknown	-1.6
PA1632	kdpF	Transport of small molecules	-2.1
PA1633	kdpA	Transport of small molecules	-2.6
PA1634	kdpB	Transport of small molecules	-2.2
PA1635	kdpC	Transport of small molecules	-2.0
PA1636	kdpD	Two-component regulatory systems	-2.0
PA1654		Putative enzymes	-1.5
PA1706	pcrV	Protein secretion/export apparatus	-1.5
PA1839		Hypothetical, unclassified, unknown	-1.5
PA1863	modA	Transport of small molecules	-1.6
PA1882		Membrane proteins; Transport of small molecules	-1.6
PA1913		Hypothetical, unclassified, unknown	-1.6
PA2022		Putative enzymes	-2.7
PA2203		Membrane proteins; Transport of small molecules	-1.6
PA2306		Membrane proteins; Secreted Factors (toxins, enzymes, alginate)	-1.7
PA2381		Hypothetical, unclassified, unknown	-1.6
PA2427		Hypothetical, unclassified, unknown	-2.3
PA2428		Hypothetical, unclassified, unknown	-3.1
PA2548		Hypothetical, unclassified, unknown	-3.8
PA2635		Hypothetical, unclassified, unknown	-5.5
PA2654		Adaptation, Protection; Chemotaxis	-1.9
PA2803		Hypothetical, unclassified, unknown	-3.2
PA2804		Hypothetical, unclassified, unknown	-3.5
PA2850	ohr	Adaptation, Protection	-2.0

PA2880Hypothetical, unclassified, unknown1.5PA2881Transcriptional regulators; Two-component regulatory systems3.1PA2882Two-component regulatory systems3.1PA3110Amino acid biosynthesis and metabolism1.6PA3120leuDAmino acid biosynthesis and metabolism1.6PA3219Hypothetical, unclassified, unknown5.3PA3250Hypothetical, unclassified, unknown1.6PA3251Hypothetical, unclassified, unknown4.8PA3253Membrane proteins1.8PA3274oprPTransport of small molecules5.5PA3280oprOTransport of small molecules5.9PA3361Putative enzymes2.8PA3371Hypothetical, unclassified, unknown1.6PA3373Transport of small molecules2.0PA3374Transport of small molecules2.0PA3375Transport of small molecules2.0PA3376Transport of small molecules2.1PA3377Transport of small molecules2.2PA3378Transport of small molecules2.2PA3379Transport of small molecules2.2PA3379Transport of small molecules2.8PA3379Transport of small molecules2.8PA3379Transport of small molecules2.8PA3379Transport of small molecules2.8PA3380Transport of small molecules2.8PA3381Transport of small molecules2.8PA3382phnE </th <th></th> <th></th> <th></th> <th></th>				
regulatory systems-3.1PA2882Two-component regulatory systems-3.1PA3116Amino acid biosynthesis and metabolism-1.6PA3120leuDAmino acid biosynthesis and metabolism-1.6PA3219IeuDHypothetical, unclassified, unknown-5.3PA3250Hypothetical, unclassified, unknown-1.6PA3251Hypothetical, unclassified, unknown-1.6PA3258Hypothetical, unclassified, unknown-4.8PA3278Membrane proteins-1.8PA3279oprPTransport of small molecules-8.2PA3290oprOTransport of small molecules-8.2PA3291phoACentral intermediary metabolism-5.5PA3309plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3371Transport of small molecules-2.8PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.3PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3379Transport of small molecules-2.3PA3379Transport of small molecules-2.6PA3380phnEMembrane proteins; Transport of small molecules-2.8	PA2880		Hypothetical, unclassified, unknown	-1.5
PA3116Amino acid biosynthesis and metabolism-1.6PA3120leuDAmino acid biosynthesis and metabolism-1.6PA3219Hypothetical, unclassified, unknown-5.3PA3250Hypothetical, unclassified, unknown-1.6PA3251Hypothetical, unclassified, unknown-1.6PA3278Membrane proteins-1.8PA3279oprPTransport of small molecules-5.5PA3280oprOTransport of small molecules-8.2PA3295phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3371Hypothetical, unclassified, unknown-1.6PA3375Transport of small molecules-1.6PA3376Transport of small molecules-2.0PA3376Transport of small molecules-2.0PA3376Transport of small molecules-2.0PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3379Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3380Transport of small molecules-2.8PA3381Transport of small molecules-2.6PA3382phnEMembrane proteins; Transport of small molecules-2.8	PA2881			-4.8
PA3120leuDAmino acid biosynthesis and metabolism-1.6PA3219Hypothetical, unclassified, unknown-5.3PA3250Hypothetical, unclassified, unknown-1.6PA3251Hypothetical, unclassified, unknown-1.6PA3258Mypothetical, unclassified, unknown-4.8PA3278Membrane proteins-1.8PA3279oprOTransport of small molecules-5.5PA3290oprOTransport of small molecules-8.2PA3291phoACentral intermediary metabolism-6.7PA3392plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3374Hypothetical, unclassified, unknown-1.6PA3375Transport of small molecules-2.8PA3376Transport of small molecules-2.0PA3376Transport of small molecules-2.0PA3376Transport of small molecules-2.7PA3377Transport of small molecules-2.7PA3378Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3380phnEMembrane proteins; Transport of small molecules-3.5	PA2882		Two-component regulatory systems	-3.1
PA3219Hypothetical, unclassified, unknown-5.3PA3250Hypothetical, unclassified, unknown-1.6PA3251Hypothetical, unclassified, unknown-4.8PA3258Hypothetical, unclassified, unknown-4.8PA3278Membrane proteins-1.8PA3279oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3371Hypothetical, unclassified, unknown-1.6PA3375Transport of small molecules-2.8PA3376Transport of small molecules-1.6PA3377Transport of small molecules-2.0PA3378Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3378Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3378Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-3.5PA3382phnEMembrane proteins; Transport of small molecules-3.5	PA3116		Amino acid biosynthesis and metabolism	-1.6
PA3250Hypothetical, unclassified, unknown-1.6PA3251Hypothetical, unclassified, unknown-1.6PA3258Hypothetical, unclassified, unknown-4.8PA3279oprPMembrane proteins-1.8PA3279oprPTransport of small molecules-8.2PA3290oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA3391plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3371Hypothetical, unclassified, unknown-1.6PA3373Transport of small molecules-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.0PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-3.5PA3382phnEMembrane proteins; Transport of small molecules-3.5	PA3120	leuD	Amino acid biosynthesis and metabolism	-1.6
PA3251Hypothetical, unclassified, unknown1.6PA3258Hypothetical, unclassified, unknown4.8PA3278Membrane proteins1.8PA3279oprPTransport of small molecules5.5PA3280oprOTransport of small molecules8.2PA3296phoACentral intermediary metabolism6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)5.9PA3371Putative enzymes2.8PA3375Transport of small molecules1.6PA3376Transport of small molecules1.6PA3377Transport of small molecules2.0PA3376Transport of small molecules2.1PA3377Transport of small molecules2.3PA3378Transport of small molecules2.7PA3379Transport of small molecules2.8PA3379Transport of small molecules2.6PA3380Transport of small molecules2.8PA3380Transport of small molecules2.6PA3381Transport of small molecules2.8PA3381Membrane proteins; Transport of small molecules3.5	PA3219		Hypothetical, unclassified, unknown	-5.3
PA3258Hypothetical, unclassified, unknown-4.8PA3278Membrane proteins-1.8PA3279oprPTransport of small molecules-5.5PA3280oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3371Putative enzymes-2.8PA3375Transport of small molecules-1.6PA3376Transport of small molecules-1.6PA3377Transport of small molecules-2.0PA3376Transport of small molecules-2.3PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.6PA3379Transport of small molecules-2.7PA3379Transport of small molecules-2.8PA3379Transport of small molecules-2.8PA3380Transport of small molecules-2.8PA3381Transport of small molecules-2.8PA3381Transport of small molecules-2.8PA3382phnEMembrane proteins; Transport of small molecules-2.8	PA3250		Hypothetical, unclassified, unknown	-1.6
PA3278Membrane proteins-1.8PA3279oprPTransport of small molecules-5.5PA3280oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3368Putative enzymes-2.8PA3371Transport of small molecules-1.6PA3375Transport of small molecules-1.6PA3376Transport of small molecules-2.0PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3379Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3382phnEMembrane proteins; Transport of small molecules-2.8	PA3251		Hypothetical, unclassified, unknown	-1.6
PA3279oprPTransport of small molecules-5.5PA3280oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3368Putative enzymes-2.8PA3371Transport of small molecules-1.6PA3375Transport of small molecules-1.6PA3376Transport of small molecules-2.0PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.6PA3382Membrane roteins; Transport of small molecules-2.8PA3381Transport of small molecules-2.6	PA3258		Hypothetical, unclassified, unknown	-4.8
PA3280oprOTransport of small molecules-8.2PA3296phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3368Putative enzymes-2.8PA3371Hypothetical, unclassified, unknown-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.3PA3382phnERembrane proteins; Transport of small molecules-3.5	PA3278		Membrane proteins	-1.8
PA3296phoACentral intermediary metabolism-6.7PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3368Putative enzymes-2.8PA3371Hypothetical, unclassified, unknown-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.1PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.6PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Membrane proteins; Transport of small molecules-3.5	PA3279	oprP	Transport of small molecules	-5.5
PA3319plcNSecreted Factors (toxins, enzymes, alginate)-5.9PA3368Putative enzymes-2.8PA3371Hypothetical, unclassified, unknown-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.3PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transport of small molecules-2.8PA3382phnEMembrane proteins; Transport of small molecules8.3	PA3280	oprO	Transport of small molecules	-8.2
PA3368Putative enzymes-2.8PA3371Hypothetical, unclassified, unknown-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-2.0PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.3PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.6PA3381Transport of small molecules-2.8PA3382phnEMembrane proteins; Transport of small molecules-3.5	PA3296	phoA	Central intermediary metabolism	-6.7
PA3371Hypothetical, unclassified, unknown-1.6PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-1.7PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transport of small molecules-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3319	plcN	Secreted Factors (toxins, enzymes, alginate)	-5.9
PA3374Transport of small molecules-1.6PA3375Transport of small molecules-2.0PA3376Transport of small molecules-1.7PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transport of small molecules-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3368		Putative enzymes	-2.8
PA3375Transport of small molecules-2.0PA3376Transport of small molecules-1.7PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transport of small molecules-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3371		Hypothetical, unclassified, unknown	-1.6
PA3376Transport of small molecules-1.7PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3374		Transport of small molecules	-1.6
PA3377Transport of small molecules-2.3PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3375		Transport of small molecules	-2.0
PA3378Transport of small molecules-2.7PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3376		Transport of small molecules	-1.7
PA3379Transport of small molecules-2.6PA3380Transport of small molecules-2.8PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3377		Transport of small molecules	-2.3
PA3380Transport of small molecules-2.8PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3378		Transport of small molecules	-2.7
PA3381Transcriptional regulators-3.5PA3382phnEMembrane proteins; Transport of small molecules-8.3	PA3379		Transport of small molecules	-2.6
<b>PA3382</b> phnEMembrane proteins; Transport of small molecules-8.3	PA3380		Transport of small molecules	-2.8
	PA3381		Transcriptional regulators	-3.5
PA3383Transport of small molecules-7.6	PA3382	phnE	Membrane proteins; Transport of small molecules	-8.3
	PA3383		Transport of small molecules	-7.6

PA3384phnCTransport of small molecules-7.9PA3432Membrane proteins-1.6PA3436Hypothetical, unclassified, unknown-1.9PA3443Membrane proteins; Transport of small molecules-1.6PA3531bfrBTransport of small molecules; Adaptation, Protection-1.9PA3841exoSSecreted Factors (toxins, enzymes, alginate)-1.6PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted Factors (toxins, enzymes, alginate)-7.1	
PA3436Hypothetical, unclassified, unknown-1.9PA3443Membrane proteins; Transport of small molecules-1.6PA3531bfrBTransport of small molecules; Adaptation, Protection-1.9PA3841exoSSecreted Factors (toxins, enzymes, alginate)-1.6PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted-7.1	
PA3443Membrane proteins; Transport of small molecules-1.6PA3531bfrBTransport of small molecules; Adaptation, Protection-1.9PA3841exoSSecreted Factors (toxins, enzymes, alginate)-1.6PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted-7.1	
PA3531bfrBTransport of small molecules; Adaptation, Protection-1.9PA3841exoSSecreted Factors (toxins, enzymes, alginate)-1.6PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted-7.1	
ProtectionPA3841exoSSecreted Factors (toxins, enzymes, alginate)-1.6PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted-7.1	
PA3909Hypothetical, unclassified, unknown-3.6PA3910Nucleotide biosynthesis and metabolism; Secreted-7.1	
PA3910 Nucleotide biosynthesis and metabolism; Secreted -7.1	
PA3925Putative enzymes-1.5	
PA3990Hypothetical, unclassified, unknown-3.0	
PA4138tyrSAmino acid biosynthesis and metabolism;-2.0Translation, post-translational modification, degradation-2.0	
PA4307pctCAdaptation, Protection; Chemotaxis-2.0	
PA4335Hypothetical, unclassified, unknown-1.6	
PA4350Fatty acid and phospholipid metabolism-8.6	
PA4351Fatty acid and phospholipid metabolism; Fatty acid -10.and phospholipid metabolism	4
PA4443cysDCentral intermediary metabolism; Amino acid-1.5biosynthesis and metabolism	
PA4582Hypothetical, unclassified, unknown-1.9	
PA4583Hypothetical, unclassified, unknown-2.1	
PA4635Hypothetical, unclassified, unknown-2.4	
PA4656Hypothetical, unclassified, unknown-1.7	
PA4658Hypothetical, unclassified, unknown-1.5	
PA4821 Membrane proteins; Transport of small molecules -2.2	
PA4822Membrane proteins-1.6	

PA4823		Hypothetical, unclassified, unknown	-1.5
PA4826		Hypothetical, unclassified, unknown	-1.5
PA4844		Adaptation, Protection; Chemotaxis	-4.2
PA4985		Hypothetical, unclassified, unknown	-1.6
PA5082		Transport of small molecules	-2.0
PA5297	рохВ	Central intermediary metabolism; Energy metabolism	-1.7
PA5360	phoB	Transcriptional regulators; Two-component regulatory systems	-2.6
PA5361	phoR	Two-component regulatory systems	-1.7
PA5365	phoU	Membrane proteins; Transcriptional regulators	-1.6
PA5366	pstB	Membrane proteins; Transport of small molecules	-1.8
PA5367	pstA	Membrane proteins; Transport of small molecules	-2.2
PA5368	pstC	Membrane proteins; Transport of small molecules	-2.0
PA5369		Transport of small molecules	-1.9
PA5389		Transcriptional regulators	-1.5
PA5436		Central intermediary metabolism	-1.6