

Supplementary information: Proteome-wide cellular protein concentrations of the human pathogen *Leptospira interrogans*

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Supplement Results

Detailed description of a method for determining absolute protein abundances on a proteome-wide scale

In this study we developed a mass spectrometry based strategy to determine the average number of protein copies per cell in a cell population, for a significant fraction of the proteome in genetically unperturbed cells. The strategy combines three mass spectrometry based proteomic methods and a summary of the workflow is depicted in Figure S1. In a first step, the proteome of the cell sample under study is subjected to extensive mapping via LC-MS/MS experiments, whereby precursor ions selected on the fly by the mass spectrometer (data dependent acquisition, DDA) or by the use of a rolling inclusion list ¹, are subjected to collision activated dissociation (CAD). The resulting fragment ion spectra are then assigned to peptide sequences in a database and the sequence and the number of repeat observations for each peptide is entered into an instance of the PeptideAtlas database ². The result of this first step is a qualitative map of proteins identified by tandem mass spectrometry from the proteome in question. In a second step, the absolute abundance of a limited number of proteins spanning a broad range of protein concentrations is determined by selected reaction monitoring (SRM, also referred to as multiple reaction monitoring, MRM) using stable isotope labeled reference peptides ³. The values from these measurements represent anchor points for the calculation of an absolute abundance scale for a significant fraction of the MS observable proteome. In a third step, the median ion intensities for the signals of the 1-3 most intense precursor ions representing a particular protein are extracted from the LC-MS maps of a trypsinized proteome sample. These values are calibrated by the SRM values to derive absolutely quantified anchor protein values and to generate an absolute abundance scale for a large fraction of the MS observable proteins of the proteome. The combined output from the three mass spectrometry methods results in an extensive map of the MS observable proteome and an estimated absolute abundance scale for a majority of the detected proteins

Proteome coverage statistics

We note that 99.3% of the observed proteins contain minimally two tryptic peptides with favorable properties for mass spectrometry analysis (molecular weight between 0.6 and 5.2 kDa), while the same is true for 98.7% of the unobserved proteins. Therefore these proteins should be detectable by mass spectrometry if expressed above the detection limit. A Codon usage analysis with the CodonW software

⁴ (Figure S2) revealed a difference between the undetected and detected proteins, indicating the lower abundance or absence of the first group under the selected growth conditions.

Absolute protein abundance and cryo-electron tomograms in assembling molecular in vivo models with special emphasis on L. interrogans chemotaxis and motility system

The ability to determine the absolute concentration of a large number of proteins and protein complexes in a specific cell type and to relate this information to the distribution of specific complexes in the cell allowed us to address some open questions in bacterial physiology. We used the proteome-wide abundance maps and library of tomograms to characterize the chemotaxis and motility system of *L. interrogans*, which has been recognized as much more complex than in other bacteria ⁵ and plays an important role during pathogenesis.

Chemotaxis: The *L. interrogans* genome ^{6,7} contains in total 3658 gene models with more than 4% of the protein-coding sequences related to motility and chemotaxis. Due to its mode of living, *L. interrogans* requires a highly organized motility system that enables movement in dense media as serum and eukaryotic cells as well as skin penetration. As a facultative parasitic organism it also needs the capability to adapt to aqueous surroundings. We extracted the protein copy numbers for the genes assigned to motility and chemotaxis and summarized the cellular protein composition, abundance and structural arrangement of this unusual chemotaxis system in spirochetes (see Figure 1C). The stimulus triggering a signaling cascade that ultimately causes movement is recognized by methyl accepting membrane coupled receptors (MCPs). Thus, a signal needs to travel only a short distance (around 200 nm) to trigger the next (but not the far) motor. Although 12 different genes code for MCPs in *L. interrogans*, most of them are expressed at low copy numbers of 20-600 per cell (or even below the detection limit), except for a large excess of mcpA (~4000 copies per cell). This protein consequently is the major receptor component ⁸ under the investigated conditions. MCPs regulate autophosphorylation of the sensor histidine kinase CheA, which in turn phosphorylates the response regulator CheY forming CheY-P. The chemo-receptor complex consists of MCP, CheW, and CheA, that were found to occur in ratios of 12:6: 2 per unit cell *in vitro* ⁹ but sub-stoichiometrical *in vivo* 6.8 : 1.6 : 2 ¹⁰. Considering all MCPs and three different CheW gene products, the ratio is further reduced in life *L. interrogans* cells (50:6:2). We can thus confirm the stoichiometric relationship between CheA and CheW (as observed *in vitro*), whereas the level of MCP to CheA seems to be four times higher in the spirochetes compared to other

bacteria. The presence of three different CheW gene products that serve as adaptors for CheA (CheY kinase) implies the existence of different substrates to be phosphorylated. Indeed out of 8 different CheY gene products, 6 were detected in our analysis, 2 of them being very high abundant. Interestingly, the cellular concentration of CheY8 strongly increases during stress induced by antibiotics treatment. Generally, CheY response regulators are present at 20-30 fold excess compared to their kinase CheA and phosphatase CheZ, verifying a large abundance difference between enzyme and substrate indicating that these enzymes work at V_{max} within the cell, as suggested earlier¹¹. In summary, the components of the *L. interrogans* chemotaxis system have very different abundances forcing the enzymes involved to work at high efficiency. Some components can be adjusted to a changing environment (as in case of Ciprofloxacin exposure), while others are highly ordered and organized around the cell poles, enabling a highly efficient signal transmission in a very concise subvolume of the cell.

Cell shape determination: It is not clear how exactly *L. interrogans* maintains its spiraled cell shape. The contribution of the peptidoglycan layer, the periplasmic flagella and the cytoplasmic filaments has been discussed^{5,7} but so far remained elusive. As stated above, the abundance calculations as well as the cryoET data (Figure S3) led us to conclude that the flagellum does not cover the entire cell length. In contrast to *B. burgdorferi*¹² it is unlikely that the cell shape is determined by the flagellum in *L. interrogans*. The same arguments can be made for apparent cytoplasmic filaments. These filaments have been visualized using tomography¹³ and ascribed to MreB. This protein has a longitudinal subunit spacing of 5.1 nm¹⁴ and occurs in 2500 copies per cell in *Leptospira*, allowing for a maximum of ~13 μ m of a single filament. Therefore, a bundle of several filaments stretching throughout most of the cell cannot be explained by MreB alone. Consequently, it is unlikely that the MreB proteins - traditionally denoted as involved in bacterial rod-shape determination⁷ - can exclusively determine the cellular shape. They are however predominant in the cytoplasm of subvolumes where cells have been stretched out on the carbon support of the EM-grid (not shown) and therefore speculatively might function in mechanical stress response. Both the periplasmic flagella and cytoplasmic filaments are apparent in most of tomograms, but in many cases do not stretch through the entire subvolume (Figure S3). In tomograms without one or the other structure the cells still display their typical shape, deciphering that none of the two components are critical for maintaining the kinked cellular outline as previously been suggested^{7,15}. If both structures were present they occurred in a double helical arrangement with the cytoplasmic membrane in between (Figure S3). In contrast, the proteins assigned to the GO term external encapsulating structure¹⁶ (Table S2), including several peptidoglycan associated membrane

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proteins and LipL's, are the most abundant proteins in *L. interrogans*, indicating that the involvement of the peptidoglycan layer might play a more important role than anticipated.

Supplement Figures

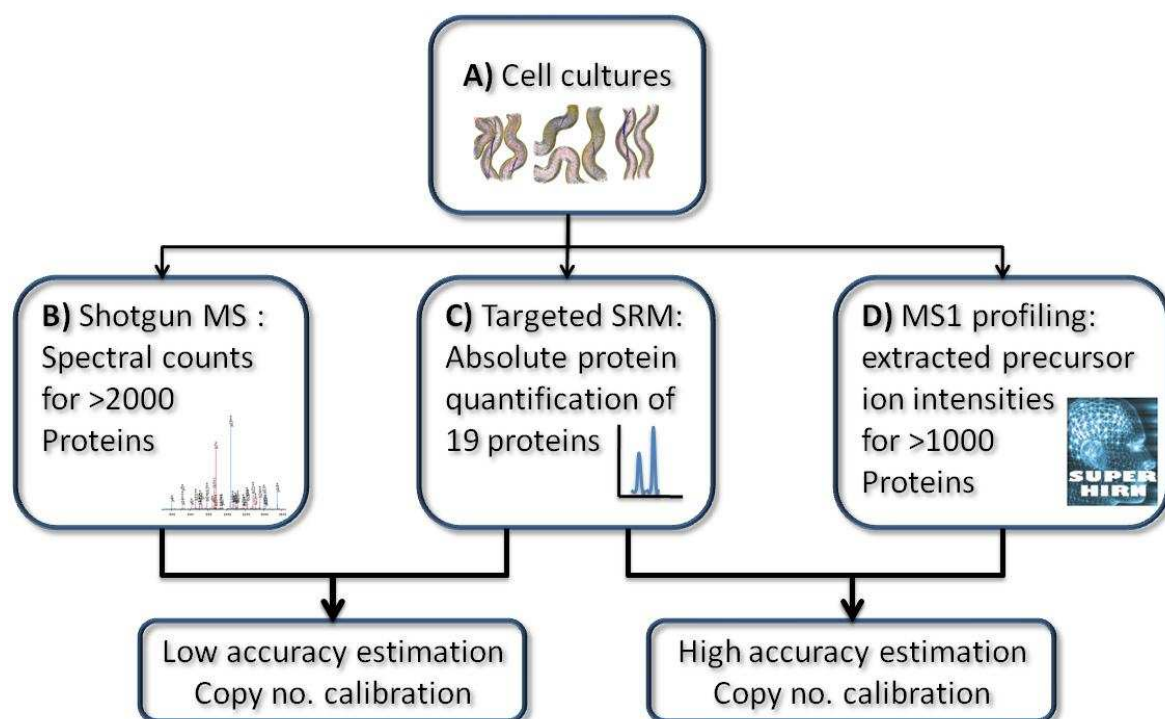


Figure S1. Schematic outline of the mass spectrometry based strategy. A) *L. Interrogans* cells at different states were grown and prepared for MS analysis. B) Generation of a proteome map by peptide separation and inclusion list directed and data dependent tandem mass spectrometry C) Targeted quantitative mass spectrometry measurements by selected reaction monitoring (SRM) using heavy isotope labeled reference peptides and D) label free quantitative mass spectrometry where peptide quantities are estimated from the extracted ion current of the most dominant precursor ions of each protein. The values from the SRM measurements represent anchor points for the calculation of an absolute abundance scale for the proteins with spectral count or extracted precursor ion intensities.

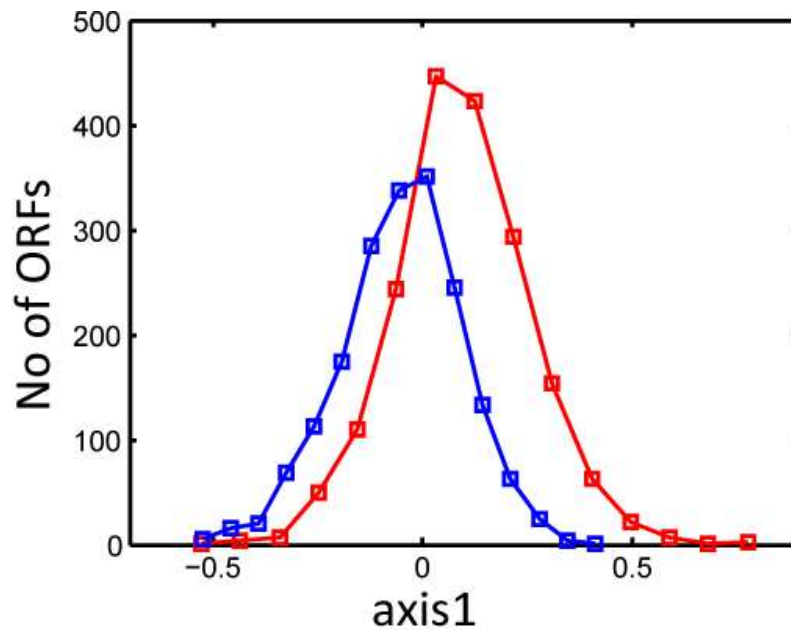


Figure S2. Codon usage analysis of *L. interrogans* genes. The software CodonW was used to identify putative optimal Codons by a correspondence analysis ⁴. Thereby, classification due to the Eigenvalue that corresponds to the major codon usage trend (so called axis1, ⁴) provides a measure for the frequency of optimal Codons of each gene. The distribution of this value is plotted as a histogram separately for the 1864 gene products identified in shotgun MS (blue) and the 1794 proteins not detected (red). The shift between the distributions indicates that the optimal codons were identified correctly and the latter group is low abundant or not expressed under the investigated conditions.

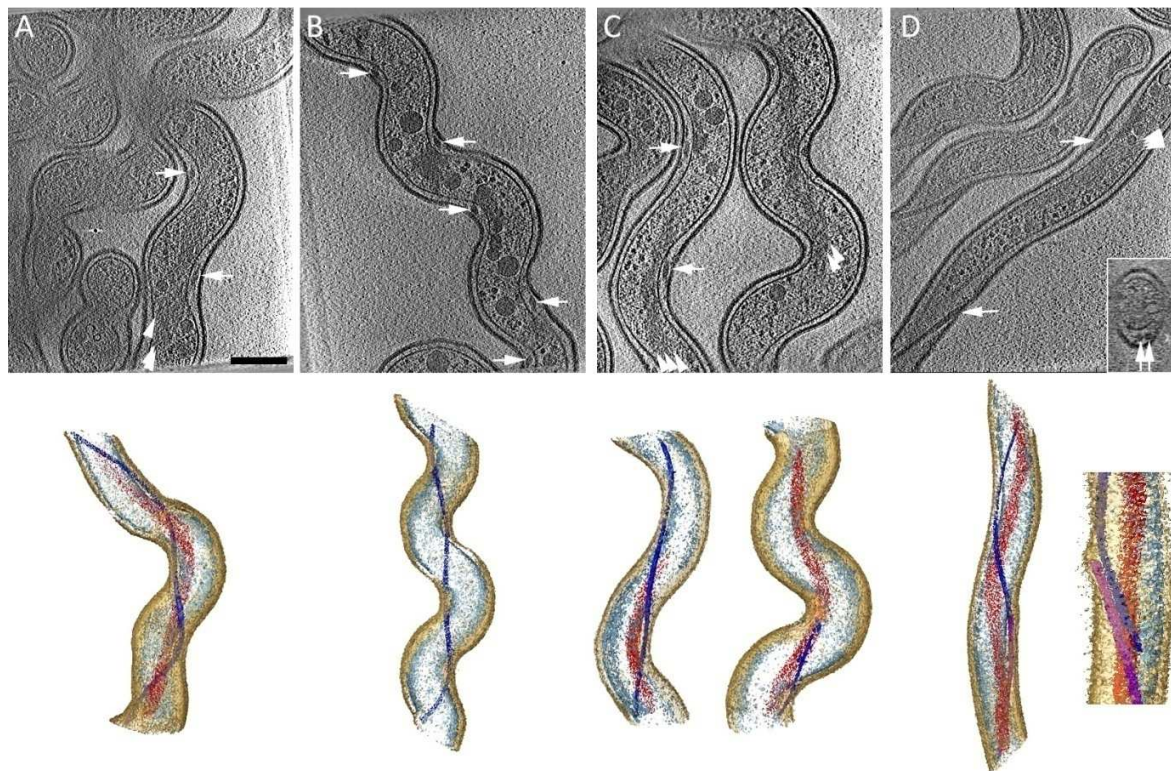


Figure S3. Presence of periplasmic flagella and cytoplasmic filaments *L. interrogans*. Slices through tomographic reconstructions of differently shaped cells are shown in the top panel (arrows: periplasmic flagella; arrowheads: cytoplasmic filaments which might also contribute to cell shape determination¹³; scalebar: 200 nm). A) Cell with both filaments and flagellum. B) Cell with only flagellum and no filaments discernable. C) Cell with flagellum and partial filaments (left) as well as a cell with trough filaments and flagellar end (right). The lower right cell shown in D is exceptional in the sense that both flagella overlap and displays a straight cell shape (inset shows a cross section). Surface rendered representations are shown in the bottom panel with the encapsulation structure colored in brown, the cytoplasmic membrane in transparent blue, periplasmic flagella in dark blue and filamentous bundles in red. The 2nd flagellum of the cell on the right is colored magenta (inset: rotated and 2-fold magnified view of the alignment region; elongation axis of all cells roughly aligned to the vertical axis). Please note the observed regions without flagella in the middle of the cells. Since both flagella take the shortest path through cells and do not overlap in the middle it is expected be shorter than the average cell length, confirming the estimated protein copy numbers of the proteins involved.

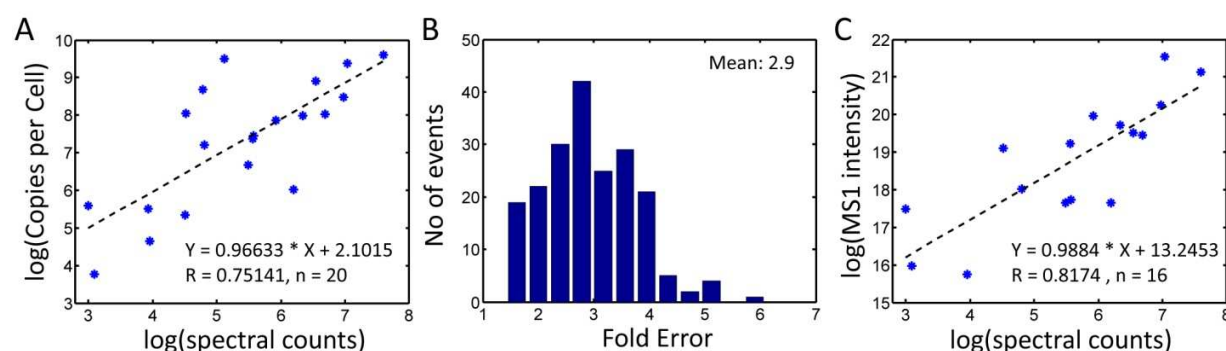


Figure S4. Correlation between spectral counting to SRM absolute abundance data A) The natural logarithm of spectral counts for the selected proteins plotted against the natural logarithm of copies/cell as determined by SRM B) The mean error was estimated to ~3 fold using bootstrap analysis C) Correlation of the natural logarithm of spectral counts with MS1 intensities precursor intensity. Since MS1 intensities were not derived for all the proteins detected by MRM the number of data points is smaller when MS1 intensities are involved.

References

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Table S1 Absolute quantification based on SRM						
Accession Number	Protein description	Reference peptide sequence	Control (fmol/ul)	Ciprofloxacin (fmol/ul)	Control (copies/cell SRM*)	Ciprofloxacin (copies/cell SRM)
sp Q72SY1 ATPA_LEPIC	ATP synthase subunit alpha (EC 3.6.3.14) (ATPase subunit alpha)	ILEVPVGPELLGR	20.95	31.72	7424	11649
		TSIALDTILNQK	27.21	38.23		
sp Q72SX9 ATPB_LEPIC	ATP synthase subunit beta (EC 3.6.3.14) (ATPase subunit beta)	FSQAGSEVSALLGR	15.40	21.49	4749	7189
sp Q72QU2 CLPB_LEPIC	Chaperone clpB	AVDLIDEASSK	1.02	1.13	414	632
		IADIQLEGLR	1.66	2.54		
sp Q72R01 CLPP2_LEPIC	ATP-dependent Clp protease proteolytic subunit 2 (EC 3.4.21.92)	IAEVFEELTGSK	8.07	8.95	1741	1681
		IFLWGPVTDESSK	2.93	1.71		
		LNQILADACGHPISK	5.93	4.24		
ref YP_000584.1 YP_000584.1	fatty acid synthase subunit beta	TEVITHANLVR	4.37	2.41	1348	766
		AIAEEVPK	3.48	1.64	1587	794
		EFFDTSFK	6.82	3.25		
ref YP_001158.1 YP_001158.1	flagellar hook protein	VATAVFNNPAGLDK	0.34	0.28	105	82
ref YP_001355.1 YP_001355.1	flagellar M-ring protein	GFTPDGPAGTEPNIAPGYK	0.16	0.15	43	35
		IISDFEEDLEK	0.12	0.09		
ref YP_001839.1 YP_001839.1	flagellin protein	ANLGAYFNR	47.25	72.95	11860	18043
		VLAIQSSNGIYSAEDR	29.68	51.44		
sp P61438 CH60_LEPIC	60 kDa chaperonin (Protein Cpn60) (groEL protein) (Heat shock 58 kDa protein)	AVTAAVESIQK	48.48	50.17	14868	17711
		VEDALSATR	47.96	60.18		
sp P61436 CH10_LEPIC	10 kDa chaperonin (Protein Cpn10) (groES protein) (Heat shock 10 kDa protein)	ESDILAVVK	32.85	19.50	13244	11919
		VGDTVLYGK	53.05	48.87		
sp Q72RY7 HSLU_LEPIC	ATP-dependent hsl protease ATP-binding subunit hslU	HGSGQITGFATSSTLADEDRK	0.77	0.47	266	202
		LLEEVSFEGPDLPESEQR	0.95	1.01		
ref YP_002145.1 YP_002145.1	Hsp15-like protein	ILELPTEVDSEK	0.79	26.74	244	10281
sp Q72QA1 HSP15_LEPIC	Probable 15 kDa heat shock protein	DVQVQLEK	0.67	15.51	208	5964
ref YP_001227.1 YP_001227.1	MreB	GIVLTGGGCLLR	11.21	16.49	2608	4036
		TGGDEFDEAIK	5.70	8.29		
sp P62217 RECA_LEPIC	Protein recA (Recombinase A)	IVEIYGPESSGK	2.58	33.70	795	12823
sp Q72QK0 RS6_LEPIC	30S ribosomal protein S6	EFLINQNILR	19.13	11.49	5899	4077
ref YP_002772.1 YP_002772.1	30S ribosomal protein S5	FSFNALSVVGDKR	10.14	7.22	3126	2643
sp Q72NI8 RPOA_LEPIC	DNA-directed RNA polymerase alpha chain (EC 2.7.7.6)	ITNLDYLPNLIQIKK	10.05	10.59	3100	3264
sp Q72UA7 RPOC_LEPIC	DNA-directed RNA polymerase beta' chain (EC 2.7.7.6)	TFDLGEVGR	9.70	10.35	2991	3204
		FATSDLNLYR	9.48	8.29	2923	2535
* Selected reaction monitoring						

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Supplement Table 2. Estimated protein copies per cell for the detectable proteome in <i>L. interrogans</i>					
Accession number	Protein description	GO annotation	Control (copies/cell MS1)	Ciprofloxacin 24h (copies/cell MS1)	Control (copies/cell Spectral counts)
ref YP_003221.1 YP_003221.1	ABC transporter, ATP-binding protein	ABC-transporter	1185	1796	923
ref YP_002117.1 YP_002117.1	ABC transporter, ATP-binding protein	ABC-transporter	504	443	85
ref YP_000522.1 YP_000522.1	ABC transporter ATP-binding protein	ABC-transporter	240	394	238
ref YP_000340.1 YP_000340.1	ABC transporter ATP-binding protein	ABC-transporter		386	281
ref YP_000502.1 YP_000502.1	ABC transporter, atp-binding protein	ABC-transporter	275	271	75
ref YP_001503.1 YP_001503.1	ABC transporter, ATP-binding protein	ABC-transporter	227	209	169
ref YP_000922.1 YP_000922.1	ABC transporter, ATP-binding protein	ABC-transporter	217	184	30
ref YP_000224.1 YP_000224.1	ABC transporter ATP-binding protein	ABC-transporter	143	179	75
ref YP_002457.1 YP_002457.1	sulfate ABC transporter periplasmic sulphate-binding protein precursor	ABC-transporter	275	164	403
ref YP_002606.1 YP_002606.1	ABC transporter ATP-binding protein	ABC-transporter	326		207
ref YP_003334.1 YP_003334.1	ABC Transporter, ATP-binding protein	ABC-transporter			143
ref YP_003287.1 YP_003287.1	ABC transporter ATP-binding protein	ABC-transporter			47
ref YP_002245.1 YP_002245.1	ABC transporter ATP-binding protein	ABC-transporter			27
ref YP_003617.1 YP_003617.1	phosphate ABC transporter periplasmic phosphate-binding protein	ABC-transporter			21
ref YP_000615.1 YP_000615.1	ABC transporter ATP-binding protein	ABC-transporter			155
ref YP_001755.1 YP_001755.1	ABC transporter, ATP-binding protein	ABC-transporter			82
ref YP_001189.1 YP_001189.1	ABC transporter permease protein	ABC-transporter			61
ref YP_000516.1 YP_000516.1	ABC transporter, ATP-binding protein	ABC-transporter			34
ref YP_001775.1 YP_001775.1	ABC transporter, ATP-binding protein	ABC-transporter			21
ref YP_001051.1 YP_001051.1	ABC transporter ATP-binding protein	ABC-transporter			17
ref YP_002229.1 YP_002229.1	ABC transporter ATP-binding protein	ABC-transporter			14
ref YP_000375.1 YP_000375.1	ABC transporter ATP-binding protein	ABC-transporter			14
ref YP_003288.1 YP_003288.1	ABC transporter, ATP-binding protein	ABC-transporter			14
ref YP_002456.1 YP_002456.1	sulfate ABC transport system permease protein	ABC-transporter			14
ref YP_003285.1 YP_003285.1	dipeptide ABC transport system permease protein	ABC-transporter			11
ref YP_002013.1 YP_002013.1	ABC transporter ATP-binding protein	ABC-transporter			5
ref YP_000655.1 YP_000655.1	ABC transporter, ATP-binding protein	ABC-transporter			5
ref YP_000564.1 YP_000564.1	ABC transporter, atp-binding protein	ABC-transporter			
ref YP_002605.1 YP_002605.1	ABC transporter, membrane spanning protein	ABC-transporter			
ref YP_001050.1 YP_001050.1	ABC transporter integral membrane protein	ABC-transporter			
ref YP_001456.1 YP_001456.1	ABC transporter ATP-binding protein	ABC-transporter			
ref YP_001807.1 YP_001807.1	ABC transporter ATP-binding protein	ABC-transporter			
ref YP_003286.1 YP_003286.1	dipeptide ABC transport system permease protein	ABC-transporter			
ref YP_000659.1 YP_000659.1	ABC transporter ATP-binding protein	ABC-transporter			
ref YP_002866.1 YP_002866.1	dipeptide/oligopeptide ABC transport system permease protein	ABC-transporter			
ref YP_000132.1 YP_000132.1	ABC transporter ATP-binding protein	ABC-transporter			
ref YP_001396.1 YP_001396.1	ABC transporter ATP-binding protein	ABC-transporter			
ref YP_000517.1 YP_000517.1	ABC transporter periplasmic dipeptide-binding protein	ABC-transporter			
ref YP_001756.1 YP_001756.1	ABC transporter permease protein	ABC-transporter			
ref YP_001806.1 YP_001806.1	ABC transporter permease protein	ABC-transporter			
ref YP_002230.1 YP_002230.1	ABC transporter permease protein	ABC-transporter			
ref YP_003220.1 YP_003220.1	ABC transporter permease protein	ABC-transporter			
ref YP_002455.1 YP_002455.1	sulfate ABC transport system permease protein	ABC-transporter			
ref YP_000417.1 YP_000417.1	cell division protein	cell cycle	1713	1200	246
ref YP_001537.1 YP_001537.1	FtsA	cell cycle	433	533	75
ref YP_001565.1 YP_001565.1	cell division ATPase	cell cycle			71
ref YP_002882.1 YP_002882.1	cell division protein FtsZ	cell cycle			50
ref YP_002883.1 YP_002883.1	FtsA	cell cycle			238

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ref YP_002381.1 YP_002381.1	hypothetical protein LIC12452	cell cycle			54
ref YP_000814.1 YP_000814.1	cell division inhibitor	cell cycle			
ref YP_003095.1 YP_003095.1	cell volume regulation protein CvrA	cell cycle			
ref YP_001814.1 YP_001814.1	cell division protein	cell cycle			
ref YP_002287.1 YP_002287.1	cell surface saccharide acetylase protein	cell cycle			
ref YP_002836.1 YP_002836.1	methyl-accepting chemotaxis protein	chemotaxis	4238	6006	391
ref YP_003091.1 YP_003091.1	methyl-accepting chemotaxis-like	chemotaxis	3700	861	615
ref YP_001482.1 YP_001482.1	chemotaxis protein	chemotaxis	628	790	288
ref YP_001185.1 YP_001185.1	methyl-accepting chemotaxis transducer transmembrane protein	chemotaxis	263	516	24
ref YP_002175.1 YP_002175.1	chemotaxis protein	chemotaxis	324	454	192
ref YP_001661.1 YP_001661.1	histidine kinase response regulator hybrid protein	chemotaxis	262	423	766
ref YP_002385.1 YP_002385.1	chemotaxis protein	chemotaxis		325	177
ref YP_001820.1 YP_001820.1	chemotaxis protein methyltransferase	chemotaxis	335	296	169
ref YP_001660.1 YP_001660.1	histidine kinase response regulator hybrid protein	chemotaxis	121	255	347
ref YP_003297.1 YP_003297.1	methyl-accepting chemotaxis transmembrane protein	chemotaxis	209	214	50
ref YP_002428.1 YP_002428.1	chemoreceptor (methyl-accepting chemotaxis) transmembrane protein	chemotaxis		193	118
ref YP_000063.1 YP_000063.1	histidine kinase sensor protein	chemotaxis	191	176	47
ref YP_001486.1 YP_001486.1	histidine kinase response regulator hybrid protein	chemotaxis		137	136
ref YP_002311.1 YP_002311.1	histidine kinase sensor protein	chemotaxis	113	127	
ref YP_001969.1 YP_001969.1	histidine kinase sensor protein	chemotaxis	151	120	78
ref YP_002550.1 YP_002550.1	histidine kinase response regulator hybrid protein	chemotaxis	68	76	147
ref YP_001485.1 YP_001485.1	chemotaxis response regulator	chemotaxis	251	64	129
ref YP_001992.1 YP_001992.1	histidine kinase response regulator hybrid protein	chemotaxis	135		211
ref YP_001080.1 YP_001080.1	histidine kinase response regulator hybrid protein	chemotaxis			261
ref YP_001449.1 YP_001449.1	chemotaxis protein	chemotaxis			162
ref YP_001172.1 YP_001172.1	histidine kinase response regulator hybrid protein	chemotaxis			158
ref YP_003236.1 YP_003236.1	histidine kinase sensor protein	chemotaxis			107
ref YP_001481.1 YP_001481.1	chemotaxis protein	chemotaxis			75
ref YP_001170.1 YP_001170.1	histidine kinase sensor protein	chemotaxis			54
sp P62643 CHEB3_LEPIC	Chemotaxis response regulator protein-glutamate methyltransferase of group 3 operon (EC 3.1.1.61) - Lep	chemotaxis			27
ref YP_001994.1 YP_001994.1	histidine kinase response regulator hybrid protein	chemotaxis			21
ref YP_002021.1 YP_002021.1	histidine kinase sensor protein	chemotaxis			17
ref YP_001643.1 YP_001643.1	methyl-accepting chemotaxis protein	chemotaxis			14
ref YP_003195.1 YP_003195.1	histidine kinase sensor protein	chemotaxis			
sp P62641 CHEB1_LEPIC	Chemotaxis response regulator protein-glutamate methyltransferase of group 1 operon (EC 3.1.1.61)	chemotaxis			234
ref YP_001483.1 YP_001483.1	chemotaxis protein histidine kinase	chemotaxis			136
ref YP_001487.1 YP_001487.1	histidine kinase sensor protein	chemotaxis			57
ref YP_001402.1 YP_001402.1	histidine kinase response regulator hybrid protein	chemotaxis			40
ref YP_003631.1 YP_003631.1	histidine kinase sensor protein	chemotaxis			37
ref YP_003019.1 YP_003019.1	histidine kinase response regulator hybrid protein	chemotaxis			34
ref YP_002994.1 YP_002994.1	histidine kinase response regulator hybrid protein	chemotaxis			30
ref YP_002031.1 YP_002031.1	histidine kinase sensor protein	chemotaxis			30
ref YP_002170.1 YP_002170.1	histidine kinase response regulator hybrid protein	chemotaxis			17
ref YP_001507.1 YP_001507.1	histidine kinase sensor protein	chemotaxis			17
ref YP_002999.1 YP_002999.1	histidine kinase sensor protein	chemotaxis			17

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ref YP_001395.1 YP_001395.1	histidine kinase sensor protein	chemotaxis			14
ref YP_002410.1 YP_002410.1	putative methyl-accepting chemotaxis I	chemotaxis			14
ref YP_000967.1 YP_000967.1	histidine kinase sensor protein	chemotaxis			11
ref YP_001190.1 YP_001190.1	histidine kinase sensor protein	chemotaxis			8
ref YP_000116.1 YP_000116.1	histidine kinase sensor protein	chemotaxis			5
ref YP_003100.1 YP_003100.1	histidine kinase response regulator hybrid protein	chemotaxis			
ref YP_001401.1 YP_001401.1	histidine kinase sensor protein	chemotaxis			
ref YP_003177.1 YP_003177.1	histidine kinase sensor protein	chemotaxis			
ref YP_003404.1 YP_003404.1	histidine kinase sensor protein	chemotaxis			
ref YP_001370.1 YP_001370.1	putative methyl-accepting chemotaxis transmembrane protein	chemotaxis			
ref YP_002845.1 YP_002845.1	chemotaxis motility protein A	chemotaxis			
ref YP_000783.1 YP_000783.1	histidine kinase sensor protein	chemotaxis			
ref YP_000897.1 YP_000897.1	histidine kinase sensor protein	chemotaxis			
ref YP_003304.1 YP_003304.1	methyl-accepting chemotaxis protein	chemotaxis			
ref YP_001996.1 YP_001996.1	chemotaxis protein	chemotaxis			
ref YP_000536.1 YP_000536.1	histidine kinase	chemotaxis			
ref YP_000323.1 YP_000323.1	histidine kinase	chemotaxis			
ref YP_001258.1 YP_001258.1	histidine kinase sensor protein	chemotaxis			
ref YP_003020.1 YP_003020.1	histidine kinase sensor protein	chemotaxis			
ref YP_003613.1 YP_003613.1	histidine kinase sensor protein	chemotaxis			
ref YP_002725.1 YP_002725.1	histidine kinase sensor protein	chemotaxis			
ref YP_000096.1 YP_000096.1	histidine kinase sensor protein	chemotaxis			
ref YP_003196.1 YP_003196.1	histidine kinase sensor protein	chemotaxis			
ref YP_001387.1 YP_001387.1	histidine kinase sensor protein	chemotaxis			
ref YP_001844.1 YP_001844.1	histidine kinase sensor protein	chemotaxis			
ref YP_002153.1 YP_002153.1	histidine kinase sensor protein	chemotaxis			
ref YP_003574.1 YP_003574.1	histidine kinase sensor protein	chemotaxis			
ref YP_000669.1 YP_000669.1	methyl-accepting chemotaxis transducer transmembrane protein	chemotaxis			
ref YP_000167.1 YP_000167.1	hypothetical protein LIC10175	Cipro induced hypothetical protein	422	39916	657
ref YP_002538.1 YP_002538.1	hypothetical protein LIC12615	Cipro induced hypothetical protein	364	31064	682
ref YP_000168.1 YP_000168.1	hypothetical protein LIC10176	Cipro induced hypothetical protein	224	24432	219
ref YP_000169.1 YP_000169.1	hypothetical protein LIC10177	Cipro induced hypothetical protein	240	13249	230
ref YP_002537.1 YP_002537.1	hypothetical protein LIC12614	Cipro induced hypothetical protein	73	9336	472
ref YP_002539.1 YP_002539.1	hypothetical protein LIC12616	Cipro induced hypothetical protein		8186	207
ref YP_000166.1 YP_000166.1	hypothetical protein LIC10174	Cipro induced hypothetical protein	131	5860	200
ref YP_002523.1 YP_002523.1	hypothetical protein LIC12600	Cipro induced hypothetical protein	145	2242	68
ref YP_002526.1 YP_002526.1	hypothetical protein LIC12603	Cipro induced hypothetical protein		2050	125
ref YP_002536.1 YP_002536.1	hypothetical protein LIC12613	Cipro induced hypothetical protein		1784	151
ref YP_002525.1 YP_002525.1	hypothetical protein LIC12602	Cipro induced hypothetical protein		1720	5

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ref YP_002528.1 YP_002528.1	hypothetical protein LIC12605	Cipro induced hypothetical protein		1375	118
ref YP_002524.1 YP_002524.1	hypothetical protein LIC12601	Cipro induced hypothetical protein	69	1258	8
ref YP_000159.1 YP_000159.1	hypothetical protein LIC10167	Cipro induced hypothetical protein		1204	173
ref YP_000177.1 YP_000177.1	hypothetical protein LIC10186	Cipro induced hypothetical protein		1078	14
ref YP_002499.1 YP_002499.1	cytoplasmic membrane protein	cytoplasmic membrane	1064	1141	940
ref YP_003395.1 YP_003395.1	hypothetical protein LIC20001	cytoplasmic membrane	306	327	415
ref YP_001800.1 YP_001800.1	cytoplasmic membrane protein	cytoplasmic membrane		98	82
ref YP_001052.1 YP_001052.1	cytoplasmic membrane protein	cytoplasmic membrane	220		17
ref YP_002679.1 YP_002679.1	cytoplasmic membrane protein	cytoplasmic membrane			226
ref YP_000962.1 YP_000962.1	cytoplasmic membrane protein	cytoplasmic membrane			155
ref YP_000695.1 YP_000695.1	cytoplasmic membrane protein	cytoplasmic membrane			68
ref YP_002333.1 YP_002333.1	cytoplasmic membrane protein	cytoplasmic membrane			24
ref YP_002574.1 YP_002574.1	cytoplasmic membrane protein	cytoplasmic membrane			8
ref YP_001929.1 YP_001929.1	cytoplasmic membrane protein	cytoplasmic membrane			151
ref YP_000926.1 YP_000926.1	cytoplasmic membrane protein	cytoplasmic membrane			54
ref YP_001067.1 YP_001067.1	cytoplasmic membrane protein	cytoplasmic membrane			37
ref YP_003356.1 YP_003356.1	cytoplasmic membrane protein	cytoplasmic membrane			21
ref YP_001146.1 YP_001146.1	cytoplasmic membrane protein	cytoplasmic membrane			17
ref YP_001257.1 YP_001257.1	cytoplasmic membrane protein	cytoplasmic membrane			14
ref YP_001873.1 YP_001873.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_000486.1 YP_000486.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_001982.1 YP_001982.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002194.1 YP_002194.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_000494.1 YP_000494.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_001150.1 YP_001150.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_001465.1 YP_001465.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_001618.1 YP_001618.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002407.1 YP_002407.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002441.1 YP_002441.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002815.1 YP_002815.1	cytoplasmic membrane protein	cytoplasmic membrane			

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ref YP_002854.1 YP_002854.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002909.1 YP_002909.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_003386.1 YP_003386.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_003595.1 YP_003595.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_003621.1 YP_003621.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_003622.1 YP_003622.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002003.1 YP_002003.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_001469.1 YP_001469.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002307.1 YP_002307.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_000181.1 YP_000181.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_000802.1 YP_000802.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_000479.1 YP_000479.1	cytoplasmic membrane protein	cytoplasmic membrane			
ref YP_002472.1 YP_002472.1	DNA binding protein	DNA/RNA binding	1083	1420	379
ref YP_001152.1 YP_001152.1	hypothetical protein LIC11182	DNA/RNA binding	753	920	44
sp Q72Q67 HFQ_LEPIC	Protein hfq	DNA/RNA binding	2040	450	242
ref YP_000150.1 YP_000150.1	hypothetical protein LIC10158	DNA/RNA binding	369	254	192
ref YP_003659.1 YP_003659.1	ParB	DNA/RNA binding	207	249	316
sp Q72S30 Y1156_LEPIC	UPF0109 protein LIC_11556	DNA/RNA binding			85
ref YP_001954.1 YP_001954.1	hypothetical protein LIC12016	DNA/RNA binding			82
ref YP_003387.1 YP_003387.1	ParB	DNA/RNA binding			40
ref YP_001317.1 YP_001317.1	ParB family protein	DNA/RNA binding			8
ref YP_000905.1 YP_000905.1	type I restriction enzyme	DNA/RNA binding			21
ref YP_003413.1 YP_003413.1	ParB	DNA/RNA binding			14
ref YP_000160.1 YP_000160.1	hypothetical protein LIC10168	DNA/RNA binding			
ref YP_000881.1 YP_000881.1	hypothetical protein LIC10904	DNA/RNA binding			
ref YP_002583.1 YP_002583.1	DNA binding protein with PIN domain	DNA/RNA binding			
ref YP_003497.1 YP_003497.1	DNA binding protein	DNA/RNA binding			
ref YP_003496.1 YP_003496.1	DNA binding protein	DNA/RNA binding			
ref YP_001554.1 YP_001554.1	DNA mismatch repair protein	DNA/RNA binding			
ref YP_003292.1 YP_003292.1	DNA mismatch repair protein	DNA/RNA binding			
ref YP_000157.1 YP_000157.1	hypothetical protein LIC10165	DNA/RNA binding			
sp P62217 RECA_LEPIC	Protein recA (Recombinase A)	DNA/RNA metabolic	660	4703	957

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		process			
ref YP_002622.1 YP_002622.1	polynucleotide phosphorylase	DNA/RNA metabolic process	1821	1796	2354
ref YP_001743.1 YP_001743.1	ATP-dependent DNA helicase	DNA/RNA metabolic process	1382	1174	611
ref YP_002046.1 YP_002046.1	single-stranded DNA binding protein	DNA/RNA metabolic process	1339	1030	447
ref YP_003253.1 YP_003253.1	DNA gyrase subunit B	DNA/RNA metabolic process	879	775	363
sp Q72S00 NRDJ_LEPIC	Vitamin B12-dependent ribonucleotide reductase (EC 1.17.4.1) (Ribonucleoside-diphosphate reductase)	DNA/RNA metabolic process	438	598	269
ref YP_003252.1 YP_003252.1	DNA gyrase subunit A	DNA/RNA metabolic process	590	594	395
ref YP_000006.1 YP_000006.1	DNA gyrase subunit A	DNA/RNA metabolic process	536	537	230
ref YP_001639.1 YP_001639.1	endonuclease	DNA/RNA metabolic process	256	443	558
ref YP_000005.1 YP_000005.1	DNA gyrase subunit B	DNA/RNA metabolic process	571	420	242
ref YP_001111.1 YP_001111.1	ribonuclease D	DNA/RNA metabolic process	316	361	223
ref YP_000243.1 YP_000243.1	exonuclease	DNA/RNA metabolic process	196	357	114
sp Q72RM8 UVRA_LEPIC	UvrABC system protein A (UvrA protein) (Excinuclease ABC subunit A)	DNA/RNA metabolic process	377	342	200
ref YP_003170.1 YP_003170.1	ribonuclease D	DNA/RNA metabolic process	200	172	75
sp P62038 Y2886_LEPIC	UPF0082 protein LIC_12886	DNA/RNA metabolic process	149	62	103
ref YP_001911.1 YP_001911.1	hypothetical protein LIC11971	DNA/RNA metabolic process			281
sp Q72N95 UVRB_LEPIC	UvrABC system protein B (Protein uvrB) (Excinuclease ABC subunit B)	DNA/RNA metabolic process			132
sp Q72SA5 XERD_LEPIC	Tyrosine recombinase xerD	DNA/RNA metabolic process			71
ref YP_003490.1 YP_003490.1	phage-related integrase/recombinase	DNA/RNA metabolic process			68
ref YP_002343.1 YP_002343.1	chromosome segregation protein	DNA/RNA metabolic process			54
ref YP_002442.1 YP_002442.1	DNA mismatch repair protein	DNA/RNA metabolic process			40
ref YP_003189.1 YP_003189.1	NAD dependent DNA ligase	DNA/RNA metabolic process			226
ref YP_002043.1 YP_002043.1	replicative DNA helicase	DNA/RNA			82

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		metabolic process			
ref YP_001112.1 YP_001112.1	RadA	DNA/RNA metabolic process			78
ref YP_001118.1 YP_001118.1	DNA helicase subunit A	DNA/RNA metabolic process			61
sp P61669 MUTS_LEPIC	DNA mismatch repair protein mutS	DNA/RNA metabolic process			61
sp Q72PL7 SCPA_LEPIC	Segregation and condensation protein A	DNA/RNA metabolic process			54
sp P61534 RUVB_LEPIC	Holliday junction ATP	DNA/RNA metabolic process			50
sp Q72LS5 RECR_LEPIC	Recombination protein recR	DNA/RNA metabolic process			50
sp Q72RZ8 EX7S_LEPIC	Probable exodeoxyribonuclease VII small subunit (EC 3.1.11.6) (Exonuclease VII small subunit)	DNA/RNA metabolic process			40
ref YP_001036.1 YP_001036.1	single-stranded DNA exonuclease	DNA/RNA metabolic process			30
ref YP_001582.1 YP_001582.1	ATP-dependent DNA helicase	DNA/RNA metabolic process			24
ref YP_001413.1 YP_001413.1	exodeoxyribonuclease	DNA/RNA metabolic process			24
sp Q72RZ7 EX7L_LEPIC	Probable exodeoxyribonuclease VII large subunit (EC 3.1.11.6) (Exonuclease VII large subunit)	DNA/RNA metabolic process			21
ref YP_001684.1 YP_001684.1	atp-dependent DNA helicase	DNA/RNA metabolic process			17
ref YP_000903.1 YP_000903.1	type I restriction enzyme	DNA/RNA metabolic process			17
ref YP_002610.1 YP_002610.1	ATP-dependent DNA helicase	DNA/RNA metabolic process			11
ref YP_002512.1 YP_002512.1	ATP-dependent DNA helicase	DNA/RNA metabolic process			8
ref YP_001711.1 YP_001711.1	endonuclease III	DNA/RNA metabolic process			8
ref YP_000652.1 YP_000652.1	Mrr	DNA/RNA metabolic process			8
ref YP_001295.1 YP_001295.1	ribonuclease BN transmembrane protein	DNA/RNA metabolic process			8
ref YP_001226.1 YP_001226.1	exopolyphosphatase	DNA/RNA metabolic process			
sp Q75FW5 RNC_LEPIC	Ribonuclease III (EC 3.1.26.3) (RNase III)	DNA/RNA metabolic process			
ref YP_002607.1 YP_002607.1	exodeoxyribonuclease v alpha chain	DNA/RNA metabolic process			

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ref YP_002585.1 YP_002585.1	IS1500 transposase	DNA/RNA metabolic process			
ref YP_003279.1 YP_003279.1	IS1500 transposase	DNA/RNA metabolic process			
ref YP_000229.1 YP_000229.1	3-methyladenine DNA glycosylase	DNA/RNA metabolic process			
ref YP_002294.1 YP_002294.1	3-methyladenine DNA glycosylase	DNA/RNA metabolic process			
ref YP_002976.1 YP_002976.1	3-methyl-adenine DNA glycosylase I	DNA/RNA metabolic process			
sp Q72WD6 DNAA_LEPIC	Chromosomal replication initiator protein dnaA	DNA/RNA metabolic process			
ref YP_000406.1 YP_000406.1	DNA helicase II	DNA/RNA metabolic process			
ref YP_002608.1 YP_002608.1	exodeoxyribonuclease V beta chain	DNA/RNA metabolic process			
ref YP_002609.1 YP_002609.1	exodeoxyribonuclease v gamma chain	DNA/RNA metabolic process			
ref YP_003085.1 YP_003085.1	exonuclease	DNA/RNA metabolic process			
ref YP_001991.1 YP_001991.1	IS1500 transposase	DNA/RNA metabolic process			
ref YP_002642.1 YP_002642.1	IS1533 transposase	DNA/RNA metabolic process			
ref YP_000557.1 YP_000557.1	IS1533 transposase	DNA/RNA metabolic process			
ref YP_000975.1 YP_000975.1	IS1533 transposase	DNA/RNA metabolic process			
ref YP_002641.1 YP_002641.1	IS1533 transposase	DNA/RNA metabolic process			
ref YP_001525.1 YP_001525.1	Mg chelatase subunit chlI	DNA/RNA metabolic process			
ref YP_001510.1 YP_001510.1	primosomal protein N'	DNA/RNA metabolic process			
ref YP_002801.1 YP_002801.1	putative holliday junction endodeoxyribonuclease protein	DNA/RNA metabolic process			
ref YP_000954.1 YP_000954.1	transposase, IS1501	DNA/RNA metabolic process			
ref YP_000763.1 YP_000763.1	transposase, IS1501	DNA/RNA metabolic process			
ref YP_000764.1 YP_000764.1	transposase, IS1501	DNA/RNA metabolic process			
ref YP_001311.1 YP_001311.1	transposase, IS1501	DNA/RNA metabolic process			

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		process			
ref YP_001310.1 YP_001310.1	transposase, IS1501	DNA/RNA metabolic process			
ref YP_003281.1 YP_003281.1	transposase, IS1501	DNA/RNA metabolic process			
ref YP_000497.1 YP_000497.1	transposase, IS3	DNA/RNA metabolic process			
ref YP_000487.1 YP_000487.1	transposase, IS3	DNA/RNA metabolic process			
ref YP_003069.1 YP_003069.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000254.1 YP_000254.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000255.1 YP_000255.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000724.1 YP_000724.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000725.1 YP_000725.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000861.1 YP_000861.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000862.1 YP_000862.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000863.1 YP_000863.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000864.1 YP_000864.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000865.1 YP_000865.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001001.1 YP_001001.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001410.1 YP_001410.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001411.1 YP_001411.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001412.1 YP_001412.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001432.1 YP_001432.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001433.1 YP_001433.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001434.1 YP_001434.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_003067.1 YP_003067.1	transposase, ISlin1	DNA/RNA			

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		metabolic process			
ref YP_002974.1 YP_002974.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_002980.1 YP_002980.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_002981.1 YP_002981.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_003023.1 YP_003023.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_003024.1 YP_003024.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_003025.1 YP_003025.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_003068.1 YP_003068.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_000640.1 YP_000640.1	transposase, ISlin1	DNA/RNA metabolic process			
ref YP_001002.1 YP_001002.1	transposase, ISlin1	DNA/RNA metabolic process			
sp Q72RI9 UVRC_LEPIC	UvrABC system protein C (Protein uvrC) (Excinuclease ABC subunit C) - Leptospira interrogans serogro	DNA/RNA metabolic process			
ref YP_001519.1 YP_001519.1	ribonuclease HII	DNA/RNA metabolic process			
ref YP_000035.1 YP_000035.1	ribonuclease R	DNA/RNA metabolic process			
ref YP_000350.1 YP_000350.1	electron transport flavoprotein beta subunit	electron carrier activity	4586	4547	2372
ref YP_003372.1 YP_003372.1	ferredoxin--NADP reductase	electron carrier activity	5118	2499	897
ref YP_003420.1 YP_003420.1	NADH dehydrogenase	electron carrier activity	702	823	192
ref YP_002666.1 YP_002666.1	NADH dehydrogenase I F subunit	electron carrier activity	798	589	488
ref YP_003164.1 YP_003164.1	NADH oxidoreductase	electron carrier activity	479	441	226
ref YP_000137.1 YP_000137.1	NADH dehydrogenase I G subunit	electron carrier activity	384	345	304
ref YP_002663.1 YP_002663.1	NADH dehydrogenase I subunit C	electron carrier activity	323	325	431
ref YP_002664.1 YP_002664.1	NADH dehydrogenase I D subunit	electron carrier activity	193		166
ref YP_001784.1 YP_001784.1	ferredoxin family	electron carrier activity			100
ref YP_002665.1 YP_002665.1	NADH dehydrogenase I E subunit	electron carrier activity			85
ref YP_001587.1 YP_001587.1	thiol:disulfide interchange protein	electron carrier activity			34
ref YP_003326.1 YP_003326.1	hydrogenase subunit	electron carrier activity			30
ref YP_003165.1 YP_003165.1	ferredoxin	electron carrier activity			21

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sp Q72VZ9 NUOI_LEPIC	NADH-quinone oxidoreductase subunit I (EC 1.6.99.5) (NADH dehydrogenase I subunit I) (NDH-1 subunit)	electron carrier activity			14
ref YP_002794.1 YP_002794.1	hypothetical protein LIC12878	electron carrier activity			316
sp Q72RB6 QUEF_LEPIC	NADPH-dependent 7-cyano-7-deazaguanine reductase (EC 1.7.1.-) (NADPH-dependent nitrile oxidoreductase)	electron carrier activity			114
ref YP_003524.1 YP_003524.1	ferredoxin-like protein	electron carrier activity			50
ref YP_002662.1 YP_002662.1	NADH dehydrogenase I B subunit	electron carrier activity			27
ref YP_003327.1 YP_003327.1	hydrogenase subunit	electron carrier activity			8
ref YP_002669.1 YP_002669.1	NADH dehydrogenase I K subunit	electron carrier activity			8
ref YP_002672.1 YP_002672.1	NADH dehydrogenase I N subunit	electron carrier activity			
ref YP_002671.1 YP_002671.1	NADH dehydrogenase I M subunit	electron carrier activity			
sp Q72NT2 NUOH_LEPIC	NADH-quinone oxidoreductase subunit H (EC 1.6.99.5) (NADH dehydrogenase I subunit H) (NDH-1 subunit)	electron carrier activity			
ref YP_003129.1 YP_003129.1	Fe-S oxidoreductase	electron carrier activity			
ref YP_002670.1 YP_002670.1	NADH dehydrogenase I L subunit	electron carrier activity			
ref YP_003476.1 YP_003476.1	ferredoxin	electron carrier activity			
ref YP_003237.1 YP_003237.1	ferredoxin	electron carrier activity			
ref YP_003526.1 YP_003526.1	ferredoxin	electron carrier activity			
ref YP_003323.1 YP_003323.1	hydrogenase subunit	electron carrier activity			
ref YP_003322.1 YP_003322.1	hydrogenase subunit	electron carrier activity			
ref YP_003325.1 YP_003325.1	hydrogenase subunit	electron carrier activity			
ref YP_002661.1 YP_002661.1	NADH dehydrogenase I A subunit	electron carrier activity			
ref YP_002668.1 YP_002668.1	NADH dehydrogenase I J subunit	electron carrier activity			
ref YP_001316.1 YP_001316.1	LipL32	external encapsulating structure	38050	32190	3793
ref YP_000182.1 YP_000182.1	peptidoglycan associated cytoplasmic membrane protein	external encapsulating structure	30389	28606	992
ref YP_002879.1 YP_002879.1	LipL41	external encapsulating structure	10531	12297	3999
ref YP_000011.1 YP_000011.1	LipL21	external encapsulating structure	8830	8893	804
ref YP_002972.1 YP_002972.1	LipL36	external encapsulating structure	14100	8789	1335
ref YP_000976.1 YP_000976.1	LipL71	external encapsulating structure	6913	7060	464
ref YP_001601.1 YP_001601.1	LipL45	external encapsulating structure	3506	4544	1606

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ref YP_001417.1 YP_001417.1	LipL31	external encapsulating structure	1422	1412	292
ref YP_000119.1 YP_000119.1	LipL45-like protein	external encapsulating structure	455	604	339
ref YP_003634.1 YP_003634.1	peptidoglycan-associated cytoplasmic membrane protein	external encapsulating structure	231	339	37
ref YP_000772.1 YP_000772.1	surface antigen	external encapsulating structure	147	105	85
ref YP_003506.1 YP_003506.1	LipL45 homologue	external encapsulating structure			177
ref YP_000050.1 YP_000050.1	peptidoglycan-associated cytoplasmic membrane protein	external encapsulating structure			162
ref YP_000576.1 YP_000576.1	peptidoglycan-associated cytoplasmic membrane protein	external encapsulating structure			118
ref YP_002865.1 YP_002865.1	S-layer-like protein	external encapsulating structure			
ref YP_003317.1 YP_003317.1	LipL45-like protein	external encapsulating structure			
ref YP_000875.1 YP_000875.1	LipL48	external encapsulating structure			
ref YP_002891.1 YP_002891.1	peptide methionine sulfoxide reductase 2	external encapsulating structure			
ref YP_000521.1 YP_000521.1	peptidoglycan associated periplasmic protein	external encapsulating structure			
ref YP_003380.1 YP_003380.1	peptidoglycan-associated cytoplasmic membrane protein	external encapsulating structure			
ref YP_001839.1 YP_001839.1	flagellin protein	flagellum	14041	12240	5087
ref YP_000767.1 YP_000767.1	flagellar filament sheath protein	flagellum	4328	3719	1929
ref YP_000766.1 YP_000766.1	flagellar filament sheath protein	flagellum	3520	3424	774
ref YP_001490.1 YP_001490.1	flagellin protein	flagellum	3482	3115	2248
sp Q72R59 FLAB_LEPIC	Flagellar filament 35 kDa core protein (Flagellin class B)	flagellum	2038	1683	1156
ref YP_001228.1 YP_001228.1	MreC	flagellum	575	836	27
ref YP_001290.1 YP_001290.1	FlgG	flagellum	831	794	
ref YP_001334.1 YP_001334.1	flagellar motor switch protein	flagellum	493	415	234
ref YP_001491.1 YP_001491.1	flagellin protein	flagellum	289	408	591
ref YP_000608.1 YP_000608.1	flagellar protein	flagellum	458	326	89
ref YP_000607.1 YP_000607.1	flagellar motor protein	flagellum	274	276	44
ref YP_001355.1 YP_001355.1	flagellar M-ring protein	flagellum	237	226	71
ref YP_000606.1 YP_000606.1	motility protein A	flagellum	193	190	57
ref YP_003352.1 YP_003352.1	hypothetical protein LIC13449	flagellum	248	178	89
ref YP_001665.1 YP_001665.1	motility protein B	flagellum	159	124	230
ref YP_003354.1 YP_003354.1	flagellar hook-associated protein	flagellum		117	44
ref YP_001613.1 YP_001613.1	FlhS	flagellum	249		37
sp Q72SP8 FLGI_LEPIC	Flagellar P-ring protein precursor (Basal body P-ring protein)	flagellum	122		155
ref YP_001341.1 YP_001341.1	flagellar GTP-binding protein	flagellum			44
ref YP_003244.1 YP_003244.1	MotB	flagellum			
ref YP_000288.1 YP_000288.1	flagellar basal body rod protein	flagellum			
ref YP_001158.1 YP_001158.1	flagellar hook protein	flagellum			181
ref YP_000605.1 YP_000605.1	flagellar protein	flagellum			166

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ref YP_001785.1 YP_001785.1	flagellar motor switch protein	flagellum			96
ref YP_001357.1 YP_001357.1	flagellar assembly protein	flagellum			71
ref YP_001356.1 YP_001356.1	FliG	flagellum			47
ref YP_003353.1 YP_003353.1	flagellar hook-associated protein	flagellum			44
ref YP_000707.1 YP_000707.1	flagellar hook-associated protein	flagellum			30
ref YP_002968.1 YP_002968.1	flagellar motor protein	flagellum			24
ref YP_001848.1 YP_001848.1	FliG	flagellum			24
ref YP_001353.1 YP_001353.1	FliJ	flagellum			24
ref YP_001354.1 YP_001354.1	FliI	flagellum			17
ref YP_001795.1 YP_001795.1	flagellar motor switch protein	flagellum			14
ref YP_000023.1 YP_000023.1	flagellar motor protein	flagellum			11
ref YP_001352.1 YP_001352.1	flagellar protein B	flagellum			11
ref YP_001335.1 YP_001335.1	FliO	flagellum			11
ref YP_001973.1 YP_001973.1	hook protein	flagellum			5
ref YP_001292.1 YP_001292.1	flagellar L-ring protein precursor	flagellum			
ref YP_001340.1 YP_001340.1	flagellar biosynthesis transmembrane protein	flagellum			
ref YP_000289.1 YP_000289.1	flagellar basal-body rod protein	flagellum			
ref YP_001338.1 YP_001338.1	flagellar biosynthetic protein	flagellum			
ref YP_001337.1 YP_001337.1	flagellar biosynthetic protein fliQ	flagellum			
ref YP_001521.1 YP_001521.1	flagellar biosynthetic transmembrane protein	flagellum			
ref YP_001157.1 YP_001157.1	flagellar hook assembly scaffolding protein	flagellum			
sp Q72VK0 FLIE_LEPIC	Flagellar hook-basal body complex protein fliE	flagellum			
ref YP_001339.1 YP_001339.1	flagellar protein	flagellum			
ref YP_001336.1 YP_001336.1	flagellar protein export system	flagellum			
ref YP_002861.1 YP_002861.1	flagellin protein	flagellum			
ref YP_001294.1 YP_001294.1	flagellum-specific muramidase	flagellum			
ref YP_003255.1 YP_003255.1	FlgG	flagellum			
ref YP_003561.1 YP_003561.1	MotA/TolQ/ExbB proton channel family	flagellum			
sp Q72NF9 EFTU_LEPIC	Elongation factor Tu (EF-Tu)	hydrolase activity	14424	16925	7996
sp Q72SX9 ATPB_LEPIC	ATP synthase subunit beta (EC 3.6.3.14) (ATPase subunit beta) (ATP synthase F1 sector subunit beta)	hydrolase activity	5229	5434	4785
ref YP_002962.1 YP_002962.1	hypothetical protein LIC13050	hydrolase activity	5022	2720	1624
sp Q72SY1 ATPA_LEPIC	ATP synthase subunit alpha (EC 3.6.3.14) (ATPase subunit alpha) (ATP synthase F1 sector subunit alph	hydrolase activity	2852	2347	3018
sp Q72VM5 EFG_LEPIC	Elongation factor G (EF-G)	hydrolase activity	2204	2051	2752
sp Q75FU8 SAHH_LEPIC	Adenosylhomocysteinase (EC 3.3.1.1) (S-adenosyl-L-homocysteine hydrolase) (AdoHcyase)	hydrolase activity	2977	1803	1530
sp Q72NX3 IF2_LEPIC	Translation initiation factor IF-2	hydrolase activity	1386	1287	603
ref YP_001376.1 YP_001376.1	glycosyl hydrolase	hydrolase activity	879	995	452
ref YP_001153.1 YP_001153.1	hypothetical protein LIC11183	hydrolase activity	807	746	169
sp Q72SY0 ATPG_LEPIC	ATP synthase gamma chain (EC 3.6.3.14) (ATP synthase F1 sector gamma subunit)	hydrolase activity	423	570	332
ref YP_000060.1 YP_000060.1	hypothetical protein LIC10060	hydrolase activity	565	539	147
ref YP_001208.1 YP_001208.1	ATP synthase B chain	hydrolase activity	818	527	54
sp Q75FT0 CHED2_LEPIC	Probable chemoreceptor glutamine deamidase cheD 2 (EC 3.5.1.44) - Leptospira interrogans serogroup I	hydrolase activity	266	407	411
ref YP_002289.1 YP_002289.1	elongation factor EF-G	hydrolase activity	998	370	504

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ref YP_003055.1 YP_003055.1	hypothetical protein LIC13147	hydrolase activity	301	322	92
ref YP_003388.1 YP_003388.1	ParA	hydrolase activity		293	57
ref YP_000029.1 YP_000029.1	inositol monophosphatase	hydrolase activity	375	285	500
ref YP_002352.1 YP_002352.1	hypothetical protein LIC12421	hydrolase activity	314	283	162
ref YP_001209.1 YP_001209.1	ATP synthase delta chain	hydrolase activity	221	237	359
ref YP_001110.1 YP_001110.1	alpha-galactosidase	hydrolase activity	298	234	89
ref YP_000283.1 YP_000283.1	glycerophosphoryl diester phosphodiesterase	hydrolase activity	256	216	71
sp Q72QU8 LEPA_LEPIC	GTP-binding protein lepA - Leptospira interrogans serogroup Icterohaemorrhagiae serovar copenhageni	hydrolase activity	234	212	185
ref YP_002462.1 YP_002462.1	GTP cyclohydrolase 2	hydrolase activity	220	210	500
sp Q72RY7 HSLU_LEPIC	ATP-dependent hsl protease ATP-binding subunit hslU - Leptospira interrogans serogroup Icterohaemorr	hydrolase activity	217	198	64
ref YP_002213.1 YP_002213.1	haloacid dehalogenase-like hydrolase	hydrolase activity		177	30
ref YP_003275.1 YP_003275.1	sulfate adenyltransferase subunit 1	hydrolase activity	293	167	219
ref YP_001342.1 YP_001342.1	septum site-determining protein	hydrolase activity	226	159	75
ref YP_001965.1 YP_001965.1	hypothetical protein LIC12027	hydrolase activity	139	138	242
ref YP_000940.1 YP_000940.1	hypothetical protein LIC10966	hydrolase activity		133	57
ref YP_001819.1 YP_001819.1	hydrolase	hydrolase activity		129	37
ref YP_003469.1 YP_003469.1	polysaccharide deacetylase	hydrolase activity	283	118	211
sp P62347 HIS2_LEPIC	Phosphoribosyl-ATP pyrophosphatase (EC 3.6.1.31) (PRA-PH) - Leptospira interrogans serogroup Icteroh	hydrolase activity	327		100
ref YP_003429.1 YP_003429.1	methanol dehydrogenase regulator	hydrolase activity			351
sp Q72MU5 SURE_LEPIC	5'-nucleotidase surE (EC 3.1.3.5) (Nucleoside 5'-monophosphate phosphohydrolase) - Leptospira interr	hydrolase activity			269
ref YP_001659.1 YP_001659.1	fructose-1,6-bisphosphatase	hydrolase activity			265
sp Q72LY8 GCH1_LEPIC	GTP cyclohydrolase I (EC 3.5.4.16) (GTP-CH-I) - Leptospira interrogans serogroup Icterohaemorrhagiae	hydrolase activity			230
ref YP_001964.1 YP_001964.1	methylenetetrahydrofolate dehydrogenase	hydrolase activity			196
sp Q72SX8 ATPE_LEPIC	ATP synthase epsilon chain (EC 3.6.3.14) (ATP synthase F1 sector epsilon subunit) - Leptospira inter	hydrolase activity			118
ref YP_002328.1 YP_002328.1	hypothetical protein LIC12396	hydrolase activity			118
sp Q72P44 PHL1_LEPIC	Sphingomyelinase C 1 precursor (EC 3.1.4.12) (Sphingomyelin phosphodiesterase 1) (SMase 1) - Leptosp	hydrolase activity			110
ref YP_000211.1 YP_000211.1	ParA	hydrolase activity			96
ref YP_001408.1 YP_001408.1	hydrolase	hydrolase activity			75

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ref YP_002090.1 YP_002090.1	inositol monophosphatase	hydrolase activity			40
ref YP_000339.1 YP_000339.1	hypothetical protein LIC10350	hydrolase activity			34
ref YP_001672.1 YP_001672.1	hypothetical protein LIC11720	hydrolase activity			24
ref YP_002324.1 YP_002324.1	6-aminohexanoate-cyclic-dimer hydrolase	hydrolase activity			281
ref YP_000134.1 YP_000134.1	HD-GYP hydrolase domain protein	hydrolase activity			269
ref YP_001752.1 YP_001752.1	hypothetical protein LIC11800	hydrolase activity			215
ref YP_000260.1 YP_000260.1	chlorohydrolase family protein	hydrolase activity			181
ref YP_001076.1 YP_001076.1	acyltransferase	hydrolase activity			158
ref YP_000558.1 YP_000558.1	dihydroorotase	hydrolase activity			158
ref YP_003088.1 YP_003088.1	(Di)nucleoside polyphosphate hydrolase	hydrolase activity			151
ref YP_000189.1 YP_000189.1	inositol monophosphatase	hydrolase activity			147
ref YP_000123.1 YP_000123.1	hypothetical protein LIC10127	hydrolase activity			110
ref YP_001689.1 YP_001689.1	hypothetical protein LIC11737	hydrolase activity			96
ref YP_002406.1 YP_002406.1	hypothetical protein LIC12478	hydrolase activity			96
sp Q72MG4 IPYR_LEPIC	Inorganic pyrophosphatase (EC 3.6.1.1) (Pyrophosphate phospho-hydrolase) (PPase) - Leptospira interr	hydrolase activity			96
ref YP_002253.1 YP_002253.1	protein phosphatase	hydrolase activity			96
ref YP_001284.1 YP_001284.1	N-acyl-L-amino acid amidohydrolase	hydrolase activity			82
ref YP_002080.1 YP_002080.1	polysaccharide deacetylase family protein	hydrolase activity			78
ref YP_002513.1 YP_002513.1	hypothetical protein LIC12589	hydrolase activity			75
sp P61909 DUT_LEPIC	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23) (dUTPase) (dUTP pyrophosphatase) - Le	hydrolase activity			61
ref YP_003086.1 YP_003086.1	acylphosphatase	hydrolase activity			57
ref YP_001928.1 YP_001928.1	hypothetical protein LIC11989	hydrolase activity			57
ref YP_003419.1 YP_003419.1	phosphotyrosine protein phosphatase	hydrolase activity			57
ref YP_002989.1 YP_002989.1	hypothetical protein LIC13077	hydrolase activity			54
ref YP_003582.1 YP_003582.1	hypothetical protein LIC20191	hydrolase activity			54
ref YP_001680.1 YP_001680.1	N-acetylmuramoyl-L-alanine amidase	hydrolase activity			54
ref YP_002842.1 YP_002842.1	beta-lactamase related protein	hydrolase activity			47
ref YP_000117.1 YP_000117.1	hypothetical protein LIC10121	hydrolase activity			47
ref YP_003412.1 YP_003412.1	ParA	hydrolase activity			47
ref YP_000651.1 YP_000651.1	thioesterase	hydrolase activity			47
ref YP_002126.1 YP_002126.1	mutator protein	hydrolase activity			44

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ref YP_003471.1 YP_003471.1	haloacid dehalogenase-like protein	hydrolase activity			40
ref YP_002247.1 YP_002247.1	HIT family hydrolase	hydrolase activity			40
sp Q72MK0 ENG_CLEPIC	Probable GTPase engC (EC 3.6.1.-) - Leptospira interrogans serogroup Icterohaemorrhagiae serovar cop	hydrolase activity			40
ref YP_002800.1 YP_002800.1	arylsulfatase	hydrolase activity			34
ref YP_000184.1 YP_000184.1	hypothetical protein LIC10193	hydrolase activity			34
ref YP_001937.1 YP_001937.1	hydrolase	hydrolase activity			30
ref YP_002936.1 YP_002936.1	hypothetical protein LIC13023	hydrolase activity			30
sp P62392 HIS3_LEPIC	Phosphoribosyl-AMP cyclohydrolase (EC 3.5.4.19) (PRA-CH) - Leptospira interrogans serogroup Icteroha	hydrolase activity			30
ref YP_001727.1 YP_001727.1	phosphoserine phosphatase	hydrolase activity			30
ref YP_001435.1 YP_001435.1	hypothetical protein LIC11474	hydrolase activity			21
ref YP_002096.1 YP_002096.1	6-phosphogluconolactonase/glucosamine-6-phosphate isomerase/deaminase	hydrolase activity			17
ref YP_001740.1 YP_001740.1	alpha/beta hydrolase	hydrolase activity			17
ref YP_000753.1 YP_000753.1	hypothetical protein LIC10773	hydrolase activity			17
ref YP_000900.1 YP_000900.1	metallo-beta-lactamase	hydrolase activity			17
sp Q72M35 COBT_LEPIC	Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase (EC 2.4.2.21) (NN:DBI PRT) (N	hydrolase activity			17
ref YP_001120.1 YP_001120.1	nonspecific acid phosphatase precursor	hydrolase activity			17
sp Q72VK9 QUE_CLEPIC	Queuosine biosynthesis protein queC (EC 3.5.-.-) - Leptospira interrogans serogroup Icterohaemorrhag	hydrolase activity			17
ref YP_001426.1 YP_001426.1	hypothetical protein LIC11465	hydrolase activity			14
ref YP_002818.1 YP_002818.1	hypothetical protein LIC12902	hydrolase activity			14
sp Q72PP0 LOLD_LEPIC	Lipoprotein-releasing system ATP-binding protein lolD - Leptospira interrogans serogroup Icterohaemo	hydrolase activity			14
ref YP_003026.1 YP_003026.1	metallo-beta-lactamase superfamily hydrolase	hydrolase activity			14
ref YP_003022.1 YP_003022.1	acyltransferase	hydrolase activity			11
ref YP_001997.1 YP_001997.1	acyltransferase	hydrolase activity			11
sp Q75FQ8 COBB_LEPIC	Cobyrinic acid A,C-diamide synthase - Leptospira interrogans serogroup Icterohaemorrhagiae serovar c	hydrolase activity			11
sp Q72UV8 HAM1_LEPIC	HAM1 protein homolog - Leptospira interrogans serogroup Icterohaemorrhagiae serovar copenhageni	hydrolase activity			11
ref YP_002364.1 YP_002364.1	phosphoglycerol transferase	hydrolase activity			11
ref YP_001957.1 YP_001957.1	ATP-dependent helicase	hydrolase activity			8
ref YP_002077.1 YP_002077.1	integral membrane protein	hydrolase			8

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		activity			
ref YP_000721.1 YP_000721.1	N-acetylmuramoyl-L-alanine amidase	hydrolase activity			8
ref YP_000337.1 YP_000337.1	paraoxonase	hydrolase activity			8
ref YP_000587.1 YP_000587.1	sulfatase family protein	hydrolase activity			8
ref YP_001151.1 YP_001151.1	hypothetical protein LIC11181	hydrolase activity			8
ref YP_003459.1 YP_003459.1	MutT-like protein	hydrolase activity			8
ref YP_000072.1 YP_000072.1	hypothetical protein LIC10072	hydrolase activity			5
ref YP_001564.1 YP_001564.1	hypothetical protein LIC11606	hydrolase activity			5
ref YP_002416.1 YP_002416.1	hypothetical protein LIC12488	hydrolase activity			5
ref YP_003090.1 YP_003090.1	glycerophosphoryl phosphodiesterase	hydrolase activity			
ref YP_001474.1 YP_001474.1	hypothetical protein LIC11515	hydrolase activity			
ref YP_003171.1 YP_003171.1	MutT nudix family protein	hydrolase activity			
ref YP_001856.1 YP_001856.1	polysaccharide deacetylase	hydrolase activity			
ref YP_000713.1 YP_000713.1	putative lipoprotein	hydrolase activity			
ref YP_001303.1 YP_001303.1	deoxyribodipyrimidine photolyase	hydrolase activity			
ref YP_003398.1 YP_003398.1	haloacid dehalogenase-like protein	hydrolase activity			
ref YP_001584.1 YP_001584.1	inositol monophosphatase family	hydrolase activity			
ref YP_000489.1 YP_000489.1	nuclease-like protein	hydrolase activity			
ref YP_003058.1 YP_003058.1	ATP-dependent DNA helicase protein	hydrolase activity			
ref YP_002449.1 YP_002449.1	serine/threonine kinase	hydrolase activity			
ref YP_001113.1 YP_001113.1	metal dependent phosphohydrolase	hydrolase activity			
ref YP_003512.1 YP_003512.1	histidinol-phosphate aminotransferase and cobyrinic acid synthase	hydrolase activity			
ref YP_002522.1 YP_002522.1	alpha/beta hydrolase superfamily	hydrolase activity			
ref YP_001392.1 YP_001392.1	alpha/beta hydrolase superfamily	hydrolase activity			
ref YP_001073.1 YP_001073.1	alpha/beta hydrolase superfamily	hydrolase activity			
ref YP_001207.1 YP_001207.1	ATP synthase C chain	hydrolase activity			
ref YP_002155.1 YP_002155.1	beta-lactamase regulatory protein 1	hydrolase activity			
sp Q72RS7 DGT11_LEPIC	Deoxyguanosinetriphosphate triphosphohydrolase-like protein - Leptospira interrogans serogroup Icter	hydrolase activity			
ref YP_000377.1 YP_000377.1	hypothetical protein LIC10391	hydrolase activity			
ref YP_000577.1 YP_000577.1	hypothetical protein LIC10593	hydrolase activity			
ref YP_000582.1 YP_000582.1	hypothetical protein LIC10598	hydrolase activity			
ref YP_001283.1 YP_001283.1	hypothetical protein LIC11317	hydrolase activity			

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ref YP_002414.1 YP_002414.1	integral membrane protein	hydrolase activity			
ref YP_002078.1 YP_002078.1	integral membrane protein	hydrolase activity			
ref YP_000089.1 YP_000089.1	metallo-beta-lactamase	hydrolase activity			
sp Q72S65 CHED1_LEPIC	Probable chemoreceptor glutamine deamidase cheD 1 (EC 3.5.1.44) - Leptospira interrogans serogroup I	hydrolase activity			
ref YP_000963.1 YP_000963.1	serine/threonine kinase with GAF domain	hydrolase activity			
ref YP_001649.1 YP_001649.1	xylanase/chitin deacetylase family protein	hydrolase activity			
ref YP_003074.1 YP_003074.1	hypothetical protein LIC13166	hypothetical protein	8021	7203	2478
ref YP_002544.1 YP_002544.1	hypothetical protein LIC12621	hypothetical protein	3115	3033	1486
ref YP_001797.1 YP_001797.1	hypothetical protein LIC11848	hypothetical protein	4271	2740	2368
ref YP_001908.1 YP_001908.1	hypothetical protein LIC11966	hypothetical protein	4330	2380	136
ref YP_003427.1 YP_003427.1	hypothetical protein LIC20035	hypothetical protein	2008	1828	423
ref YP_002123.1 YP_002123.1	hypothetical protein LIC12188	hypothetical protein	1864	1777	649
ref YP_000982.1 YP_000982.1	hypothetical protein LIC11009	hypothetical protein	2566	1777	732
ref YP_003219.1 YP_003219.1	hypothetical protein LIC13314	hypothetical protein	1382	1743	320
ref YP_000535.1 YP_000535.1	hypothetical protein LIC10551	hypothetical protein	1629	1723	196
ref YP_000206.1 YP_000206.1	hypothetical protein LIC10215	hypothetical protein	1209	1715	147
ref YP_002737.1 YP_002737.1	hypothetical protein LIC12821	hypothetical protein	1474	1595	1287
ref YP_002009.1 YP_002009.1	hypothetical protein LIC12075	hypothetical protein	1354	1576	1086
ref YP_002388.1 YP_002388.1	hypothetical protein LIC12460	hypothetical protein	1558	1573	541
ref YP_001242.1 YP_001242.1	hypothetical protein LIC11274	hypothetical protein	1693	1526	611
ref YP_003470.1 YP_003470.1	hypothetical protein LIC20078	hypothetical protein	4127	1471	257
ref YP_000304.1 YP_000304.1	hypothetical protein LIC10314	hypothetical protein	1292	1464	423
ref YP_000178.1 YP_000178.1	hypothetical protein LIC10187	hypothetical protein	178	1363	17
ref YP_000656.1 YP_000656.1	hypothetical protein LIC10672	hypothetical protein	1870	1271	699
ref YP_003576.1 YP_003576.1	hypothetical protein LIC20185	hypothetical protein	2178	1252	632
ref YP_000064.1 YP_000064.1	hypothetical protein LIC10064	hypothetical protein	1088	1223	335
ref YP_001178.1 YP_001178.1	hypothetical protein LIC11209	hypothetical protein	1165	1213	249
ref YP_003585.1 YP_003585.1	hypothetical protein LIC20196	hypothetical protein	756	1166	488
ref YP_001044.1 YP_001044.1	hypothetical protein LIC11074	hypothetical protein	907	1140	89
ref YP_001193.1 YP_001193.1	hypothetical protein LIC11224	hypothetical protein	748	1136	82
ref YP_001459.1 YP_001459.1	hypothetical protein LIC11498	hypothetical protein	1023	1125	162
ref YP_001450.1 YP_001450.1	hypothetical protein LIC11489	hypothetical	1065	1104	324

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		protein			
ref YP_001794.1 YP_001794.1	hypothetical protein LIC11845	hypothetical protein	778	1073	169
ref YP_000853.1 YP_000853.1	hypothetical protein LIC10876	hypothetical protein	813	1031	75
ref YP_002612.1 YP_002612.1	hypothetical protein LIC12691	hypothetical protein	708	1025	44
ref YP_000180.1 YP_000180.1	hypothetical protein LIC10189	hypothetical protein		1001	
ref YP_000155.1 YP_000155.1	hypothetical protein LIC10163	hypothetical protein		991	47
ref YP_003544.1 YP_003544.1	hypothetical protein LIC20153	hypothetical protein	1462	979	200
ref YP_003256.1 YP_003256.1	hypothetical protein LIC13351	hypothetical protein	945	937	177
ref YP_001059.1 YP_001059.1	hypothetical protein LIC11089	hypothetical protein	1344	934	107
ref YP_000646.1 YP_000646.1	hypothetical protein LIC10662	hypothetical protein	828	927	114
ref YP_001166.1 YP_001166.1	hypothetical protein LIC11196	hypothetical protein	954	864	504
ref YP_003488.1 YP_003488.1	hypothetical protein LIC20096	hypothetical protein	815	863	288
ref YP_001368.1 YP_001368.1	hypothetical protein LIC11405	hypothetical protein	977	831	281
ref YP_002166.1 YP_002166.1	hypothetical protein LIC12231	hypothetical protein	801	815	47
ref YP_000113.1 YP_000113.1	hypothetical protein LIC10117	hypothetical protein	618	796	82
ref YP_002198.1 YP_002198.1	hypothetical protein LIC12263	hypothetical protein	924	791	889
ref YP_003625.1 YP_003625.1	hypothetical protein LIC20240	hypothetical protein	893	765	328
ref YP_002329.1 YP_002329.1	hypothetical protein LIC12397	hypothetical protein	745	740	147
ref YP_000467.1 YP_000467.1	hypothetical protein LIC10483	hypothetical protein	717	736	665
ref YP_001793.1 YP_001793.1	hypothetical protein LIC11844	hypothetical protein	333	735	82
ref YP_003337.1 YP_003337.1	hypothetical protein LIC13434	hypothetical protein	621	698	162
ref YP_002871.1 YP_002871.1	hypothetical protein LIC12958	hypothetical protein	1098	683	192
ref YP_000202.1 YP_000202.1	hypothetical protein LIC10211	hypothetical protein		681	30
ref YP_000674.1 YP_000674.1	hypothetical protein LIC10690	hypothetical protein	650	678	96
ref YP_000585.1 YP_000585.1	hypothetical protein LIC10601	hypothetical protein	815	658	699
ref YP_000366.1 YP_000366.1	hypothetical protein LIC10380	hypothetical protein	406	637	107
ref YP_001645.1 YP_001645.1	hypothetical protein LIC11693	hypothetical protein	486	627	54
ref YP_002532.1 YP_002532.1	hypothetical protein LIC12609	hypothetical protein		621	
ref YP_000470.1 YP_000470.1	hypothetical protein LIC10486	hypothetical protein	565	621	125
ref YP_002530.1 YP_002530.1	hypothetical protein LIC12607	hypothetical protein		610	11
ref YP_002531.1 YP_002531.1	hypothetical protein LIC12608	hypothetical protein		605	
ref YP_000740.1 YP_000740.1	hypothetical protein LIC10760	hypothetical protein	652	603	419
ref YP_000175.1 YP_000175.1	hypothetical protein LIC10184	hypothetical		596	

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		protein			
ref YP_000158.1 YP_000158.1	hypothetical protein LIC10166	hypothetical protein		583	27
ref YP_002211.1 YP_002211.1	hypothetical protein LIC12277	hypothetical protein	611	580	14
ref YP_002142.1 YP_002142.1	hypothetical protein LIC12207	hypothetical protein	740	577	118
ref YP_000223.1 YP_000223.1	lipoprotein releasing system transmembrane protein	hypothetical protein	286	558	37
ref YP_002376.1 YP_002376.1	hypothetical protein LIC12446	hypothetical protein	597	527	50
ref YP_000893.1 YP_000893.1	hypothetical protein LIC10918	hypothetical protein	462	525	351
ref YP_000226.1 YP_000226.1	hypothetical protein LIC10235	hypothetical protein	737	516	129
ref YP_001241.1 YP_001241.1	hypothetical protein LIC11273	hypothetical protein	479	512	61
ref YP_003218.1 YP_003218.1	hypothetical protein LIC13313	hypothetical protein	438	490	89
ref YP_002331.1 YP_002331.1	hypothetical protein LIC12399	hypothetical protein	404	484	40
ref YP_001655.1 YP_001655.1	hypothetical protein LIC11703	hypothetical protein	743	479	136
ref YP_000648.1 YP_000648.1	hypothetical protein LIC10664	hypothetical protein	726	476	226
ref YP_000120.1 YP_000120.1	hypothetical protein LIC10124	hypothetical protein	246	474	399
ref YP_002259.1 YP_002259.1	hypothetical protein LIC12325	hypothetical protein	441	473	312
ref YP_002124.1 YP_002124.1	hypothetical protein LIC12189	hypothetical protein	535	452	96
ref YP_000172.1 YP_000172.1	hypothetical protein LIC10181	hypothetical protein		450	
ref YP_000825.1 YP_000825.1	hypothetical protein LIC10848	hypothetical protein	345	450	211
ref YP_001595.1 YP_001595.1	hypothetical protein LIC11637	hypothetical protein	657	448	443
ref YP_001583.1 YP_001583.1	hypothetical protein LIC11625	hypothetical protein	1221	435	188
ref YP_001429.1 YP_001429.1	hypothetical protein LIC11468	hypothetical protein	312	395	40
ref YP_003422.1 YP_003422.1	hypothetical protein LIC20030	hypothetical protein	258	392	8
ref YP_001609.1 YP_001609.1	hypothetical protein LIC11653	hypothetical protein		381	103
ref YP_001702.1 YP_001702.1	hypothetical protein LIC11750	hypothetical protein	433	371	395
ref YP_000210.1 YP_000210.1	hypothetical protein LIC10219	hypothetical protein	224	363	
ref YP_002128.1 YP_002128.1	hypothetical protein LIC12193	hypothetical protein	323	362	403
ref YP_000769.1 YP_000769.1	hypothetical protein LIC10790	hypothetical protein		359	44
ref YP_003428.1 YP_003428.1	hypothetical protein LIC20036	hypothetical protein	384	355	17
ref YP_002533.1 YP_002533.1	hypothetical protein LIC12610	hypothetical protein	91	350	37
ref YP_000855.1 YP_000855.1	hypothetical protein LIC10878	hypothetical protein	337	347	30
ref YP_003313.1 YP_003313.1	hypothetical protein LIC13410	hypothetical protein	465	341	8
ref YP_000542.1 YP_000542.1	hypothetical protein LIC10558	hypothetical protein	341	325	75
ref YP_000401.1 YP_000401.1	hypothetical protein LIC10415	hypothetical	516	325	196

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		protein			
ref YP_002113.1 YP_002113.1	hypothetical protein LIC12178	hypothetical protein		317	34
ref YP_000217.1 YP_000217.1	hypothetical protein LIC10226	hypothetical protein	462	316	541
ref YP_002983.1 YP_002983.1	hypothetical protein LIC13071	hypothetical protein	1602	302	1283
ref YP_002345.1 YP_002345.1	hypothetical protein LIC12414	hypothetical protein	1144	299	246
ref YP_000959.1 YP_000959.1	hypothetical protein LIC10985	hypothetical protein	518	298	103
ref YP_003001.1 YP_003001.1	hypothetical protein LIC13089	hypothetical protein	287	298	68
ref YP_002300.1 YP_002300.1	hypothetical protein LIC12368	hypothetical protein	191	294	17
ref YP_001577.1 YP_001577.1	hypothetical protein LIC11619	hypothetical protein		291	166
ref YP_002718.1 YP_002718.1	hypothetical protein LIC12801	hypothetical protein	216	290	21
ref YP_000538.1 YP_000538.1	hypothetical protein LIC10554	hypothetical protein	309	288	85
ref YP_001029.1 YP_001029.1	hypothetical protein LIC11059	hypothetical protein	78	283	21
ref YP_002850.1 YP_002850.1	hypothetical protein LIC12936	hypothetical protein	319	281	447
ref YP_002493.1 YP_002493.1	hypothetical protein LIC12568	hypothetical protein	320	279	246
ref YP_001132.1 YP_001132.1	hypothetical protein LIC11162	hypothetical protein	314	278	265
ref YP_000689.1 YP_000689.1	hypothetical protein LIC10705	hypothetical protein	394	275	24
ref YP_000165.1 YP_000165.1	hypothetical protein LIC10173	hypothetical protein		272	11
ref YP_000424.1 YP_000424.1	hypothetical protein LIC10439	hypothetical protein	187	256	11
ref YP_001921.1 YP_001921.1	hypothetical protein LIC11982	hypothetical protein	189	251	30
ref YP_001960.1 YP_001960.1	hypothetical protein LIC12022	hypothetical protein	275	247	
ref YP_001298.1 YP_001298.1	hypothetical protein LIC11334	hypothetical protein	264	237	110
ref YP_000338.1 YP_000338.1	hypothetical protein LIC10348	hypothetical protein	608	236	347
ref YP_002281.1 YP_002281.1	hypothetical protein LIC12349	hypothetical protein	246	231	11
ref YP_000752.1 YP_000752.1	hypothetical protein LIC10772	hypothetical protein	714	223	492
ref YP_003120.1 YP_003120.1	hypothetical protein LIC13212	hypothetical protein		221	300
ref YP_001066.1 YP_001066.1	hypothetical protein LIC11096	hypothetical protein	167	214	82
ref YP_001900.1 YP_001900.1	hypothetical protein LIC11955	hypothetical protein	793	212	200
ref YP_002660.1 YP_002660.1	hypothetical protein LIC12740	hypothetical protein	237	202	24
ref YP_002417.1 YP_002417.1	hypothetical protein LIC12489	hypothetical protein	477	200	40
ref YP_002722.1 YP_002722.1	hypothetical protein LIC12805	hypothetical protein	175	198	54
ref YP_000496.1 YP_000496.1	hypothetical protein LIC10512	hypothetical protein	331	196	177
ref YP_001594.1 YP_001594.1	hypothetical protein LIC11636	hypothetical protein	165	194	125
ref YP_002005.1 YP_002005.1	hypothetical protein LIC12071	hypothetical	171	189	14

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		protein			
ref YP_002273.1 YP_002273.1	hypothetical protein LIC12341	hypothetical protein	318	185	82
ref YP_001927.1 YP_001927.1	hypothetical protein LIC11988	hypothetical protein		178	11
ref YP_001622.1 YP_001622.1	hypothetical protein LIC11668	hypothetical protein	162	176	21
ref YP_000173.1 YP_000173.1	hypothetical protein LIC10182	hypothetical protein		174	11
ref YP_003424.1 YP_003424.1	hypothetical protein LIC20032	hypothetical protein	255	170	219
ref YP_000466.1 YP_000466.1	hypothetical protein LIC10482	hypothetical protein	246	169	68
ref YP_002500.1 YP_002500.1	hypothetical protein LIC12576	hypothetical protein	186	155	78
ref YP_002004.1 YP_002004.1	hypothetical protein LIC12070	hypothetical protein	249	150	273
ref YP_001495.1 YP_001495.1	hypothetical protein LIC11536	hypothetical protein		147	151
ref YP_000222.1 YP_000222.1	hypothetical protein LIC10231	hypothetical protein	129	146	17
ref YP_003547.1 YP_003547.1	hypothetical protein LIC20156	hypothetical protein	368	142	40
ref YP_001460.1 YP_001460.1	hypothetical protein LIC11499	hypothetical protein	1069	141	439
ref YP_003537.1 YP_003537.1	hypothetical protein LIC20146	hypothetical protein		132	21
ref YP_003527.1 YP_003527.1	hypothetical protein LIC20136	hypothetical protein	105	132	11
ref YP_000373.1 YP_000373.1	hypothetical protein LIC10387	hypothetical protein		129	96
ref YP_002252.1 YP_002252.1	hypothetical protein LIC12318	hypothetical protein		126	92
ref YP_002179.1 YP_002179.1	hypothetical protein LIC12244	hypothetical protein		120	34
ref YP_000694.1 YP_000694.1	hypothetical protein LIC10710	hypothetical protein		111	34
ref YP_001398.1 YP_001398.1	hypothetical protein LIC11436	hypothetical protein	166	101	30
ref YP_000411.1 YP_000411.1	hypothetical protein LIC10425	hypothetical protein	157	101	54
ref YP_000448.1 YP_000448.1	Ig-like repeat domain protein 3	hypothetical protein		91	914
ref YP_000017.1 YP_000017.1	hypothetical protein LIC10017	hypothetical protein	177	88	92
ref YP_000583.1 YP_000583.1	hypothetical protein LIC10599	hypothetical protein		77	44
ref YP_000639.1 YP_000639.1	hypothetical protein LIC10655	hypothetical protein	168	32	34
ref YP_001326.1 YP_001326.1	hypothetical protein LIC11362	hypothetical protein	445		92
ref YP_002182.1 YP_002182.1	hypothetical protein LIC12247	hypothetical protein	421		
ref YP_003204.1 YP_003204.1	hypothetical protein LIC13297	hypothetical protein	382		21
ref YP_000068.1 YP_000068.1	hypothetical protein LIC10068	hypothetical protein	364		75
ref YP_000745.1 YP_000745.1	hypothetical protein LIC10765	hypothetical protein	294		118
ref YP_001006.1 YP_001006.1	hypothetical protein LIC11036	hypothetical protein	267		40
ref YP_003346.1 YP_003346.1	hypothetical protein LIC13443	hypothetical protein	234		92
ref YP_001005.1 YP_001005.1	hypothetical protein LIC11035	hypothetical	215		8

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		protein			
ref YP_001286.1 YP_001286.1	hypothetical protein LIC11320	hypothetical protein	186		5
ref YP_000235.1 YP_000235.1	hypothetical protein LIC10244	hypothetical protein	75		147
ref YP_000449.1 YP_000449.1	Ig-like repeat domain protein 1	hypothetical protein			553
ref YP_001975.1 YP_001975.1	hypothetical protein LIC12040	hypothetical protein			443
ref YP_001016.1 YP_001016.1	hypothetical protein LIC11046	hypothetical protein			277
ref YP_002260.1 YP_002260.1	hypothetical protein LIC12326	hypothetical protein			261
ref YP_000647.1 YP_000647.1	hypothetical protein LIC10663	hypothetical protein			226
ref YP_000308.1 YP_000308.1	hypothetical protein LIC10318	hypothetical protein			211
ref YP_003036.1 YP_003036.1	hypothetical protein LIC13128	hypothetical protein			203
ref YP_001037.1 YP_001037.1	hypothetical protein LIC11067	hypothetical protein			177
ref YP_000624.1 YP_000624.1	hypothetical protein LIC10640	hypothetical protein			132
ref YP_002018.1 YP_002018.1	hypothetical protein LIC12084	hypothetical protein			132
ref YP_000505.1 YP_000505.1	hypothetical protein LIC10521	hypothetical protein			129
ref YP_000921.1 YP_000921.1	hypothetical protein LIC10947	hypothetical protein			121
ref YP_000961.1 YP_000961.1	hypothetical protein LIC10987	hypothetical protein			121
ref YP_002934.1 YP_002934.1	hypothetical protein LIC13021	hypothetical protein			118
ref YP_001369.1 YP_001369.1	hypothetical protein LIC11406	hypothetical protein			110
ref YP_002368.1 YP_002368.1	hypothetical protein LIC12437	hypothetical protein			107
ref YP_000718.1 YP_000718.1	hypothetical protein LIC10736	hypothetical protein			103
ref YP_002269.1 YP_002269.1	hypothetical protein LIC12337	hypothetical protein			103
ref YP_002171.1 YP_002171.1	hypothetical protein LIC12236	hypothetical protein			100
ref YP_000130.1 YP_000130.1	hypothetical protein LIC10134	hypothetical protein			92
ref YP_001593.1 YP_001593.1	hypothetical protein LIC11635	hypothetical protein			92
ref YP_003391.1 YP_003391.1	hypothetical protein LIC13494	hypothetical protein			89
ref YP_002303.1 YP_002303.1	hypothetical protein LIC12371	hypothetical protein			85
ref YP_003265.1 YP_003265.1	hypothetical protein LIC13360	hypothetical protein			82
ref YP_000012.1 YP_000012.1	hypothetical protein LIC10012	hypothetical protein			75
ref YP_000958.1 YP_000958.1	hypothetical protein LIC10984	hypothetical protein			75
ref YP_001553.1 YP_001553.1	hypothetical protein LIC11595	hypothetical protein			71
ref YP_002459.1 YP_002459.1	hypothetical protein LIC12531	hypothetical protein			71
ref YP_000092.1 YP_000092.1	hypothetical protein LIC10095	hypothetical protein			68
ref YP_000101.1 YP_000101.1	hypothetical protein LIC10104	hypothetical			68

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		protein			
ref YP_000645.1 YP_000645.1	hypothetical protein LIC10661	hypothetical protein			68
ref YP_001333.1 YP_001333.1	hypothetical protein LIC11369	hypothetical protein			68
ref YP_001573.1 YP_001573.1	hypothetical protein LIC11615	hypothetical protein			68
ref YP_003442.1 YP_003442.1	hypothetical protein LIC20050	hypothetical protein			68
ref YP_001147.1 YP_001147.1	hypothetical protein LIC11177	hypothetical protein			61
ref YP_000145.1 YP_000145.1	hypothetical protein LIC10151	hypothetical protein			57
ref YP_000347.1 YP_000347.1	hypothetical protein LIC10358	hypothetical protein			54
ref YP_000722.1 YP_000722.1	hypothetical protein LIC10740	hypothetical protein			54
ref YP_002116.1 YP_002116.1	hypothetical protein LIC12181	hypothetical protein			54
ref YP_002887.1 YP_002887.1	hypothetical protein LIC12974	hypothetical protein			47
ref YP_003310.1 YP_003310.1	hypothetical protein LIC13407	hypothetical protein			44
ref YP_001239.1 YP_001239.1	hypothetical protein LIC11270	hypothetical protein			40
ref YP_001397.1 YP_001397.1	hypothetical protein LIC11435	hypothetical protein			40
ref YP_002996.1 YP_002996.1	hypothetical protein LIC13084	hypothetical protein			40
ref YP_003556.1 YP_003556.1	hypothetical protein LIC20165	hypothetical protein			40
ref YP_001823.1 YP_001823.1	hypothetical protein LIC11874	hypothetical protein			37
ref YP_002314.1 YP_002314.1	hypothetical protein LIC12382	hypothetical protein			37
ref YP_002928.1 YP_002928.1	hypothetical protein LIC13015	hypothetical protein			37
ref YP_003643.1 YP_003643.1	hypothetical protein LIC20259	hypothetical protein			37
ref YP_000503.1 YP_000503.1	hypothetical protein LIC10519	hypothetical protein			37
ref YP_002395.1 YP_002395.1	hypothetical protein LIC12467	hypothetical protein			37
ref YP_001539.1 YP_001539.1	hypothetical protein LIC11580	hypothetical protein			34
ref YP_002733.1 YP_002733.1	hypothetical protein LIC12816	hypothetical protein			34
ref YP_003654.1 YP_003654.1	hypothetical protein LIC20270	hypothetical protein			34
ref YP_002255.1 YP_002255.1	hypothetical protein LIC12321	hypothetical protein			30
ref YP_000822.1 YP_000822.1	hypothetical protein LIC10845	hypothetical protein			27
ref YP_002467.1 YP_002467.1	hypothetical protein LIC12539	hypothetical protein			27
ref YP_002935.1 YP_002935.1	hypothetical protein LIC13022	hypothetical protein			27
ref YP_003362.1 YP_003362.1	hypothetical protein LIC13459	hypothetical protein			27
ref YP_000311.1 YP_000311.1	hypothetical protein LIC10321	hypothetical protein			24
ref YP_001361.1 YP_001361.1	hypothetical protein LIC11398	hypothetical protein			24
ref YP_001922.1 YP_001922.1	hypothetical protein LIC11983	hypothetical protein			24

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		protein			
ref YP_002476.1 YP_002476.1	hypothetical protein LIC12548	hypothetical protein			24
ref YP_003484.1 YP_003484.1	hypothetical protein LIC20092	hypothetical protein			24
ref YP_000388.1 YP_000388.1	hypothetical protein LIC10402	hypothetical protein			21
ref YP_002105.1 YP_002105.1	hypothetical protein LIC12170	hypothetical protein			21
ref YP_001880.1 YP_001880.1	hypothetical protein LIC11935	hypothetical protein			17
ref YP_002953.1 YP_002953.1	hypothetical protein LIC13041	hypothetical protein			17
ref YP_003558.1 YP_003558.1	hypothetical protein LIC20167	hypothetical protein			17
ref YP_000649.1 YP_000649.1	hypothetical protein LIC10665	hypothetical protein			17
ref YP_002793.1 YP_002793.1	hypothetical protein LIC12877	hypothetical protein			14
ref YP_003175.1 YP_003175.1	hypothetical protein LIC13268	hypothetical protein			14
ref YP_000153.1 YP_000153.1	hypothetical protein LIC10161	hypothetical protein			11
ref YP_002629.1 YP_002629.1	hypothetical protein LIC12708	hypothetical protein			8
ref YP_002750.1 YP_002750.1	hypothetical protein LIC12834	hypothetical protein			8
ref YP_000545.1 YP_000545.1	hypothetical protein LIC10561	hypothetical protein			5
ref YP_001030.1 YP_001030.1	hypothetical protein LIC11060	hypothetical protein			5
ref YP_001126.1 YP_001126.1	hypothetical protein LIC11156	hypothetical protein			
ref YP_002034.1 YP_002034.1	hypothetical protein LIC12100	hypothetical protein			
ref YP_000225.1 YP_000225.1	hypothetical protein LIC10234	hypothetical protein			
ref YP_001631.1 YP_001631.1	hypothetical protein LIC11677	hypothetical protein			
ref YP_000821.1 YP_000821.1	hypothetical protein LIC10844	hypothetical protein			
ref YP_001522.1 YP_001522.1	hypothetical protein LIC11563	hypothetical protein			383
ref YP_003656.1 YP_003656.1	hypothetical protein LIC20272	hypothetical protein			343
ref YP_002893.1 YP_002893.1	hypothetical protein LIC12980	hypothetical protein			324
ref YP_001403.1 YP_001403.1	hypothetical protein LIC11441	hypothetical protein			316
ref YP_003331.1 YP_003331.1	hypothetical protein LIC13428	hypothetical protein			300
ref YP_000316.1 YP_000316.1	hypothetical protein LIC10326	hypothetical protein			269
ref YP_002907.1 YP_002907.1	hypothetical protein LIC12994	hypothetical protein			249
ref YP_001833.1 YP_001833.1	hypothetical protein LIC11884	hypothetical protein			185
ref YP_002616.1 YP_002616.1	hypothetical protein LIC12695	hypothetical protein			147
ref YP_003144.1 YP_003144.1	hypothetical protein LIC13237	hypothetical protein			140
ref YP_001599.1 YP_001599.1	hypothetical protein LIC11641	hypothetical protein			136
ref YP_002675.1 YP_002675.1	hypothetical protein LIC12755	hypothetical			136

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001866.1 YP_001866.1	hypothetical protein LIC11920	hypothetical protein			132
ref YP_002713.1 YP_002713.1	hypothetical protein LIC12796	hypothetical protein			129
ref YP_003382.1 YP_003382.1	hypothetical protein LIC13481	hypothetical protein			129
ref YP_000627.1 YP_000627.1	hypothetical protein LIC10643	hypothetical protein			118
ref YP_000683.1 YP_000683.1	hypothetical protein LIC10699	hypothetical protein			107
ref YP_001831.1 YP_001831.1	hypothetical protein LIC11882	hypothetical protein			107
ref YP_000118.1 YP_000118.1	hypothetical protein LIC10122	hypothetical protein			103
ref YP_000405.1 YP_000405.1	hypothetical protein LIC10419	hypothetical protein			103
ref YP_001061.1 YP_001061.1	hypothetical protein LIC11091	hypothetical protein			103
ref YP_003183.1 YP_003183.1	hypothetical protein LIC13276	hypothetical protein			103
ref YP_001918.1 YP_001918.1	hypothetical protein LIC11979	hypothetical protein			92
ref YP_002451.1 YP_002451.1	hypothetical protein LIC12523	hypothetical protein			92
ref YP_001345.1 YP_001345.1	hypothetical protein LIC11381	hypothetical protein			89
ref YP_003339.1 YP_003339.1	hypothetical protein LIC13436	hypothetical protein			89
ref YP_000141.1 YP_000141.1	hypothetical protein LIC10145	hypothetical protein			85
ref YP_001786.1 YP_001786.1	hypothetical protein LIC11837	hypothetical protein			85
ref YP_003114.1 YP_003114.1	hypothetical protein LIC13206	hypothetical protein			82
ref YP_001932.1 YP_001932.1	hypothetical protein LIC11993	hypothetical protein			78
ref YP_002210.1 YP_002210.1	hypothetical protein LIC12276	hypothetical protein			78
ref YP_002340.1 YP_002340.1	hypothetical protein LIC12408	hypothetical protein			78
ref YP_002837.1 YP_002837.1	hypothetical protein LIC12922	hypothetical protein			78
ref YP_002933.1 YP_002933.1	hypothetical protein LIC13020	hypothetical protein			75
ref YP_000077.1 YP_000077.1	hypothetical protein LIC10077	hypothetical protein			68
ref YP_001143.1 YP_001143.1	hypothetical protein LIC11173	hypothetical protein			68
ref YP_003063.1 YP_003063.1	hypothetical protein LIC13155	hypothetical protein			68
ref YP_000989.1 YP_000989.1	hypothetical protein LIC11017	hypothetical protein			64
ref YP_001444.1 YP_001444.1	hypothetical protein LIC11483	hypothetical protein			64
ref YP_001570.1 YP_001570.1	hypothetical protein LIC11612	hypothetical protein			64
ref YP_001787.1 YP_001787.1	hypothetical protein LIC11838	hypothetical protein			64
ref YP_001855.1 YP_001855.1	hypothetical protein LIC11909	hypothetical protein			61
ref YP_002504.1 YP_002504.1	hypothetical protein LIC12580	hypothetical protein			61
ref YP_002856.1 YP_002856.1	hypothetical protein LIC12942	hypothetical			61

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		protein			
ref YP_000384.1 YP_000384.1	hypothetical protein LIC10398	hypothetical protein			57
ref YP_000779.1 YP_000779.1	hypothetical protein LIC10802	hypothetical protein			57
ref YP_001502.1 YP_001502.1	hypothetical protein LIC11543	hypothetical protein			57
ref YP_002065.1 YP_002065.1	hypothetical protein LIC12131	hypothetical protein			57
ref YP_002097.1 YP_002097.1	hypothetical protein LIC12162	hypothetical protein			57
ref YP_002285.1 YP_002285.1	hypothetical protein LIC12353	hypothetical protein			57
ref YP_002995.1 YP_002995.1	hypothetical protein LIC13083	hypothetical protein			57
ref YP_003397.1 YP_003397.1	hypothetical protein LIC20005	hypothetical protein			57
ref YP_001509.1 YP_001509.1	hypothetical protein LIC11550	hypothetical protein			54
ref YP_003039.1 YP_003039.1	hypothetical protein LIC13131	hypothetical protein			54
ref YP_000079.1 YP_000079.1	hypothetical protein LIC10079	hypothetical protein			50
ref YP_000996.1 YP_000996.1	hypothetical protein LIC11026	hypothetical protein			50
ref YP_001083.1 YP_001083.1	hypothetical protein LIC11113	hypothetical protein			50
ref YP_001107.1 YP_001107.1	hypothetical protein LIC11137	hypothetical protein			50
ref YP_001424.1 YP_001424.1	hypothetical protein LIC11463	hypothetical protein			50
ref YP_001566.1 YP_001566.1	hypothetical protein LIC11608	hypothetical protein			50
ref YP_003437.1 YP_003437.1	hypothetical protein LIC20045	hypothetical protein			50
ref YP_003628.1 YP_003628.1	hypothetical protein LIC20243	hypothetical protein			50
ref YP_000232.1 YP_000232.1	hypothetical protein LIC10241	hypothetical protein			47
ref YP_000435.1 YP_000435.1	hypothetical protein LIC10451	hypothetical protein			47
ref YP_001912.1 YP_001912.1	hypothetical protein LIC11972	hypothetical protein			47
ref YP_002542.1 YP_002542.1	hypothetical protein LIC12619	hypothetical protein			47
ref YP_002597.1 YP_002597.1	hypothetical protein LIC12675	hypothetical protein			47
ref YP_003441.1 YP_003441.1	hypothetical protein LIC20049	hypothetical protein			47
ref YP_000193.1 YP_000193.1	hypothetical protein LIC10202	hypothetical protein			44
ref YP_000271.1 YP_000271.1	hypothetical protein LIC10281	hypothetical protein			44
ref YP_001240.1 YP_001240.1	hypothetical protein LIC11271	hypothetical protein			44
ref YP_001351.1 YP_001351.1	hypothetical protein LIC11388	hypothetical protein			44
ref YP_002505.1 YP_002505.1	hypothetical protein LIC12581	hypothetical protein			44
ref YP_002654.1 YP_002654.1	hypothetical protein LIC12734	hypothetical protein			44
ref YP_002982.1 YP_002982.1	hypothetical protein LIC13070	hypothetical protein			44
ref YP_000250.1 YP_000250.1	hypothetical protein LIC10259	hypothetical			40

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		protein			
ref YP_000750.1 YP_000750.1	hypothetical protein LIC10770	hypothetical protein			40
ref YP_000794.1 YP_000794.1	hypothetical protein LIC10817	hypothetical protein			40
ref YP_001024.1 YP_001024.1	hypothetical protein LIC11054	hypothetical protein			40
ref YP_001041.1 YP_001041.1	hypothetical protein LIC11071	hypothetical protein			40
ref YP_001562.1 YP_001562.1	hypothetical protein LIC11604	hypothetical protein			40
ref YP_002646.1 YP_002646.1	hypothetical protein LIC12726	hypothetical protein			40
ref YP_003112.1 YP_003112.1	hypothetical protein LIC13204	hypothetical protein			40
ref YP_003439.1 YP_003439.1	hypothetical protein LIC20047	hypothetical protein			40
ref YP_000020.1 YP_000020.1	hypothetical protein LIC10020	hypothetical protein			37
ref YP_000418.1 YP_000418.1	hypothetical protein LIC10433	hypothetical protein			37
ref YP_001446.1 YP_001446.1	hypothetical protein LIC11485	hypothetical protein			37
ref YP_001822.1 YP_001822.1	hypothetical protein LIC11873	hypothetical protein			37
ref YP_001953.1 YP_001953.1	hypothetical protein LIC12014	hypothetical protein			37
ref YP_002007.1 YP_002007.1	hypothetical protein LIC12073	hypothetical protein			37
ref YP_002030.1 YP_002030.1	hypothetical protein LIC12096	hypothetical protein			37
ref YP_002148.1 YP_002148.1	hypothetical protein LIC12213	hypothetical protein			37
ref YP_002232.1 YP_002232.1	hypothetical protein LIC12298	hypothetical protein			37
ref YP_002474.1 YP_002474.1	hypothetical protein LIC12546	hypothetical protein			37
ref YP_002488.1 YP_002488.1	hypothetical protein LIC12561	hypothetical protein			37
ref YP_002496.1 YP_002496.1	hypothetical protein LIC12572	hypothetical protein			37
ref YP_003098.1 YP_003098.1	hypothetical protein LIC13190	hypothetical protein			37
ref YP_000376.1 YP_000376.1	hypothetical protein LIC10390	hypothetical protein			34
ref YP_000469.1 YP_000469.1	hypothetical protein LIC10485	hypothetical protein			34
ref YP_000708.1 YP_000708.1	hypothetical protein LIC10724	hypothetical protein			34
ref YP_000780.1 YP_000780.1	hypothetical protein LIC10803	hypothetical protein			34
ref YP_001828.1 YP_001828.1	hypothetical protein LIC11879	hypothetical protein			34
ref YP_002682.1 YP_002682.1	hypothetical protein LIC12762	hypothetical protein			34
ref YP_003207.1 YP_003207.1	hypothetical protein LIC13302	hypothetical protein			34
ref YP_003384.1 YP_003384.1	hypothetical protein LIC13483	hypothetical protein			34
ref YP_003425.1 YP_003425.1	hypothetical protein LIC20033	hypothetical protein			34
ref YP_003612.1 YP_003612.1	hypothetical protein LIC20223	hypothetical protein			34
ref YP_000102.1 YP_000102.1	hypothetical protein LIC10105	hypothetical			30

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		protein			
ref YP_000270.1 YP_000270.1	hypothetical protein LIC10280	hypothetical protein			30
ref YP_000419.1 YP_000419.1	hypothetical protein LIC10434	hypothetical protein			30
ref YP_001125.1 YP_001125.1	hypothetical protein LIC11155	hypothetical protein			30
ref YP_001538.1 YP_001538.1	hypothetical protein LIC11579	hypothetical protein			30
ref YP_002131.1 YP_002131.1	hypothetical protein LIC12196	hypothetical protein			30
ref YP_000030.1 YP_000030.1	hypothetical protein LIC10030	hypothetical protein			27
ref YP_000221.1 YP_000221.1	hypothetical protein LIC10230	hypothetical protein			27
ref YP_000792.1 YP_000792.1	hypothetical protein LIC10815	hypothetical protein			27
ref YP_000812.1 YP_000812.1	hypothetical protein LIC10835	hypothetical protein			27
ref YP_000860.1 YP_000860.1	hypothetical protein LIC10883	hypothetical protein			27
ref YP_002265.1 YP_002265.1	hypothetical protein LIC12333	hypothetical protein			27
ref YP_002344.1 YP_002344.1	hypothetical protein LIC12413	hypothetical protein			27
ref YP_002346.1 YP_002346.1	hypothetical protein LIC12415	hypothetical protein			27
ref YP_002501.1 YP_002501.1	hypothetical protein LIC12577	hypothetical protein			27
ref YP_002876.1 YP_002876.1	hypothetical protein LIC12963	hypothetical protein			27
ref YP_002954.1 YP_002954.1	hypothetical protein LIC13042	hypothetical protein			27
ref YP_003266.1 YP_003266.1	hypothetical protein LIC13361	hypothetical protein			27
ref YP_003319.1 YP_003319.1	hypothetical protein LIC13416	hypothetical protein			27
ref YP_003587.1 YP_003587.1	hypothetical protein LIC20198	hypothetical protein			27
ref YP_001895.1 YP_001895.1	hypothetical protein LIC11950	hypothetical protein			27
ref YP_000049.1 YP_000049.1	hypothetical protein LIC10049	hypothetical protein			24
ref YP_000407.1 YP_000407.1	hypothetical protein LIC10421	hypothetical protein			24
ref YP_001409.1 YP_001409.1	hypothetical protein LIC11447	hypothetical protein			24
ref YP_001606.1 YP_001606.1	hypothetical protein LIC11650	hypothetical protein			24
ref YP_001741.1 YP_001741.1	hypothetical protein LIC11789	hypothetical protein			24
ref YP_002908.1 YP_002908.1	hypothetical protein LIC12995	hypothetical protein			24
ref YP_002914.1 YP_002914.1	hypothetical protein LIC13001	hypothetical protein			24
ref YP_003152.1 YP_003152.1	hypothetical protein LIC13245	hypothetical protein			24
ref YP_000676.1 YP_000676.1	hypothetical protein LIC10692	hypothetical protein			24
ref YP_003052.1 YP_003052.1	hypothetical protein LIC13144	hypothetical protein			24
ref YP_000342.1 YP_000342.1	hypothetical protein LIC10353	hypothetical protein			21
ref YP_000370.1 YP_000370.1	hypothetical protein LIC10384	hypothetical			21

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		protein			
ref YP_000894.1 YP_000894.1	hypothetical protein LIC10919	hypothetical protein			21
ref YP_001196.1 YP_001196.1	hypothetical protein LIC11227	hypothetical protein			21
ref YP_001677.1 YP_001677.1	hypothetical protein LIC11725	hypothetical protein			21
ref YP_001893.1 YP_001893.1	hypothetical protein LIC11948	hypothetical protein			21
ref YP_001981.1 YP_001981.1	hypothetical protein LIC12046	hypothetical protein			21
ref YP_002051.1 YP_002051.1	hypothetical protein LIC12117	hypothetical protein			21
ref YP_002387.1 YP_002387.1	hypothetical protein LIC12459	hypothetical protein			21
ref YP_002502.1 YP_002502.1	hypothetical protein LIC12578	hypothetical protein			21
ref YP_002570.1 YP_002570.1	hypothetical protein LIC12647	hypothetical protein			21
ref YP_002738.1 YP_002738.1	hypothetical protein LIC12822	hypothetical protein			21
ref YP_003528.1 YP_003528.1	hypothetical protein LIC20137	hypothetical protein			21
ref YP_003551.1 YP_003551.1	hypothetical protein LIC20160	hypothetical protein			21
ref YP_003581.1 YP_003581.1	hypothetical protein LIC20190	hypothetical protein			21
ref YP_003611.1 YP_003611.1	hypothetical protein LIC20222	hypothetical protein			21
ref YP_003637.1 YP_003637.1	hypothetical protein LIC20253	hypothetical protein			21
ref YP_002743.1 YP_002743.1	hypothetical protein LIC12827	hypothetical protein			21
ref YP_000620.1 YP_000620.1	hypothetical protein LIC10636	hypothetical protein			17
ref YP_000723.1 YP_000723.1	hypothetical protein LIC10741	hypothetical protein			17
ref YP_000755.1 YP_000755.1	hypothetical protein LIC10775	hypothetical protein			17
ref YP_000879.1 YP_000879.1	hypothetical protein LIC10902	hypothetical protein			17
ref YP_000942.1 YP_000942.1	hypothetical protein LIC10968	hypothetical protein			17
ref YP_001133.1 YP_001133.1	hypothetical protein LIC11163	hypothetical protein			17
ref YP_001232.1 YP_001232.1	hypothetical protein LIC11263	hypothetical protein			17
ref YP_001233.1 YP_001233.1	hypothetical protein LIC11264	hypothetical protein			17
ref YP_001256.1 YP_001256.1	hypothetical protein LIC11289	hypothetical protein			17
ref YP_001347.1 YP_001347.1	hypothetical protein LIC11383	hypothetical protein			17
ref YP_001451.1 YP_001451.1	hypothetical protein LIC11490	hypothetical protein			17
ref YP_001457.1 YP_001457.1	hypothetical protein LIC11496	hypothetical protein			17
ref YP_001722.1 YP_001722.1	hypothetical protein LIC11770	hypothetical protein			17
ref YP_001777.1 YP_001777.1	hypothetical protein LIC11826	hypothetical protein			17
ref YP_001825.1 YP_001825.1	hypothetical protein LIC11876	hypothetical protein			17
ref YP_002165.1 YP_002165.1	hypothetical protein LIC12230	hypothetical			17

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003264.1 YP_003264.1	hypothetical protein LIC13359	hypothetical protein			17
ref YP_003421.1 YP_003421.1	hypothetical protein LIC20029	hypothetical protein			17
ref YP_000103.1 YP_000103.1	hypothetical protein LIC10106	hypothetical protein			14
ref YP_000219.1 YP_000219.1	hypothetical protein LIC10228	hypothetical protein			14
ref YP_000227.1 YP_000227.1	hypothetical protein LIC10236	hypothetical protein			14
ref YP_000993.1 YP_000993.1	hypothetical protein LIC11023	hypothetical protein			14
ref YP_001219.1 YP_001219.1	hypothetical protein LIC11250	hypothetical protein			14
ref YP_001625.1 YP_001625.1	hypothetical protein LIC11671	hypothetical protein			14
ref YP_001808.1 YP_001808.1	hypothetical protein LIC11859	hypothetical protein			14
ref YP_001944.1 YP_001944.1	hypothetical protein LIC12005	hypothetical protein			14
ref YP_002809.1 YP_002809.1	hypothetical protein LIC12893	hypothetical protein			14
ref YP_002925.1 YP_002925.1	hypothetical protein LIC13012	hypothetical protein			14
ref YP_002970.1 YP_002970.1	hypothetical protein LIC13058	hypothetical protein			14
ref YP_003139.1 YP_003139.1	hypothetical protein LIC13231	hypothetical protein			14
ref YP_003147.1 YP_003147.1	hypothetical protein LIC13240	hypothetical protein			14
ref YP_003268.1 YP_003268.1	hypothetical protein LIC13363	hypothetical protein			14
ref YP_003553.1 YP_003553.1	hypothetical protein LIC20162	hypothetical protein			14
ref YP_002197.1 YP_002197.1	hypothetical protein LIC12262	hypothetical protein			14
ref YP_002271.1 YP_002271.1	hypothetical protein LIC12339	hypothetical protein			14
ref YP_000986.1 YP_000986.1	hypothetical protein LIC11014	hypothetical protein			14
ref YP_000306.1 YP_000306.1	hypothetical protein LIC10316	hypothetical protein			14
ref YP_000197.1 YP_000197.1	hypothetical protein LIC10206	hypothetical protein			11
ref YP_000209.1 YP_000209.1	hypothetical protein LIC10218	hypothetical protein			11
ref YP_000218.1 YP_000218.1	hypothetical protein LIC10227	hypothetical protein			11
ref YP_001221.1 YP_001221.1	hypothetical protein LIC11252	hypothetical protein			11
ref YP_001320.1 YP_001320.1	hypothetical protein LIC11356	hypothetical protein			11
ref YP_001647.1 YP_001647.1	hypothetical protein LIC11695	hypothetical protein			11
ref YP_001673.1 YP_001673.1	hypothetical protein LIC11721	hypothetical protein			11
ref YP_001958.1 YP_001958.1	hypothetical protein LIC12020	hypothetical protein			11
ref YP_002067.1 YP_002067.1	hypothetical protein LIC12133	hypothetical protein			11
ref YP_002173.1 YP_002173.1	hypothetical protein LIC12238	hypothetical protein			11
ref YP_002361.1 YP_002361.1	hypothetical protein LIC12430	hypothetical protein			11

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		protein			
ref YP_002556.1 YP_002556.1	hypothetical protein LIC12633	hypothetical protein			11
ref YP_002568.1 YP_002568.1	hypothetical protein LIC12645	hypothetical protein			11
ref YP_002740.1 YP_002740.1	hypothetical protein LIC12824	hypothetical protein			11
ref YP_002804.1 YP_002804.1	hypothetical protein LIC12888	hypothetical protein			11
ref YP_002945.1 YP_002945.1	hypothetical protein LIC13032	hypothetical protein			11
ref YP_003124.1 YP_003124.1	hypothetical protein LIC13216	hypothetical protein			11
ref YP_003251.1 YP_003251.1	hypothetical protein LIC13346	hypothetical protein			11
ref YP_003269.1 YP_003269.1	hypothetical protein LIC13364	hypothetical protein			11
ref YP_003536.1 YP_003536.1	hypothetical protein LIC20145	hypothetical protein			11
ref YP_003649.1 YP_003649.1	hypothetical protein LIC20265	hypothetical protein			11
ref YP_001858.1 YP_001858.1	hypothetical protein LIC11912	hypothetical protein			11
ref YP_003408.1 YP_003408.1	hypothetical protein LIC20016	hypothetical protein			11
ref YP_000399.1 YP_000399.1	hypothetical protein LIC10413	hypothetical protein			8
ref YP_000513.1 YP_000513.1	hypothetical protein LIC10529	hypothetical protein			8
ref YP_001201.1 YP_001201.1	hypothetical protein LIC11232	hypothetical protein			8
ref YP_001261.1 YP_001261.1	hypothetical protein LIC11295	hypothetical protein			8
ref YP_001462.1 YP_001462.1	hypothetical protein LIC11501	hypothetical protein			8
ref YP_001700.1 YP_001700.1	hypothetical protein LIC11748	hypothetical protein			8
ref YP_001749.1 YP_001749.1	hypothetical protein LIC11797	hypothetical protein			8
ref YP_001888.1 YP_001888.1	hypothetical protein LIC11943	hypothetical protein			8
ref YP_002264.1 YP_002264.1	hypothetical protein LIC12332	hypothetical protein			8
ref YP_002427.1 YP_002427.1	hypothetical protein LIC12499	hypothetical protein			8
ref YP_003213.1 YP_003213.1	hypothetical protein LIC13308	hypothetical protein			8
ref YP_003366.1 YP_003366.1	hypothetical protein LIC13463	hypothetical protein			8
ref YP_002967.1 YP_002967.1	hypothetical protein LIC13055	hypothetical protein			8
ref YP_003193.1 YP_003193.1	hypothetical protein LIC13286	hypothetical protein			8
ref YP_003360.1 YP_003360.1	hypothetical protein LIC13457	hypothetical protein			8
ref YP_001569.1 YP_001569.1	hypothetical protein LIC11611	hypothetical protein			8
ref YP_001998.1 YP_001998.1	hypothetical protein LIC12064	hypothetical protein			8
ref YP_000781.1 YP_000781.1	hypothetical protein LIC10804	hypothetical protein			5
ref YP_000973.1 YP_000973.1	hypothetical protein LIC10999	hypothetical protein			5
ref YP_001586.1 YP_001586.1	hypothetical protein LIC11628	hypothetical			5

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001671.1 YP_001671.1	hypothetical protein LIC11719	hypothetical protein			5
ref YP_001774.1 YP_001774.1	hypothetical protein LIC11823	hypothetical protein			5
ref YP_001810.1 YP_001810.1	hypothetical protein LIC11861	hypothetical protein			5
ref YP_001832.1 YP_001832.1	hypothetical protein LIC11883	hypothetical protein			5
ref YP_001904.1 YP_001904.1	hypothetical protein LIC11959	hypothetical protein			5
ref YP_002118.1 YP_002118.1	hypothetical protein LIC12183	hypothetical protein			5
ref YP_002576.1 YP_002576.1	hypothetical protein LIC12653	hypothetical protein			5
ref YP_002591.1 YP_002591.1	hypothetical protein LIC12669	hypothetical protein			5
ref YP_002697.1 YP_002697.1	hypothetical protein LIC12780	hypothetical protein			5
ref YP_002859.1 YP_002859.1	hypothetical protein LIC12945	hypothetical protein			5
ref YP_003141.1 YP_003141.1	hypothetical protein LIC13233	hypothetical protein			5
ref YP_003259.1 YP_003259.1	hypothetical protein LIC13354	hypothetical protein			5
ref YP_003359.1 YP_003359.1	hypothetical protein LIC13456	hypothetical protein			5
ref YP_000124.1 YP_000124.1	hypothetical protein LIC10128	hypothetical protein			5
ref YP_001688.1 YP_001688.1	hypothetical protein LIC11736	hypothetical protein			5
ref YP_002752.1 YP_002752.1	hypothetical protein LIC12836	hypothetical protein			5
ref YP_001180.1 YP_001180.1	hypothetical protein LIC11211	hypothetical protein			5
ref YP_001736.1 YP_001736.1	hypothetical protein LIC11784	hypothetical protein			5
ref YP_001905.1 YP_001905.1	hypothetical protein LIC11960	hypothetical protein			5
ref YP_002426.1 YP_002426.1	hypothetical protein LIC12498	hypothetical protein			2
ref YP_000067.1 YP_000067.1	hypothetical protein LIC10067	hypothetical protein			2
ref YP_000004.1 YP_000004.1	hypothetical protein LIC10004	hypothetical protein			
ref YP_000026.1 YP_000026.1	hypothetical protein LIC10026	hypothetical protein			
ref YP_000076.1 YP_000076.1	hypothetical protein LIC10076	hypothetical protein			
ref YP_000082.1 YP_000082.1	hypothetical protein LIC10083	hypothetical protein			
ref YP_000090.1 YP_000090.1	hypothetical protein LIC10093	hypothetical protein			
ref YP_000139.1 YP_000139.1	hypothetical protein LIC10143	hypothetical protein			
ref YP_000281.1 YP_000281.1	hypothetical protein LIC10291	hypothetical protein			
ref YP_000330.1 YP_000330.1	hypothetical protein LIC10340	hypothetical protein			
ref YP_000362.1 YP_000362.1	hypothetical protein LIC10376	hypothetical protein			
ref YP_000385.1 YP_000385.1	hypothetical protein LIC10399	hypothetical protein			
ref YP_000504.1 YP_000504.1	hypothetical protein LIC10520	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000589.1 YP_000589.1	hypothetical protein LIC10605	hypothetical protein			
ref YP_000690.1 YP_000690.1	hypothetical protein LIC10706	hypothetical protein			
ref YP_000746.1 YP_000746.1	hypothetical protein LIC10766	hypothetical protein			
ref YP_000771.1 YP_000771.1	hypothetical protein LIC10792	hypothetical protein			
ref YP_000887.1 YP_000887.1	hypothetical protein LIC10912	hypothetical protein			
ref YP_000890.1 YP_000890.1	hypothetical protein LIC10915	hypothetical protein			
ref YP_001056.1 YP_001056.1	hypothetical protein LIC11086	hypothetical protein			
ref YP_001105.1 YP_001105.1	hypothetical protein LIC11135	hypothetical protein			
ref YP_001155.1 YP_001155.1	hypothetical protein LIC11185	hypothetical protein			
ref YP_001181.1 YP_001181.1	hypothetical protein LIC11212	hypothetical protein			
ref YP_001182.1 YP_001182.1	hypothetical protein LIC11213	hypothetical protein			
ref YP_001215.1 YP_001215.1	hypothetical protein LIC11246	hypothetical protein			
ref YP_001251.1 YP_001251.1	hypothetical protein LIC11283	hypothetical protein			
ref YP_001302.1 YP_001302.1	hypothetical protein LIC11338	hypothetical protein			
ref YP_001438.1 YP_001438.1	hypothetical protein LIC11477	hypothetical protein			
ref YP_001443.1 YP_001443.1	hypothetical protein LIC11482	hypothetical protein			
ref YP_001610.1 YP_001610.1	hypothetical protein LIC11654	hypothetical protein			
ref YP_001614.1 YP_001614.1	hypothetical protein LIC11658	hypothetical protein			
ref YP_001634.1 YP_001634.1	hypothetical protein LIC11682	hypothetical protein			
ref YP_001648.1 YP_001648.1	hypothetical protein LIC11696	hypothetical protein			
ref YP_001658.1 YP_001658.1	hypothetical protein LIC11706	hypothetical protein			
ref YP_001717.1 YP_001717.1	hypothetical protein LIC11765	hypothetical protein			
ref YP_001821.1 YP_001821.1	hypothetical protein LIC11872	hypothetical protein			
ref YP_001863.1 YP_001863.1	hypothetical protein LIC11917	hypothetical protein			
ref YP_001864.1 YP_001864.1	hypothetical protein LIC11918	hypothetical protein			
ref YP_002238.1 YP_002238.1	hypothetical protein LIC12304	hypothetical protein			
ref YP_002244.1 YP_002244.1	hypothetical protein LIC12310	hypothetical protein			
ref YP_002305.1 YP_002305.1	hypothetical protein LIC12373	hypothetical protein			
ref YP_002398.1 YP_002398.1	hypothetical protein LIC12470	hypothetical protein			
ref YP_002422.1 YP_002422.1	hypothetical protein LIC12494	hypothetical protein			
ref YP_002475.1 YP_002475.1	hypothetical protein LIC12547	hypothetical protein			
ref YP_002562.1 YP_002562.1	hypothetical protein LIC12639	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002566.1 YP_002566.1	hypothetical protein LIC12643	hypothetical protein			
ref YP_002572.1 YP_002572.1	hypothetical protein LIC12649	hypothetical protein			
ref YP_002590.1 YP_002590.1	hypothetical protein LIC12668	hypothetical protein			
ref YP_002630.1 YP_002630.1	hypothetical protein LIC12709	hypothetical protein			
ref YP_002915.1 YP_002915.1	hypothetical protein LIC13002	hypothetical protein			
ref YP_002955.1 YP_002955.1	hypothetical protein LIC13043	hypothetical protein			
ref YP_002977.1 YP_002977.1	hypothetical protein LIC13065	hypothetical protein			
ref YP_002990.1 YP_002990.1	hypothetical protein LIC13078	hypothetical protein			
ref YP_003005.1 YP_003005.1	hypothetical protein LIC13093	hypothetical protein			
ref YP_003145.1 YP_003145.1	hypothetical protein LIC13238	hypothetical protein			
ref YP_003154.1 YP_003154.1	hypothetical protein LIC13247	hypothetical protein			
ref YP_003179.1 YP_003179.1	hypothetical protein LIC13272	hypothetical protein			
ref YP_003181.1 YP_003181.1	hypothetical protein LIC13274	hypothetical protein			
ref YP_003185.1 YP_003185.1	hypothetical protein LIC13278	hypothetical protein			
ref YP_003190.1 YP_003190.1	hypothetical protein LIC13283	hypothetical protein			
ref YP_003217.1 YP_003217.1	hypothetical protein LIC13312	hypothetical protein			
ref YP_003224.1 YP_003224.1	hypothetical protein LIC13319	hypothetical protein			
ref YP_003238.1 YP_003238.1	hypothetical protein LIC13333	hypothetical protein			
ref YP_003284.1 YP_003284.1	hypothetical protein LIC13381	hypothetical protein			
ref YP_003290.1 YP_003290.1	hypothetical protein LIC13387	hypothetical protein			
ref YP_003338.1 YP_003338.1	hypothetical protein LIC13435	hypothetical protein			
ref YP_003426.1 YP_003426.1	hypothetical protein LIC20034	hypothetical protein			
ref YP_003443.1 YP_003443.1	hypothetical protein LIC20051	hypothetical protein			
ref YP_003478.1 YP_003478.1	hypothetical protein LIC20086	hypothetical protein			
ref YP_003501.1 YP_003501.1	hypothetical protein LIC20109	hypothetical protein			
ref YP_003559.1 YP_003559.1	hypothetical protein LIC20168	hypothetical protein			
ref YP_003589.1 YP_003589.1	hypothetical protein LIC20200	hypothetical protein			
ref YP_003629.1 YP_003629.1	hypothetical protein LIC20244	hypothetical protein			
ref YP_002187.1 YP_002187.1	hypothetical protein LIC12252	hypothetical protein			
ref YP_002360.1 YP_002360.1	lipoprotein releasing system, permease component	hypothetical protein			
ref YP_000952.1 YP_000952.1	syringomycin channel-forming protein	hypothetical protein			
ref YP_000161.1 YP_000161.1	hypothetical protein LIC10169	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000267.1 YP_000267.1	hypothetical protein LIC10277	hypothetical protein			
ref YP_000312.1 YP_000312.1	hypothetical protein LIC10322	hypothetical protein			
ref YP_000980.1 YP_000980.1	hypothetical protein LIC11007	hypothetical protein			
ref YP_001049.1 YP_001049.1	hypothetical protein LIC11079	hypothetical protein			
ref YP_001141.1 YP_001141.1	hypothetical protein LIC11171	hypothetical protein			
ref YP_001175.1 YP_001175.1	hypothetical protein LIC11205	hypothetical protein			
ref YP_001603.1 YP_001603.1	hypothetical protein LIC11645	hypothetical protein			
ref YP_001695.1 YP_001695.1	hypothetical protein LIC11743	hypothetical protein			
ref YP_001798.1 YP_001798.1	hypothetical protein LIC11849	hypothetical protein			
ref YP_001870.1 YP_001870.1	hypothetical protein LIC11924	hypothetical protein			
ref YP_001968.1 YP_001968.1	hypothetical protein LIC12030	hypothetical protein			
ref YP_001999.1 YP_001999.1	hypothetical protein LIC12065	hypothetical protein			
ref YP_002399.1 YP_002399.1	hypothetical protein LIC12471	hypothetical protein			
ref YP_002519.1 YP_002519.1	hypothetical protein LIC12596	hypothetical protein			
ref YP_002897.1 YP_002897.1	hypothetical protein LIC12984	hypothetical protein			
ref YP_002941.1 YP_002941.1	hypothetical protein LIC13028	hypothetical protein			
ref YP_002942.1 YP_002942.1	hypothetical protein LIC13029	hypothetical protein			
ref YP_002961.1 YP_002961.1	hypothetical protein LIC13049	hypothetical protein			
ref YP_003056.1 YP_003056.1	hypothetical protein LIC13148	hypothetical protein			
ref YP_003156.1 YP_003156.1	hypothetical protein LIC13249	hypothetical protein			
ref YP_003333.1 YP_003333.1	hypothetical protein LIC13430	hypothetical protein			
ref YP_003505.1 YP_003505.1	hypothetical protein LIC20113	hypothetical protein			
ref YP_003570.1 YP_003570.1	hypothetical protein LIC20179	hypothetical protein			
ref YP_001359.1 YP_001359.1	hypothetical cytoplasmic membrane protein	hypothetical protein			
ref YP_000747.1 YP_000747.1	hypothetical protein LIC10767	hypothetical protein			
ref YP_001237.1 YP_001237.1	hypothetical protein LIC11268	hypothetical protein			
ref YP_001330.1 YP_001330.1	hypothetical protein LIC11366	hypothetical protein			
ref YP_001790.1 YP_001790.1	hypothetical protein LIC11841	hypothetical protein			
ref YP_002297.1 YP_002297.1	hypothetical protein LIC12365	hypothetical protein			
ref YP_000997.1 YP_000997.1	hypothetical protein LIC11027	hypothetical protein			
ref YP_001179.1 YP_001179.1	hypothetical protein LIC11210	hypothetical protein			
ref YP_001632.1 YP_001632.1	hypothetical protein LIC11678	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001976.1 YP_001976.1	hypothetical protein LIC12041	hypothetical protein			
ref YP_002272.1 YP_002272.1	hypothetical protein LIC12340	hypothetical protein			
ref YP_002367.1 YP_002367.1	hypothetical protein LIC12436	hypothetical protein			
ref YP_003054.1 YP_003054.1	hypothetical protein LIC13146	hypothetical protein			
ref YP_003577.1 YP_003577.1	hypothetical protein LIC20186	hypothetical protein			
ref YP_001442.1 YP_001442.1	hypothetical protein LIC11481	hypothetical protein			
ref YP_001770.1 YP_001770.1	hypothetical protein LIC11819	hypothetical protein			
ref YP_002160.1 YP_002160.1	hypothetical protein LIC12225	hypothetical protein			
ref YP_002216.1 YP_002216.1	hypothetical protein LIC12282	hypothetical protein			
ref YP_002643.1 YP_002643.1	hypothetical protein LIC12723	hypothetical protein			
ref YP_000135.1 YP_000135.1	hypothetical protein LIC10139	hypothetical protein			
ref YP_001589.1 YP_001589.1	hypothetical protein LIC11631	hypothetical protein			
ref YP_002820.1 YP_002820.1	hypothetical protein LIC12904	hypothetical protein			
ref YP_000253.1 YP_000253.1	hypothetical protein LIC10262	hypothetical protein			
ref YP_000588.1 YP_000588.1	hypothetical protein LIC10604	hypothetical protein			
ref YP_001524.1 YP_001524.1	hypothetical protein LIC11565	hypothetical protein			
ref YP_002001.1 YP_002001.1	hypothetical protein LIC12067	hypothetical protein			
ref YP_000682.1 YP_000682.1	hypothetical protein LIC10698	hypothetical protein			
ref YP_000960.1 YP_000960.1	hypothetical protein LIC10986	hypothetical protein			
ref YP_001142.1 YP_001142.1	hypothetical protein LIC11172	hypothetical protein			
ref YP_001837.1 YP_001837.1	hypothetical protein LIC11888	hypothetical protein			
ref YP_000481.1 YP_000481.1	hypothetical protein LIC10497	hypothetical protein			
ref YP_001869.1 YP_001869.1	hypothetical protein LIC11923	hypothetical protein			
ref YP_002494.1 YP_002494.1	hypothetical protein LIC12569	hypothetical protein			
ref YP_000679.1 YP_000679.1	hypothetical protein LIC10695	hypothetical protein			
ref YP_003600.1 YP_003600.1	hypothetical protein LIC20211	hypothetical protein			
ref YP_002557.1 YP_002557.1	hypothetical protein LIC12634	hypothetical protein			
ref YP_000187.1 YP_000187.1	hypothetical protein LIC10196	hypothetical protein			
ref YP_002510.1 YP_002510.1	hypothetical protein LIC12586	hypothetical protein			
ref YP_002620.1 YP_002620.1	hypothetical protein LIC12699	hypothetical protein			
ref YP_003430.1 YP_003430.1	hypothetical protein LIC20038	hypothetical protein			
ref YP_000057.1 YP_000057.1	hypothetical protein LIC10057	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002437.1 YP_002437.1	hypothetical protein LIC12509	hypothetical protein			
ref YP_003464.1 YP_003464.1	hypothetical protein LIC20072	hypothetical protein			
ref YP_000785.1 YP_000785.1	hypothetical protein LIC10808	hypothetical protein			
ref YP_003660.1 YP_003660.1	hypothetical protein LIC20276	hypothetical protein			
ref YP_002567.1 YP_002567.1	hypothetical protein LIC12644	hypothetical protein			
ref YP_000078.1 YP_000078.1	hypothetical protein LIC10078	hypothetical protein			
ref YP_000400.1 YP_000400.1	hypothetical protein LIC10414	hypothetical protein			
ref YP_000379.1 YP_000379.1	hypothetical protein LIC10393	hypothetical protein			
ref YP_002635.1 YP_002635.1	hypothetical protein LIC12714	hypothetical protein			
ref YP_003620.1 YP_003620.1	hypothetical protein LIC20232	hypothetical protein			
ref YP_003554.1 YP_003554.1	hypothetical protein LIC20163	hypothetical protein			
ref YP_002950.1 YP_002950.1	hypothetical protein LIC13038	hypothetical protein			
ref YP_000654.1 YP_000654.1	hypothetical protein LIC10670	hypothetical protein			
ref YP_001430.1 YP_001430.1	hypothetical protein LIC11469	hypothetical protein			
ref YP_002127.1 YP_002127.1	hypothetical protein LIC12192	hypothetical protein			
ref YP_003048.1 YP_003048.1	hypothetical protein LIC13140	hypothetical protein			
ref YP_001271.1 YP_001271.1	hypothetical protein LIC11305	hypothetical protein			
ref YP_001453.1 YP_001453.1	hypothetical protein LIC11492	hypothetical protein			
ref YP_001249.1 YP_001249.1	hypothetical protein LIC11281	hypothetical protein			
ref YP_000472.1 YP_000472.1	hypothetical protein LIC10488	hypothetical protein			
ref YP_001842.1 YP_001842.1	hypothetical protein LIC11893	hypothetical protein			
ref YP_002413.1 YP_002413.1	hypothetical protein LIC12485	hypothetical protein			
ref YP_003248.1 YP_003248.1	hypothetical protein LIC13343	hypothetical protein			
ref YP_000638.1 YP_000638.1	hypothetical protein LIC10654	hypothetical protein			
ref YP_001767.1 YP_001767.1	hypothetical protein LIC11816	hypothetical protein			
ref YP_002637.1 YP_002637.1	hypothetical protein LIC12716	hypothetical protein			
ref YP_000434.1 YP_000434.1	hypothetical protein LIC10450	hypothetical protein			
ref YP_000717.1 YP_000717.1	hypothetical protein LIC10735	hypothetical protein			
ref YP_002242.1 YP_002242.1	hypothetical protein LIC12308	hypothetical protein			
ref YP_000801.1 YP_000801.1	hypothetical protein LIC10824	hypothetical protein			
ref YP_000086.1 YP_000086.1	hypothetical protein LIC10089	hypothetical protein			
ref YP_001852.1 YP_001852.1	hypothetical protein LIC11904	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000357.1 YP_000357.1	hypothetical protein LIC10370	hypothetical protein			
ref YP_001448.1 YP_001448.1	hypothetical protein LIC11487	hypothetical protein			
ref YP_002823.1 YP_002823.1	hypothetical protein LIC12907	hypothetical protein			
ref YP_003320.1 YP_003320.1	hypothetical protein LIC13417	hypothetical protein			
ref YP_002852.1 YP_002852.1	hypothetical protein LIC12938	hypothetical protein			
ref YP_001694.1 YP_001694.1	hypothetical protein LIC11742	hypothetical protein			
ref YP_002885.1 YP_002885.1	hypothetical protein LIC12972	hypothetical protein			
ref YP_000008.1 YP_000008.1	hypothetical protein LIC10008	hypothetical protein			
ref YP_000010.1 YP_000010.1	hypothetical protein LIC10010	hypothetical protein			
ref YP_000015.1 YP_000015.1	hypothetical protein LIC10015	hypothetical protein			
ref YP_000025.1 YP_000025.1	hypothetical protein LIC10025	hypothetical protein			
ref YP_000027.1 YP_000027.1	hypothetical protein LIC10027	hypothetical protein			
ref YP_000033.1 YP_000033.1	hypothetical protein LIC10033	hypothetical protein			
ref YP_000034.1 YP_000034.1	hypothetical protein LIC10034	hypothetical protein			
ref YP_000036.1 YP_000036.1	hypothetical protein LIC10036	hypothetical protein			
ref YP_000042.1 YP_000042.1	hypothetical protein LIC10042	hypothetical protein			
ref YP_000044.1 YP_000044.1	hypothetical protein LIC10044	hypothetical protein			
ref YP_000047.1 YP_000047.1	hypothetical protein LIC10047	hypothetical protein			
ref YP_000056.1 YP_000056.1	hypothetical protein LIC10056	hypothetical protein			
ref YP_000061.1 YP_000061.1	hypothetical protein LIC10061	hypothetical protein			
ref YP_000062.1 YP_000062.1	hypothetical protein LIC10062	hypothetical protein			
ref YP_000070.1 YP_000070.1	hypothetical protein LIC10070	hypothetical protein			
ref YP_000080.1 YP_000080.1	hypothetical protein LIC10080	hypothetical protein			
ref YP_000081.1 YP_000081.1	hypothetical protein LIC10082	hypothetical protein			
ref YP_000084.1 YP_000084.1	hypothetical protein LIC10087	hypothetical protein			
ref YP_000085.1 YP_000085.1	hypothetical protein LIC10088	hypothetical protein			
ref YP_000097.1 YP_000097.1	hypothetical protein LIC10100	hypothetical protein			
ref YP_000100.1 YP_000100.1	hypothetical protein LIC10103	hypothetical protein			
ref YP_000104.1 YP_000104.1	hypothetical protein LIC10107	hypothetical protein			
ref YP_000105.1 YP_000105.1	hypothetical protein LIC10108	hypothetical protein			
ref YP_000106.1 YP_000106.1	hypothetical protein LIC10109	hypothetical protein			
ref YP_000107.1 YP_000107.1	hypothetical protein LIC10110	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000112.1 YP_000112.1	hypothetical protein LIC10116	hypothetical protein			
ref YP_000125.1 YP_000125.1	hypothetical protein LIC10129	hypothetical protein			
ref YP_000129.1 YP_000129.1	hypothetical protein LIC10133	hypothetical protein			
ref YP_000142.1 YP_000142.1	hypothetical protein LIC10146	hypothetical protein			
ref YP_000146.1 YP_000146.1	hypothetical protein LIC10152	hypothetical protein			
ref YP_000156.1 YP_000156.1	hypothetical protein LIC10164	hypothetical protein			
ref YP_000162.1 YP_000162.1	hypothetical protein LIC10170	hypothetical protein			
ref YP_000163.1 YP_000163.1	hypothetical protein LIC10171	hypothetical protein			
ref YP_000164.1 YP_000164.1	hypothetical protein LIC10172	hypothetical protein			
ref YP_000170.1 YP_000170.1	hypothetical protein LIC10179	hypothetical protein			
ref YP_000171.1 YP_000171.1	hypothetical protein LIC10180	hypothetical protein			
ref YP_000174.1 YP_000174.1	hypothetical protein LIC10183	hypothetical protein			
ref YP_000176.1 YP_000176.1	hypothetical protein LIC10185	hypothetical protein			
ref YP_000179.1 YP_000179.1	hypothetical protein LIC10188	hypothetical protein			
ref YP_000188.1 YP_000188.1	hypothetical protein LIC10197	hypothetical protein			
ref YP_000203.1 YP_000203.1	hypothetical protein LIC10212	hypothetical protein			
ref YP_000204.1 YP_000204.1	hypothetical protein LIC10213	hypothetical protein			
ref YP_000208.1 YP_000208.1	hypothetical protein LIC10217	hypothetical protein			
ref YP_000214.1 YP_000214.1	hypothetical protein LIC10223	hypothetical protein			
ref YP_000220.1 YP_000220.1	hypothetical protein LIC10229	hypothetical protein			
ref YP_000230.1 YP_000230.1	hypothetical protein LIC10239	hypothetical protein			
ref YP_000231.1 YP_000231.1	hypothetical protein LIC10240	hypothetical protein			
ref YP_000233.1 YP_000233.1	hypothetical protein LIC10242	hypothetical protein			
ref YP_000234.1 YP_000234.1	hypothetical protein LIC10243	hypothetical protein			
ref YP_000237.1 YP_000237.1	hypothetical protein LIC10246	hypothetical protein			
ref YP_000238.1 YP_000238.1	hypothetical protein LIC10247	hypothetical protein			
ref YP_000241.1 YP_000241.1	hypothetical protein LIC10250	hypothetical protein			
ref YP_000252.1 YP_000252.1	hypothetical protein LIC10261	hypothetical protein			
ref YP_000263.1 YP_000263.1	hypothetical protein LIC10273	hypothetical protein			
ref YP_000265.1 YP_000265.1	hypothetical protein LIC10275	hypothetical protein			
ref YP_000266.1 YP_000266.1	hypothetical protein LIC10276	hypothetical protein			
ref YP_000269.1 YP_000269.1	hypothetical protein LIC10279	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000282.1 YP_000282.1	hypothetical protein LIC10292	hypothetical protein			
ref YP_000286.1 YP_000286.1	hypothetical protein LIC10296	hypothetical protein			
ref YP_000293.1 YP_000293.1	hypothetical protein LIC10303	hypothetical protein			
ref YP_000294.1 YP_000294.1	hypothetical protein LIC10304	hypothetical protein			
ref YP_000295.1 YP_000295.1	hypothetical protein LIC10305	hypothetical protein			
ref YP_000296.1 YP_000296.1	hypothetical protein LIC10306	hypothetical protein			
ref YP_000298.1 YP_000298.1	hypothetical protein LIC10308	hypothetical protein			
ref YP_000302.1 YP_000302.1	hypothetical protein LIC10312	hypothetical protein			
ref YP_000303.1 YP_000303.1	hypothetical protein LIC10313	hypothetical protein			
ref YP_000309.1 YP_000309.1	hypothetical protein LIC10319	hypothetical protein			
ref YP_000310.1 YP_000310.1	hypothetical protein LIC10320	hypothetical protein			
ref YP_000314.1 YP_000314.1	hypothetical protein LIC10324	hypothetical protein			
ref YP_000318.1 YP_000318.1	hypothetical protein LIC10328	hypothetical protein			
ref YP_000319.1 YP_000319.1	hypothetical protein LIC10329	hypothetical protein			
ref YP_000320.1 YP_000320.1	hypothetical protein LIC10330	hypothetical protein			
ref YP_000324.1 YP_000324.1	hypothetical protein LIC10334	hypothetical protein			
ref YP_000325.1 YP_000325.1	hypothetical protein LIC10335	hypothetical protein			
ref YP_000328.1 YP_000328.1	hypothetical protein LIC10338	hypothetical protein			
ref YP_000331.1 YP_000331.1	hypothetical protein LIC10341	hypothetical protein			
ref YP_000332.1 YP_000332.1	hypothetical protein LIC10342	hypothetical protein			
ref YP_000335.1 YP_000335.1	hypothetical protein LIC10345	hypothetical protein			
ref YP_000341.1 YP_000341.1	hypothetical protein LIC10352	hypothetical protein			
ref YP_000344.1 YP_000344.1	hypothetical protein LIC10355	hypothetical protein			
ref YP_000345.1 YP_000345.1	hypothetical protein LIC10356	hypothetical protein			
ref YP_000351.1 YP_000351.1	hypothetical protein LIC10362	hypothetical protein			
ref YP_000356.1 YP_000356.1	hypothetical protein LIC10369	hypothetical protein			
ref YP_000360.1 YP_000360.1	hypothetical protein LIC10374	hypothetical protein			
ref YP_000365.1 YP_000365.1	hypothetical protein LIC10379	hypothetical protein			
ref YP_000367.1 YP_000367.1	hypothetical protein LIC10381	hypothetical protein			
ref YP_000371.1 YP_000371.1	hypothetical protein LIC10385	hypothetical protein			
ref YP_000374.1 YP_000374.1	hypothetical protein LIC10388	hypothetical protein			
ref YP_000378.1 YP_000378.1	hypothetical protein LIC10392	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000380.1 YP_000380.1	hypothetical protein LIC10394	hypothetical protein			
ref YP_000383.1 YP_000383.1	hypothetical protein LIC10397	hypothetical protein			
ref YP_000386.1 YP_000386.1	hypothetical protein LIC10400	hypothetical protein			
ref YP_000387.1 YP_000387.1	hypothetical protein LIC10401	hypothetical protein			
ref YP_000393.1 YP_000393.1	hypothetical protein LIC10407	hypothetical protein			
ref YP_000394.1 YP_000394.1	hypothetical protein LIC10408	hypothetical protein			
ref YP_000396.1 YP_000396.1	hypothetical protein LIC10410	hypothetical protein			
ref YP_000398.1 YP_000398.1	hypothetical protein LIC10412	hypothetical protein			
ref YP_000402.1 YP_000402.1	hypothetical protein LIC10416	hypothetical protein			
ref YP_000403.1 YP_000403.1	hypothetical protein LIC10417	hypothetical protein			
ref YP_000404.1 YP_000404.1	hypothetical protein LIC10418	hypothetical protein			
ref YP_000408.1 YP_000408.1	hypothetical protein LIC10422	hypothetical protein			
ref YP_000409.1 YP_000409.1	hypothetical protein LIC10423	hypothetical protein			
ref YP_000410.1 YP_000410.1	hypothetical protein LIC10424	hypothetical protein			
ref YP_000420.1 YP_000420.1	hypothetical protein LIC10435	hypothetical protein			
ref YP_000421.1 YP_000421.1	hypothetical protein LIC10436	hypothetical protein			
ref YP_000423.1 YP_000423.1	hypothetical protein LIC10438	hypothetical protein			
ref YP_000427.1 YP_000427.1	hypothetical protein LIC10442	hypothetical protein			
ref YP_000433.1 YP_000433.1	hypothetical protein LIC10449	hypothetical protein			
ref YP_000437.1 YP_000437.1	hypothetical protein LIC10453	hypothetical protein			
ref YP_000438.1 YP_000438.1	hypothetical protein LIC10454	hypothetical protein			
ref YP_000439.1 YP_000439.1	hypothetical protein LIC10455	hypothetical protein			
ref YP_000440.1 YP_000440.1	hypothetical protein LIC10456	hypothetical protein			
ref YP_000441.1 YP_000441.1	hypothetical protein LIC10457	hypothetical protein			
ref YP_000446.1 YP_000446.1	hypothetical protein LIC10462	hypothetical protein			
ref YP_000451.1 YP_000451.1	hypothetical protein LIC10467	hypothetical protein			
ref YP_000452.1 YP_000452.1	hypothetical protein LIC10468	hypothetical protein			
ref YP_000453.1 YP_000453.1	hypothetical protein LIC10469	hypothetical protein			
ref YP_000455.1 YP_000455.1	hypothetical protein LIC10471	hypothetical protein			
ref YP_000458.1 YP_000458.1	hypothetical protein LIC10474	hypothetical protein			
ref YP_000460.1 YP_000460.1	hypothetical protein LIC10476	hypothetical protein			
ref YP_000461.1 YP_000461.1	hypothetical protein LIC10477	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000463.1 YP_000463.1	hypothetical protein LIC10479	hypothetical protein			
ref YP_000464.1 YP_000464.1	hypothetical protein LIC10480	hypothetical protein			
ref YP_000465.1 YP_000465.1	hypothetical protein LIC10481	hypothetical protein			
ref YP_000471.1 YP_000471.1	hypothetical protein LIC10487	hypothetical protein			
ref YP_000473.1 YP_000473.1	hypothetical protein LIC10489	hypothetical protein			
ref YP_000477.1 YP_000477.1	hypothetical protein LIC10493	hypothetical protein			
ref YP_000480.1 YP_000480.1	hypothetical protein LIC10496	hypothetical protein			
ref YP_000484.1 YP_000484.1	hypothetical protein LIC10500	hypothetical protein			
ref YP_000488.1 YP_000488.1	hypothetical protein LIC10504	hypothetical protein			
ref YP_000490.1 YP_000490.1	hypothetical protein LIC10506	hypothetical protein			
ref YP_000495.1 YP_000495.1	hypothetical protein LIC10511	hypothetical protein			
ref YP_000498.1 YP_000498.1	hypothetical protein LIC10514	hypothetical protein			
ref YP_000499.1 YP_000499.1	hypothetical protein LIC10515	hypothetical protein			
ref YP_000500.1 YP_000500.1	hypothetical protein LIC10516	hypothetical protein			
ref YP_000514.1 YP_000514.1	hypothetical protein LIC10530	hypothetical protein			
ref YP_000519.1 YP_000519.1	hypothetical protein LIC10535	hypothetical protein			
ref YP_000520.1 YP_000520.1	hypothetical protein LIC10536	hypothetical protein			
ref YP_000523.1 YP_000523.1	hypothetical protein LIC10539	hypothetical protein			
ref YP_000524.1 YP_000524.1	hypothetical protein LIC10540	hypothetical protein			
ref YP_000526.1 YP_000526.1	hypothetical protein LIC10542	hypothetical protein			
ref YP_000539.1 YP_000539.1	hypothetical protein LIC10555	hypothetical protein			
ref YP_000540.1 YP_000540.1	hypothetical protein LIC10556	hypothetical protein			
ref YP_000544.1 YP_000544.1	hypothetical protein LIC10560	hypothetical protein			
ref YP_000550.1 YP_000550.1	hypothetical protein LIC10566	hypothetical protein			
ref YP_000551.1 YP_000551.1	hypothetical protein LIC10567	hypothetical protein			
ref YP_000553.1 YP_000553.1	hypothetical protein LIC10569	hypothetical protein			
ref YP_000556.1 YP_000556.1	hypothetical protein LIC10572	hypothetical protein			
ref YP_000559.1 YP_000559.1	hypothetical protein LIC10575	hypothetical protein			
ref YP_000561.1 YP_000561.1	hypothetical protein LIC10577	hypothetical protein			
ref YP_000568.1 YP_000568.1	hypothetical protein LIC10584	hypothetical protein			
ref YP_000569.1 YP_000569.1	hypothetical protein LIC10585	hypothetical protein			
ref YP_000574.1 YP_000574.1	hypothetical protein LIC10590	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000579.1 YP_000579.1	hypothetical protein LIC10595	hypothetical protein			
ref YP_000581.1 YP_000581.1	hypothetical protein LIC10597	hypothetical protein			
ref YP_000593.1 YP_000593.1	hypothetical protein LIC10609	hypothetical protein			
ref YP_000595.1 YP_000595.1	hypothetical protein LIC10611	hypothetical protein			
ref YP_000597.1 YP_000597.1	hypothetical protein LIC10613	hypothetical protein			
ref YP_000598.1 YP_000598.1	hypothetical protein LIC10614	hypothetical protein			
ref YP_000603.1 YP_000603.1	hypothetical protein LIC10619	hypothetical protein			
ref YP_000611.1 YP_000611.1	hypothetical protein LIC10627	hypothetical protein			
ref YP_000614.1 YP_000614.1	hypothetical protein LIC10630	hypothetical protein			
ref YP_000622.1 YP_000622.1	hypothetical protein LIC10638	hypothetical protein			
ref YP_000623.1 YP_000623.1	hypothetical protein LIC10639	hypothetical protein			
ref YP_000626.1 YP_000626.1	hypothetical protein LIC10642	hypothetical protein			
ref YP_000631.1 YP_000631.1	hypothetical protein LIC10647	hypothetical protein			
ref YP_000633.1 YP_000633.1	hypothetical protein LIC10649	hypothetical protein			
ref YP_000634.1 YP_000634.1	hypothetical protein LIC10650	hypothetical protein			
ref YP_000635.1 YP_000635.1	hypothetical protein LIC10651	hypothetical protein			
ref YP_000637.1 YP_000637.1	hypothetical protein LIC10653	hypothetical protein			
ref YP_000643.1 YP_000643.1	hypothetical protein LIC10659	hypothetical protein			
ref YP_000644.1 YP_000644.1	hypothetical protein LIC10660	hypothetical protein			
ref YP_000653.1 YP_000653.1	hypothetical protein LIC10669	hypothetical protein			
ref YP_000658.1 YP_000658.1	hypothetical protein LIC10674	hypothetical protein			
ref YP_000671.1 YP_000671.1	hypothetical protein LIC10687	hypothetical protein			
ref YP_000672.1 YP_000672.1	hypothetical protein LIC10688	hypothetical protein			
ref YP_000675.1 YP_000675.1	hypothetical protein LIC10691	hypothetical protein			
ref YP_000677.1 YP_000677.1	hypothetical protein LIC10693	hypothetical protein			
ref YP_000678.1 YP_000678.1	hypothetical protein LIC10694	hypothetical protein			
ref YP_000680.1 YP_000680.1	hypothetical protein LIC10696	hypothetical protein			
ref YP_000681.1 YP_000681.1	hypothetical protein LIC10697	hypothetical protein			
ref YP_000685.1 YP_000685.1	hypothetical protein LIC10701	hypothetical protein			
ref YP_000686.1 YP_000686.1	hypothetical protein LIC10702	hypothetical protein			
ref YP_000687.1 YP_000687.1	hypothetical protein LIC10703	hypothetical protein			
ref YP_000691.1 YP_000691.1	hypothetical protein LIC10707	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000692.1 YP_000692.1	hypothetical protein LIC10708	hypothetical protein			
ref YP_000693.1 YP_000693.1	hypothetical protein LIC10709	hypothetical protein			
ref YP_000700.1 YP_000700.1	hypothetical protein LIC10716	hypothetical protein			
ref YP_000704.1 YP_000704.1	hypothetical protein LIC10720	hypothetical protein			
ref YP_000709.1 YP_000709.1	hypothetical protein LIC10725	hypothetical protein			
ref YP_000711.1 YP_000711.1	hypothetical protein LIC10729	hypothetical protein			
ref YP_000726.1 YP_000726.1	hypothetical protein LIC10744	hypothetical protein			
ref YP_000737.1 YP_000737.1	hypothetical protein LIC10757	hypothetical protein			
ref YP_000738.1 YP_000738.1	hypothetical protein LIC10758	hypothetical protein			
ref YP_000756.1 YP_000756.1	hypothetical protein LIC10776	hypothetical protein			
ref YP_000757.1 YP_000757.1	hypothetical protein LIC10777	hypothetical protein			
ref YP_000758.1 YP_000758.1	hypothetical protein LIC10778	hypothetical protein			
ref YP_000759.1 YP_000759.1	hypothetical protein LIC10779	hypothetical protein			
ref YP_000762.1 YP_000762.1	hypothetical protein LIC10782	hypothetical protein			
ref YP_000765.1 YP_000765.1	hypothetical protein LIC10786	hypothetical protein			
ref YP_000773.1 YP_000773.1	hypothetical protein LIC10796	hypothetical protein			
ref YP_000775.1 YP_000775.1	hypothetical protein LIC10798	hypothetical protein			
ref YP_000782.1 YP_000782.1	hypothetical protein LIC10805	hypothetical protein			
ref YP_000787.1 YP_000787.1	hypothetical protein LIC10810	hypothetical protein			
ref YP_000788.1 YP_000788.1	hypothetical protein LIC10811	hypothetical protein			
ref YP_000793.1 YP_000793.1	hypothetical protein LIC10816	hypothetical protein			
ref YP_000795.1 YP_000795.1	hypothetical protein LIC10818	hypothetical protein			
ref YP_000796.1 YP_000796.1	hypothetical protein LIC10819	hypothetical protein			
ref YP_000797.1 YP_000797.1	hypothetical protein LIC10820	hypothetical protein			
ref YP_000799.1 YP_000799.1	hypothetical protein LIC10822	hypothetical protein			
ref YP_000800.1 YP_000800.1	hypothetical protein LIC10823	hypothetical protein			
ref YP_000804.1 YP_000804.1	hypothetical protein LIC10827	hypothetical protein			
ref YP_000806.1 YP_000806.1	hypothetical protein LIC10829	hypothetical protein			
ref YP_000808.1 YP_000808.1	hypothetical protein LIC10831	hypothetical protein			
ref YP_000809.1 YP_000809.1	hypothetical protein LIC10832	hypothetical protein			
ref YP_000810.1 YP_000810.1	hypothetical protein LIC10833	hypothetical protein			
ref YP_000816.1 YP_000816.1	hypothetical protein LIC10839	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000817.1 YP_000817.1	hypothetical protein LIC10840	hypothetical protein			
ref YP_000826.1 YP_000826.1	hypothetical protein LIC10849	hypothetical protein			
ref YP_000838.1 YP_000838.1	hypothetical protein LIC10861	hypothetical protein			
ref YP_000841.1 YP_000841.1	hypothetical protein LIC10864	hypothetical protein			
ref YP_000842.1 YP_000842.1	hypothetical protein LIC10865	hypothetical protein			
ref YP_000843.1 YP_000843.1	hypothetical protein LIC10866	hypothetical protein			
ref YP_000844.1 YP_000844.1	hypothetical protein LIC10867	hypothetical protein			
ref YP_000845.1 YP_000845.1	hypothetical protein LIC10868	hypothetical protein			
ref YP_000846.1 YP_000846.1	hypothetical protein LIC10869	hypothetical protein			
ref YP_000847.1 YP_000847.1	hypothetical protein LIC10870	hypothetical protein			
ref YP_000848.1 YP_000848.1	hypothetical protein LIC10871	hypothetical protein			
ref YP_000849.1 YP_000849.1	hypothetical protein LIC10872	hypothetical protein			
ref YP_000857.1 YP_000857.1	hypothetical protein LIC10880	hypothetical protein			
ref YP_000859.1 YP_000859.1	hypothetical protein LIC10882	hypothetical protein			
ref YP_000870.1 YP_000870.1	hypothetical protein LIC10893	hypothetical protein			
ref YP_000871.1 YP_000871.1	hypothetical protein LIC10894	hypothetical protein			
ref YP_000872.1 YP_000872.1	hypothetical protein LIC10895	hypothetical protein			
ref YP_000874.1 YP_000874.1	hypothetical protein LIC10897	hypothetical protein			
ref YP_000876.1 YP_000876.1	hypothetical protein LIC10899	hypothetical protein			
ref YP_000880.1 YP_000880.1	hypothetical protein LIC10903	hypothetical protein			
ref YP_000882.1 YP_000882.1	hypothetical protein LIC10905	hypothetical protein			
ref YP_000883.1 YP_000883.1	hypothetical protein LIC10906	hypothetical protein			
ref YP_000884.1 YP_000884.1	hypothetical protein LIC10907	hypothetical protein			
ref YP_000885.1 YP_000885.1	hypothetical protein LIC10908	hypothetical protein			
ref YP_000886.1 YP_000886.1	hypothetical protein LIC10909	hypothetical protein			
ref YP_000889.1 YP_000889.1	hypothetical protein LIC10914	hypothetical protein			
ref YP_000892.1 YP_000892.1	hypothetical protein LIC10917	hypothetical protein			
ref YP_000896.1 YP_000896.1	hypothetical protein LIC10921	hypothetical protein			
ref YP_000899.1 YP_000899.1	hypothetical protein LIC10924	hypothetical protein			
ref YP_000901.1 YP_000901.1	hypothetical protein LIC10926	hypothetical protein			
ref YP_000907.1 YP_000907.1	hypothetical protein LIC10933	hypothetical protein			
ref YP_000908.1 YP_000908.1	hypothetical protein LIC10934	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_000911.1 YP_000911.1	hypothetical protein LIC10937	hypothetical protein			
ref YP_000913.1 YP_000913.1	hypothetical protein LIC10939	hypothetical protein			
ref YP_000914.1 YP_000914.1	hypothetical protein LIC10940	hypothetical protein			
ref YP_000915.1 YP_000915.1	hypothetical protein LIC10941	hypothetical protein			
ref YP_000916.1 YP_000916.1	hypothetical protein LIC10942	hypothetical protein			
ref YP_000917.1 YP_000917.1	hypothetical protein LIC10943	hypothetical protein			
ref YP_000918.1 YP_000918.1	hypothetical protein LIC10944	hypothetical protein			
ref YP_000919.1 YP_000919.1	hypothetical protein LIC10945	hypothetical protein			
ref YP_000920.1 YP_000920.1	hypothetical protein LIC10946	hypothetical protein			
ref YP_000925.1 YP_000925.1	hypothetical protein LIC10951	hypothetical protein			
ref YP_000927.1 YP_000927.1	hypothetical protein LIC10953	hypothetical protein			
ref YP_000928.1 YP_000928.1	hypothetical protein LIC10954	hypothetical protein			
ref YP_000930.1 YP_000930.1	hypothetical protein LIC10956	hypothetical protein			
ref YP_000931.1 YP_000931.1	hypothetical protein LIC10957	hypothetical protein			
ref YP_000934.1 YP_000934.1	hypothetical protein LIC10960	hypothetical protein			
ref YP_000936.1 YP_000936.1	hypothetical protein LIC10962	hypothetical protein			
ref YP_000937.1 YP_000937.1	hypothetical protein LIC10963	hypothetical protein			
ref YP_000939.1 YP_000939.1	hypothetical protein LIC10965	hypothetical protein			
ref YP_000945.1 YP_000945.1	hypothetical protein LIC10971	hypothetical protein			
ref YP_000953.1 YP_000953.1	hypothetical protein LIC10979	hypothetical protein			
ref YP_000969.1 YP_000969.1	hypothetical protein LIC10995	hypothetical protein			
ref YP_000971.1 YP_000971.1	hypothetical protein LIC10997	hypothetical protein			
ref YP_000987.1 YP_000987.1	hypothetical protein LIC11015	hypothetical protein			
ref YP_000992.1 YP_000992.1	hypothetical protein LIC11020	hypothetical protein			
ref YP_000999.1 YP_000999.1	hypothetical protein LIC11029	hypothetical protein			
ref YP_001003.1 YP_001003.1	hypothetical protein LIC11033	hypothetical protein			
ref YP_001004.1 YP_001004.1	hypothetical protein LIC11034	hypothetical protein			
ref YP_001011.1 YP_001011.1	hypothetical protein LIC11041	hypothetical protein			
ref YP_001012.1 YP_001012.1	hypothetical protein LIC11042	hypothetical protein			
ref YP_001013.1 YP_001013.1	hypothetical protein LIC11043	hypothetical protein			
ref YP_001014.1 YP_001014.1	hypothetical protein LIC11044	hypothetical protein			
ref YP_001017.1 YP_001017.1	hypothetical protein LIC11047	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001019.1 YP_001019.1	hypothetical protein LIC11049	hypothetical protein			
ref YP_001022.1 YP_001022.1	hypothetical protein LIC11052	hypothetical protein			
ref YP_001023.1 YP_001023.1	hypothetical protein LIC11053	hypothetical protein			
ref YP_001025.1 YP_001025.1	hypothetical protein LIC11055	hypothetical protein			
ref YP_001026.1 YP_001026.1	hypothetical protein LIC11056	hypothetical protein			
ref YP_001027.1 YP_001027.1	hypothetical protein LIC11057	hypothetical protein			
ref YP_001039.1 YP_001039.1	hypothetical protein LIC11069	hypothetical protein			
ref YP_001047.1 YP_001047.1	hypothetical protein LIC11077	hypothetical protein			
ref YP_001048.1 YP_001048.1	hypothetical protein LIC11078	hypothetical protein			
ref YP_001053.1 YP_001053.1	hypothetical protein LIC11083	hypothetical protein			
ref YP_001054.1 YP_001054.1	hypothetical protein LIC11084	hypothetical protein			
ref YP_001062.1 YP_001062.1	hypothetical protein LIC11092	hypothetical protein			
ref YP_001064.1 YP_001064.1	hypothetical protein LIC11094	hypothetical protein			
ref YP_001069.1 YP_001069.1	hypothetical protein LIC11099	hypothetical protein			
ref YP_001070.1 YP_001070.1	hypothetical protein LIC11100	hypothetical protein			
ref YP_001072.1 YP_001072.1	hypothetical protein LIC11102	hypothetical protein			
ref YP_001079.1 YP_001079.1	hypothetical protein LIC11109	hypothetical protein			
ref YP_001084.1 YP_001084.1	hypothetical protein LIC11114	hypothetical protein			
ref YP_001086.1 YP_001086.1	hypothetical protein LIC11116	hypothetical protein			
ref YP_001088.1 YP_001088.1	hypothetical protein LIC11118	hypothetical protein			
ref YP_001089.1 YP_001089.1	hypothetical protein LIC11119	hypothetical protein			
ref YP_001090.1 YP_001090.1	hypothetical protein LIC11120	hypothetical protein			
ref YP_001091.1 YP_001091.1	hypothetical protein LIC11121	hypothetical protein			
ref YP_001103.1 YP_001103.1	hypothetical protein LIC11133	hypothetical protein			
ref YP_001108.1 YP_001108.1	hypothetical protein LIC11138	hypothetical protein			
ref YP_001109.1 YP_001109.1	hypothetical protein LIC11139	hypothetical protein			
ref YP_001123.1 YP_001123.1	hypothetical protein LIC11153	hypothetical protein			
ref YP_001127.1 YP_001127.1	hypothetical protein LIC11157	hypothetical protein			
ref YP_001130.1 YP_001130.1	hypothetical protein LIC11160	hypothetical protein			
ref YP_001134.1 YP_001134.1	hypothetical protein LIC11164	hypothetical protein			
ref YP_001138.1 YP_001138.1	hypothetical protein LIC11168	hypothetical protein			
ref YP_001139.1 YP_001139.1	hypothetical protein LIC11169	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001140.1 YP_001140.1	hypothetical protein LIC11170	hypothetical protein			
ref YP_001144.1 YP_001144.1	hypothetical protein LIC11174	hypothetical protein			
ref YP_001148.1 YP_001148.1	hypothetical protein LIC11178	hypothetical protein			
ref YP_001160.1 YP_001160.1	hypothetical protein LIC11190	hypothetical protein			
ref YP_001174.1 YP_001174.1	hypothetical protein LIC11204	hypothetical protein			
ref YP_001176.1 YP_001176.1	hypothetical protein LIC11206	hypothetical protein			
ref YP_001183.1 YP_001183.1	hypothetical protein LIC11214	hypothetical protein			
ref YP_001184.1 YP_001184.1	hypothetical protein LIC11215	hypothetical protein			
ref YP_001186.1 YP_001186.1	hypothetical protein LIC11217	hypothetical protein			
ref YP_001187.1 YP_001187.1	hypothetical protein LIC11218	hypothetical protein			
ref YP_001191.1 YP_001191.1	hypothetical protein LIC11222	hypothetical protein			
ref YP_001192.1 YP_001192.1	hypothetical protein LIC11223	hypothetical protein			
ref YP_001194.1 YP_001194.1	hypothetical protein LIC11225	hypothetical protein			
ref YP_001195.1 YP_001195.1	hypothetical protein LIC11226	hypothetical protein			
ref YP_001197.1 YP_001197.1	hypothetical protein LIC11228	hypothetical protein			
ref YP_001203.1 YP_001203.1	hypothetical protein LIC11234	hypothetical protein			
ref YP_001204.1 YP_001204.1	hypothetical protein LIC11235	hypothetical protein			
ref YP_001205.1 YP_001205.1	hypothetical protein LIC11236	hypothetical protein			
ref YP_001214.1 YP_001214.1	hypothetical protein LIC11245	hypothetical protein			
ref YP_001218.1 YP_001218.1	hypothetical protein LIC11249	hypothetical protein			
ref YP_001220.1 YP_001220.1	hypothetical protein LIC11251	hypothetical protein			
ref YP_001222.1 YP_001222.1	hypothetical protein LIC11253	hypothetical protein			
ref YP_001224.1 YP_001224.1	hypothetical protein LIC11255	hypothetical protein			
ref YP_001225.1 YP_001225.1	hypothetical protein LIC11256	hypothetical protein			
ref YP_001234.1 YP_001234.1	hypothetical protein LIC11265	hypothetical protein			
ref YP_001238.1 YP_001238.1	hypothetical protein LIC11269	hypothetical protein			
ref YP_001243.1 YP_001243.1	hypothetical protein LIC11275	hypothetical protein			
ref YP_001247.1 YP_001247.1	hypothetical protein LIC11279	hypothetical protein			
ref YP_001250.1 YP_001250.1	hypothetical protein LIC11282	hypothetical protein			
ref YP_001254.1 YP_001254.1	hypothetical protein LIC11286	hypothetical protein			
ref YP_001255.1 YP_001255.1	hypothetical protein LIC11288	hypothetical protein			
ref YP_001259.1 YP_001259.1	hypothetical protein LIC11293	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001267.1 YP_001267.1	hypothetical protein LIC11301	hypothetical protein			
ref YP_001272.1 YP_001272.1	hypothetical protein LIC11306	hypothetical protein			
ref YP_001273.1 YP_001273.1	hypothetical protein LIC11307	hypothetical protein			
ref YP_001280.1 YP_001280.1	hypothetical protein LIC11314	hypothetical protein			
ref YP_001281.1 YP_001281.1	hypothetical protein LIC11315	hypothetical protein			
ref YP_001282.1 YP_001282.1	hypothetical protein LIC11316	hypothetical protein			
ref YP_001285.1 YP_001285.1	hypothetical protein LIC11319	hypothetical protein			
ref YP_001287.1 YP_001287.1	hypothetical protein LIC11321	hypothetical protein			
ref YP_001288.1 YP_001288.1	hypothetical protein LIC11322	hypothetical protein			
ref YP_001297.1 YP_001297.1	hypothetical protein LIC11333	hypothetical protein			
ref YP_001301.1 YP_001301.1	hypothetical protein LIC11337	hypothetical protein			
ref YP_001304.1 YP_001304.1	hypothetical protein LIC11340	hypothetical protein			
ref YP_001305.1 YP_001305.1	hypothetical protein LIC11341	hypothetical protein			
ref YP_001306.1 YP_001306.1	hypothetical protein LIC11342	hypothetical protein			
ref YP_001312.1 YP_001312.1	hypothetical protein LIC11348	hypothetical protein			
ref YP_001313.1 YP_001313.1	hypothetical protein LIC11349	hypothetical protein			
ref YP_001315.1 YP_001315.1	hypothetical protein LIC11351	hypothetical protein			
ref YP_001322.1 YP_001322.1	hypothetical protein LIC11358	hypothetical protein			
ref YP_001331.1 YP_001331.1	hypothetical protein LIC11367	hypothetical protein			
ref YP_001343.1 YP_001343.1	hypothetical protein LIC11379	hypothetical protein			
ref YP_001346.1 YP_001346.1	hypothetical protein LIC11382	hypothetical protein			
ref YP_001349.1 YP_001349.1	hypothetical protein LIC11386	hypothetical protein			
ref YP_001350.1 YP_001350.1	hypothetical protein LIC11387	hypothetical protein			
ref YP_001358.1 YP_001358.1	hypothetical protein LIC11395	hypothetical protein			
ref YP_001360.1 YP_001360.1	hypothetical protein LIC11397	hypothetical protein			
ref YP_001374.1 YP_001374.1	hypothetical protein LIC11411	hypothetical protein			
ref YP_001381.1 YP_001381.1	hypothetical protein LIC11419	hypothetical protein			
ref YP_001391.1 YP_001391.1	hypothetical protein LIC11429	hypothetical protein			
ref YP_001425.1 YP_001425.1	hypothetical protein LIC11464	hypothetical protein			
ref YP_001427.1 YP_001427.1	hypothetical protein LIC11466	hypothetical protein			
ref YP_001437.1 YP_001437.1	hypothetical protein LIC11476	hypothetical protein			
ref YP_001463.1 YP_001463.1	hypothetical protein LIC11502	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001472.1 YP_001472.1	hypothetical protein LIC11512	hypothetical protein			
ref YP_001489.1 YP_001489.1	hypothetical protein LIC11530	hypothetical protein			
ref YP_001492.1 YP_001492.1	hypothetical protein LIC11533	hypothetical protein			
ref YP_001501.1 YP_001501.1	hypothetical protein LIC11542	hypothetical protein			
ref YP_001520.1 YP_001520.1	hypothetical protein LIC11561	hypothetical protein			
ref YP_001533.1 YP_001533.1	hypothetical protein LIC11574	hypothetical protein			
ref YP_001534.1 YP_001534.1	hypothetical protein LIC11575	hypothetical protein			
ref YP_001535.1 YP_001535.1	hypothetical protein LIC11576	hypothetical protein			
ref YP_001540.1 YP_001540.1	hypothetical protein LIC11581	hypothetical protein			
ref YP_001541.1 YP_001541.1	hypothetical protein LIC11582	hypothetical protein			
ref YP_001542.1 YP_001542.1	hypothetical protein LIC11583	hypothetical protein			
ref YP_001547.1 YP_001547.1	hypothetical protein LIC11589	hypothetical protein			
ref YP_001551.1 YP_001551.1	hypothetical protein LIC11593	hypothetical protein			
ref YP_001552.1 YP_001552.1	hypothetical protein LIC11594	hypothetical protein			
ref YP_001561.1 YP_001561.1	hypothetical protein LIC11603	hypothetical protein			
ref YP_001596.1 YP_001596.1	hypothetical protein LIC11638	hypothetical protein			
ref YP_001597.1 YP_001597.1	hypothetical protein LIC11639	hypothetical protein			
ref YP_001598.1 YP_001598.1	hypothetical protein LIC11640	hypothetical protein			
ref YP_001602.1 YP_001602.1	hypothetical protein LIC11644	hypothetical protein			
ref YP_001607.1 YP_001607.1	hypothetical protein LIC11651	hypothetical protein			
ref YP_001620.1 YP_001620.1	hypothetical protein LIC11664	hypothetical protein			
ref YP_001621.1 YP_001621.1	hypothetical protein LIC11665	hypothetical protein			
ref YP_001623.1 YP_001623.1	hypothetical protein LIC11669	hypothetical protein			
ref YP_001633.1 YP_001633.1	hypothetical protein LIC11679	hypothetical protein			
ref YP_001635.1 YP_001635.1	hypothetical protein LIC11683	hypothetical protein			
ref YP_001638.1 YP_001638.1	hypothetical protein LIC11686	hypothetical protein			
ref YP_001640.1 YP_001640.1	hypothetical protein LIC11688	hypothetical protein			
ref YP_001641.1 YP_001641.1	hypothetical protein LIC11689	hypothetical protein			
ref YP_001642.1 YP_001642.1	hypothetical protein LIC11690	hypothetical protein			
ref YP_001644.1 YP_001644.1	hypothetical protein LIC11692	hypothetical protein			
ref YP_001652.1 YP_001652.1	hypothetical protein LIC11700	hypothetical protein			
ref YP_001657.1 YP_001657.1	hypothetical protein LIC11705	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001667.1 YP_001667.1	hypothetical protein LIC11715	hypothetical protein			
ref YP_001674.1 YP_001674.1	hypothetical protein LIC11722	hypothetical protein			
ref YP_001676.1 YP_001676.1	hypothetical protein LIC11724	hypothetical protein			
ref YP_001679.1 YP_001679.1	hypothetical protein LIC11727	hypothetical protein			
ref YP_001682.1 YP_001682.1	hypothetical protein LIC11730	hypothetical protein			
ref YP_001685.1 YP_001685.1	hypothetical protein LIC11733	hypothetical protein			
ref YP_001686.1 YP_001686.1	hypothetical protein LIC11734	hypothetical protein			
ref YP_001696.1 YP_001696.1	hypothetical protein LIC11744	hypothetical protein			
ref YP_001707.1 YP_001707.1	hypothetical protein LIC11755	hypothetical protein			
ref YP_001713.1 YP_001713.1	hypothetical protein LIC11761	hypothetical protein			
ref YP_001714.1 YP_001714.1	hypothetical protein LIC11762	hypothetical protein			
ref YP_001715.1 YP_001715.1	hypothetical protein LIC11763	hypothetical protein			
ref YP_001723.1 YP_001723.1	hypothetical protein LIC11771	hypothetical protein			
ref YP_001724.1 YP_001724.1	hypothetical protein LIC11772	hypothetical protein			
ref YP_001735.1 YP_001735.1	hypothetical protein LIC11783	hypothetical protein			
ref YP_001737.1 YP_001737.1	hypothetical protein LIC11785	hypothetical protein			
ref YP_001747.1 YP_001747.1	hypothetical protein LIC11795	hypothetical protein			
ref YP_001750.1 YP_001750.1	hypothetical protein LIC11798	hypothetical protein			
ref YP_001758.1 YP_001758.1	hypothetical protein LIC11807	hypothetical protein			
ref YP_001769.1 YP_001769.1	hypothetical protein LIC11818	hypothetical protein			
ref YP_001779.1 YP_001779.1	hypothetical protein LIC11830	hypothetical protein			
ref YP_001782.1 YP_001782.1	hypothetical protein LIC11833	hypothetical protein			
ref YP_001791.1 YP_001791.1	hypothetical protein LIC11842	hypothetical protein			
ref YP_001792.1 YP_001792.1	hypothetical protein LIC11843	hypothetical protein			
ref YP_001799.1 YP_001799.1	hypothetical protein LIC11850	hypothetical protein			
ref YP_001805.1 YP_001805.1	hypothetical protein LIC11856	hypothetical protein			
ref YP_001811.1 YP_001811.1	hypothetical protein LIC11862	hypothetical protein			
ref YP_001817.1 YP_001817.1	hypothetical protein LIC11868	hypothetical protein			
ref YP_001826.1 YP_001826.1	hypothetical protein LIC11877	hypothetical protein			
ref YP_001827.1 YP_001827.1	hypothetical protein LIC11878	hypothetical protein			
ref YP_001840.1 YP_001840.1	hypothetical protein LIC11891	hypothetical protein			
ref YP_001841.1 YP_001841.1	hypothetical protein LIC11892	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001843.1 YP_001843.1	hypothetical protein LIC11894	hypothetical protein			
ref YP_001849.1 YP_001849.1	hypothetical protein LIC11901	hypothetical protein			
ref YP_001850.1 YP_001850.1	hypothetical protein LIC11902	hypothetical protein			
ref YP_001854.1 YP_001854.1	hypothetical protein LIC11908	hypothetical protein			
ref YP_001868.1 YP_001868.1	hypothetical protein LIC11922	hypothetical protein			
ref YP_001871.1 YP_001871.1	hypothetical protein LIC11925	hypothetical protein			
ref YP_001877.1 YP_001877.1	hypothetical protein LIC11931	hypothetical protein			
ref YP_001878.1 YP_001878.1	hypothetical protein LIC11933	hypothetical protein			
ref YP_001881.1 YP_001881.1	hypothetical protein LIC11936	hypothetical protein			
ref YP_001884.1 YP_001884.1	hypothetical protein LIC11939	hypothetical protein			
ref YP_001887.1 YP_001887.1	hypothetical protein LIC11942	hypothetical protein			
ref YP_001894.1 YP_001894.1	hypothetical protein LIC11949	hypothetical protein			
ref YP_001897.1 YP_001897.1	hypothetical protein LIC11952	hypothetical protein			
ref YP_001898.1 YP_001898.1	hypothetical protein LIC11953	hypothetical protein			
ref YP_001901.1 YP_001901.1	hypothetical protein LIC11956	hypothetical protein			
ref YP_001906.1 YP_001906.1	hypothetical protein LIC11964	hypothetical protein			
ref YP_001907.1 YP_001907.1	hypothetical protein LIC11965	hypothetical protein			
ref YP_001909.1 YP_001909.1	hypothetical protein LIC11969	hypothetical protein			
ref YP_001923.1 YP_001923.1	hypothetical protein LIC11984	hypothetical protein			
ref YP_001925.1 YP_001925.1	hypothetical protein LIC11986	hypothetical protein			
ref YP_001926.1 YP_001926.1	hypothetical protein LIC11987	hypothetical protein			
ref YP_001933.1 YP_001933.1	hypothetical protein LIC11994	hypothetical protein			
ref YP_001934.1 YP_001934.1	hypothetical protein LIC11995	hypothetical protein			
ref YP_001935.1 YP_001935.1	hypothetical protein LIC11996	hypothetical protein			
ref YP_001936.1 YP_001936.1	hypothetical protein LIC11997	hypothetical protein			
ref YP_001938.1 YP_001938.1	hypothetical protein LIC11999	hypothetical protein			
ref YP_001943.1 YP_001943.1	hypothetical protein LIC12004	hypothetical protein			
ref YP_001945.1 YP_001945.1	hypothetical protein LIC12006	hypothetical protein			
ref YP_001946.1 YP_001946.1	hypothetical protein LIC12007	hypothetical protein			
ref YP_001950.1 YP_001950.1	hypothetical protein LIC12011	hypothetical protein			
ref YP_001952.1 YP_001952.1	hypothetical protein LIC12013	hypothetical protein			
ref YP_001959.1 YP_001959.1	hypothetical protein LIC12021	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_001961.1 YP_001961.1	hypothetical protein LIC12023	hypothetical protein			
ref YP_001974.1 YP_001974.1	hypothetical protein LIC12036	hypothetical protein			
ref YP_001977.1 YP_001977.1	hypothetical protein LIC12042	hypothetical protein			
ref YP_001978.1 YP_001978.1	hypothetical protein LIC12043	hypothetical protein			
ref YP_001979.1 YP_001979.1	hypothetical protein LIC12044	hypothetical protein			
ref YP_001980.1 YP_001980.1	hypothetical protein LIC12045	hypothetical protein			
ref YP_001983.1 YP_001983.1	hypothetical protein LIC12048	hypothetical protein			
ref YP_001984.1 YP_001984.1	hypothetical protein LIC12049	hypothetical protein			
ref YP_001985.1 YP_001985.1	hypothetical protein LIC12050	hypothetical protein			
ref YP_001986.1 YP_001986.1	hypothetical protein LIC12051	hypothetical protein			
ref YP_001987.1 YP_001987.1	hypothetical protein LIC12052	hypothetical protein			
ref YP_001988.1 YP_001988.1	hypothetical protein LIC12053	hypothetical protein			
ref YP_001989.1 YP_001989.1	hypothetical protein LIC12054	hypothetical protein			
ref YP_001990.1 YP_001990.1	hypothetical protein LIC12055	hypothetical protein			
ref YP_002010.1 YP_002010.1	hypothetical protein LIC12076	hypothetical protein			
ref YP_002011.1 YP_002011.1	hypothetical protein LIC12077	hypothetical protein			
ref YP_002015.1 YP_002015.1	hypothetical protein LIC12081	hypothetical protein			
ref YP_002017.1 YP_002017.1	hypothetical protein LIC12083	hypothetical protein			
ref YP_002023.1 YP_002023.1	hypothetical protein LIC12089	hypothetical protein			
ref YP_002026.1 YP_002026.1	hypothetical protein LIC12092	hypothetical protein			
ref YP_002027.1 YP_002027.1	hypothetical protein LIC12093	hypothetical protein			
ref YP_002033.1 YP_002033.1	hypothetical protein LIC12099	hypothetical protein			
ref YP_002037.1 YP_002037.1	hypothetical protein LIC12103	hypothetical protein			
ref YP_002050.1 YP_002050.1	hypothetical protein LIC12116	hypothetical protein			
ref YP_002054.1 YP_002054.1	hypothetical protein LIC12120	hypothetical protein			
ref YP_002070.1 YP_002070.1	hypothetical protein LIC12136	hypothetical protein			
ref YP_002081.1 YP_002081.1	hypothetical protein LIC12147	hypothetical protein			
ref YP_002094.1 YP_002094.1	hypothetical protein LIC12159	hypothetical protein			
ref YP_002095.1 YP_002095.1	hypothetical protein LIC12160	hypothetical protein			
ref YP_002147.1 YP_002147.1	hypothetical protein LIC12212	hypothetical protein			
ref YP_002151.1 YP_002151.1	hypothetical protein LIC12216	hypothetical protein			
ref YP_002154.1 YP_002154.1	hypothetical protein LIC12219	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002158.1 YP_002158.1	hypothetical protein LIC12223	hypothetical protein			
ref YP_002161.1 YP_002161.1	hypothetical protein LIC12226	hypothetical protein			
ref YP_002163.1 YP_002163.1	hypothetical protein LIC12228	hypothetical protein			
ref YP_002164.1 YP_002164.1	hypothetical protein LIC12229	hypothetical protein			
ref YP_002169.1 YP_002169.1	hypothetical protein LIC12234	hypothetical protein			
ref YP_002172.1 YP_002172.1	hypothetical protein LIC12237	hypothetical protein			
ref YP_002174.1 YP_002174.1	hypothetical protein LIC12239	hypothetical protein			
ref YP_002176.1 YP_002176.1	hypothetical protein LIC12241	hypothetical protein			
ref YP_002177.1 YP_002177.1	hypothetical protein LIC12242	hypothetical protein			
ref YP_002184.1 YP_002184.1	hypothetical protein LIC12249	hypothetical protein			
ref YP_002190.1 YP_002190.1	hypothetical protein LIC12255	hypothetical protein			
ref YP_002193.1 YP_002193.1	hypothetical protein LIC12258	hypothetical protein			
ref YP_002196.1 YP_002196.1	hypothetical protein LIC12261	hypothetical protein			
ref YP_002199.1 YP_002199.1	hypothetical protein LIC12264	hypothetical protein			
ref YP_002200.1 YP_002200.1	hypothetical protein LIC12265	hypothetical protein			
ref YP_002205.1 YP_002205.1	hypothetical protein LIC12270	hypothetical protein			
ref YP_002206.1 YP_002206.1	hypothetical protein LIC12271	hypothetical protein			
ref YP_002207.1 YP_002207.1	hypothetical protein LIC12272	hypothetical protein			
ref YP_002212.1 YP_002212.1	hypothetical protein LIC12278	hypothetical protein			
ref YP_002215.1 YP_002215.1	hypothetical protein LIC12281	hypothetical protein			
ref YP_002217.1 YP_002217.1	hypothetical protein LIC12283	hypothetical protein			
ref YP_002218.1 YP_002218.1	hypothetical protein LIC12284	hypothetical protein			
ref YP_002233.1 YP_002233.1	hypothetical protein LIC12299	hypothetical protein			
ref YP_002234.1 YP_002234.1	hypothetical protein LIC12300	hypothetical protein			
ref YP_002248.1 YP_002248.1	hypothetical protein LIC12314	hypothetical protein			
ref YP_002270.1 YP_002270.1	hypothetical protein LIC12338	hypothetical protein			
ref YP_002275.1 YP_002275.1	hypothetical protein LIC12343	hypothetical protein			
ref YP_002276.1 YP_002276.1	hypothetical protein LIC12344	hypothetical protein			
ref YP_002277.1 YP_002277.1	hypothetical protein LIC12345	hypothetical protein			
ref YP_002280.1 YP_002280.1	hypothetical protein LIC12348	hypothetical protein			
ref YP_002283.1 YP_002283.1	hypothetical protein LIC12351	hypothetical protein			
ref YP_002284.1 YP_002284.1	hypothetical protein LIC12352	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002288.1 YP_002288.1	hypothetical protein LIC12356	hypothetical protein			
ref YP_002290.1 YP_002290.1	hypothetical protein LIC12358	hypothetical protein			
ref YP_002291.1 YP_002291.1	hypothetical protein LIC12359	hypothetical protein			
ref YP_002295.1 YP_002295.1	hypothetical protein LIC12363	hypothetical protein			
ref YP_002299.1 YP_002299.1	hypothetical protein LIC12367	hypothetical protein			
ref YP_002301.1 YP_002301.1	hypothetical protein LIC12369	hypothetical protein			
ref YP_002302.1 YP_002302.1	hypothetical protein LIC12370	hypothetical protein			
ref YP_002308.1 YP_002308.1	hypothetical protein LIC12376	hypothetical protein			
ref YP_002313.1 YP_002313.1	hypothetical protein LIC12381	hypothetical protein			
ref YP_002315.1 YP_002315.1	hypothetical protein LIC12383	hypothetical protein			
ref YP_002317.1 YP_002317.1	hypothetical protein LIC12385	hypothetical protein			
ref YP_002326.1 YP_002326.1	hypothetical protein LIC12394	hypothetical protein			
ref YP_002327.1 YP_002327.1	hypothetical protein LIC12395	hypothetical protein			
ref YP_002335.1 YP_002335.1	hypothetical protein LIC12403	hypothetical protein			
ref YP_002337.1 YP_002337.1	hypothetical protein LIC12405	hypothetical protein			
ref YP_002338.1 YP_002338.1	hypothetical protein LIC12406	hypothetical protein			
ref YP_002341.1 YP_002341.1	hypothetical protein LIC12410	hypothetical protein			
ref YP_002342.1 YP_002342.1	hypothetical protein LIC12411	hypothetical protein			
ref YP_002351.1 YP_002351.1	hypothetical protein LIC12420	hypothetical protein			
ref YP_002355.1 YP_002355.1	hypothetical protein LIC12424	hypothetical protein			
ref YP_002356.1 YP_002356.1	hypothetical protein LIC12425	hypothetical protein			
ref YP_002357.1 YP_002357.1	hypothetical protein LIC12426	hypothetical protein			
ref YP_002358.1 YP_002358.1	hypothetical protein LIC12427	hypothetical protein			
ref YP_002363.1 YP_002363.1	hypothetical protein LIC12432	hypothetical protein			
ref YP_002365.1 YP_002365.1	hypothetical protein LIC12434	hypothetical protein			
ref YP_002366.1 YP_002366.1	hypothetical protein LIC12435	hypothetical protein			
ref YP_002370.1 YP_002370.1	hypothetical protein LIC12439	hypothetical protein			
ref YP_002371.1 YP_002371.1	hypothetical protein LIC12440	hypothetical protein			
ref YP_002372.1 YP_002372.1	hypothetical protein LIC12441	hypothetical protein			
ref YP_002392.1 YP_002392.1	hypothetical protein LIC12464	hypothetical protein			
ref YP_002401.1 YP_002401.1	hypothetical protein LIC12473	hypothetical protein			
ref YP_002408.1 YP_002408.1	hypothetical protein LIC12480	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002411.1 YP_002411.1	hypothetical protein LIC12483	hypothetical protein			
ref YP_002419.1 YP_002419.1	hypothetical protein LIC12491	hypothetical protein			
ref YP_002425.1 YP_002425.1	hypothetical protein LIC12497	hypothetical protein			
ref YP_002431.1 YP_002431.1	hypothetical protein LIC12503	hypothetical protein			
ref YP_002435.1 YP_002435.1	hypothetical protein LIC12507	hypothetical protein			
ref YP_002439.1 YP_002439.1	hypothetical protein LIC12511	hypothetical protein			
ref YP_002445.1 YP_002445.1	hypothetical protein LIC12517	hypothetical protein			
ref YP_002446.1 YP_002446.1	hypothetical protein LIC12518	hypothetical protein			
ref YP_002447.1 YP_002447.1	hypothetical protein LIC12519	hypothetical protein			
ref YP_002450.1 YP_002450.1	hypothetical protein LIC12522	hypothetical protein			
ref YP_002458.1 YP_002458.1	hypothetical protein LIC12530	hypothetical protein			
ref YP_002460.1 YP_002460.1	hypothetical protein LIC12532	hypothetical protein			
ref YP_002461.1 YP_002461.1	hypothetical protein LIC12533	hypothetical protein			
ref YP_002479.1 YP_002479.1	hypothetical protein LIC12552	hypothetical protein			
ref YP_002482.1 YP_002482.1	hypothetical protein LIC12555	hypothetical protein			
ref YP_002484.1 YP_002484.1	hypothetical protein LIC12557	hypothetical protein			
ref YP_002485.1 YP_002485.1	hypothetical protein LIC12558	hypothetical protein			
ref YP_002486.1 YP_002486.1	hypothetical protein LIC12559	hypothetical protein			
ref YP_002507.1 YP_002507.1	hypothetical protein LIC12583	hypothetical protein			
ref YP_002508.1 YP_002508.1	hypothetical protein LIC12584	hypothetical protein			
ref YP_002509.1 YP_002509.1	hypothetical protein LIC12585	hypothetical protein			
ref YP_002516.1 YP_002516.1	hypothetical protein LIC12592	hypothetical protein			
ref YP_002517.1 YP_002517.1	hypothetical protein LIC12594	hypothetical protein			
ref YP_002520.1 YP_002520.1	hypothetical protein LIC12597	hypothetical protein			
ref YP_002527.1 YP_002527.1	hypothetical protein LIC12604	hypothetical protein			
ref YP_002529.1 YP_002529.1	hypothetical protein LIC12606	hypothetical protein			
ref YP_002534.1 YP_002534.1	hypothetical protein LIC12611	hypothetical protein			
ref YP_002535.1 YP_002535.1	hypothetical protein LIC12612	hypothetical protein			
ref YP_002546.1 YP_002546.1	hypothetical protein LIC12623	hypothetical protein			
ref YP_002547.1 YP_002547.1	hypothetical protein LIC12624	hypothetical protein			
ref YP_002548.1 YP_002548.1	hypothetical protein LIC12625	hypothetical protein			
ref YP_002549.1 YP_002549.1	hypothetical protein LIC12626	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002551.1 YP_002551.1	hypothetical protein LIC12628	hypothetical protein			
ref YP_002553.1 YP_002553.1	hypothetical protein LIC12630	hypothetical protein			
ref YP_002563.1 YP_002563.1	hypothetical protein LIC12640	hypothetical protein			
ref YP_002564.1 YP_002564.1	hypothetical protein LIC12641	hypothetical protein			
ref YP_002565.1 YP_002565.1	hypothetical protein LIC12642	hypothetical protein			
ref YP_002573.1 YP_002573.1	hypothetical protein LIC12650	hypothetical protein			
ref YP_002575.1 YP_002575.1	hypothetical protein LIC12652	hypothetical protein			
ref YP_002579.1 YP_002579.1	hypothetical protein LIC12656	hypothetical protein			
ref YP_002580.1 YP_002580.1	hypothetical protein LIC12657	hypothetical protein			
ref YP_002581.1 YP_002581.1	hypothetical protein LIC12658	hypothetical protein			
ref YP_002584.1 YP_002584.1	hypothetical protein LIC12661	hypothetical protein			
ref YP_002586.1 YP_002586.1	hypothetical protein LIC12664	hypothetical protein			
ref YP_002587.1 YP_002587.1	hypothetical protein LIC12665	hypothetical protein			
ref YP_002594.1 YP_002594.1	hypothetical protein LIC12672	hypothetical protein			
ref YP_002595.1 YP_002595.1	hypothetical protein LIC12673	hypothetical protein			
ref YP_002596.1 YP_002596.1	hypothetical protein LIC12674	hypothetical protein			
ref YP_002600.1 YP_002600.1	hypothetical protein LIC12678	hypothetical protein			
ref YP_002617.1 YP_002617.1	hypothetical protein LIC12696	hypothetical protein			
ref YP_002618.1 YP_002618.1	hypothetical protein LIC12697	hypothetical protein			
ref YP_002619.1 YP_002619.1	hypothetical protein LIC12698	hypothetical protein			
ref YP_002631.1 YP_002631.1	hypothetical protein LIC12710	hypothetical protein			
ref YP_002633.1 YP_002633.1	hypothetical protein LIC12712	hypothetical protein			
ref YP_002634.1 YP_002634.1	hypothetical protein LIC12713	hypothetical protein			
ref YP_002636.1 YP_002636.1	hypothetical protein LIC12715	hypothetical protein			
ref YP_002644.1 YP_002644.1	hypothetical protein LIC12724	hypothetical protein			
ref YP_002648.1 YP_002648.1	hypothetical protein LIC12728	hypothetical protein			
ref YP_002649.1 YP_002649.1	hypothetical protein LIC12729	hypothetical protein			
ref YP_002652.1 YP_002652.1	hypothetical protein LIC12732	hypothetical protein			
ref YP_002655.1 YP_002655.1	hypothetical protein LIC12735	hypothetical protein			
ref YP_002673.1 YP_002673.1	hypothetical protein LIC12753	hypothetical protein			
ref YP_002674.1 YP_002674.1	hypothetical protein LIC12754	hypothetical protein			
ref YP_002683.1 YP_002683.1	hypothetical protein LIC12763	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002687.1 YP_002687.1	hypothetical protein LIC12767	hypothetical protein			
ref YP_002688.1 YP_002688.1	hypothetical protein LIC12769	hypothetical protein			
ref YP_002694.1 YP_002694.1	hypothetical protein LIC12775	hypothetical protein			
ref YP_002696.1 YP_002696.1	hypothetical protein LIC12779	hypothetical protein			
ref YP_002698.1 YP_002698.1	hypothetical protein LIC12781	hypothetical protein			
ref YP_002706.1 YP_002706.1	hypothetical protein LIC12789	hypothetical protein			
ref YP_002707.1 YP_002707.1	hypothetical protein LIC12790	hypothetical protein			
ref YP_002708.1 YP_002708.1	hypothetical protein LIC12791	hypothetical protein			
ref YP_002711.1 YP_002711.1	hypothetical protein LIC12794	hypothetical protein			
ref YP_002714.1 YP_002714.1	hypothetical protein LIC12797	hypothetical protein			
ref YP_002716.1 YP_002716.1	hypothetical protein LIC12799	hypothetical protein			
ref YP_002720.1 YP_002720.1	hypothetical protein LIC12803	hypothetical protein			
ref YP_002721.1 YP_002721.1	hypothetical protein LIC12804	hypothetical protein			
ref YP_002723.1 YP_002723.1	hypothetical protein LIC12806	hypothetical protein			
ref YP_002726.1 YP_002726.1	hypothetical protein LIC12809	hypothetical protein			
ref YP_002727.1 YP_002727.1	hypothetical protein LIC12810	hypothetical protein			
ref YP_002732.1 YP_002732.1	hypothetical protein LIC12815	hypothetical protein			
ref YP_002734.1 YP_002734.1	hypothetical protein LIC12818	hypothetical protein			
ref YP_002735.1 YP_002735.1	hypothetical protein LIC12819	hypothetical protein			
ref YP_002739.1 YP_002739.1	hypothetical protein LIC12823	hypothetical protein			
ref YP_002741.1 YP_002741.1	hypothetical protein LIC12825	hypothetical protein			
ref YP_002742.1 YP_002742.1	hypothetical protein LIC12826	hypothetical protein			
ref YP_002746.1 YP_002746.1	hypothetical protein LIC12830	hypothetical protein			
ref YP_002751.1 YP_002751.1	hypothetical protein LIC12835	hypothetical protein			
ref YP_002753.1 YP_002753.1	hypothetical protein LIC12837	hypothetical protein			
ref YP_002756.1 YP_002756.1	hypothetical protein LIC12840	hypothetical protein			
ref YP_002758.1 YP_002758.1	hypothetical protein LIC12842	hypothetical protein			
ref YP_002759.1 YP_002759.1	hypothetical protein LIC12843	hypothetical protein			
ref YP_002760.1 YP_002760.1	hypothetical protein LIC12844	hypothetical protein			
ref YP_002795.1 YP_002795.1	hypothetical protein LIC12879	hypothetical protein			
ref YP_002797.1 YP_002797.1	hypothetical protein LIC12881	hypothetical protein			
ref YP_002798.1 YP_002798.1	hypothetical protein LIC12882	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002803.1 YP_002803.1	hypothetical protein LIC12887	hypothetical protein			
ref YP_002805.1 YP_002805.1	hypothetical protein LIC12889	hypothetical protein			
ref YP_002806.1 YP_002806.1	hypothetical protein LIC12890	hypothetical protein			
ref YP_002810.1 YP_002810.1	hypothetical protein LIC12894	hypothetical protein			
ref YP_002813.1 YP_002813.1	hypothetical protein LIC12897	hypothetical protein			
ref YP_002814.1 YP_002814.1	hypothetical protein LIC12898	hypothetical protein			
ref YP_002816.1 YP_002816.1	hypothetical protein LIC12900	hypothetical protein			
ref YP_002819.1 YP_002819.1	hypothetical protein LIC12903	hypothetical protein			
ref YP_002821.1 YP_002821.1	hypothetical protein LIC12905	hypothetical protein			
ref YP_002827.1 YP_002827.1	hypothetical protein LIC12911	hypothetical protein			
ref YP_002828.1 YP_002828.1	hypothetical protein LIC12912	hypothetical protein			
ref YP_002829.1 YP_002829.1	hypothetical protein LIC12913	hypothetical protein			
ref YP_002830.1 YP_002830.1	hypothetical protein LIC12914	hypothetical protein			
ref YP_002831.1 YP_002831.1	hypothetical protein LIC12915	hypothetical protein			
ref YP_002832.1 YP_002832.1	hypothetical protein LIC12917	hypothetical protein			
ref YP_002833.1 YP_002833.1	hypothetical protein LIC12918	hypothetical protein			
ref YP_002834.1 YP_002834.1	hypothetical protein LIC12919	hypothetical protein			
ref YP_002835.1 YP_002835.1	hypothetical protein LIC12920	hypothetical protein			
ref YP_002840.1 YP_002840.1	hypothetical protein LIC12926	hypothetical protein			
ref YP_002843.1 YP_002843.1	hypothetical protein LIC12929	hypothetical protein			
ref YP_002844.1 YP_002844.1	hypothetical protein LIC12930	hypothetical protein			
ref YP_002846.1 YP_002846.1	hypothetical protein LIC12932	hypothetical protein			
ref YP_002853.1 YP_002853.1	hypothetical protein LIC12939	hypothetical protein			
ref YP_002862.1 YP_002862.1	hypothetical protein LIC12948	hypothetical protein			
ref YP_002869.1 YP_002869.1	hypothetical protein LIC12956	hypothetical protein			
ref YP_002872.1 YP_002872.1	hypothetical protein LIC12959	hypothetical protein			
ref YP_002875.1 YP_002875.1	hypothetical protein LIC12962	hypothetical protein			
ref YP_002880.1 YP_002880.1	hypothetical protein LIC12967	hypothetical protein			
ref YP_002881.1 YP_002881.1	hypothetical protein LIC12968	hypothetical protein			
ref YP_002886.1 YP_002886.1	hypothetical protein LIC12973	hypothetical protein			
ref YP_002890.1 YP_002890.1	hypothetical protein LIC12977	hypothetical protein			
ref YP_002898.1 YP_002898.1	hypothetical protein LIC12985	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_002899.1 YP_002899.1	hypothetical protein LIC12986	hypothetical protein			
ref YP_002900.1 YP_002900.1	hypothetical protein LIC12987	hypothetical protein			
ref YP_002903.1 YP_002903.1	hypothetical protein LIC12990	hypothetical protein			
ref YP_002904.1 YP_002904.1	hypothetical protein LIC12991	hypothetical protein			
ref YP_002906.1 YP_002906.1	hypothetical protein LIC12993	hypothetical protein			
ref YP_002910.1 YP_002910.1	hypothetical protein LIC12997	hypothetical protein			
ref YP_002912.1 YP_002912.1	hypothetical protein LIC12999	hypothetical protein			
ref YP_002913.1 YP_002913.1	hypothetical protein LIC13000	hypothetical protein			
ref YP_002918.1 YP_002918.1	hypothetical protein LIC13005	hypothetical protein			
ref YP_002920.1 YP_002920.1	hypothetical protein LIC13007	hypothetical protein			
ref YP_002921.1 YP_002921.1	hypothetical protein LIC13008	hypothetical protein			
ref YP_002926.1 YP_002926.1	hypothetical protein LIC13013	hypothetical protein			
ref YP_002927.1 YP_002927.1	hypothetical protein LIC13014	hypothetical protein			
ref YP_002931.1 YP_002931.1	hypothetical protein LIC13018	hypothetical protein			
ref YP_002932.1 YP_002932.1	hypothetical protein LIC13019	hypothetical protein			
ref YP_002937.1 YP_002937.1	hypothetical protein LIC13024	hypothetical protein			
ref YP_002938.1 YP_002938.1	hypothetical protein LIC13025	hypothetical protein			
ref YP_002940.1 YP_002940.1	hypothetical protein LIC13027	hypothetical protein			
ref YP_002943.1 YP_002943.1	hypothetical protein LIC13030	hypothetical protein			
ref YP_002947.1 YP_002947.1	hypothetical protein LIC13034	hypothetical protein			
ref YP_002952.1 YP_002952.1	hypothetical protein LIC13040	hypothetical protein			
ref YP_002957.1 YP_002957.1	hypothetical protein LIC13045	hypothetical protein			
ref YP_002959.1 YP_002959.1	hypothetical protein LIC13047	hypothetical protein			
ref YP_002960.1 YP_002960.1	hypothetical protein LIC13048	hypothetical protein			
ref YP_002966.1 YP_002966.1	hypothetical protein LIC13054	hypothetical protein			
ref YP_002969.1 YP_002969.1	hypothetical protein LIC13057	hypothetical protein			
ref YP_002991.1 YP_002991.1	hypothetical protein LIC13079	hypothetical protein			
ref YP_002993.1 YP_002993.1	hypothetical protein LIC13081	hypothetical protein			
ref YP_003003.1 YP_003003.1	hypothetical protein LIC13091	hypothetical protein			
ref YP_003008.1 YP_003008.1	hypothetical protein LIC13099	hypothetical protein			
ref YP_003015.1 YP_003015.1	hypothetical protein LIC13106	hypothetical protein			
ref YP_003016.1 YP_003016.1	hypothetical protein LIC13107	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003018.1 YP_003018.1	hypothetical protein LIC13109	hypothetical protein			
ref YP_003021.1 YP_003021.1	hypothetical protein LIC13112	hypothetical protein			
ref YP_003028.1 YP_003028.1	hypothetical protein LIC13119	hypothetical protein			
ref YP_003030.1 YP_003030.1	hypothetical protein LIC13121	hypothetical protein			
ref YP_003033.1 YP_003033.1	hypothetical protein LIC13125	hypothetical protein			
ref YP_003035.1 YP_003035.1	hypothetical protein LIC13127	hypothetical protein			
ref YP_003040.1 YP_003040.1	hypothetical protein LIC13132	hypothetical protein			
ref YP_003047.1 YP_003047.1	hypothetical protein LIC13139	hypothetical protein			
ref YP_003057.1 YP_003057.1	hypothetical protein LIC13149	hypothetical protein			
ref YP_003064.1 YP_003064.1	hypothetical protein LIC13156	hypothetical protein			
ref YP_003065.1 YP_003065.1	hypothetical protein LIC13157	hypothetical protein			
ref YP_003066.1 YP_003066.1	hypothetical protein LIC13158	hypothetical protein			
ref YP_003075.1 YP_003075.1	hypothetical protein LIC13167	hypothetical protein			
ref YP_003078.1 YP_003078.1	hypothetical protein LIC13170	hypothetical protein			
ref YP_003079.1 YP_003079.1	hypothetical protein LIC13171	hypothetical protein			
ref YP_003081.1 YP_003081.1	hypothetical protein LIC13173	hypothetical protein			
ref YP_003094.1 YP_003094.1	hypothetical protein LIC13186	hypothetical protein			
ref YP_003096.1 YP_003096.1	hypothetical protein LIC13188	hypothetical protein			
ref YP_003099.1 YP_003099.1	hypothetical protein LIC13191	hypothetical protein			
ref YP_003105.1 YP_003105.1	hypothetical protein LIC13197	hypothetical protein			
ref YP_003107.1 YP_003107.1	hypothetical protein LIC13199	hypothetical protein			
ref YP_003108.1 YP_003108.1	hypothetical protein LIC13200	hypothetical protein			
ref YP_003111.1 YP_003111.1	hypothetical protein LIC13203	hypothetical protein			
ref YP_003119.1 YP_003119.1	hypothetical protein LIC13211	hypothetical protein			
ref YP_003121.1 YP_003121.1	hypothetical protein LIC13213	hypothetical protein			
ref YP_003125.1 YP_003125.1	hypothetical protein LIC13217	hypothetical protein			
ref YP_003133.1 YP_003133.1	hypothetical protein LIC13225	hypothetical protein			
ref YP_003134.1 YP_003134.1	hypothetical protein LIC13226	hypothetical protein			
ref YP_003135.1 YP_003135.1	hypothetical protein LIC13227	hypothetical protein			
ref YP_003136.1 YP_003136.1	hypothetical protein LIC13228	hypothetical protein			
ref YP_003137.1 YP_003137.1	hypothetical protein LIC13229	hypothetical protein			
ref YP_003146.1 YP_003146.1	hypothetical protein LIC13239	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003148.1 YP_003148.1	hypothetical protein LIC13241	hypothetical protein			
ref YP_003150.1 YP_003150.1	hypothetical protein LIC13243	hypothetical protein			
ref YP_003153.1 YP_003153.1	hypothetical protein LIC13246	hypothetical protein			
ref YP_003161.1 YP_003161.1	hypothetical protein LIC13254	hypothetical protein			
ref YP_003167.1 YP_003167.1	hypothetical protein LIC13260	hypothetical protein			
ref YP_003172.1 YP_003172.1	hypothetical protein LIC13265	hypothetical protein			
ref YP_003174.1 YP_003174.1	hypothetical protein LIC13267	hypothetical protein			
ref YP_003184.1 YP_003184.1	hypothetical protein LIC13277	hypothetical protein			
ref YP_003191.1 YP_003191.1	hypothetical protein LIC13284	hypothetical protein			
ref YP_003197.1 YP_003197.1	hypothetical protein LIC13290	hypothetical protein			
ref YP_003199.1 YP_003199.1	hypothetical protein LIC13292	hypothetical protein			
ref YP_003201.1 YP_003201.1	hypothetical protein LIC13294	hypothetical protein			
ref YP_003208.1 YP_003208.1	hypothetical protein LIC13303	hypothetical protein			
ref YP_003209.1 YP_003209.1	hypothetical protein LIC13304	hypothetical protein			
ref YP_003211.1 YP_003211.1	hypothetical protein LIC13306	hypothetical protein			
ref YP_003212.1 YP_003212.1	hypothetical protein LIC13307	hypothetical protein			
ref YP_003222.1 YP_003222.1	hypothetical protein LIC13317	hypothetical protein			
ref YP_003228.1 YP_003228.1	hypothetical protein LIC13323	hypothetical protein			
ref YP_003232.1 YP_003232.1	hypothetical protein LIC13327	hypothetical protein			
ref YP_003234.1 YP_003234.1	hypothetical protein LIC13329	hypothetical protein			
ref YP_003240.1 YP_003240.1	hypothetical protein LIC13335	hypothetical protein			
ref YP_003245.1 YP_003245.1	hypothetical protein LIC13340	hypothetical protein			
ref YP_003247.1 YP_003247.1	hypothetical protein LIC13342	hypothetical protein			
ref YP_003249.1 YP_003249.1	hypothetical protein LIC13344	hypothetical protein			
ref YP_003254.1 YP_003254.1	hypothetical protein LIC13349	hypothetical protein			
ref YP_003257.1 YP_003257.1	hypothetical protein LIC13352	hypothetical protein			
ref YP_003270.1 YP_003270.1	hypothetical protein LIC13365	hypothetical protein			
ref YP_003278.1 YP_003278.1	hypothetical protein LIC13373	hypothetical protein			
ref YP_003283.1 YP_003283.1	hypothetical protein LIC13380	hypothetical protein			
ref YP_003289.1 YP_003289.1	hypothetical protein LIC13386	hypothetical protein			
ref YP_003291.1 YP_003291.1	hypothetical protein LIC13388	hypothetical protein			
ref YP_003293.1 YP_003293.1	hypothetical protein LIC13390	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003294.1 YP_003294.1	hypothetical protein LIC13391	hypothetical protein			
ref YP_003301.1 YP_003301.1	hypothetical protein LIC13398	hypothetical protein			
ref YP_003303.1 YP_003303.1	hypothetical protein LIC13400	hypothetical protein			
ref YP_003321.1 YP_003321.1	hypothetical protein LIC13418	hypothetical protein			
ref YP_003324.1 YP_003324.1	hypothetical protein LIC13421	hypothetical protein			
ref YP_003328.1 YP_003328.1	hypothetical protein LIC13425	hypothetical protein			
ref YP_003329.1 YP_003329.1	hypothetical protein LIC13426	hypothetical protein			
ref YP_003332.1 YP_003332.1	hypothetical protein LIC13429	hypothetical protein			
ref YP_003340.1 YP_003340.1	hypothetical protein LIC13437	hypothetical protein			
ref YP_003343.1 YP_003343.1	hypothetical protein LIC13440	hypothetical protein			
ref YP_003348.1 YP_003348.1	hypothetical protein LIC13445	hypothetical protein			
ref YP_003349.1 YP_003349.1	hypothetical protein LIC13446	hypothetical protein			
ref YP_003355.1 YP_003355.1	hypothetical protein LIC13452	hypothetical protein			
ref YP_003357.1 YP_003357.1	hypothetical protein LIC13454	hypothetical protein			
ref YP_003358.1 YP_003358.1	hypothetical protein LIC13455	hypothetical protein			
ref YP_003361.1 YP_003361.1	hypothetical protein LIC13458	hypothetical protein			
ref YP_003365.1 YP_003365.1	hypothetical protein LIC13462	hypothetical protein			
ref YP_003368.1 YP_003368.1	hypothetical protein LIC13466	hypothetical protein			
ref YP_003369.1 YP_003369.1	hypothetical protein LIC13467	hypothetical protein			
ref YP_003370.1 YP_003370.1	hypothetical protein LIC13468	hypothetical protein			
ref YP_003378.1 YP_003378.1	hypothetical protein LIC13477	hypothetical protein			
ref YP_003385.1 YP_003385.1	hypothetical protein LIC13484	hypothetical protein			
ref YP_002087.1 YP_002087.1	hypothetical protein LIC13510	hypothetical protein			
ref YP_003399.1 YP_003399.1	hypothetical protein LIC20007	hypothetical protein			
ref YP_003411.1 YP_003411.1	hypothetical protein LIC20019	hypothetical protein			
ref YP_003431.1 YP_003431.1	hypothetical protein LIC20039	hypothetical protein			
ref YP_003438.1 YP_003438.1	hypothetical protein LIC20046	hypothetical protein			
ref YP_003445.1 YP_003445.1	hypothetical protein LIC20053	hypothetical protein			
ref YP_003447.1 YP_003447.1	hypothetical protein LIC20055	hypothetical protein			
ref YP_003448.1 YP_003448.1	hypothetical protein LIC20056	hypothetical protein			
ref YP_003451.1 YP_003451.1	hypothetical protein LIC20059	hypothetical protein			
ref YP_003455.1 YP_003455.1	hypothetical protein LIC20063	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003462.1 YP_003462.1	hypothetical protein LIC20070	hypothetical protein			
ref YP_003465.1 YP_003465.1	hypothetical protein LIC20073	hypothetical protein			
ref YP_003487.1 YP_003487.1	hypothetical protein LIC20095	hypothetical protein			
ref YP_003495.1 YP_003495.1	hypothetical protein LIC20103	hypothetical protein			
ref YP_003499.1 YP_003499.1	hypothetical protein LIC20107	hypothetical protein			
ref YP_003502.1 YP_003502.1	hypothetical protein LIC20110	hypothetical protein			
ref YP_003508.1 YP_003508.1	hypothetical protein LIC20117	hypothetical protein			
ref YP_003509.1 YP_003509.1	hypothetical protein LIC20118	hypothetical protein			
ref YP_003514.1 YP_003514.1	hypothetical protein LIC20123	hypothetical protein			
ref YP_003525.1 YP_003525.1	hypothetical protein LIC20134	hypothetical protein			
ref YP_003530.1 YP_003530.1	hypothetical protein LIC20139	hypothetical protein			
ref YP_003541.1 YP_003541.1	hypothetical protein LIC20150	hypothetical protein			
ref YP_003543.1 YP_003543.1	hypothetical protein LIC20152	hypothetical protein			
ref YP_003546.1 YP_003546.1	hypothetical protein LIC20155	hypothetical protein			
ref YP_003548.1 YP_003548.1	hypothetical protein LIC20157	hypothetical protein			
ref YP_003564.1 YP_003564.1	hypothetical protein LIC20173	hypothetical protein			
ref YP_003565.1 YP_003565.1	hypothetical protein LIC20174	hypothetical protein			
ref YP_003580.1 YP_003580.1	hypothetical protein LIC20189	hypothetical protein			
ref YP_003590.1 YP_003590.1	hypothetical protein LIC20201	hypothetical protein			
ref YP_003591.1 YP_003591.1	hypothetical protein LIC20202	hypothetical protein			
ref YP_003601.1 YP_003601.1	hypothetical protein LIC20212	hypothetical protein			
ref YP_003602.1 YP_003602.1	hypothetical protein LIC20213	hypothetical protein			
ref YP_003604.1 YP_003604.1	hypothetical protein LIC20215	hypothetical protein			
ref YP_003608.1 YP_003608.1	hypothetical protein LIC20219	hypothetical protein			
ref YP_003610.1 YP_003610.1	hypothetical protein LIC20221	hypothetical protein			
ref YP_003630.1 YP_003630.1	hypothetical protein LIC20245	hypothetical protein			
ref YP_003636.1 YP_003636.1	hypothetical protein LIC20252	hypothetical protein			
ref YP_003639.1 YP_003639.1	hypothetical protein LIC20255	hypothetical protein			
ref YP_003641.1 YP_003641.1	hypothetical protein LIC20257	hypothetical protein			
ref YP_003642.1 YP_003642.1	hypothetical protein LIC20258	hypothetical protein			
ref YP_003644.1 YP_003644.1	hypothetical protein LIC20260	hypothetical protein			
ref YP_003645.1 YP_003645.1	hypothetical protein LIC20261	hypothetical			

Supplement: Malmstroem, Beck *et al.* Proteome-wide copies per cell measurements

		protein			
ref YP_003646.1 YP_003646.1	hypothetical protein LIC20262	hypothetical protein			
ref YP_003647.1 YP_003647.1	hypothetical protein LIC20263	hypothetical protein			
ref YP_003651.1 YP_003651.1	hypothetical protein LIC20267	hypothetical protein			
ref YP_003652.1 YP_003652.1	hypothetical protein LIC20268	hypothetical protein			
ref YP_003655.1 YP_003655.1	hypothetical protein LIC20271	hypothetical protein			
ref YP_001383.1 YP_001383.1	phosphate sodium symporter	ion transport	476	490	40
ref YP_001885.1 YP_001885.1	heavy metal efflux pump	ion transport	362	373	14
sp Q72PE5 CYSA_LEPIC	Sulfate/thiosulfate import ATP-binding protein cysA (EC 3.6.3.25) (Sulfate-transporting ATPase)	ion transport	376	339	308
ref YP_001236.1 YP_001236.1	periplasmic sulfate-binding protein	ion transport			281
ref YP_001664.1 YP_001664.1	magnesium transporter	ion transport			30
ref YP_001883.1 YP_001883.1	heavy metal efflux pump	ion transport			14
ref YP_001332.1 YP_001332.1	sodium:alanine symporter family/phosphatidylserine decarboxylase	ion transport			
ref YP_001886.1 YP_001886.1	heavy metal efflux pump	ion transport			
ref YP_002159.1 YP_002159.1	heavy metal efflux pump	ion transport			44
ref YP_001470.1 YP_001470.1	heavy metal efflux pump	ion transport			44
ref YP_002240.1 YP_002240.1	heavy metal efflux pump	ion transport			37
ref YP_003083.1 YP_003083.1	potassium uptake system protein	ion transport			34
ref YP_002336.1 YP_002336.1	disulfide interchange transmembrane protein	ion transport			17
ref YP_003306.1 YP_003306.1	YvrC	ion transport			17
ref YP_000476.1 YP_000476.1	heavy metal efflux pump	ion transport			5
sp Q72TM6 ATKB_LEPIC	Potassium-transporting ATPase B chain (EC 3.6.3.12) (Potassium-translocating ATPase B chain) (ATP ph	ion transport			
ref YP_003342.1 YP_003342.1	putative potassium efflux transporter	ion transport			
ref YP_001956.1 YP_001956.1	sodium-dependent transporter	ion transport			
ref YP_002824.1 YP_002824.1	sodium/glucose cotransport protein	ion transport			
ref YP_002902.1 YP_002902.1	heavy metal efflux pump	ion transport			
ref YP_001882.1 YP_001882.1	heavy metal efflux pump	ion transport			
ref YP_001494.1 YP_001494.1	di-tripeptide proton symporter	ion transport			
ref YP_003267.1 YP_003267.1	chloride channel	ion transport			
ref YP_002052.1 YP_002052.1	divalent anion Na+ symporter	ion transport			
ref YP_001198.1 YP_001198.1	divalent cation transport-related protein	ion transport			
ref YP_003347.1 YP_003347.1	glutathione-regulated potassium-efflux system protein	ion transport			
ref YP_001666.1 YP_001666.1	heavy metal efflux pump	ion transport			
ref YP_003113.1 YP_003113.1	heavy metal efflux pump	ion transport			
ref YP_002895.1 YP_002895.1	heavy-metal transporting p-type ATPase	ion transport			
ref YP_000660.1 YP_000660.1	heme exporter protein B	ion transport			
ref YP_000661.1 YP_000661.1	heme exporter protein C	ion transport			
ref YP_002896.1 YP_002896.1	hypothetical protein LIC12983	ion transport			
ref YP_003082.1 YP_003082.1	KtrB	ion transport			
ref YP_001662.1 YP_001662.1	magnesium transport P-type atpase	ion transport			
ref YP_000264.1 YP_000264.1	potassium uptake protein	ion transport			
sp Q72TM7 ATKA_LEPIC	Potassium-transporting ATPase A chain (EC 3.6.3.12) (Potassium-translocating ATPase A chain) (ATP ph	ion transport			
sp Q72TM5 ATKC_LEPIC	Potassium-transporting ATPase C chain (EC 3.6.3.12) (Potassium-translocating ATPase C chain) (ATP ph	ion transport			
sp Q72V73 KPRS_LEPIC	Ribose-phosphate pyrophosphokinase (EC 2.7.6.1) (RPPK) (Phosphoribosyl pyrophosphate synthetase) (P-	kinase activity	227	616	674
sp Q72M65 NDK_LEPIC	Nucleoside diphosphate kinase (EC 2.7.4.6) (NDK) (NDP kinase) (Nucleoside-2-	kinase activity	702	596	335

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	P kinase)				
ref YP_002825.1 YP_002825.1	aspartokinase	kinase activity	657	520	375
sp Q72NI2 KAD_LEPIC	Adenylate kinase (EC 2.7.4.3) (ATP-AMP transphosphorylase)	kinase activity	872	431	1009
sp Q72U12 PYRH_LEPIC	Uridylate kinase (EC 2.7.4.-) (UK) (Uridine monophosphate kinase) (UMP kinase)	kinase activity	569	425	114
ref YP_002258.1 YP_002258.1	serine/threonine kinase with GAF domain	kinase activity	392	383	574
ref YP_002135.1 YP_002135.1	ADP-heptose synthetase	kinase activity	407	375	114
ref YP_002278.1 YP_002278.1	ribokinase	kinase activity	444	281	177
ref YP_000703.1 YP_000703.1	polyphosphate kinase	kinase activity	312	226	185
ref YP_001512.1 YP_001512.1	serine/threonine kinase	kinase activity	272	221	27
ref YP_001102.1 YP_001102.1	pyruvate kinase	kinase activity	141	168	166
ref YP_003648.1 YP_003648.1	pyruvate kinase	kinase activity			281
ref YP_001497.1 YP_001497.1	ADP-heptose synthase	kinase activity			162
sp Q72NQ8 PROB_LEPIC	Glutamate 5-kinase (EC 2.7.2.11) (Gamma-glutamyl kinase) (GK)	kinase activity			151
sp Q72NL9 KTHY_LEPIC	Thymidylate kinase (EC 2.7.4.9) (dTMP kinase)	kinase activity			68
ref YP_003480.1 YP_003480.1	diphosphate--fructose-6-phosphate 1-phosphotransferase	kinase activity			61
ref YP_002246.1 YP_002246.1	glucokinase	kinase activity			50
ref YP_000739.1 YP_000739.1	thiamine-monophosphate kinase protein	kinase activity			40
ref YP_001738.1 YP_001738.1	homoserine kinase	kinase activity			37
ref YP_000114.1 YP_000114.1	phosphomethylpyrimidine kinase protein	kinase activity			37
ref YP_001498.1 YP_001498.1	glycerol-3-phosphate cytidyltransferase	kinase activity			30
ref YP_003449.1 YP_003449.1	LAO/AO transport system kinase	kinase activity			24
ref YP_003619.1 YP_003619.1	hypothetical protein LIC20231	kinase activity			17
ref YP_002322.1 YP_002322.1	hypothetical protein LIC12390	kinase activity			5
ref YP_002749.1 YP_002749.1	arabinose kinase	kinase activity			
ref YP_001384.1 YP_001384.1	homoserine kinase type II	kinase activity			
ref YP_001274.1 YP_001274.1	acetylglutamate kinase N-acetyl-gamma-glutamyl-phosphate reductase	kinase activity			
ref YP_003513.1 YP_003513.1	cobinamide kinase	kinase activity			
ref YP_003013.1 YP_003013.1	galactokinase	kinase activity			
ref YP_001188.1 YP_001188.1	peroxiredoxin	metabolic process	3608	5736	2052
ref YP_002168.1 YP_002168.1	fructose-bisphosphate aldolase	metabolic process	7001	5529	2138
ref YP_002339.1 YP_002339.1	putative glutamine synthetase protein	metabolic process	6674	5461	2543
ref YP_000199.1 YP_000199.1	cytochrome c oxidase polypeptide II	metabolic process	2644	4894	281
ref YP_000944.1 YP_000944.1	acyl-CoA dehydrogenase	metabolic process	5423	4843	2234
ref YP_002024.1 YP_002024.1	glyceraldehyde-3-phosphate dehydrogenase	metabolic process	3645	4777	1305
sp Q72PA2 SUCC_LEPIC	Succinyl-CoA synthetase beta chain (EC 6.2.1.5) (SCS-beta)	metabolic process	4320	4393	2317
ref YP_002016.1 YP_002016.1	cysteine synthase	metabolic process	5375	3745	5019
ref YP_001164.1 YP_001164.1	putative citrate lyase	metabolic process	4158	3519	1371
ref YP_001733.1 YP_001733.1	malate dehydrogenase	metabolic process	3383	3460	2948
ref YP_003456.1 YP_003456.1	3-oxoacyl-(acyl-carrier protein) reductase	metabolic process	5311	3002	537
ref YP_001323.1 YP_001323.1	MaoC	metabolic process	3304	2936	966
ref YP_000200.1 YP_000200.1	cytochrome c oxidase polypeptide I	metabolic process	2532	2902	64
sp Q72VT0 PPCK_LEPIC	Phosphoenolpyruvate carboxykinase	metabolic process	3242	2634	1597
ref YP_002498.1 YP_002498.1	succinyl-CoA synthetase alpha subunit	metabolic process	3096	2621	1543

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ref YP_001970.1 YP_001970.1	catalase	metabolic process	2176	2357	2761
sp Q72M00 ILVC_LEPIC	Ketol-acid reductoisomerase (EC 1.1.1.86) (Acetohydroxy-acid isomeroeductase) (Alpha-keto-beta-hydr	metabolic process	3176	2322	1610
ref YP_003205.1 YP_003205.1	3-hydroxyacyl-CoA dehydrogenase	metabolic process	2551	2217	2221
ref YP_001941.1 YP_001941.1	succinate dehydrogenase	metabolic process	1473	2088	1195
ref YP_001734.1 YP_001734.1	hypothetical protein LIC11782	metabolic process	1879	2058	375
ref YP_000091.1 YP_000091.1	long-chain-fatty-acid CoA ligase	metabolic process	1229	1903	320
sp Q72NR4 TPX_LEPIC	Probable thiol peroxidase (EC 1.11.1.-)	metabolic process	1722	1721	1039
ref YP_001065.1 YP_001065.1	adenylate/guanylate cyclase	metabolic process	1760	1601	110
ref YP_000852.1 YP_000852.1	molybdopterin oxidoreductase membrane subunit	metabolic process		1526	40
ref YP_000839.1 YP_000839.1	adenylate/guanylate cyclase	metabolic process	932	1481	188
ref YP_000397.1 YP_000397.1	hypothetical protein LIC10411	metabolic process	2683	1475	1305
ref YP_000046.1 YP_000046.1	proton-translocating transhydrogenase, subunit alpha part 1	metabolic process	1455	1311	1668
ref YP_000280.1 YP_000280.1	H ⁺ -translocating transhydrogenase subunit beta	metabolic process	1192	1298	121
ref YP_000854.1 YP_000854.1	hypothetical protein LIC10877	metabolic process	1897	1286	37
ref YP_001400.1 YP_001400.1	peptidyl-prolyl cis-trans isomerase	metabolic process	1361	1234	456
ref YP_001328.1 YP_001328.1	short-chain dehydrogenase	metabolic process	969	1189	1073
ref YP_003070.1 YP_003070.1	phospho-2-dehydro-3-deoxyheptonate aldolase Chorismate mutase	metabolic process	1337	1187	795
sp Q72QZ8 ENO_LEPIC	Enolase (EC 4.2.1.11) (2-phosphoglycerate dehydratase) (2-phospho-D-glycerate hydro-lyase)	metabolic process	785	1176	808
ref YP_001788.1 YP_001788.1	peptidyl-prolyl cis-trans isomerase	metabolic process	965	1171	177
ref YP_000111.1 YP_000111.1	hypothetical protein LIC10115	metabolic process	1063	1158	96
ref YP_001588.1 YP_001588.1	long-chain-fatty-acid CoA ligase	metabolic process	858	1127	447
ref YP_000567.1 YP_000567.1	acyl-CoA dehydrogenase	metabolic process	1124	1082	766
ref YP_001683.1 YP_001683.1	FKBP-type peptidyl-prolyl cis-trans isomerase	metabolic process	577	1078	411
ref YP_002100.1 YP_002100.1	putative molybdenum cofactor biosynthesis protein	metabolic process	1053	1073	657
ref YP_001916.1 YP_001916.1	cyclic nucleotide binding protein	metabolic process	976	1010	996
sp Q72VY3 FUMC_LEPIC	Fumarate hydratase class II (EC 4.2.1.2) (Fumarase C)	metabolic process	1038	1004	699
sp Q72RC4 LEU2_LEPIC	3-isopropylmalate dehydratase large subunit (EC 4.2.1.33) (Isopropylmalate isomerase) (Alpha-IPM iso	metabolic process	942	996	620
ref YP_002745.1 YP_002745.1	citrate synthase	metabolic process	1309	986	488
sp Q72SG7 TIG_LEPIC	Trigger factor (TF)	metabolic process	958	955	1056
ref YP_002659.1 YP_002659.1	MaoC family protein	metabolic process	867	943	919
sp Q72PJ7 ODO1_LEPIC	2-oxoglutarate dehydrogenase E1	metabolic process	1461	930	1217

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	component (EC 1.2.4.2) (Alpha-ketoglutarate dehydrogenase)	process			
ref YP_002404.1 YP_002404.1	dihydrolipoamide succinyltransferase	metabolic process	867	912	1401
ref YP_003151.1 YP_003151.1	isocitrate dehydrogenase	metabolic process	1459	906	1993
ref YP_002423.1 YP_002423.1	3-hydroxybutyryl-CoA dehydratase	metabolic process	983	883	367
ref YP_001476.1 YP_001476.1	acetyl-CoA carboxylase alpha subunit	metabolic process	895	840	1061
ref YP_001847.1 YP_001847.1	dihydrolipoamide acetyltransferase	metabolic process	675	838	427
ref YP_002101.1 YP_002101.1	alcohol dehydrogenase	metabolic process	1004	820	859
ref YP_001386.1 YP_001386.1	peptidyl-prolyl cis-trans isomerase	metabolic process	716	818	447
ref YP_002922.1 YP_002922.1	acyl-CoA dehydrogenase	metabolic process	714	817	703
ref YP_003450.1 YP_003450.1	methylmalonyl-CoA mutase	metabolic process	689	812	435
ref YP_003489.1 YP_003489.1	short-chain dehydrogenase	metabolic process	980	799	129
ref YP_001276.1 YP_001276.1	bacterioferritin	metabolic process	971	762	64
sp Q72U22 DAPA_LEPIC	Dihydrodipicolinate synthase (EC 4.2.1.52) (DHDPS)	metabolic process	681	725	779
ref YP_003616.1 YP_003616.1	acireductone dioxygenase enzyme ARD and ARD'	metabolic process	825	688	284
ref YP_002228.1 YP_002228.1	udp-glucose dehydrogenase	metabolic process	730	683	411
ref YP_001473.1 YP_001473.1	hypothetical protein LIC11514	metabolic process	1172	681	47
ref YP_002615.1 YP_002615.1	glutamate synthase (NADPH) alpha chain precursor	metabolic process	962	672	690
ref YP_003492.1 YP_003492.1	hypothetical protein LIC20100	metabolic process	611	672	427
sp Q72RH7 LEU3_LEPIC	3-isopropylmalate dehydrogenase (EC 1.1.1.85) (Beta-IPM dehydrogenase) (IMDH) (3-IPM-DH)	metabolic process	960	670	537
sp Q72W72 DCD_LEPIC	Deoxycytidine triphosphate deaminase (EC 3.5.4.13) (dCTP deaminase)	metabolic process	696	641	125
ref YP_000315.1 YP_000315.1	hemolysin	metabolic process	640	639	230
sp Q72RJ9 ARGC_LEPIC	N-acetyl-gamma-glutamyl-phosphate reductase (EC 1.2.1.38) (AGPR) (N-acetyl-glutamate semialdehyde de	metabolic process	501	622	669
ref YP_000045.1 YP_000045.1	dTDP-glucose 4-6-dehydratase	metabolic process	598	616	517
ref YP_001168.1 YP_001168.1	adenylate/guanylate cyclase	metabolic process	507	599	850
ref YP_000244.1 YP_000244.1	alcohol dehydrogenase	metabolic process	434	597	1069
ref YP_000506.1 YP_000506.1	oxidoreductase family	metabolic process	659	597	480
ref YP_001915.1 YP_001915.1	acyl-CoA dehydrogenase	metabolic process	829	591	288
ref YP_002137.1 YP_002137.1	UDP-glucose 4-epimerase	metabolic process	662	588	578
ref YP_002129.1 YP_002129.1	transketolase beta subunit	metabolic process	471	587	707
ref YP_002403.1 YP_002403.1	dihydrolipoamide dehydrogenase	metabolic process	605	566	906
ref YP_003044.1 YP_003044.1	acyl-CoA dehydrogenase	metabolic process	739	549	944

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ref YP_001875.1 YP_001875.1	short-chain dehydrogenase	metabolic process	506	520	211
ref YP_002681.1 YP_002681.1	aldehyde dehydrogenase	metabolic process	488	517	211
sp Q72QL9 TPIS_LEPIC	Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Triose-phosphate isomerase)	metabolic process	562	509	411
sp Q72RC5 LEUD_LEPIC	3-isopropylmalate dehydratase small subunit (EC 4.2.1.33) (Isopropylmalate isomerase) (Alpha-IPM iso	metabolic process	621	499	492
sp Q72UH6 PURQ_LEPIC	Phosphoribosylformylglycinamidine synthase I (EC 6.3.5.3) (FGAM synthase I)	metabolic process	507	497	110
ref YP_000468.1 YP_000468.1	threonine synthase	metabolic process	564	494	923
ref YP_002478.1 YP_002478.1	acyl-CoA dehydrogenase	metabolic process	418	490	246
ref YP_003258.1 YP_003258.1	L-amino acid oxidase	metabolic process	403	478	215
ref YP_002645.1 YP_002645.1	3-hydroxybutyryl-CoA dehydratase	metabolic process	510	475	316
ref YP_002541.1 YP_002541.1	diaminopimelate decarboxylase	metabolic process	394	454	517
ref YP_003485.1 YP_003485.1	bacterioferritin comigratory protein	metabolic process	672	446	757
ref YP_000933.1 YP_000933.1	monooxygenase	metabolic process	403	444	169
sp P61703 SYA_LEPIC	Alanyl-tRNA synthetase (EC 6.1.1.7) (Alanine--tRNA ligase) (AlaRS)	metabolic process	411	436	339
ref YP_001576.1 YP_001576.1	3-ketoacyl-(acyl-carrier-protein) reductase	metabolic process	554	413	403
ref YP_003418.1 YP_003418.1	short-chain dehydrogenase	metabolic process	275	410	40
ref YP_003623.1 YP_003623.1	S-adenosylmethionine decarboxylase like protein	metabolic process	444	407	89
ref YP_003102.1 YP_003102.1	cholesterol oxidase	metabolic process	304	402	140
ref YP_002490.1 YP_002490.1	glycerol-3-phosphate dehydrogenase	metabolic process	495	401	517
ref YP_000555.1 YP_000555.1	homoserine dehydrogenase	metabolic process	331	401	324
sp Q72NQ9 PROA_LEPIC	Gamma-glutamyl phosphate reductase (EC 1.2.1.41) (GPR) (Glutamate-5-semialdehyde dehydrogenase) (Glu	metabolic process	210	384	242
ref YP_001865.1 YP_001865.1	IMP dehydrogenase	metabolic process	447	382	636
ref YP_003084.1 YP_003084.1	Tas	metabolic process	293	369	129
ref YP_000714.1 YP_000714.1	bacterioferritin comigratory protein	metabolic process	399	366	143
ref YP_000307.1 YP_000307.1	ribose 5-phosphate isomerase B	metabolic process	342	365	288
ref YP_001771.1 YP_001771.1	cysteine synthase	metabolic process	210	356	332
sp Q72U05 TRPB_LEPIC	Tryptophan synthase beta chain (EC 4.2.1.20) A2290	metabolic process	379	348	132
ref YP_001393.1 YP_001393.1	cyclic nucleotide binding protein	metabolic process	333	347	203
ref YP_001846.1 YP_001846.1	pyruvate dehydrogenase alpha2 subunit protein	metabolic process	326	345	332
sp Q72S57 ISPH_LEPIC	4-hydroxy-3-methylbut-2-enyl diphosphate reductase (EC 1.17.1.2)	metabolic process	413	338	292
ref YP_000549.1 YP_000549.1	enoyl-CoA hydratase	metabolic process	526	333	513
ref YP_002058.1 YP_002058.1	dTDP-glucose 4,6-dehydratase	metabolic process	458	332	324

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ref YP_000019.1 YP_000019.1	3-oxoacyl-acyl carrier protein reductase	metabolic process	398	326	529
ref YP_003539.1 YP_003539.1	heme oxygenase	metabolic process	514	322	257
ref YP_000066.1 YP_000066.1	enoyl-CoA hydratase/isomerase family	metabolic process	299	318	71
ref YP_000932.1 YP_000932.1	alcohol dehydrogenase	metabolic process	407	314	316
ref YP_003598.1 YP_003598.1	methylmalonyl-CoA mutase	metabolic process	276	309	359
ref YP_000152.1 YP_000152.1	malic enzyme	metabolic process		306	431
ref YP_003597.1 YP_003597.1	methylmalonyl-CoA mutase small subunit	metabolic process	455	305	553
ref YP_000329.1 YP_000329.1	hemolysin B	metabolic process	504	292	992
ref YP_001651.1 YP_001651.1	glycerol-3-phosphate dehydrogenase	metabolic process	351	290	351
ref YP_001560.1 YP_001560.1	hypothetical protein LIC11602	metabolic process	236	283	82
ref YP_001399.1 YP_001399.1	adenylate/guanylate cyclase	metabolic process	475	282	50
ref YP_003345.1 YP_003345.1	glutathione peroxidase	metabolic process	287	278	192
sp Q72TC0 ILVD_LEPIC	Dihydroxy-acid dehydratase (EC 4.2.1.9) (DAD)	metabolic process	247	263	582
ref YP_001860.1 YP_001860.1	udp-n-acetyl-d-mannosamine transferase	metabolic process		260	14
ref YP_002262.1 YP_002262.1	putative lactoylglutathione lyase	metabolic process	298	256	339
ref YP_003477.1 YP_003477.1	B12-dependent homocysteine-N5-methyltetrahydrofolate transmethylase	metabolic process	412	253	753
ref YP_002088.1 YP_002088.1	D-3-phosphoglycerate dehydrogenase	metabolic process	321	252	234
ref YP_000228.1 YP_000228.1	cyclic nucleotide binding protein	metabolic process	284	243	347
ref YP_000566.1 YP_000566.1	anthranilate synthase component I	metabolic process	276	241	192
ref YP_001931.1 YP_001931.1	D-3-phosphoglycerate dehydrogenase	metabolic process	237	239	363
sp Q72W63 DAPF_LEPIC	Diaminopimelate epimerase (EC 5.1.1.7) (DAP epimerase)	metabolic process	206	235	324
sp Q72VI8 GCSP_LEPIC	Glycine dehydrogenase	metabolic process	480	228	324
ref YP_002075.1 YP_002075.1	UDP-glucose 4-epimerase	metabolic process	204	227	591
ref YP_001891.1 YP_001891.1	hypothetical protein LIC11946	metabolic process	166	224	
ref YP_000368.1 YP_000368.1	acyl-CoA dehydrogenase	metabolic process	250	221	403
sp Q72LS1 SYS_LEPIC	Seryl-tRNA synthetase (EC 6.1.1.11) (Serine--tRNA ligase) (SerRS)	metabolic process	184	221	355
ref YP_003076.1 YP_003076.1	GDP-mannose 4,6-dehydratase	metabolic process	268	202	452
ref YP_002601.1 YP_002601.1	thiamine biosynthesis protein ThiC	metabolic process	310	200	82
ref YP_000877.1 YP_000877.1	adenylate/guanylate cyclase	metabolic process	221	200	17
ref YP_002104.1 YP_002104.1	sialic acid synthase	metabolic process	229	190	177
ref YP_003109.1 YP_003109.1	adenylate/guanylate cyclase	metabolic process	269	187	82
sp Q72TR2 ISPG_LEPIC	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (EC 1.17.4.3) (1-	metabolic process	284	186	203

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	hydroxy-2-methyl-2-(E)-butenyl				
ref YP_001319.1 YP_001319.1	transketolase	metabolic process	203	177	246
ref YP_000425.1 YP_000425.1	nitrogen regulatory protein pII	metabolic process	266	173	525
ref YP_002571.1 YP_002571.1	glutathione peroxidase	metabolic process	246	173	118
ref YP_002060.1 YP_002060.1	dTDP-4-dehydrorhamnose 3,5-epimerase	metabolic process	255	172	324
ref YP_000988.1 YP_000988.1	adenylosuccinate lyase	metabolic process	226	170	230
ref YP_000431.1 YP_000431.1	phosphomannomutase	metabolic process	215	169	517
ref YP_000530.1 YP_000530.1	lipase	metabolic process	144	168	78
ref YP_002085.1 YP_002085.1	cdp-glucose 4,6-dehydratase	metabolic process	222	163	82
ref YP_003529.1 YP_003529.1	capsular polysaccharide biosynthesis protein	metabolic process	167	155	57
ref YP_003233.1 YP_003233.1	isocitrate dehydrogenase	metabolic process	190	151	375
ref YP_000815.1 YP_000815.1	glyoxalase	metabolic process	401	148	249
ref YP_001600.1 YP_001600.1	hypothetical protein LIC11642	metabolic process		143	118
sp Q75FC8 DHAS_LEPIC	Aspartate-semialdehyde dehydrogenase (EC 1.2.1.11) (ASA dehydrogenase) (ASADH)	metabolic process	197	135	439
ref YP_002111.1 YP_002111.1	UDP-glucose 4-epimerase	metabolic process	201	122	96
ref YP_002261.1 YP_002261.1	adenylate/guanylate cyclase	metabolic process	128	103	427
ref YP_002107.1 YP_002107.1	putative UDP-N-acetylglucosamine-2-epimerase	metabolic process	137	87	57
sp P61742 GPDA_LEPIC	Glycerol-3-phosphate dehydrogenase	metabolic process		87	140
ref YP_003182.1 YP_003182.1	hypothetical protein LIC13275	metabolic process	121	76	96
ref YP_002012.1 YP_002012.1	hypothetical protein LIC12078	metabolic process		46	147
ref YP_001691.1 YP_001691.1	hypothetical protein LIC11739	metabolic process	344		253
sp Q72SC4 GATC_LEPIC	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit C (EC 6.3.5.-) (Asp/Glu-ADT subunit C) - Le	metabolic process	250		27
ref YP_002040.1 YP_002040.1	hypothetical protein LIC12106	metabolic process	105		14
ref YP_002552.1 YP_002552.1	enoyl-CoA hydratase	metabolic process			521
ref YP_000069.1 YP_000069.1	glyoxylase I	metabolic process			480
ref YP_002130.1 YP_002130.1	transketolase	metabolic process			468
ref YP_002839.1 YP_002839.1	citrate synthase	metabolic process			427
ref YP_003446.1 YP_003446.1	hypothetical protein LIC20054	metabolic process			371
ref YP_002138.1 YP_002138.1	phosphoheptose isomerase	metabolic process			359
sp P62354 HIS4_LEPIC	1-(5-phosphoribosyl)-5-(5-phosphoribosylamino)methylideneamino]imidazole-4-carboxamide isomerase (metabolic process			335
ref YP_001917.1 YP_001917.1	thioredoxin	metabolic process			324

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ref YP_001710.1 YP_001710.1	acyl-CoA hydrolase	metabolic process			273
sp Q72S46 PYRG_LEPIC	CTP synthase (EC 6.3.4.2) (UTP--ammonia ligase) (CTP synthetase)	metabolic process			261
sp Q72VI2 SERC_LEPIC	Phosphoserine aminotransferase (EC 2.6.1.52) (PSAT)	metabolic process			242
ref YP_002380.1 YP_002380.1	chorismate mutase and prephenate dehydratase	metabolic process			226
ref YP_003300.1 YP_003300.1	alkaline phosphatase	metabolic process			219
sp Q72N73 NADA_LEPIC	Quinolate synthetase A	metabolic process			203
ref YP_000428.1 YP_000428.1	3-methylcrotonoyl-CoA carboxylase beta subunit	metabolic process			188
sp Q72U21 DAPB_LEPIC	Dihydrodipicolinate reductase (EC 1.3.1.26) (DHPR)	metabolic process			185
ref YP_001760.1 YP_001760.1	glutaredoxin-related protein	metabolic process			185
sp P61660 HIS7_LEPIC	Imidazoleglycerol-phosphate dehydratase (EC 4.2.1.19) (IGPD)	metabolic process			177
ref YP_002710.1 YP_002710.1	hypothetical protein LIC12793	metabolic process			169
ref YP_002471.1 YP_002471.1	hypothetical protein LIC12543	metabolic process			155
ref YP_003402.1 YP_003402.1	delta-aminolevulinic acid dehydratase	metabolic process			147
ref YP_002699.1 YP_002699.1	hydroxymethylglutaryl-CoA lyase	metabolic process			132
ref YP_002320.1 YP_002320.1	cyclic nucleotide binding protein	metabolic process			118
ref YP_001268.1 YP_001268.1	phosphoglycolate phosphatase	metabolic process			118
ref YP_001626.1 YP_001626.1	enoyl-CoA hydratase	metabolic process			107
ref YP_000565.1 YP_000565.1	anthranilate synthase component II	metabolic process			92
ref YP_001252.1 YP_001252.1	hypothetical protein LIC11284	metabolic process			89
ref YP_001718.1 YP_001718.1	phosphomannomutase	metabolic process			85
ref YP_000664.1 YP_000664.1	hypothetical protein LIC10680	metabolic process			71
ref YP_002102.1 YP_002102.1	CMP-N-acetylneuraminic acid synthetase	metabolic process			71
sp Q72RA8 ARLY_LEPIC	Argininosuccinate lyase (EC 4.3.2.1) (Argininosuccinase) (ASAL)	metabolic process			64
ref YP_003140.1 YP_003140.1	short-chain dehydrogenase	metabolic process			64
ref YP_002091.1 YP_002091.1	oxidoreductase family protein	metabolic process			61
sp Q72QN9 PAND_LEPIC	Aspartate 1-decarboxylase precursor (EC 4.1.1.11) (Aspartate alpha-decarboxylase)	metabolic process			50
ref YP_002226.1 YP_002226.1	phosphoribosylaminoimidazole carboxylase catalytic subunit protein	metabolic process			50
sp Q72PM6 PLSX_LEPIC	Fatty acid/phospholipid synthesis protein plsX	metabolic process			37
ref YP_001699.1 YP_001699.1	long-chain-fatty-acid CoA ligase	metabolic process			37
ref YP_001452.1 YP_001452.1	hypothetical protein LIC11491	metabolic process			37
ref YP_001835.1 YP_001835.1	putative lipoprotein	metabolic process			14
ref YP_003609.1 YP_003609.1	glutamate synthase	metabolic process			11

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ref YP_001377.1 YP_001377.1	acyl-CoA thioesterase	metabolic process			8
ref YP_003051.1 YP_003051.1	hemolysin	metabolic process			8
ref YP_001058.1 YP_001058.1	cytochrome c peroxidase	metabolic process			
ref YP_000024.1 YP_000024.1	adenylate/guanylate cyclase	metabolic process			
ref YP_003110.1 YP_003110.1	cholesterol oxidase precursor	metabolic process			
ref YP_000586.1 YP_000586.1	lysophospholipase	metabolic process			343
ref YP_003396.1 YP_003396.1	5,10 methylene tetrahydrofolate reductase	metabolic process			304
ref YP_003414.1 YP_003414.1	azoreductase	metabolic process			269
sp Q72VB8 GPMI_LEPIC	2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.1) (Phosphoglyceromutase) (BPG	metabolic process			238
ref YP_002209.1 YP_002209.1	pyrroline-5-carboxylate reductase	metabolic process			230
ref YP_000443.1 YP_000443.1	adenosine deaminase	metabolic process			223
sp Q75FF2 ALR_LEPIC	Alanine racemase (EC 5.1.1.1)	metabolic process			223
ref YP_001574.1 YP_001574.1	ADP-L-glycero-D-mannoheptose-6-epimerase	metabolic process			211
ref YP_001592.1 YP_001592.1	CsgA	metabolic process			203
sp Q72NU6 MGSA_LEPIC	Methylglyoxal synthase (EC 4.2.3.3) (MGS)	metabolic process			200
ref YP_002073.1 YP_002073.1	UDP-N-acetylglucosamine 2-epimerase	metabolic process			185
sp Q72T46 MTNA_LEPIC	Probable methylthioribose-1-phosphate isomerase (EC 5.3.1.23) (MTR-1-P isomerase) (S-methyl-5-thiori	metabolic process			173
ref YP_003061.1 YP_003061.1	UDP-glucose 4-epimerase	metabolic process			173
ref YP_001314.1 YP_001314.1	acyl-CoA dehydrogenase	metabolic process			166
ref YP_002186.1 YP_002186.1	L-aspartate oxidase	metabolic process			151
ref YP_001040.1 YP_001040.1	alcohol dehydrogenase	metabolic process			140
ref YP_003277.1 YP_003277.1	phosphoadenosine phosphosulphate reductase	metabolic process			140
ref YP_000770.1 YP_000770.1	cyclic nucleotide binding protein	metabolic process			136
ref YP_000776.1 YP_000776.1	enoyl-CoA hydratase	metabolic process			136
ref YP_002093.1 YP_002093.1	putative hydroxyacid aldolase protein	metabolic process			136
ref YP_002108.1 YP_002108.1	N-acetylneuraminate synthase	metabolic process			129
ref YP_000527.1 YP_000527.1	acyl-CoA dehydrogenase	metabolic process			125
sp Q72W01 AROC_LEPIC	Chorismate synthase (EC 4.2.3.5) (5-enolpyruvylshikimate-3-phosphate phospholyase) - Leptospira inte	metabolic process			121
ref YP_000641.1 YP_000641.1	hemolysin	metabolic process			121
sp P62458 HISX_LEPIC	Histidinol dehydrogenase (EC 1.1.1.23) (HDH)	metabolic process			121
ref YP_002444.1 YP_002444.1	acetoacetyl-CoA synthetase	metabolic			114

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		process			
sp Q72U08 DXR_LEPIC	1-deoxy-D-xylulose 5-phosphate reductoisomerase (EC 1.1.1.267) (DXP reductoisomerase) (1-deoxyxylulose dihydrolypoamide dehydrogenase)	metabolic process			107
ref YP_001754.1 YP_001754.1	dihydrolypoamide dehydrogenase	metabolic process			107
ref YP_003080.1 YP_003080.1	hypothetical protein LIC13172	metabolic process			107
sp Q75FW3 AROB_LEPIC	3-dehydroquinate synthase (EC 4.2.3.4)	metabolic process			103
ref YP_002084.1 YP_002084.1	dTDP-4-dehydrorhamnose epimerase	metabolic process			103
ref YP_000444.1 YP_000444.1	hypothetical protein LIC10460	metabolic process			103
ref YP_000943.1 YP_000943.1	alpha-methylacyl-CoA racemase	metabolic process			100
ref YP_002463.1 YP_002463.1	riboflavin synthase subunit alpha	metabolic process			96
ref YP_001093.1 YP_001093.1	phosphoribosylaminoimidazole synthetase	metabolic process			89
ref YP_000185.1 YP_000185.1	short-chain dehydrogenase	metabolic process			89
ref YP_003423.1 YP_003423.1	short-chain dehydrogenase	metabolic process			89
ref YP_001629.1 YP_001629.1	glycerol-3-phosphate dehydrogenase	metabolic process			85
ref YP_000811.1 YP_000811.1	hypothetical protein LIC10834	metabolic process			85
ref YP_001159.1 YP_001159.1	hypothetical protein LIC11189	metabolic process			85
ref YP_001363.1 YP_001363.1	N-acetylneuraminate synthase	metabolic process			85
sp Q72U04 TRPA_LEPIC	Tryptophan synthase alpha chain (EC 4.2.1.20)	metabolic process			85
ref YP_002554.1 YP_002554.1	hemolysin	metabolic process			82
ref YP_002736.1 YP_002736.1	pyridoxal phosphate biosynthesis protein	metabolic process			82
ref YP_002309.1 YP_002309.1	capsule biosynthesis protein	metabolic process			82
ref YP_003336.1 YP_003336.1	dihydroorotate dehydrogenase	metabolic process			78
ref YP_000923.1 YP_000923.1	aldo/keto reductase	metabolic process			75
ref YP_000040.1 YP_000040.1	polysialic acid capsule expression protein	metabolic process			75
ref YP_000778.1 YP_000778.1	acyl-CoA dehydrogenase	metabolic process			71
ref YP_001129.1 YP_001129.1	dihydrolypoamide dehydrogenase	metabolic process			71
ref YP_000258.1 YP_000258.1	cyclic nucleotide binding protein	metabolic process			64
ref YP_003407.1 YP_003407.1	coproporphyrinogen III oxidase	metabolic process			64
ref YP_000625.1 YP_000625.1	diguanylate phosphodiesterase	metabolic process			64
ref YP_001939.1 YP_001939.1	hypothetical protein LIC12000	metabolic process			64
sp P62359 HISZ_LEPIC	ATP phosphoribosyltransferase regulatory subunit	metabolic process			61
ref YP_002139.1 YP_002139.1	FAD-dependent oxidoreductase family	metabolic process			57
ref YP_001253.1 YP_001253.1	hypothetical protein LIC11285	metabolic process			57

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ref YP_001701.1 YP_001701.1	hypothetical protein LIC11749	metabolic process			57
ref YP_000039.1 YP_000039.1	3-dehydroquinate dehydratase	metabolic process			54
ref YP_002059.1 YP_002059.1	dTDP-4-dehydrorhamnose reductase	metabolic process			54
sp Q72MT7 G6PI_LEPIC	Glucose-6-phosphate isomerase (EC 5.3.1.9) (GPI) (Phosphoglucose isomerase) (PGI) (Phosphohexose iso	metabolic process			50
ref YP_000285.1 YP_000285.1	hypothetical protein LIC10295	metabolic process			47
ref YP_002263.1 YP_002263.1	hypothetical protein LIC12331	metabolic process			47
ref YP_003168.1 YP_003168.1	hypothetical protein LIC13261	metabolic process			47
ref YP_002035.1 YP_002035.1	CinA	metabolic process			47
ref YP_001321.1 YP_001321.1	alcohol dehydrogenase	metabolic process			44
ref YP_001890.1 YP_001890.1	GMP synthase	metabolic process			44
ref YP_000183.1 YP_000183.1	hypothetical protein LIC10192	metabolic process			44
ref YP_001415.1 YP_001415.1	pantoate--beta-alanine ligase	metabolic process			44
ref YP_003050.1 YP_003050.1	pantothenate metabolism flavoprotein	metabolic process			44
ref YP_001264.1 YP_001264.1	hypothetical protein LIC11298	metabolic process			44
ref YP_001668.1 YP_001668.1	hypothetical protein LIC11716	metabolic process			40
ref YP_001075.1 YP_001075.1	methylmalonyl-CoA mutase	metabolic process			40
ref YP_000710.1 YP_000710.1	riboflavin biosynthesis protein	metabolic process			40
ref YP_003640.1 YP_003640.1	pterin-4-alpha-carbinolamine dehydratase	metabolic process			37
ref YP_002079.1 YP_002079.1	putative glycosyltransferase	metabolic process			37
ref YP_003472.1 YP_003472.1	4-hydroxybenzoyl-CoA thioesterase	metabolic process			34
ref YP_000022.1 YP_000022.1	arsenate reductase	metabolic process			34
ref YP_002481.1 YP_002481.1	D-3-phosphoglycerate dehydrogenase	metabolic process			34
ref YP_002901.1 YP_002901.1	lipase	metabolic process			34
ref YP_002495.1 YP_002495.1	hypothetical protein LIC12570	metabolic process			34
ref YP_003122.1 YP_003122.1	putative cytochrome oxidase subunit	metabolic process			34
sp Q72UP7 ISPF_LEPIC	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (EC 4.6.1.12) (MECPS) (MECDP-synthase)	metabolic process			30
sp Q72PM1 AROA_LEPIC	3-phosphoshikimate 1-carboxyvinyltransferase (EC 2.5.1.19) (5-enolpyruvylshikimate-3-phosphate synth	metabolic process			30
ref YP_000277.1 YP_000277.1	6-pyruvoyl tetrahydrobiopterin synthase	metabolic process			30
ref YP_001235.1 YP_001235.1	putative 6-pyruvoyl tetrahydrobiopterin synthase	metabolic process			30
ref YP_002098.1 YP_002098.1	hypothetical protein LIC12163	metabolic process			27
ref YP_002266.1 YP_002266.1	lipoate-protein ligase a	metabolic			27

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		process			
ref YP_000194.1 YP_000194.1	oxidoreductase	metabolic process			27
ref YP_003049.1 YP_003049.1	panthotenate metabolism flavoprotein	metabolic process			27
ref YP_001513.1 YP_001513.1	ribulose-5-phosphate 3-epimerase	metabolic process			27
ref YP_002112.1 YP_002112.1	CMP-N-acetylneuraminic acid synthetase	metabolic process			27
sp Q72V75 ISPE_LEPIC	4-diphosphocytidyl-2-C-methyl-D-erythritol kinase (EC 2.7.1.148) (CMK) (4-(cytidine-5'-diphospho)-2-	metabolic process			24
ref YP_001015.1 YP_001015.1	adenylate or guanylate cyclase	metabolic process			24
ref YP_003239.1 YP_003239.1	GMC oxidoreductase	metabolic process			24
ref YP_001744.1 YP_001744.1	hypothetical protein LIC11792	metabolic process			24
sp Q72NP6 TRPC_LEPIC	Indole-3-glycerol phosphate synthase (EC 4.1.1.48) (IGPS)	metabolic process			24
ref YP_002848.1 YP_002848.1	mannose-6-phosphate isomerase	metabolic process			24
ref YP_002889.1 YP_002889.1	putative lipoprotein	metabolic process			24
ref YP_000313.1 YP_000313.1	2,3-bisphosphoglycerate-independent phosphoglycerate mutase gene	metabolic process			24
ref YP_000790.1 YP_000790.1	cytochrome C biogenesis protein	metabolic process			24
ref YP_000326.1 YP_000326.1	hypothetical protein LIC10336	metabolic process			24
sp Q72PF1 PDXH_LEPIC	Pyridoxamine 5'-phosphate oxidase (EC 1.4.3.5) (PNP/PMP oxidase) (PNPOx)	metabolic process			24
ref YP_002604.1 YP_002604.1	3-oxoacyl-(acyl carrier protein)	metabolic process			21
ref YP_003116.1 YP_003116.1	riboflavin-specific deaminase/reductase	metabolic process			21
ref YP_002841.1 YP_002841.1	cytochrome c peroxidase	metabolic process			21
ref YP_003583.1 YP_003583.1	hypothetical protein LIC20192	metabolic process			21
ref YP_002224.1 YP_002224.1	oligo-1,6- glucosidase	metabolic process			21
sp Q72RD4 GSH1_LEPIC	Glutamate--cysteine ligase (EC 6.3.2.2) (Gamma-glutamylcysteine synthetase) (Gamma-ECS) (GCS)	metabolic process			17
ref YP_003315.1 YP_003315.1	glycerol-3-phosphate acyltransferase	metabolic process			17
ref YP_003041.1 YP_003041.1	NAD(P)H steroid dehydrogenase	metabolic process			17
sp Q75FF4 SPEH_LEPIC	S-adenosylmethionine decarboxylase proenzyme (EC 4.1.1.50) (AdoMetDC) (SamDC)	metabolic process			17
ref YP_003578.1 YP_003578.1	hypothetical protein LIC20187	metabolic process			17
sp Q72TI2 MURI_LEPIC	Glutamate racemase (EC 5.1.1.3)	metabolic process			17
ref YP_002639.1 YP_002639.1	putative enolase-phosphatase E-1	metabolic process			14
ref YP_002071.1 YP_002071.1	UDP-glucose lipid carrier transferase	metabolic process			14
ref YP_000201.1 YP_000201.1	cytochrome/quinol oxidase subunit 3	metabolic process			14
ref YP_002434.1 YP_002434.1	adenylate/guanylate cyclase	metabolic process			11

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ref YP_001761.1 YP_001761.1	hypothetical protein LIC11810	metabolic process			11
ref YP_003187.1 YP_003187.1	MaoC family protein	metabolic process			11
ref YP_002379.1 YP_002379.1	prephenate (chorismate) dehydrogenase	metabolic process			11
ref YP_001728.1 YP_001728.1	hypothetical protein LIC11776	metabolic process			11
ref YP_003273.1 YP_003273.1	siroheme synthetase	metabolic process			11
ref YP_000578.1 YP_000578.1	2-dehydropantoate 2-reductase	metabolic process			8
ref YP_003271.1 YP_003271.1	putative strictosidine synthase	metabolic process			8
ref YP_002916.1 YP_002916.1	short-chain dehydrogenase	metabolic process			8
ref YP_000789.1 YP_000789.1	cytochrome c-type biogenesis precursor	metabolic process			8
ref YP_000198.1 YP_000198.1	SCO1/SenC family protein	metabolic process			8
ref YP_000094.1 YP_000094.1	2'-5' RNA ligase	metabolic process			5
ref YP_001567.1 YP_001567.1	3-octaprenyl-4-hydroxybenzoate carboxylase	metabolic process			5
ref YP_001545.1 YP_001545.1	alcohol dehydrogenase	metabolic process			5
ref YP_000245.1 YP_000245.1	hypothetical protein LIC10254	metabolic process			5
ref YP_000095.1 YP_000095.1	para-aminobenzoate synthase component I	metabolic process			5
ref YP_000878.1 YP_000878.1	adenylate/guanylate cyclase	metabolic process			2
ref YP_003214.1 YP_003214.1	4-hydroxybenzoyl-CoA thioesterase	metabolic process			
ref YP_000617.1 YP_000617.1	benzene 1,2-dioxygenase system ferredoxin component	metabolic process			
ref YP_003103.1 YP_003103.1	cholesterol oxidase precursor	metabolic process			
ref YP_002518.1 YP_002518.1	fumarylacetoacetate hydrolase family protein	metabolic process			
ref YP_000601.1 YP_000601.1	gamma-glutamyl carboxylase-like protein	metabolic process			
ref YP_002613.1 YP_002613.1	hypothetical protein LIC12692	metabolic process			
sp Q72R82 MRAY_LEPIC	Phospho-N-acetylmuramoyl-pentapeptide-transferase (EC 2.7.8.13) (UDP-MurNAc-pentapeptide phosphotran	metabolic process			
ref YP_003522.1 YP_003522.1	precorrin isomerase	metabolic process			
ref YP_000791.1 YP_000791.1	cytochrome c-type biogenesis protein	metabolic process			
ref YP_003584.1 YP_003584.1	4-hydroxybutyrate CoA transferase	metabolic process			
ref YP_001307.1 YP_001307.1	adenylate/guanylate cyclase	metabolic process			
ref YP_002521.1 YP_002521.1	adenylate/guanylate cyclase	metabolic process			
ref YP_003118.1 YP_003118.1	permease of the major facilitator superfamily	metabolic process			
ref YP_000186.1 YP_000186.1	photoproduct lyase	metabolic process			
ref YP_001544.1 YP_001544.1	tautomerase	metabolic process			
ref YP_001568.1 YP_001568.1	4-hydroxybenzoate octaprenyltransferase	metabolic			

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		process			
ref YP_000511.1 YP_000511.1	arsenate reductase	metabolic process			
ref YP_003132.1 YP_003132.1	glycerol-3-phosphate Pi antiporter	metabolic process			
ref YP_003106.1 YP_003106.1	hemolysin/sphingomyelinase-like	metabolic process			
ref YP_002956.1 YP_002956.1	hypothetical protein LIC13044	metabolic process			
ref YP_003409.1 YP_003409.1	protoporphyrinogen oxidase	metabolic process			
ref YP_001375.1 YP_001375.1	coproporphyrinogen III oxidase	metabolic process			
ref YP_003263.1 YP_003263.1	phosphoglycerate mutase	metabolic process			
ref YP_003280.1 YP_003280.1	FAD-dependent oxiredutase	metabolic process			
ref YP_000071.1 YP_000071.1	hypothetical protein LIC10071	metabolic process			
ref YP_003400.1 YP_003400.1	glutamyl-tRNA reductase	metabolic process			
ref YP_003406.1 YP_003406.1	uroporphyrinogen decarboxylase	metabolic process			
ref YP_003046.1 YP_003046.1	UDP-N-acetylenolpyruvoylglucosamine reductase	metabolic process			
ref YP_001809.1 YP_001809.1	3-hydroxyisobutyrate dehydrogenase	metabolic process			
ref YP_000196.1 YP_000196.1	cytochrome oxidase assembly protein	metabolic process			
ref YP_001687.1 YP_001687.1	2-dehydropantoate 2-reductase	metabolic process			
ref YP_002254.1 YP_002254.1	3-oxoacyl-acyl-carrier protein] reductase	metabolic process			
ref YP_003614.1 YP_003614.1	3-oxoacyl-acyl-carrier protein] reductase	metabolic process			
ref YP_003486.1 YP_003486.1	adenylate/guanylate cyclase	metabolic process			
ref YP_002917.1 YP_002917.1	adenylate/guanylate cyclase	metabolic process			
ref YP_002984.1 YP_002984.1	adenylate/guanylate cyclase	metabolic process			
ref YP_000236.1 YP_000236.1	adenylate/guanylate cyclase	metabolic process			
ref YP_002592.1 YP_002592.1	adenylate/guanylate cyclase	metabolic process			
ref YP_003467.1 YP_003467.1	adenylate/guanylate cyclase	metabolic process			
ref YP_003117.1 YP_003117.1	bacterioferritin-associated ferredoxin	metabolic process			
ref YP_001563.1 YP_001563.1	dihydrolipoamide acetyltransferase	metabolic process			
ref YP_001010.1 YP_001010.1	hemolysin	metabolic process			
ref YP_000274.1 YP_000274.1	hemolysin A	metabolic process			
ref YP_001407.1 YP_001407.1	hydroxypyruvate reductase	metabolic process			
ref YP_000632.1 YP_000632.1	hypothetical protein LIC10648	metabolic process			
ref YP_002826.1 YP_002826.1	hypothetical protein LIC12910	metabolic process			
ref YP_002323.1 YP_002323.1	oxidoreductase	metabolic process			
ref YP_003519.1 YP_003519.1	precorrin methylase	metabolic			

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		process			
ref YP_003463.1 YP_003463.1	putative FAD-dependent dehydrogenase	metabolic process			
ref YP_001115.1 YP_001115.1	short chain dehydrogenase	metabolic process			
ref YP_000974.1 YP_000974.1	short-chain dehydrogenase	metabolic process			
ref YP_000031.1 YP_000031.1	beta-galactosidase	metabolic process			
ref YP_001390.1 YP_001390.1	capsule biosynthesis protein	metabolic process			
ref YP_001389.1 YP_001389.1	capsule biosynthesis protein	metabolic process			
sp Q75FR2 COBD_LEPIC	Cobalamin biosynthesis protein cobD	metabolic process			
sp Q72M34 COBS_LEPIC	Cobalamin synthase (EC 2.-.-.-)	metabolic process			
ref YP_001169.1 YP_001169.1	cyclic nucleotide binding patatin-like phospholipase	metabolic process			
ref YP_000195.1 YP_000195.1	cytochrome C oxidase assembly protein	metabolic process			
ref YP_000946.1 YP_000946.1	cytochrome c peroxidase	metabolic process			
ref YP_000336.1 YP_000336.1	esterase	metabolic process			
ref YP_002754.1 YP_002754.1	hypothetical protein LIC12838	metabolic process			
ref YP_002149.1 YP_002149.1	putative cytochrome oxidase assembly factor	metabolic process			
ref YP_001824.1 YP_001824.1	putative hydrolase	metabolic process			
ref YP_001834.1 YP_001834.1	putative lipoprotein	no_GO	5276	4808	1727
ref YP_002221.1 YP_002221.1	putative lipoprotein	no_GO	5168	3544	292
ref YP_001318.1 YP_001318.1	S-adenosylmethionine synthetase	no_GO	4492	3211	1494
ref YP_000009.1 YP_000009.1	putative lipoprotein	no_GO	1420	2434	292
ref YP_000856.1 YP_000856.1	putative lipoprotein	no_GO	1415	1606	57
ref YP_001783.1 YP_001783.1	putative lipoprotein	no_GO	1569	1010	249
ref YP_000902.1 YP_000902.1	putative lipoprotein	no_GO	870	967	375
ref YP_002468.1 YP_002468.1	YajC	no_GO	447	834	44
ref YP_002971.1 YP_002971.1	putative lipoprotein	no_GO	556	723	110
sp Q8FOT5 Y3406_LEPIN	UPF0234 protein LA_3406	no_GO	710	662	203
ref YP_000291.1 YP_000291.1	putative lipoprotein	no_GO	425	619	34
ref YP_003157.1 YP_003157.1	apolipoprotein n-acyltransferase	no_GO	585	584	92
ref YP_001265.1 YP_001265.1	putative lipoprotein	no_GO	677	571	5
ref YP_000491.1 YP_000491.1	putative lipoprotein	no_GO	515	529	34
ref YP_001692.1 YP_001692.1	PmbA	no_GO	419	447	363
ref YP_001028.1 YP_001028.1	putative lipoprotein	no_GO		383	
ref YP_000531.1 YP_000531.1	putative lipoprotein	no_GO	582	369	37
ref YP_003246.1 YP_003246.1	putative lipoprotein	no_GO	175	351	24
ref YP_000242.1 YP_000242.1	Rad50-like protein	no_GO		234	8
ref YP_001693.1 YP_001693.1	TldD	no_GO	244	217	166
ref YP_002811.1 YP_002811.1	putative lipoprotein	no_GO	173	211	30
ref YP_000054.1 YP_000054.1	putative lipoprotein	no_GO	701		44
ref YP_000697.1 YP_000697.1	putative lipoprotein	no_GO	416		129
ref YP_000301.1 YP_000301.1	glycine cleavage T protein	no_GO			304
ref YP_001018.1 YP_001018.1	molybdate metabolism regulator	no_GO			230
ref YP_000532.1 YP_000532.1	uracil-DNA glycosylase	no_GO			230
ref YP_002223.1 YP_002223.1	putative lipoprotein	no_GO			57
sp Q72NZ6 Y2681_LEPIC	UPF0345 protein LIC_12681	no_GO			50
ref YP_002421.1 YP_002421.1	putative lipoprotein	no_GO			47
ref YP_003494.1 YP_003494.1	pheromone shutdown protein	no_GO			30
ref YP_002430.1 YP_002430.1	putative sigma-54 modulation protein	no_GO			27
ref YP_000355.1 YP_000355.1	putative lipoprotein	no_GO			21

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ref YP_001892.1 YP_001892.1	putative lipoprotein	no_GO			14
ref YP_001663.1 YP_001663.1	putative lipoprotein	no_GO			11
ref YP_000774.1 YP_000774.1	putative lipoprotein	no_GO			11
ref YP_001851.1 YP_001851.1	putative lipoprotein	no_GO			8
ref YP_001940.1 YP_001940.1	succinate dehydrogenase cytochrome B subunit	no_GO			5
ref YP_001705.1 YP_001705.1	exopolysaccharide production protein	no_GO			
ref YP_000895.1 YP_000895.1	putative lipoprotein	no_GO			
ref YP_003531.1 YP_003531.1	putative permease	no_GO			
ref YP_000007.1 YP_000007.1	nifR3-like protein	no_GO			
ref YP_002863.1 YP_002863.1	shikimate 5-dehydrogenase	no_GO			132
ref YP_002992.1 YP_002992.1	pirin-like protein	no_GO			85
ref YP_002292.1 YP_002292.1	pirin-like protein	no_GO			71
ref YP_002939.1 YP_002939.1	ThiJ/Pfpl family protein	no_GO			61
ref YP_002744.1 YP_002744.1	soluble lytic transglycosylase	no_GO			57
ref YP_001092.1 YP_001092.1	putative lipoprotein	no_GO			47
ref YP_002978.1 YP_002978.1	putative lipoprotein	no_GO			47
ref YP_000131.1 YP_000131.1	SET domain-containing protein	no_GO			47
sp Q72SJ7 Y1384_LEPIC	UPF0296 protein LIC_11384	no_GO			44
ref YP_001231.1 YP_001231.1	RodA	no_GO			40
ref YP_001104.1 YP_001104.1	histone deacetylase	no_GO			37
ref YP_002188.1 YP_002188.1	putative lipoprotein	no_GO			37
ref YP_003059.1 YP_003059.1	putative lipoprotein	no_GO			37
ref YP_001246.1 YP_001246.1	putative acetyl-coa carboxylase/pyruvate carboxylase	no_GO			34
ref YP_000970.1 YP_000970.1	putative diguanylate phosphodiesterase	no_GO			30
sp Q8CXS1 Y3128_LEPIN	UPF0176 protein LA_3128 - Leptospira interrogans	no_GO			27
ref YP_002048.1 YP_002048.1	putative lipoprotein	no_GO			24
sp Q72LS6 Y3475_LEPIC	UPF0133 protein LIC_13475	no_GO			24
ref YP_001759.1 YP_001759.1	BolA-like protein	no_GO			24
ref YP_001216.1 YP_001216.1	cGMP-specific phosphodiesterase	no_GO			21
ref YP_003243.1 YP_003243.1	putative lipoprotein	no_GO			21
ref YP_000910.1 YP_000910.1	fruiting body developmental protein	no_GO			17
ref YP_000284.1 YP_000284.1	GlcG	no_GO			14
ref YP_002511.1 YP_002511.1	putative lipoprotein	no_GO			14
ref YP_000275.1 YP_000275.1	putative acetyltransferase	no_GO			14
ref YP_003045.1 YP_003045.1	cGMP-specific phosphodiesterase	no_GO			8
ref YP_001137.1 YP_001137.1	putative lipoprotein	no_GO			8
ref YP_002143.1 YP_002143.1	putative lipoprotein	no_GO			8
ref YP_002747.1 YP_002747.1	SAM dependent methyltransferase	no_GO			8
ref YP_000268.1 YP_000268.1	thioredoxin-like protein	no_GO			8
ref YP_003504.1 YP_003504.1	periplasmic protein, LipL45 homologue	no_GO			5
ref YP_001526.1 YP_001526.1	putative lipoprotein	no_GO			5
ref YP_001725.1 YP_001725.1	N-(5'-phosphoribosyl)anthranilate isomerase	no_GO			5
ref YP_000358.1 YP_000358.1	putative lipoprotein	no_GO			5
ref YP_001550.1 YP_001550.1	conserved putative permease protein	no_GO			
ref YP_003186.1 YP_003186.1	putative acetyl CoA acetyltransferase	no_GO			
ref YP_002589.1 YP_002589.1	putative lipoprotein	no_GO			
ref YP_002701.1 YP_002701.1	putative lipoprotein	no_GO			
sp Q72NX1 Y2707_LEPIC	UPF0090 protein LIC_12707	no_GO			
sp Q72M93 Y3295_LEPIC	UPF0189 protein LIC_13295	no_GO			
ref YP_001616.1 YP_001616.1	putative lipoprotein	no_GO			
ref YP_001829.1 YP_001829.1	putative lipoprotein	no_GO			
ref YP_003123.1 YP_003123.1	putative lipoprotein	no_GO			
ref YP_000938.1 YP_000938.1	TonB-dependent outer membrane hemin receptor	no_GO			
ref YP_003166.1 YP_003166.1	putative lipoprotein	no_GO			
ref YP_001162.1 YP_001162.1	ChpI	no_GO			
ref YP_001454.1 YP_001454.1	GldG	no_GO			
ref YP_000492.1 YP_000492.1	putative lipoprotein	no_GO			
ref YP_000909.1 YP_000909.1	fruiting body developmental protein	no_GO			

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ref YP_000493.1 YP_000493.1	putative lipoprotein	no_GO			
ref YP_001122.1 YP_001122.1	pseudouridylate synthase, 23S RNA-specific	no_GO			
ref YP_002582.1 YP_002582.1	putative virulence-associated protein	no_GO			
ref YP_002987.1 YP_002987.1	putative lipoprotein	no_GO			
ref YP_000984.1 YP_000984.1	guanosine polyphosphate pyrophosphohydrolase/synthetase	no_GO			
ref YP_000021.1 YP_000021.1	putative lipoprotein	no_GO			
ref YP_002038.1 YP_002038.1	RecO	no_GO			
ref YP_001948.1 YP_001948.1	1-aminocyclopropane-1-carboxylate deaminase	no_GO			
ref YP_001572.1 YP_001572.1	A/G specific adenine glycosylase	no_GO			
ref YP_001087.1 YP_001087.1	alpha-glucosidase	no_GO			
ref YP_000904.1 YP_000904.1	anticodon nuclease	no_GO			
sp Q72PB6 LNT1_LEPIC	Apolipoprotein N-acyltransferase 1 (EC 2.3.1.-) (ALP N-acyltransferase 1)	no_GO			
ref YP_002874.1 YP_002874.1	ATP-dependent DNA helicase	no_GO			
ref YP_002599.1 YP_002599.1	ATP-dependent DNA ligase	no_GO			
ref YP_001496.1 YP_001496.1	ATP-dependent protease-like La	no_GO			
ref YP_003433.1 YP_003433.1	BatB	no_GO			
ref YP_001757.1 YP_001757.1	BolA-like protein	no_GO			
ref YP_001329.1 YP_001329.1	C-5 sterol desaturase	no_GO			
ref YP_002296.1 YP_002296.1	CagA	no_GO			
sp Q72MJ6 CSRA_LEPIC	Carbon storage regulator homolog	no_GO			
ref YP_000261.1 YP_000261.1	cell wall hydrolase	no_GO			
ref YP_002946.1 YP_002946.1	chitinase	no_GO			
ref YP_001094.1 YP_001094.1	chloride channel	no_GO			
ref YP_001163.1 YP_001163.1	ChpK	no_GO			
ref YP_002963.1 YP_002963.1	ComFC-like protein	no_GO			
ref YP_002319.1 YP_002319.1	conserved putative permease protein	no_GO			
ref YP_003516.1 YP_003516.1	corrinoid ATP adenosyltransferase	no_GO			
ref YP_003417.1 YP_003417.1	cyclic nucleotide binding protein	no_GO			
ref YP_001263.1 YP_001263.1	cyclopropane-fatty-acyl-phospholipid synthase/methyltransferase	no_GO			
ref YP_003374.1 YP_003374.1	cytidine deaminase	no_GO			
ref YP_003444.1 YP_003444.1	fatty acid desaturase	no_GO			
ref YP_002965.1 YP_002965.1	fatty acid desaturase	no_GO			
ref YP_001244.1 YP_001244.1	fatty acyltransferase	no_GO			
ref YP_001309.1 YP_001309.1	ferrichrome-iron receptor	no_GO			
ref YP_003410.1 YP_003410.1	ferrochelatase	no_GO			
sp Q72SIO FEOB_LEPIC	Ferrous iron transport protein B -	no_GO			
ref YP_003568.1 YP_003568.1	FimH-like protein	no_GO			
ref YP_002602.1 YP_002602.1	FimH-like protein	no_GO			
ref YP_001291.1 YP_001291.1	flagella basal body P-ring formation protein precursor	no_GO			
ref YP_002884.1 YP_002884.1	FtsQ	no_GO			
ref YP_002120.1 YP_002120.1	fucose synthetase	no_GO			
ref YP_001455.1 YP_001455.1	GldF	no_GO			
ref YP_003389.1 YP_003389.1	glucose inhibited division protein B	no_GO			
ref YP_000572.1 YP_000572.1	glutamine amidotransferase	no_GO			
ref YP_000706.1 YP_000706.1	glycerol uptake facilitator protein	no_GO			
ref YP_001382.1 YP_001382.1	GNAT family N-acetyltransferase	no_GO			
sp Q72PQ1 ENGA_LEPIC	GTP-binding protein engA	no_GO			
ref YP_001617.1 YP_001617.1	HNH endonuclease family	no_GO			
ref YP_002847.1 YP_002847.1	HNH endonuclease family	no_GO			
sp Q72U18 ACPS_LEPIC	Holo-acyl-carrier-protein] synthase (EC 2.7.8.7) (Holo-ACP synthase) (4'-phosphopantetheinyl transf	no_GO			
ref YP_002678.1 YP_002678.1	Hsa	no_GO			
ref YP_000537.1 YP_000537.1	hydrolase	no_GO			
ref YP_000333.1 YP_000333.1	integrase/recombinase	no_GO			
ref YP_003415.1 YP_003415.1	intercellular adhesion protein C	no_GO			
ref YP_001464.1 YP_001464.1	iron-sulfur cluster-binding protein	no_GO			

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sp Q72W44 LFTR_LEPIC	Leucyl/phenylalanyl-tRNA--protein transferase (EC 2.3.2.6) (L/F-transferase) (Leucyltransferase) (Ph	no_GO			
ref YP_003545.1 YP_003545.1	lipoprotein	no_GO			
ref YP_003567.1 YP_003567.1	lipoprotein	no_GO			
sp Q72PS8 LSPA_LEPIC	Lipoprotein signal peptidase (EC 3.4.23.36) (Prolipoprotein signal peptidase) (Signal peptidase II)	no_GO			
ref YP_001706.1 YP_001706.1	lipoprotein with phospholipase D domain	no_GO			
sp Q72QP1 LIPB_LEPIC	Lipoyltransferase (EC 2.3.1.-) (Lipoyl-	no_GO			
ref YP_003466.1 YP_003466.1	long-chain-fatty-acid--CoA ligase	no_GO			
ref YP_001038.1 YP_001038.1	lysozyme precursor	no_GO			
sp Q72WC1 Y016_LEPIC	Maf-like protein LIC_10016	no_GO			
ref YP_003142.1 YP_003142.1	malate permease	no_GO			
sp Q75FL1 UBIE_LEPIC	Menaquinone biosynthesis methyltransferase ubiE (EC 2.1.1.-)	no_GO			
ref YP_003159.1 YP_003159.1	methylamine utilization ferredoxin-type protein	no_GO			
ref YP_000666.1 YP_000666.1	methylamine utilization protein/Cytochrome c peroxidase	no_GO			
ref YP_003299.1 YP_003299.1	monooxygenase	no_GO			
ref YP_001229.1 YP_001229.1	MreD	no_GO			
ref YP_000248.1 YP_000248.1	MutT/nudix family protein	no_GO			
ref YP_002201.1 YP_002201.1	Na+/H+ antiporter	no_GO			
ref YP_002632.1 YP_002632.1	N-acetylglutamate synthase/acetyltransferase	no_GO			
ref YP_003077.1 YP_003077.1	NorM	no_GO			
ref YP_001135.1 YP_001135.1	nucleotidyltransferase domain protein	no_GO			
ref YP_002867.1 YP_002867.1	oligopeptide ABC transport system permease protein	no_GO			
ref YP_002293.1 YP_002293.1	permease	no_GO			
ref YP_000956.1 YP_000956.1	permease of the drug/metabolite transporter superfamily	no_GO			
ref YP_003596.1 YP_003596.1	permease of the major facilitator superfamily	no_GO			
ref YP_001131.1 YP_001131.1	phenazine biosynthesis-like protein	no_GO			
ref YP_000673.1 YP_000673.1	phosphate transport system protein	no_GO			
ref YP_001077.1 YP_001077.1	phosphatidylglycerophosphatase B	no_GO			
ref YP_001853.1 YP_001853.1	phosphatidylglycerophosphate synthase related protein	no_GO			
ref YP_002235.1 YP_002235.1	phosphatidylserine synthase	no_GO			
ref YP_003510.1 YP_003510.1	phosphoglycerate mutase	no_GO			
ref YP_001364.1 YP_001364.1	phosphoglycerol transferase related protein	no_GO			
ref YP_000143.1 YP_000143.1	polyketide synthase	no_GO			
ref YP_002069.1 YP_002069.1	polysaccharide biosynthesis export protein	no_GO			
ref YP_003520.1 YP_003520.1	precorrin-2 C-20 methyltransferase	no_GO			
ref YP_003517.1 YP_003517.1	precorrin-4-methylase	no_GO			
ref YP_003521.1 YP_003521.1	precorrin-6y methylase	no_GO			
ref YP_002354.1 YP_002354.1	prepilin leader peptidase	no_GO			
sp Q72V65 SPEE1_LEPIC	Probable spermidine synthase 1 (EC 2.5.1.16) (Putrescine aminopropyltransferase 1) (SPDSY 1)	no_GO			
sp Q72V37 CRCB_LEPIC	Protein crcB homolog	no_GO			
ref YP_002477.1 YP_002477.1	protein-L-isoaspartate O-methyltransferase	no_GO			
ref YP_000642.1 YP_000642.1	proton antiporter efflux pump	no_GO			
ref YP_000059.1 YP_000059.1	proton glutamate symport protein	no_GO			
ref YP_000279.1 YP_000279.1	proton-translocating transhydrogenase subunit alpha 2	no_GO			
ref YP_001605.1 YP_001605.1	pseudouridylate synthase	no_GO			
sp P62642 CHEB2_LEPIC	Putative chemotaxis protein-glutamate methyltransferase (EC 3.1.1.61)	no_GO			

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sp P61986 CBID_LEPIC	Putative cobalt-precorrin-6A synthase	no_GO			
ref YP_000668.1 YP_000668.1	putative cytochrome c	no_GO			
ref YP_001867.1 YP_001867.1	putative diguanylate phosphodiesterase	no_GO			
ref YP_003029.1 YP_003029.1	putative diguanylate phosphodiesterase	no_GO			
ref YP_003498.1 YP_003498.1	putative diguanylate phosphodiesterase	no_GO			
ref YP_001156.1 YP_001156.1	putative flagellar protein	no_GO			
ref YP_003087.1 YP_003087.1	putative globin	no_GO			
ref YP_001557.1 YP_001557.1	putative integrase/recombinase protein	no_GO			
ref YP_000018.1 YP_000018.1	putative lipoprotein	no_GO			
ref YP_000251.1 YP_000251.1	putative lipoprotein	no_GO			
ref YP_000363.1 YP_000363.1	putative lipoprotein	no_GO			
ref YP_000445.1 YP_000445.1	putative lipoprotein	no_GO			
ref YP_000447.1 YP_000447.1	putative lipoprotein	no_GO			
ref YP_000478.1 YP_000478.1	putative lipoprotein	no_GO			
ref YP_000546.1 YP_000546.1	putative lipoprotein	no_GO			
ref YP_000688.1 YP_000688.1	putative lipoprotein	no_GO			
ref YP_000712.1 YP_000712.1	putative lipoprotein	no_GO			
ref YP_000716.1 YP_000716.1	putative lipoprotein	no_GO			
ref YP_000803.1 YP_000803.1	putative lipoprotein	no_GO			
ref YP_000991.1 YP_000991.1	putative lipoprotein	no_GO			
ref YP_001043.1 YP_001043.1	putative lipoprotein	no_GO			
ref YP_001057.1 YP_001057.1	putative lipoprotein	no_GO			
ref YP_001060.1 YP_001060.1	putative lipoprotein	no_GO			
ref YP_001114.1 YP_001114.1	putative lipoprotein	no_GO			
ref YP_001154.1 YP_001154.1	putative lipoprotein	no_GO			
ref YP_001324.1 YP_001324.1	putative lipoprotein	no_GO			
ref YP_001478.1 YP_001478.1	putative lipoprotein	no_GO			
ref YP_001675.1 YP_001675.1	putative lipoprotein	no_GO			
ref YP_001836.1 YP_001836.1	putative lipoprotein	no_GO			
ref YP_001862.1 YP_001862.1	putative lipoprotein	no_GO			
ref YP_002222.1 YP_002222.1	putative lipoprotein	no_GO			
ref YP_002656.1 YP_002656.1	putative lipoprotein	no_GO			
ref YP_002796.1 YP_002796.1	putative lipoprotein	no_GO			
ref YP_002808.1 YP_002808.1	putative lipoprotein	no_GO			
ref YP_002822.1 YP_002822.1	putative lipoprotein	no_GO			
ref YP_002878.1 YP_002878.1	putative lipoprotein	no_GO			
ref YP_002924.1 YP_002924.1	putative lipoprotein	no_GO			
ref YP_002948.1 YP_002948.1	putative lipoprotein	no_GO			
ref YP_002988.1 YP_002988.1	putative lipoprotein	no_GO			
ref YP_003162.1 YP_003162.1	putative lipoprotein	no_GO			
ref YP_003163.1 YP_003163.1	putative lipoprotein	no_GO			
ref YP_003210.1 YP_003210.1	putative lipoprotein	no_GO			
ref YP_003260.1 YP_003260.1	putative lipoprotein	no_GO			
ref YP_003314.1 YP_003314.1	putative lipoprotein	no_GO			
ref YP_003350.1 YP_003350.1	putative lipoprotein	no_GO			
ref YP_003363.1 YP_003363.1	putative lipoprotein	no_GO			
ref YP_003364.1 YP_003364.1	putative lipoprotein	no_GO			
ref YP_000482.1 YP_000482.1	putative lipoprotein	no_GO			
ref YP_000297.1 YP_000297.1	putative lipoprotein	no_GO			
ref YP_002998.1 YP_002998.1	putative lipoprotein	no_GO			
ref YP_000354.1 YP_000354.1	putative lipoprotein	no_GO			
ref YP_000754.1 YP_000754.1	putative lipoprotein	no_GO			
ref YP_000088.1 YP_000088.1	putative lipoprotein	no_GO			
ref YP_000670.1 YP_000670.1	putative lipoprotein	no_GO			
ref YP_000807.1 YP_000807.1	putative lipoprotein	no_GO			
ref YP_001000.1 YP_001000.1	putative lipoprotein	no_GO			
ref YP_002611.1 YP_002611.1	putative lipoprotein	no_GO			
ref YP_000359.1 YP_000359.1	putative lipoprotein	no_GO			
ref YP_001177.1 YP_001177.1	putative lipoprotein	no_GO			
ref YP_000485.1 YP_000485.1	putative lipoprotein	no_GO			
ref YP_000629.1 YP_000629.1	putative lipoprotein	no_GO			
ref YP_002249.1 YP_002249.1	putative lipoprotein	no_GO			
ref YP_001199.1 YP_001199.1	putative lipoprotein	no_GO			

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ref YP_001223.1 YP_001223.1	putative lipoprotein	no_GO			
ref YP_003155.1 YP_003155.1	putative lipoprotein	no_GO			
ref YP_002144.1 YP_002144.1	putative lipoprotein	no_GO			
ref YP_002919.1 YP_002919.1	putative lipoprotein	no_GO			
ref YP_000798.1 YP_000798.1	putative lipoprotein	no_GO			
ref YP_003203.1 YP_003203.1	putative lipoprotein	no_GO			
ref YP_002453.1 YP_002453.1	putative lipoprotein	no_GO			
ref YP_003092.1 YP_003092.1	putative membrane-bound lytic murein transglycosylase A transmembrane protein	no_GO			
ref YP_002888.1 YP_002888.1	putative phospholipid synthase	no_GO			
ref YP_002489.1 YP_002489.1	putative ring hydroxylating dioxygenase alpha-subunit	no_GO			
ref YP_002286.1 YP_002286.1	putative transcriptional regulator	no_GO			
ref YP_001428.1 YP_001428.1	regulator of chromosome condensation	no_GO			
ref YP_001149.1 YP_001149.1	rhodanese-related thiosulfate sulfurtransferase	no_GO			
ref YP_002748.1 YP_002748.1	rRNA methylase	no_GO			
ref YP_001136.1 YP_001136.1	SAM-dependent methyltransferase	no_GO			
ref YP_000547.1 YP_000547.1	SenC	no_GO			
ref YP_003089.1 YP_003089.1	SET domain-containing protein	no_GO			
ref YP_003491.1 YP_003491.1	shikimate kinase	no_GO			
sp Q72UU3 SSB_LEPIC	Single-stranded DNA-binding protein (SSB) (Helix-destabilizing protein)	no_GO			
ref YP_000951.1 YP_000951.1	sodium bile acid symporter family	no_GO			
ref YP_002316.1 YP_002316.1	sodium bile acid symporter family protein	no_GO			
ref YP_001739.1 YP_001739.1	sodium:solute symporter	no_GO			
ref YP_003579.1 YP_003579.1	sodium:solute symporter family	no_GO			
ref YP_003632.1 YP_003632.1	soluble lytic murein transglycosylase	no_GO			
sp Q72PQ0 SSRP_LEPIC	SsrA-binding protein	no_GO			
ref YP_000990.1 YP_000990.1	sterol desaturase	no_GO			
ref YP_002268.1 YP_002268.1	sterol desaturase-related protein	no_GO			
ref YP_001913.1 YP_001913.1	tetracycline resistance protein	no_GO			
ref YP_000699.1 YP_000699.1	thermolysin	no_GO			
ref YP_003226.1 YP_003226.1	thermolysin homolog precursor	no_GO			
ref YP_003227.1 YP_003227.1	thermolysin precursor	no_GO			
ref YP_003225.1 YP_003225.1	thermolysin precursor	no_GO			
ref YP_000866.1 YP_000866.1	TonB	no_GO			
ref YP_000760.1 YP_000760.1	transposase	no_GO			
ref YP_000761.1 YP_000761.1	transposase	no_GO			
ref YP_000935.1 YP_000935.1	transposase	no_GO			
ref YP_000636.1 YP_000636.1	ubiquinone/menaquinone methyltransferase	no_GO			
ref YP_002083.1 YP_002083.1	UDP-glucose 4-epimerase	no_GO			
sp P62465 UPPP_LEPIC	Undecaprenyl-diphosphatase (EC 3.6.1.27) (Undecaprenyl pyrophosphate phosphatase) (Bacitracin resist	no_GO			
ref YP_000818.1 YP_000818.1	undecaprenyl-phosphate alpha-N-acetylglucosaminyltransferase	no_GO			
sp Q72QK8 Y2105_LEPIC	UPF0054 protein LIC_12105	no_GO			
sp Q72PQ2 Y2416_LEPIC	UPF0078 membrane protein LIC_12416	no_GO			
sp Q72S23 Y1564_LEPIC	UPF0102 protein LIC_11564	no_GO			
sp Q72VY9 Y156_LEPIC	UPF0161 protein LIC_10156	no_GO			
sp Q8F5E6 Y1736_LEPIN	UPF0235 protein LA_1736	no_GO			
ref YP_003011.1 YP_003011.1	uracil DNA glycosylase	no_GO			
ref YP_003194.1 YP_003194.1	vancomycin resistance protein	no_GO			
sp P61438 CH60_LEPIC	60 kDa chaperonin (Protein Cpn60) (groEL protein) (Heat shock 58 kDa protein)	nucleotide binding	17556	15968	14029
ref YP_000349.1 YP_000349.1	electron transfer flavoprotein alpha-subunit	nucleotide binding	12387	10575	3961
sp Q72PK5 CARA_LEPIC	Carbamoyl-phosphate synthase small chain (EC 6.3.5.5) (Carbamoyl-phosphate synthetase glutamine chai	nucleotide binding	3838	7762	351

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ref YP_001924.1 YP_001924.1	RNA-binding protein	nucleotide binding	8246	4799	1499
ref YP_001227.1 YP_001227.1	MreB	nucleotide binding	2420	3024	1521
sp Q72LY9 ACSA_LEPIC	Acetyl-coenzyme A synthetase (EC 6.2.1.1) (Acetate--CoA ligase) (Acyl-activating enzyme)	nucleotide binding	537	2064	284
sp P61436 CH10_LEPIC	10 kDa chaperonin (Protein Cpn10) (groES protein) (Heat shock 10 kDa protein)	nucleotide binding	6358	1943	644
sp P61444 GRPE_LEPIC	Protein grpE (HSP-70 cofactor)	nucleotide binding	1263	1355	383
ref YP_003436.1 YP_003436.1	heat shock protein 90	nucleotide binding	1957	1216	1686
sp P62414 PGK_LEPIC	Phosphoglycerate kinase (EC 2.7.2.3)	nucleotide binding	1148	1101	715
ref YP_000352.1 YP_000352.1	isovaleryl-CoA dehydrogenase	nucleotide binding	596	590	456
sp Q72NF1 CARB_LEPIC	Carbamoyl-phosphate synthase large chain (EC 6.3.5.5) (Carbamoyl-phosphate synthetase ammonia chain)	nucleotide binding	716	587	615
ref YP_001889.1 YP_001889.1	translocase	nucleotide binding	787	583	808
sp Q72PA7 PURA_LEPIC	Adenylosuccinate synthetase (EC 6.3.4.4) (IMP--aspartate ligase) (AdSS) (AMPSase)	nucleotide binding	546	553	517
ref YP_001372.1 YP_001372.1	acetolactate synthase large subunit	nucleotide binding	395	526	842
ref YP_001431.1 YP_001431.1	thioredoxin reductase	nucleotide binding	607	522	347
ref YP_001751.1 YP_001751.1	glycerol kinase	nucleotide binding	327	467	371
ref YP_001477.1 YP_001477.1	biotin carboxylase subunit of acetyl CoA carboxylase	nucleotide binding	416	457	300
ref YP_003316.1 YP_003316.1	5'-phosphoribosylglycinamide transformylase	nucleotide binding	312	290	308
ref YP_000592.1 YP_000592.1	ATP-dependent protease La	nucleotide binding	190	269	207
sp Q72PR5 PURL_LEPIC	Phosphoribosylformylglycinamide synthase II (EC 6.3.5.3) (FGAM synthase II)	nucleotide binding	271	264	707
ref YP_001681.1 YP_001681.1	2,4-dienoyl-coa reductase	nucleotide binding	187	253	595
ref YP_001874.1 YP_001874.1	FAD-binding oxidoreductase	nucleotide binding	171	251	64
ref YP_000720.1 YP_000720.1	ATP-dependent RNA helicase	nucleotide binding	162	249	110
ref YP_001628.1 YP_001628.1	alkylglycerone-phosphate synthase	nucleotide binding	169	248	110
ref YP_003658.1 YP_003658.1	ParA	nucleotide binding	208	244	242
ref YP_001571.1 YP_001571.1	GTP-binding protein	nucleotide binding	247	242	423
ref YP_003138.1 YP_003138.1	ATP-dependent RNA helicase	nucleotide binding	241	230	100
ref YP_000037.1 YP_000037.1	GMC oxidoreductase	nucleotide binding	176	189	439
ref YP_001385.1 YP_001385.1	glycine rich RNA-binding protein	nucleotide binding	368	60	185
ref YP_001762.1 YP_001762.1	hypothetical protein LIC11811	nucleotide binding	181		114
ref YP_001530.1 YP_001530.1	general secretory pathway protein E	nucleotide binding			273
sp P61524 ASSY_LEPIC	Argininosuccinate synthase (EC 6.3.4.5) (Citrulline--aspartate ligase)	nucleotide binding			249
ref YP_000702.1 YP_000702.1	hypothetical protein LIC10718	nucleotide binding			226

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ref YP_001796.1 YP_001796.1	AAA family ATPase	nucleotide binding			158
sp Q75FU1 ARGB_LEPIC	Acetylglutamate kinase (EC 2.7.2.8) (NAG kinase) (AGK) (N-acetyl-L-glutamate 5-phosphotransferase) -	nucleotide binding			143
ref YP_002203.1 YP_002203.1	putative glycolate oxidase	nucleotide binding			92
ref YP_002041.1 YP_002041.1	phosphate starvation-inducible protein	nucleotide binding			89
ref YP_002692.1 YP_002692.1	GTP-binding protein	nucleotide binding			37
ref YP_002684.1 YP_002684.1	acetolactate synthase I large subunit	nucleotide binding			24
sp Q72RB7 GUAA_LEPIC	Probable GMP synthase	nucleotide binding			277
ref YP_002709.1 YP_002709.1	hypothetical protein LIC12792	nucleotide binding			188
sp Q72U64 THIM_LEPIC	Hydroxyethylthiazole kinase (EC 2.7.1.50) (4-methyl-5-beta-hydroxyethylthiazole kinase) (Thz kinase)	nucleotide binding			166
ref YP_001245.1 YP_001245.1	acetyl-CoA carboxylase alpha chain	nucleotide binding			147
sp Q72NP4 MURD_LEPIC	UDP-N-acetylmuramoylalanine--D-glutamate ligase (EC 6.3.2.9) (UDP-N-acetylmuramoyl-L-alanyl-D-glutam	nucleotide binding			100
ref YP_002225.1 YP_002225.1	UDP-N-acetylmuramyl pentapeptide synthase	nucleotide binding			96
sp Q72UH8 PUR7_LEPIC	Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC 6.3.2.6) (SAICAR synthetase)	nucleotide binding			89
sp Q72R81 MURE_LEPIC	UDP-N-acetylmuramoylalanyl-D-glutamate--2,6-diaminopimelate ligase (EC 6.3.2.13) (UDP-N-acetylmuramy	nucleotide binding			71
sp Q72V31 PUR2_LEPIC	Phosphoribosylamine--glycine ligase (EC 6.3.4.13) (GARS) (Glycinamide ribonucleotide synthetase) (Ph	nucleotide binding			68
ref YP_003216.1 YP_003216.1	UDP-n-acetylmuramate:l-alanyl-gamma-d-glutamyl-meso- diaminopimelate ligase	nucleotide binding			57
sp Q72MV4 COAE_LEPIC	Dephospho-CoA kinase (EC 2.7.1.24) (Dephosphocoenzyme A kinase)	nucleotide binding			54
sp Q72R93 DDL_LEPIC	D-alanine--D-alanine ligase (EC 6.3.2.4) (D-alanylalanine synthetase) (D-Ala-D-Ala ligase)	nucleotide binding			50
ref YP_001493.1 YP_001493.1	hypothetical protein LIC11534	nucleotide binding			50
ref YP_002386.1 YP_002386.1	5-formyltetrahydrofolate cyclo-ligase	nucleotide binding			37
ref YP_003599.1 YP_003599.1	arginine/ornithine transport system ATPase	nucleotide binding			37
sp Q72W11 ENGB_LEPIC	Probable GTP-binding protein engB	nucleotide binding			37
ref YP_001367.1 YP_001367.1	ubiquinone biosynthesis protein	nucleotide binding			37
ref YP_001045.1 YP_001045.1	NH(3)-dependent NAD(+) synthetase	nucleotide binding			34
ref YP_001812.1 YP_001812.1	UDP-N-acetylmuramate-alanine ligase	nucleotide binding			34
ref YP_000459.1 YP_000459.1	RNA-binding protein	nucleotide binding			27
ref YP_001296.1 YP_001296.1	hypothetical protein LIC11332	nucleotide binding			24
ref YP_001270.1 YP_001270.1	d-alanine--d-alanine ligase	nucleotide binding			17
sp Q72RG6 BIOD_LEPIC	Dethiobiotin synthetase (EC 6.3.3.3)	nucleotide			14

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	(Dethiobiotin synthase) (DTB synthetase) (DTBS)	binding			
ref YP_000613.1 YP_000613.1	glycerol kinase	nucleotide binding			14
ref YP_002647.1 YP_002647.1	acetoin- histone deacetylase family	nucleotide binding			11
ref YP_002864.1 YP_002864.1	dihydrofolate synthase	nucleotide binding			11
ref YP_002227.1 YP_002227.1	phosphoribosylaminoimidazole carboxylase atpase subunit protein	nucleotide binding			2
ref YP_000560.1 YP_000560.1	GTP-binding protein	nucleotide binding			
ref YP_000515.1 YP_000515.1	tetraacyldisaccharide 4'-kinase	nucleotide binding			
ref YP_000912.1 YP_000912.1	ATP-dependent RNA helicase	nucleotide binding			
ref YP_003188.1 YP_003188.1	acyl-CoA dehydrogenase	nucleotide binding			
ref YP_002438.1 YP_002438.1	ATPase	nucleotide binding			
ref YP_003128.1 YP_003128.1	ATP-dependent RNA helicase	nucleotide binding			
ref YP_000630.1 YP_000630.1	hypothetical protein LIC10646	nucleotide binding			
ref YP_001021.1 YP_001021.1	hypothetical protein LIC11051	other cellular process	309	193	132
ref YP_003031.1 YP_003031.1	hypothetical protein LIC13122	other cellular process	253	185	132
ref YP_002598.1 YP_002598.1	hypothetical protein LIC12676	other cellular process			30
ref YP_001528.1 YP_001528.1	hypothetical protein LIC11569	other cellular process			24
ref YP_001068.1 YP_001068.1	hypothetical protein LIC11098	other cellular process			75
ref YP_000891.1 YP_000891.1	octaprenyl diphosphate synthase	other cellular process			71
ref YP_002817.1 YP_002817.1	molybdate metabolism regulator	other cellular process			64
sp Q72RC1 GMHA_LEPIC	Phosphoheptose isomerase (EC 5.3.1.-) (Sedoheptulose 7-phosphate isomerase)	other cellular process			44
ref YP_000616.1 YP_000616.1	hypothetical protein LIC10632	other cellular process			30
ref YP_000805.1 YP_000805.1	hypothetical protein LIC10828	other cellular process			27
ref YP_001615.1 YP_001615.1	hypothetical protein LIC11659	other cellular process			14
ref YP_000246.1 YP_000246.1	hypothetical protein LIC10255	other cellular process			
ref YP_001466.1 YP_001466.1	hypothetical protein LIC11505	other cellular process			
ref YP_002807.1 YP_002807.1	putative lipoprotein	other cellular process			
ref YP_001468.1 YP_001468.1	hypothetical protein LIC11507	other cellular process			
ref YP_002195.1 YP_002195.1	hypothetical protein LIC12260	other cellular process			
ref YP_002440.1 YP_002440.1	hypothetical protein LIC12512	other cellular process			
ref YP_003160.1 YP_003160.1	hypothetical protein LIC13253	other cellular process			
ref YP_000851.1 YP_000851.1	molybdopterin oxidoreductase	other celular process	5611	6382	707
ref YP_001260.1 YP_001260.1	hypothetical protein LIC11294	other celular process	1567	1733	203

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ref YP_000850.1 YP_000850.1	hypothetical protein LIC10873	other cellular process	679	844	17
ref YP_003272.1 YP_003272.1	sulfite reductase	other cellular process	777	656	1009
ref YP_000272.1 YP_000272.1	zinc-binding dehydrogenase family	other cellular process	530	616	166
ref YP_003594.1 YP_003594.1	hypothetical protein LIC20205	other cellular process	1026	584	203
ref YP_003032.1 YP_003032.1	hypothetical protein LIC13123	other cellular process	628	580	1318
ref YP_001942.1 YP_001942.1	succinate dehydrogenase	other cellular process	306	539	387
ref YP_001167.1 YP_001167.1	hypothetical protein LIC11197	other cellular process	393	508	242
ref YP_002134.1 YP_002134.1	UDP-glucose 4-epimerase	other cellular process	535	507	762
ref YP_000562.1 YP_000562.1	hypothetical protein LIC10578	other cellular process	630	501	192
ref YP_002152.1 YP_002152.1	putative lipoprotein	other cellular process	302	478	75
ref YP_001371.1 YP_001371.1	hypothetical protein LIC11408	other cellular process	455	386	484
ref YP_000696.1 YP_000696.1	hypothetical protein LIC10712	other cellular process	763	373	129
ref YP_002405.1 YP_002405.1	Pbp1A	other cellular process	241	371	121
ref YP_000028.1 YP_000028.1	putative lipoprotein	other cellular process	387	346	
ref YP_002650.1 YP_002650.1	hypothetical protein LIC12730	other cellular process	341	312	545
ref YP_000327.1 YP_000327.1	hypothetical protein LIC10337	other cellular process	324	305	211
ref YP_000121.1 YP_000121.1	hypothetical protein LIC10125	other cellular process	535	268	699
ref YP_000612.1 YP_000612.1	putative lipoprotein	other cellular process		243	8
ref YP_002122.1 YP_002122.1	perosamine synthetase	other cellular process	354	239	242
ref YP_000391.1 YP_000391.1	hypothetical protein LIC10405	other cellular process	158	189	37
ref YP_000259.1 YP_000259.1	cyclic nucleotide binding protein	other cellular process	150	153	308
ref YP_001903.1 YP_001903.1	ARM repeat superfamily protein	other cellular process		128	242
ref YP_000824.1 YP_000824.1	hypothetical protein LIC10847	other cellular process	1047		181
ref YP_001404.1 YP_001404.1	hypothetical protein LIC11442	other cellular process	344		30
ref YP_002140.1 YP_002140.1	gdp-l-fucose synthetase	other cellular process	227		118
ref YP_000998.1 YP_000998.1	hypothetical protein LIC11028	other cellular process	111		92
ref YP_003615.1 YP_003615.1	aldolase class II	other cellular process	92		34
sp Q72VI7 GCSH_LEPIC	Glycine cleavage system H protein	other cellular process			177
ref YP_000098.1 YP_000098.1	cystathionine gamma-synthase	other cellular process			125
ref YP_000292.1 YP_000292.1	hypothetical protein LIC10302	other cellular process			92
ref YP_002870.1 YP_002870.1	hypothetical protein LIC12957	other cellular process			71
ref YP_002429.1 YP_002429.1	hypothetical protein LIC12501	other cellular process			64

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ref YP_000032.1 YP_000032.1	hypothetical protein LIC10032	other cellular process			11
ref YP_002651.1 YP_002651.1	hypothetical protein LIC12731	other cellular process			207
ref YP_001117.1 YP_001117.1	nitrilotriacetate monooxygenase component B	other cellular process			158
ref YP_001308.1 YP_001308.1	hypothetical protein LIC11344	other cellular process			103
ref YP_000038.1 YP_000038.1	hypothetical protein LIC10038	other cellular process			92
ref YP_000786.1 YP_000786.1	zinc binding dehydrogenase	other cellular process			92
ref YP_001962.1 YP_001962.1	hypothetical protein LIC12024	other cellular process			78
ref YP_002640.1 YP_002640.1	hypothetical protein LIC12719	other cellular process			78
ref YP_000392.1 YP_000392.1	hypothetical protein LIC10406	other cellular process			71
sp Q72RU2 LIPA_LEPIC	Lipoyl synthase (EC 2.8.1.-) (Lipoic acid synthase) (Lipoate synthase) (Lipoyl-acyl-carrier-protein	other cellular process			57
ref YP_002464.1 YP_002464.1	RibD	other cellular process			57
ref YP_001366.1 YP_001366.1	hypothetical protein LIC11403	other cellular process			50
ref YP_002561.1 YP_002561.1	hypothetical protein LIC12638	other cellular process			50
ref YP_002074.1 YP_002074.1	nucleoside-diphosphate-sugar epimerase	other cellular process			50
ref YP_002838.1 YP_002838.1	hypothetical protein LIC12923	other cellular process			47
ref YP_001447.1 YP_001447.1	hypothetical protein LIC11486	other cellular process			37
ref YP_001269.1 YP_001269.1	L-lysine 2,3-aminomutase	other cellular process			34
sp Q72TL3 TGT_LEPIC	Queuine tRNA-ribosyltransferase (EC 2.4.2.29) (tRNA-guanine transglycosylase) (Guanine insertion enz	other cellular process			34
ref YP_000602.1 YP_000602.1	hypothetical protein LIC10618	other cellular process			30
ref YP_000053.1 YP_000053.1	hypothetical protein LIC10053	other cellular process			27
ref YP_002702.1 YP_002702.1	hypothetical protein LIC12785	other cellular process			27
ref YP_000599.1 YP_000599.1	putative lipoprotein	other cellular process			27
ref YP_003453.1 YP_003453.1	thiol-disulfide interchange like protein	other cellular process			27
ref YP_001624.1 YP_001624.1	hypothetical protein LIC11670	other cellular process			24
ref YP_002243.1 YP_002243.1	hypothetical protein LIC12309	other cellular process			21
ref YP_000580.1 YP_000580.1	putative lipoprotein	other cellular process			21
ref YP_003009.1 YP_003009.1	sugar nucleotide epimerase	other cellular process			17
sp Q72RR0 NPD_LEPIC	NAD-dependent deacetylase (EC 3.5.1.-) (Regulatory protein SIR2 homolog)	other cellular process			14
sp Q72S29 RIMM_LEPIC	Probable 16S rRNA-processing protein rimM	other cellular process			14
sp Q72TD6 Y1085_LEPIC	Hypothetical RNA methyltransferase LIC_11085 (EC 2.1.1.-)	other cellular process			11
ref YP_002396.1 YP_002396.1	hypothetical protein LIC12468	other cellular process			8

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ref YP_002150.1 YP_002150.1	hypothetical protein LIC12215	other cellular process			5
ref YP_003434.1 YP_003434.1	BatC	other cellular process			
ref YP_003435.1 YP_003435.1	BatD	other cellular process			
ref YP_000657.1 YP_000657.1	hypothetical protein LIC10673	other cellular process			
ref YP_000667.1 YP_000667.1	methylamine utilization protein	other cellular process			
ref YP_000619.1 YP_000619.1	NifU	other cellular process			
ref YP_003432.1 YP_003432.1	BatA	other cellular process			
ref YP_003312.1 YP_003312.1	DTDP-4-dehydrorhamnose 3,5-epimerase	other cellular process			
ref YP_000052.1 YP_000052.1	hypothetical protein LIC10052	other cellular process			
ref YP_000087.1 YP_000087.1	hypothetical protein LIC10090	other cellular process			
ref YP_001439.1 YP_001439.1	hypothetical protein LIC11478	other cellular process			
ref YP_002220.1 YP_002220.1	hypothetical protein LIC12286	other cellular process			
ref YP_002480.1 YP_002480.1	hypothetical protein LIC12553	other cellular process			
ref YP_003007.1 YP_003007.1	hypothetical protein LIC13095	other cellular process			
sp Q72W54 Y086_LEPIC	Hypothetical RNA methyltransferase LIC_10086 (EC 2.1.1.)	other cellular process			
sp Q72VP7 Y249_LEPIC	Hypothetical RNA methyltransferase LIC_10249 (EC 2.1.1.)	other cellular process			
ref YP_003618.1 YP_003618.1	L-lysine 2, 3-aminomutase	other cellular process			
ref YP_000512.1 YP_000512.1	Pbp3	other cellular process			
ref YP_003483.1 YP_003483.1	short-chain dehydrogenase	other cellular process			
ref YP_000321.1 YP_000321.1	sugar transferase	other cellular process			
ref YP_000947.1 YP_000947.1	outer membrane protein	outermembrane protein	5441	4194	636
ref YP_002473.1 YP_002473.1	outer membrane lipoprotein carrier protein	outermembrane protein	657	685	177
ref YP_000698.1 YP_000698.1	outer membrane receptor protein	outermembrane protein	529	397	265
ref YP_001419.1 YP_001419.1	outer membrane protein, porin superfamily	outermembrane protein	145	103	40
ref YP_001581.1 YP_001581.1	outer membrane protein	outermembrane protein			37
ref YP_002189.1 YP_002189.1	outer membrane protein	outermembrane protein			136
ref YP_000249.1 YP_000249.1	hypothetical protein LIC10258	outermembrane protein			75
ref YP_002241.1 YP_002241.1	outer membrane TolC superfamily	outermembrane protein			21
ref YP_003479.1 YP_003479.1	outer membrane protein	outermembrane protein			17
ref YP_002306.1 YP_002306.1	outer membrane protein, TonB dependent	outermembrane protein			
ref YP_000483.1 YP_000483.1	outer membrane protein	outermembrane protein			
ref YP_001405.1 YP_001405.1	outer membrane protein	outermembrane protein			

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ref YP_001930.1 YP_001930.1	outer membrane protein	outermembrane protein			
ref YP_003043.1 YP_003043.1	outer membrane protein	outermembrane protein			
ref YP_000528.1 YP_000528.1	outer membrane protein	outermembrane protein			
ref YP_001467.1 YP_001467.1	outer membrane protein	outermembrane protein			
ref YP_001914.1 YP_001914.1	outer membrane protein	outermembrane protein			
ref YP_003010.1 YP_003010.1	outer membrane protein with alpha integrin like repeat domains	outermembrane protein			
ref YP_000858.1 YP_000858.1	outer membrane protein, TonB dependent	outermembrane protein			
ref YP_002729.1 YP_002729.1	serine protease MucD precursor	peptidase activity	2296	1958	1401
ref YP_001745.1 YP_001745.1	endopeptidase IV	peptidase activity	1315	1203	162
ref YP_002185.1 YP_002185.1	carboxy-terminal processing protease	peptidase activity	1060	979	1108
ref YP_003390.1 YP_003390.1	metallopeptidase	peptidase activity	491	845	37
ref YP_000834.1 YP_000834.1	integral membrane zinc metalloprotease	peptidase activity	524	645	129
sp Q72UC6 AMPA_LEPIC	Probable cytosol aminopeptidase (EC 3.4.11.1) (Leucine aminopeptidase) (LAP) (Leucyl aminopeptidase)	peptidase activity	520	609	47
ref YP_000749.1 YP_000749.1	processing metalloprotease	peptidase activity	474	465	480
ref YP_001202.1 YP_001202.1	signal peptidase I	peptidase activity	247	396	75
ref YP_000748.1 YP_000748.1	metalloprotease	peptidase activity	386	370	452
ref YP_003004.1 YP_003004.1	PfaP	peptidase activity	322	344	103
ref YP_003586.1 YP_003586.1	cysteine protease	peptidase activity	603	335	1152
ref YP_000215.1 YP_000215.1	hypothetical protein LIC10224	peptidase activity	270	331	192
ref YP_003535.1 YP_003535.1	HtrA1-like protein	peptidase activity	356	310	203
ref YP_002515.1 YP_002515.1	aminopeptidase N	peptidase activity	362	299	151
ref YP_003295.1 YP_003295.1	polysaccharide deacetylase	peptidase activity	489	265	745
ref YP_003534.1 YP_003534.1	HtrA1	peptidase activity	224	196	496
ref YP_003200.1 YP_003200.1	hypothetical protein LIC13293	peptidase activity	227	170	435
ref YP_001279.1 YP_001279.1	aminopeptidase P	peptidase activity	128	142	100
ref YP_002415.1 YP_002415.1	hypothetical protein LIC12487	peptidase activity	171	140	61
ref YP_001461.1 YP_001461.1	methionine aminopeptidase	peptidase activity		98	132
ref YP_003383.1 YP_003383.1	hypothetical protein LIC13482	peptidase activity	308		40
ref YP_001082.1 YP_001082.1	serine protease	peptidase activity			162
ref YP_002543.1 YP_002543.1	membrane carboxypeptidase	peptidase activity			37
sp Q75FP1 HTPX_LEPIC	Probable protease htpX homolog (EC 3.4.24.-)	peptidase activity			34
ref YP_002020.1 YP_002020.1	signal peptidase I	peptidase			17

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sp Q72RY8 HSLV_LEPIC	ATP-dependent protease hslV (EC 3.4.25.-)	peptidase activity			8
ref YP_002237.1 YP_002237.1	carboxy-terminal processing protease	peptidase activity			223
ref YP_003367.1 YP_003367.1	carboxypeptidase I	peptidase activity			121
ref YP_003549.1 YP_003549.1	ATP-dependent protease	peptidase activity			78
ref YP_001081.1 YP_001081.1	HtrA2	peptidase activity			61
ref YP_000981.1 YP_000981.1	hypothetical protein LIC11008	peptidase activity			50
ref YP_003060.1 YP_003060.1	D-alanyl-D-alanine carboxypeptidase	peptidase activity			40
ref YP_002621.1 YP_002621.1	metalloprotease	peptidase activity			30
ref YP_001670.1 YP_001670.1	protease IV	peptidase activity			27
ref YP_001007.1 YP_001007.1	periplasmic trypsin-like serine protease	peptidase activity			24
ref YP_002397.1 YP_002397.1	HtpG	peptidase activity			21
ref YP_001325.1 YP_001325.1	oligopeptidase A	peptidase activity			21
ref YP_001119.1 YP_001119.1	membrane metalloendopeptidase	peptidase activity			14
ref YP_001362.1 YP_001362.1	membrane metalloendopeptidase	peptidase activity			14
ref YP_002236.1 YP_002236.1	O-sialoglycoprotein endopeptidase	peptidase activity			14
ref YP_002569.1 YP_002569.1	membrane carboxypeptidase	peptidase activity			8
ref YP_003242.1 YP_003242.1	zinc carboxypeptidase-related protein	peptidase activity			8
ref YP_000957.1 YP_000957.1	carboxypeptidase T	peptidase activity			5
ref YP_000705.1 YP_000705.1	hypothetical protein LIC10721	peptidase activity			
ref YP_001034.1 YP_001034.1	membrane associated metalloendopeptidase	peptidase activity			
ref YP_001074.1 YP_001074.1	aminopeptidase	peptidase activity			
sp Q72RD1 CLPS_LEPIC	ATP-dependent Clp protease adaptor protein clpS	peptidase activity			
ref YP_003282.1 YP_003282.1	CAAX protease	peptidase activity			
ref YP_001830.1 YP_001830.1	hypothetical protein LIC11881	peptidase activity			
ref YP_002578.1 YP_002578.1	hypothetical protein LIC12655	peptidase activity			
ref YP_002812.1 YP_002812.1	hypothetical protein LIC12896	peptidase activity			
ref YP_003115.1 YP_003115.1	membrane carboxypeptidase	peptidase activity			
ref YP_002545.1 YP_002545.1	membrane metalloendopeptidase	peptidase activity			
ref YP_002191.1 YP_002191.1	membrane metalloendopeptidase	peptidase activity			
ref YP_001527.1 YP_001527.1	membrane peptidase	peptidase activity			
ref YP_002680.1 YP_002680.1	microbial collagenase precursor	peptidase activity			
ref YP_002730.1 YP_002730.1	serine protease	peptidase			

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		activity			
ref YP_000462.1 YP_000462.1	signal peptidase I	peptidase activity			
sp P61442 DNAK_LEPIC	Chaperone protein dnaK (Heat shock protein 70) (Heat shock 70 kDa protein) (HSP70)	response stress to	3037	8187	3622
ref YP_002145.1 YP_002145.1	Hsp15-like protein	response stress to	107	3685	177
ref YP_003633.1 YP_003633.1	aconitate hydratase	response stress to	1514	1974	2170
sp Q72QA1 HSP15_LEPIC	Probable 15 kDa heat shock protein	response stress to	1600	1681	332
sp Q72R01 CLPP2_LEPIC	ATP-dependent Clp protease proteolytic subunit 2 (EC 3.4.21.92) (Endopeptidase Clp 2)	response stress to	1587	1585	1043
sp Q72SG6 CLPP1_LEPIC	ATP-dependent Clp protease proteolytic subunit 1 (EC 3.4.21.92) (Endopeptidase Clp 1)	response stress to	647	651	749
sp P61440 DNAJ_LEPIC	Chaperone protein dnaJ	response stress to	531	543	399
ref YP_002930.1 YP_002930.1	acriflavine resistance	response stress to	343	513	92
ref YP_002412.1 YP_002412.1	DNA binding protein	response stress to	495	466	284
sp Q72QU2 CLPB_LEPIC	Chaperone clpB	response stress to	476	346	2061
sp Q72SG5 CLPX_LEPIC	ATP-dependent Clp protease ATP-binding subunit clpX	response stress to	600	325	460
ref YP_002986.1 YP_002986.1	acriflavin resistance	response stress to	364	296	64
ref YP_003002.1 YP_003002.1	acriflavin resistance	response stress to	161	230	30
ref YP_000276.1 YP_000276.1	penicillin G acylase precursor	response stress to	228	149	30
ref YP_003298.1 YP_003298.1	hypothetical protein LIC13395	response stress to			71
ref YP_000518.1 YP_000518.1	penicillin-binding protein 1	response stress to			21
ref YP_001765.1 YP_001765.1	ATP-dependent Clp protease, ATP-binding subunit	response stress to			68
ref YP_001230.1 YP_001230.1	penicillin-binding protein	response stress to			61
ref YP_000575.1 YP_000575.1	periplasmic divalent cation tolerance	response stress to			8
ref YP_000247.1 YP_000247.1	carbon starvation protein A	response stress to			
ref YP_000475.1 YP_000475.1	acriflavin resistance	response stress to			
ref YP_003042.1 YP_003042.1	acriflavin resistance	response stress to			
ref YP_000474.1 YP_000474.1	acriflavine resistance	response stress to			
ref YP_001690.1 YP_001690.1	penicillin binding protein	response stress to			
ref YP_000941.1 YP_000941.1	small multidrug resistance protein	response stress to			
ref YP_002383.1 YP_002383.1	response regulator	signal transducer activity	5154	4419	1086
sp Q72RH6 Y1769_LEPIC	Hypothetical protein LIC_11769	signal transducer activity	1490	794	328
ref YP_002892.1 YP_002892.1	hypothetical protein LIC12979	signal transducer	264	389	281

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		activity			
ref YP_003405.1 YP_003405.1	response regulator	signal transducer activity	116	308	71
ref YP_001173.1 YP_001173.1	response regulator	signal transducer activity	141	271	181
ref YP_000541.1 YP_000541.1	response regulator	signal transducer activity	275	250	328
ref YP_001902.1 YP_001902.1	response regulator	signal transducer activity	272	243	78
ref YP_001406.1 YP_001406.1	response regulator	signal transducer activity	171	215	169
ref YP_003638.1 YP_003638.1	response regulator	signal transducer activity		202	504
ref YP_002208.1 YP_002208.1	GGDEF family protein	signal transducer activity	237	149	273
ref YP_000043.1 YP_000043.1	Aer	signal transducer activity	104	81	17
ref YP_003000.1 YP_003000.1	response regulator	signal transducer activity			292
ref YP_000662.1 YP_000662.1	response regulator	signal transducer activity			61
ref YP_001106.1 YP_001106.1	response regulator	signal transducer activity			57
ref YP_001171.1 YP_001171.1	response regulator	signal transducer activity			284
ref YP_002312.1 YP_002312.1	response regulator	signal transducer activity			211
ref YP_002022.1 YP_002022.1	response regulator	signal transducer activity			110
ref YP_002724.1 YP_002724.1	response regulator	signal transducer activity			71
ref YP_001098.1 YP_001098.1	GGDEF family protein	signal transducer activity			61
ref YP_002433.1 YP_002433.1	response regulator	signal transducer activity			50
ref YP_001508.1 YP_001508.1	response regulator	signal transducer activity			34
ref YP_001845.1 YP_001845.1	response regulator	signal transducer activity			24
ref YP_002432.1 YP_002432.1	response regulator	signal transducer activity			21
ref YP_003149.1 YP_003149.1	response regulator	signal transducer activity			21
ref YP_003176.1 YP_003176.1	response regulator	signal			21

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		transducer activity			
ref YP_002032.1 YP_002032.1	response regulator	signal transducer activity			17
ref YP_001099.1 YP_001099.1	GGDEF family protein	signal transducer activity			11
ref YP_001266.1 YP_001266.1	GGDEF family protein	signal transducer activity			8
ref YP_000898.1 YP_000898.1	response regulator	signal transducer activity			5
ref YP_000968.1 YP_000968.1	response regulator	signal transducer activity			
ref YP_002250.1 YP_002250.1	response regulator	signal transducer activity			
ref YP_003571.1 YP_003571.1	response regulator	signal transducer activity			
ref YP_000322.1 YP_000322.1	response regulator	signal transducer activity			
ref YP_000563.1 YP_000563.1	response regulator	signal transducer activity			
ref YP_001097.1 YP_001097.1	GGDEF family protein	signal transducer activity			
ref YP_001096.1 YP_001096.1	GGDEF family protein	signal transducer activity			
ref YP_001101.1 YP_001101.1	GGDEF family protein	signal transducer activity			
ref YP_003573.1 YP_003573.1	GGDEF family protein	signal transducer activity			
ref YP_001100.1 YP_001100.1	GGDEF family protein	signal transducer activity			
ref YP_001095.1 YP_001095.1	GGDEF family protein	signal transducer activity			
ref YP_003572.1 YP_003572.1	GGDEF family protein	signal transducer activity			
ref YP_001993.1 YP_001993.1	response regulator	signal transducer activity			
ref YP_003235.1 YP_003235.1	response regulator	signal transducer activity			
ref YP_003330.1 YP_003330.1	response regulator	signal transducer activity			
ref YP_000002.1 YP_000002.1	DNA polymerase III beta subunit	transcription	2486	2486	1459
sp Q72NI8 RPOA_LEPIC	DNA-directed RNA polymerase alpha chain (EC 2.7.7.6) (RNAP alpha subunit) (Transcriptase alpha chain)	transcription	3279	2438	1740
sp Q72UA8 RPOB_LEPIC	DNA-directed RNA polymerase beta chain (EC 2.7.7.6) (RNAP beta subunit)	transcription	2884	2412	3518

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	(Transcriptase beta chain) (
sp Q72UA7 RPOC_LEPIC	DNA-directed RNA polymerase beta' chain (EC 2.7.7.6) (RNAP beta' subunit) (Transcriptase beta' chain	transcription	2981	2307	2418
ref YP_000728.1 YP_000728.1	transcription antitermination protein	transcription	1705	1683	566
ref YP_002627.1 YP_002627.1	transcription elongation factor NusA	transcription	2198	1617	1331
ref YP_002559.1 YP_002559.1	transcription termination factor Rho	transcription	1548	1531	1362
ref YP_000768.1 YP_000768.1	transcript cleavage factor/unknown domain fusion protein	transcription	1373	1017	1481
ref YP_000590.1 YP_000590.1	DNA-binding stress protein	transcription	442	415	513
ref YP_003375.1 YP_003375.1	DNA polymerase III gamma subunit	transcription	347	324	162
ref YP_001578.1 YP_001578.1	DNA repair protein	transcription			300
ref YP_000570.1 YP_000570.1	DNA polymerase I	transcription			50
ref YP_000213.1 YP_000213.1	DNA polymerase III alpha subunit	transcription			158
ref YP_003373.1 YP_003373.1	transcriptional coactivator	transcription			143
ref YP_003073.1 YP_003073.1	DNA replication protein DnaC	transcription			85
ref YP_001654.1 YP_001654.1	DNA primase	transcription			37
sp Q72TG0 FTSK_LEPIC	DNA translocase ftsK	transcription			17
ref YP_000041.1 YP_000041.1	transcription activator or transcription antitermination factor	transcription			14
ref YP_003394.1 YP_003394.1	DNA polymerase III subunit-related protein	transcription			8
ref YP_002014.1 YP_002014.1	DNA topoisomerase I protein	transcription			
sp Q72WD4 RECF_LEPIC	DNA replication and repair protein recF	transcription			
sp Q72MY7 DPO4_LEPIC	DNA polymerase IV (EC 2.7.7.7) (Pol IV)	transcription			
ref YP_000600.1 YP_000600.1	DNA processing chain A	transcription			
ref YP_002231.1 YP_002231.1	DNA repair protein	transcription			
ref YP_002849.1 YP_002849.1	DnaJ-like protein	transcription			
ref YP_000390.1 YP_000390.1	transcription antitermination protein NusB	transcription			
ref YP_001575.1 YP_001575.1	transcriptional regulator (ArsR family)	transcription factor & regulators	11947	2023	484
ref YP_000977.1 YP_000977.1	anti-sigma factor antagonist	transcription factor & regulators	1309	1367	484
sp P61540 RPOD_LEPIC	RNA polymerase sigma factor rpoD	transcription factor & regulators	1393	1195	359
ref YP_000534.1 YP_000534.1	anti-sigma factor antagonist	transcription factor & regulators	847	733	100
ref YP_000205.1 YP_000205.1	transcriptional regulator (CarD family)	transcription factor & regulators	804	549	316
ref YP_000334.1 YP_000334.1	anti-sigma factor antagonist	transcription factor & regulators	722	542	169
ref YP_001344.1 YP_001344.1	sigma factor WhiG	transcription factor & regulators	665	457	200
ref YP_002369.1 YP_002369.1	transcriptional regulator	transcription factor & regulators	911	355	288
ref YP_002851.1 YP_002851.1	anti-sigma factor antagonist	transcription factor & regulators	327	316	476
ref YP_002985.1 YP_002985.1	transcriptional regulator (TetR family)	transcription factor & regulators	160	301	188
ref YP_002686.1 YP_002686.1	anti-sigma factor antagonist	transcription factor & regulators	222	266	173
ref YP_000979.1 YP_000979.1	transcriptional regulator (FUR family)	transcription	203	238	92

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		factor & regulators			
ref YP_000216.1 YP_000216.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators	194	209	114
ref YP_000128.1 YP_000128.1	sigma 54 activator	transcription factor & regulators	231	181	177
ref YP_003566.1 YP_003566.1	dnaK suppressor	transcription factor & regulators	933	130	230
sp P61446 HRCA_LEPIC	Heat-inducible transcription repressor hrcA	transcription factor & regulators		99	82
ref YP_000372.1 YP_000372.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators	393		151
ref YP_001972.1 YP_001972.1	transcriptional regulator (FUR family)	transcription factor & regulators	139		50
ref YP_001124.1 YP_001124.1	transcriptional regulator	transcription factor & regulators			219
ref YP_002704.1 YP_002704.1	anti-sigma factor antagonist	transcription factor & regulators			147
ref YP_003481.1 YP_003481.1	sigma factor regulatory protein	transcription factor & regulators			89
ref YP_002418.1 YP_002418.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			78
ref YP_000554.1 YP_000554.1	anti-sigma factor antagonist	transcription factor & regulators			71
ref YP_001753.1 YP_001753.1	anti-sigma factor antagonist	transcription factor & regulators			37
ref YP_000995.1 YP_000995.1	anti-sigma factor antagonist	transcription factor & regulators			284
ref YP_002330.1 YP_002330.1	anti-sigma factor antagonist	transcription factor & regulators			238
ref YP_003440.1 YP_003440.1	anti-sigma factor antagonist	transcription factor & regulators			203
ref YP_001630.1 YP_001630.1	transcriptional regulator (TetR family)	transcription factor & regulators			118
ref YP_003507.1 YP_003507.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			75
ref YP_002558.1 YP_002558.1	hypothetical protein LIC12635	transcription factor & regulators			54
ref YP_001416.1 YP_001416.1	transcription-repair coupling factor	transcription factor & regulators			34
ref YP_000610.1 YP_000610.1	anti-sigma factor antagonist	transcription factor & regulators			34
ref YP_001475.1 YP_001475.1	anti-sigma factor antagonist	transcription factor & regulators			34

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ref YP_001128.1 YP_001128.1	transcriptional regulator (FUR family)	transcription factor & regulators			30
ref YP_001441.1 YP_001441.1	anti-sigma factor antagonist	transcription factor & regulators			30
ref YP_000140.1 YP_000140.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			21
ref YP_001200.1 YP_001200.1	transcriptional regulator (TetR family)	transcription factor & regulators			17
ref YP_002239.1 YP_002239.1	transcriptional repressor (LexA family)	transcription factor & regulators			17
ref YP_003012.1 YP_003012.1	anti-sigma factor antagonist	transcription factor & regulators			17
ref YP_000924.1 YP_000924.1	sigma factor regulatory protein	transcription factor & regulators			14
ref YP_002141.1 YP_002141.1	transcriptional regulator (MarR family)	transcription factor & regulators			14
ref YP_002658.1 YP_002658.1	transcriptional regulator (MarR family)	transcription factor & regulators			14
ref YP_001951.1 YP_001951.1	anti-sigma factor antagonist	transcription factor & regulators			14
ref YP_001504.1 YP_001504.1	RNA polymerase sigma-54 factor	transcription factor & regulators			11
ref YP_003538.1 YP_003538.1	transcriptional regulator (FUR family)	transcription factor & regulators			11
ref YP_003173.1 YP_003173.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			11
ref YP_002951.1 YP_002951.1	transcriptional regulator (MarR family)	transcription factor & regulators			8
ref YP_000290.1 YP_000290.1	anti-sigma factor antagonist	transcription factor & regulators			8
ref YP_003192.1 YP_003192.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			5
ref YP_003657.1 YP_003657.1	putative transcriptional regulator	transcription factor & regulators			
ref YP_001748.1 YP_001748.1	sigma factor regulatory protein	transcription factor & regulators			
ref YP_002424.1 YP_002424.1	sigma factor regulatory protein	transcription factor & regulators			
ref YP_003318.1 YP_003318.1	transcriptional regulator (AraC family)	transcription factor & regulators			
ref YP_001543.1 YP_001543.1	transcriptional regulator (TetR family)	transcription factor & regulators			
ref YP_000381.1 YP_000381.1	transcriptional regulator (TetR family)	transcription factor & regulators			

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		regulators			
ref YP_003500.1 YP_003500.1	anti-sigma factor antagonist	transcription factor & regulators			
ref YP_000650.1 YP_000650.1	transcriptional regulator (ArsR family)	transcription factor & regulators			
ref YP_001768.1 YP_001768.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			
ref YP_003474.1 YP_003474.1	transcriptional regulator (ArsR family)	transcription factor & regulators			
ref YP_002715.1 YP_002715.1	transcriptional regulator (TetR family)	transcription factor & regulators			
ref YP_000628.1 YP_000628.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			
ref YP_001388.1 YP_001388.1	sigma factor regulatory protein	transcription factor & regulators			
ref YP_003569.1 YP_003569.1	DNA binding protein	transcription factor & regulators			
ref YP_001116.1 YP_001116.1	putative transcriptional regulator (DeoR family)	transcription factor & regulators			
ref YP_000543.1 YP_000543.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			
ref YP_002677.1 YP_002677.1	RNA polymerase ECF-type sigma factor	transcription factor & regulators			
ref YP_000013.1 YP_000013.1	sigma 54 activator	transcription factor & regulators			
ref YP_003180.1 YP_003180.1	sigma factor regulatory protein	transcription factor & regulators			
ref YP_003503.1 YP_003503.1	sigma factor regulatory protein	transcription factor & regulators			
ref YP_003034.1 YP_003034.1	transcriptional regulator (AraC family)	transcription factor & regulators			
ref YP_003093.1 YP_003093.1	transcriptional regulator (AraC family)	transcription factor & regulators			
ref YP_000949.1 YP_000949.1	transcriptional regulator (AraC family)	transcription factor & regulators			
ref YP_002506.1 YP_002506.1	transcriptional regulator (ArsR family)	transcription factor & regulators			
ref YP_003311.1 YP_003311.1	transcriptional regulator (ArsR family)	transcription factor & regulators			
ref YP_001445.1 YP_001445.1	transcriptional regulator (Crp family)	transcription factor & regulators			
ref YP_003344.1 YP_003344.1	transcriptional regulator (MarR family)	transcription factor & regulators			
ref YP_002000.1 YP_002000.1	transcriptional regulator (MarR family)	transcription			

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		factor & regulators			
ref YP_000364.1 YP_000364.1	transcriptional regulator (PadR family)	transcription factor & regulators			
ref YP_000361.1 YP_000361.1	transcriptional regulator (TetR family)	transcription factor & regulators			
ref YP_002362.1 YP_002362.1	transcriptional regulator (TetR family)	transcription factor & regulators			
ref YP_003473.1 YP_003473.1	transcriptional regulator (TetR family)	transcription factor & regulators			
ref YP_001161.1 YP_001161.1	transcriptional regulator	transcription factor & regulators			
ref YP_002577.1 YP_002577.1	transcriptional repressor (LexA family)	transcription factor & regulators			
ref YP_001484.1 YP_001484.1	anti-sigma factor antagonist	transcription factor & regulators			
ref YP_002712.1 YP_002712.1	acetyl-CoA acetyltransferase	transferase activity	3927	3387	2663
ref YP_002133.1 YP_002133.1	aminotransferase	transferase activity	2628	2420	1313
sp Q72RT8 TAL_LEPIC	Probable transaldolase (EC 2.2.1.2)	transferase activity	1474	1645	1069
ref YP_003206.1 YP_003206.1	acetyl-CoA acetyltransferase	transferase activity	1556	1520	774
ref YP_000382.1 YP_000382.1	acetyl-CoA acetyltransferase	transferase activity	1593	1345	1160
ref YP_000948.1 YP_000948.1	acetyl-CoA acetyltransferase	transferase activity	2158	1209	983
ref YP_003223.1 YP_003223.1	fatty acid synthase subunit beta	transferase activity	1633	1169	1039
ref YP_000430.1 YP_000430.1	glutamine-fructose-6-phosphate transaminase	transferase activity	736	1055	399
ref YP_000395.1 YP_000395.1	2-isopropylmalate synthase	transferase activity	77	1055	129
ref YP_001085.1 YP_001085.1	thiosulfate sulfurtransferase	transferase activity	1036	1050	846
ref YP_000584.1 YP_000584.1	fatty acid synthase subunit beta	transferase activity	1171	1032	460
ref YP_000436.1 YP_000436.1	glycosyltransferase	transferase activity	788	1022	121
ref YP_001742.1 YP_001742.1	aspartate aminotransferase	transferase activity	1058	995	1287
ref YP_001801.1 YP_001801.1	O-acetylhomoserine (thiol) lyase	transferase activity	507	866	1226
sp P61656 KDSA_LEPIC	2-dehydro-3-deoxyphosphooctonate aldolase (EC 2.5.1.55) (Phospho-2-dehydro-3-deoxyoctonate aldolase)	transferase activity	454	765	379
ref YP_002103.1 YP_002103.1	aspartate aminotransferase	transferase activity	1107	755	447
sp P61724 RISB_LEPIC	6,7-dimethyl-8-ribityllumazine synthase (EC 2.5.1.9) (DMRL synthase) (Lumazine synthase) (Riboflavin)	transferase activity	492	708	181
sp Q72RH8 ARGD_LEPIC	Acetylornithine aminotransferase (EC 2.6.1.11) (ACOAT)	transferase activity	779	682	541
ref YP_002757.1 YP_002757.1	aspartate aminotransferase	transferase activity	777	665	1331
ref YP_000591.1 YP_000591.1	aminotransferase	transferase	816	643	1030

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		activity			
sp Q72PY2 GLYA_LEPIC	Serine hydroxymethyltransferase (EC 2.1.2.1) (Serine methylase) (SHMT)	transferase activity	663	634	682
ref YP_000413.1 YP_000413.1	UDP-N-acetylglucosamine pyrophosphorylase	transferase activity	559	556	304
ref YP_002132.1 YP_002132.1	aminotransferase	transferase activity	654	550	757
ref YP_003563.1 YP_003563.1	lipoprotein	transferase activity	306	536	50
ref YP_001704.1 YP_001704.1	glycosyl transferase	transferase activity	263	463	177
ref YP_002958.1 YP_002958.1	UDP glucosamine N-acyltransferase	transferase activity	568	439	288
sp Q72PD0 TRPD_LEPIC	Anthranilate phosphoribosyltransferase (EC 2.4.2.18)	transferase activity	501	419	71
ref YP_002167.1 YP_002167.1	thymidylate synthase	transferase activity	346	406	300
ref YP_003393.1 YP_003393.1	branched-chain amino acid aminotransferase	transferase activity	398	359	226
ref YP_003062.1 YP_003062.1	UDP-N-acetylglucosamine acyltransferase	transferase activity	353	330	320
ref YP_003403.1 YP_003403.1	glutamate-1-semialdehyde aminotransferase	transferase activity	439	324	300
ref YP_002353.1 YP_002353.1	aspartate aminotransferase a	transferase activity	420	318	431
ref YP_002257.1 YP_002257.1	type III beta-ketoacyl synthase-like protein	transferase activity	298	316	707
ref YP_001678.1 YP_001678.1	2-isopropylmalate synthase	transferase activity	401	298	476
ref YP_002114.1 YP_002114.1	sugar transferase	transferase activity		295	30
ref YP_003104.1 YP_003104.1	putative O-methyl transferase	transferase activity	343	288	82
ref YP_002657.1 YP_002657.1	site-specific modification DNA-methyltransferase	transferase activity	332	281	155
ref YP_002115.1 YP_002115.1	methyltransferase	transferase activity	268	280	78
ref YP_001947.1 YP_001947.1	hypothetical protein LIC12008	transferase activity	326	244	253
ref YP_001813.1 YP_001813.1	UDP-N-acetylglucosamine:LPS N-acetylglucosamine transferase	transferase activity		235	27
ref YP_001035.1 YP_001035.1	poly A polymerase	transferase activity	247	231	155
ref YP_003130.1 YP_003130.1	lauroyl/myristoyl acyltransferase	transferase activity	196	224	17
ref YP_000429.1 YP_000429.1	glucose-1-phosphate thymidyltransferase	transferase activity		211	75
sp Q72RT5 PUR9_LEPIC	Bifunctional purine biosynthesis protein purH	transferase activity	286	202	452
sp Q72TF8 LGT_LEPIC	Prolipoprotein diacylglycerol transferase (EC 2.4.99.-)	transferase activity	172	194	
ref YP_002136.1 YP_002136.1	mannose-1-phosphate guanylttransferase	transferase activity	182	190	21
ref YP_001703.1 YP_001703.1	lipopolysaccharide core biosynthesis protein	transferase activity	545	189	
ref YP_001555.1 YP_001555.1	2-isopropylmalate synthase 2	transferase activity	229	169	335
ref YP_002057.1 YP_002057.1	glucose-1-phosphate thymidyltransferase	transferase activity	244	150	207
ref YP_001373.1 YP_001373.1	acetolactate synthase small subunit	transferase activity		123	125
ref YP_002106.1 YP_002106.1	nucleoside-diphosphate-sugar pyrophosphorylase	transferase activity	136	105	85
ref YP_002072.1 YP_002072.1	colanic acid biosynthesis glycosyl-	transferase		101	8

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	transferase	activity			
ref YP_002251.1 YP_002251.1	beta-ketoacyl synthase	transferase activity	71	72	103
ref YP_002162.1 YP_002162.1	hypothetical protein LIC12227	transferase activity	929		21
ref YP_003158.1 YP_003158.1	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	transferase activity	236		121
ref YP_001637.1 YP_001637.1	hypothetical protein LIC11685	transferase activity	210		132
ref YP_000888.1 YP_000888.1	transketolase alpha subunit protein	transferase activity			395
ref YP_002092.1 YP_002092.1	3-deoxy-manno-octulosonate cytidyltransferase	transferase activity			173
sp Q75FP0 APT_LEPIC	Adenine phosphoribosyltransferase (EC 2.4.2.7) (APRT)	transferase activity			169
ref YP_000055.1 YP_000055.1	serine acetyltransferase	transferase activity			169
sp Q72LZ4 MTNP_LEPIC	Probable 5'-methylthioadenosine phosphorylase (EC 2.4.2.28) (MTA phosphorylase)	transferase activity			162
ref YP_000618.1 YP_000618.1	selenocysteine reductase	transferase activity			155
ref YP_002325.1 YP_002325.1	ankyrin-like protein	transferase activity			151
ref YP_003593.1 YP_003593.1	cysteine desulfurase	transferase activity			143
ref YP_000604.1 YP_000604.1	glycosyl transferase	transferase activity			136
ref YP_002099.1 YP_002099.1	hypothetical protein LIC12164	transferase activity			136
ref YP_001764.1 YP_001764.1	gamma-glutamyltranspeptidase	transferase activity			132
ref YP_001327.1 YP_001327.1	glutathione-S-transferase	transferase activity			89
sp Q72NJ5 PYRB_LEPIC	Aspartate carbamoyltransferase (EC 2.1.3.2) (Aspartate transcarbamylase) (ATCase)	transferase activity			75
ref YP_002125.1 YP_002125.1	SAM-dependent methyltransferase	transferase activity			57
ref YP_001746.1 YP_001746.1	alginate O-acetyltransferase protein	transferase activity			47
ref YP_002061.1 YP_002061.1	glycosyl transferase	transferase activity			24
sp Q72U01 DXS_LEPIC	1-deoxy-D-xylulose-5-phosphate synthase (EC 2.2.1.7) (1-deoxyxylulose-5-phosphate synthase) (DXP syn)	transferase activity			21
ref YP_001872.1 YP_001872.1	dolichol-P-glucose synthetase	transferase activity			21
ref YP_002700.1 YP_002700.1	dolichyl-phosphate-mannose-protein mannosyltransferase	transferase activity			21
ref YP_002109.1 YP_002109.1	acetyl transferase	transferase activity			17
ref YP_000994.1 YP_000994.1	glycosyltransferase	transferase activity			14
ref YP_002719.1 YP_002719.1	hypothetical protein LIC12802	transferase activity			11
ref YP_002304.1 YP_002304.1	ankyrin repeat protein	transferase activity			8
ref YP_001971.1 YP_001971.1	ankyrin like protein	transferase activity			
ref YP_002470.1 YP_002470.1	phosphatidylglycerophosphate synthase	transferase activity			
ref YP_003169.1 YP_003169.1	glutamine phosphoribosylpyrophosphate amidotransferase	transferase activity			300

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ref YP_002894.1 YP_002894.1	glutathione S-transferase	transferase activity			292
ref YP_002183.1 YP_002183.1	pyridoxal phosphate biosynthetic protein	transferase activity			234
ref YP_003276.1 YP_003276.1	sulfate adenylyltransferase subunit 2	transferase activity			181
sp P62062 ARGJ_LEPIC	Arginine biosynthesis bifunctional protein argJ	transferase activity			177
sp Q72PG3 HIS8_LEPIC	Histidinol-phosphate aminotransferase (EC 2.6.1.9) (Imidazole acetol-phosphate transaminase)	transferase activity			173
ref YP_001008.1 YP_001008.1	hypothetical protein LIC11038	transferase activity			169
sp Q72R95 MEX1_LEPIC	Homoserine O-acetyltransferase (EC 2.3.1.31) (Homoserine O-trans-acetylase) (Homoserine transacetylase)	transferase activity			158
ref YP_001729.1 YP_001729.1	biotin synthase	transferase activity			155
ref YP_002064.1 YP_002064.1	aminotransferase	transferase activity			147
ref YP_002256.1 YP_002256.1	glutamate CoA transferase-like protein	transferase activity			136
sp Q72S40 HPRK_LEPIC	HPr kinase/phosphorylase (EC 2.7.11.-) (EC 2.7.4.-) (HPrK/P) (HPr(Ser) kinase/phosphorylase)	transferase activity			136
ref YP_002019.1 YP_002019.1	carbonic anhydrase	transferase activity			132
ref YP_000257.1 YP_000257.1	protoporphyrinogen oxidase	transferase activity			129
ref YP_002086.1 YP_002086.1	glucose-1-phosphate cytidylyltransferase	transferase activity			125
ref YP_002110.1 YP_002110.1	aminotransferase	transferase activity			118
sp P59119 HIS61_LEPIN	Imidazole glycerol phosphate synthase subunit hisF (EC 4.1.3.-) (IGP synthase cyclase subunit) (IGP)	transferase activity			107
sp Q72T26 OTC_LEPIC	Ornithine carbamoyltransferase (EC 2.1.3.3) (OTCase)	transferase activity			107
ref YP_003401.1 YP_003401.1	porphobilinogen deaminase	transferase activity			103
sp Q72MN0 PANB_LEPIC	3-methyl-2-oxobutanoate hydroxymethyltransferase (EC 2.1.2.11) (Ketopantoate hydroxymethyltransferase)	transferase activity			100
ref YP_003072.1 YP_003072.1	2-amino-4-hydroxy-6-hydroxymethyldihydropteridine pyrophosphokinase	transferase activity			71
ref YP_001861.1 YP_001861.1	thiamine phosphate pyrophosphorylase	transferase activity			71
ref YP_001046.1 YP_001046.1	uridine 5-monophosphate synthase	transferase activity			71
ref YP_002944.1 YP_002944.1	aminotransferase	transferase activity			68
sp Q72M66 COAD_LEPIC	Phosphopantetheine adenylyltransferase (EC 2.7.7.3) (Pantetheine-phosphate adenylyltransferase) (PPA)	transferase activity			68
ref YP_001803.1 YP_001803.1	putative methyltransferase	transferase activity			61
ref YP_000609.1 YP_000609.1	3-deoxy-manno-octulosonate cytidylyltransferase	transferase activity			54
ref YP_000075.1 YP_000075.1	hypothetical protein LIC10075	transferase activity			54
sp P59118 HIS51_LEPIN	Imidazole glycerol phosphate synthase subunit hisH (EC 2.4.2.-) (IGP synthase glutamine amidotransferase)	transferase activity			54

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ref YP_000983.1 YP_000983.1	nicotinate-nucleotide pyrophosphorylase	transferase activity			54
ref YP_002089.1 YP_002089.1	3-demethylubiquinone-9 methyltransferase	transferase activity			50
ref YP_001732.1 YP_001732.1	8-amino-7-oxononanoate synthase	transferase activity			50
ref YP_001277.1 YP_001277.1	acetyl-CoA C-acyltransferase	transferase activity			50
ref YP_003341.1 YP_003341.1	hypoxanthine-guanine-xanthine phosphoribosyltransferase	transferase activity			50
ref YP_000571.1 YP_000571.1	glycosyl transferase	transferase activity			47
ref YP_002409.1 YP_002409.1	putative amino-acid acetyltransferase	transferase activity			47
sp Q72P59 ISPD_LEPIC	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase (EC 2.7.7.60) (4-diphosphocytidyl-2C-methyl	transferase activity			44
ref YP_002178.1 YP_002178.1	mannose-1-phosphate guanylyltransferase	transferase activity			44
ref YP_003552.1 YP_003552.1	mannosyltransferase	transferase activity			44
sp P62382 HIS1_LEPIC	ATP phosphoribosyltransferase (EC 2.4.2.17) (ATP-PRTase) (ATP-PRT)	transferase activity			40
ref YP_000701.1 YP_000701.1	carbon-nitrogen hydrolase	transferase activity			40
ref YP_001585.1 YP_001585.1	mannosyltransferase	transferase activity			40
ref YP_003588.1 YP_003588.1	UTP-glucose-1-phosphate uridyltransferase	transferase activity			40
ref YP_000144.1 YP_000144.1	valine--pyruvate transaminase	transferase activity			40
ref YP_003557.1 YP_003557.1	alginate O-acetyltransferase	transferase activity			34
ref YP_000273.1 YP_000273.1	farnesyl-diphosphate synthase	transferase activity			30
ref YP_001910.1 YP_001910.1	hypothetical protein LIC11970	transferase activity			30
ref YP_000353.1 YP_000353.1	hypothetical protein LIC10364	transferase activity			27
ref YP_000906.1 YP_000906.1	type I restriction enzyme	transferase activity			27
ref YP_001262.1 YP_001262.1	dolichyl-phosphate mannose synthase	transferase activity			24
ref YP_001032.1 YP_001032.1	hypothetical protein LIC11062	transferase activity			24
ref YP_003468.1 YP_003468.1	putative S-adenosyl methionine dependent methyltransferase like protein	transferase activity			24
ref YP_002310.1 YP_002310.1	3-demethylubiquinone-9 3-O-methyltransferase	transferase activity			21
ref YP_000051.1 YP_000051.1	7,8-dihydropteroate synthase protein	transferase activity			21
ref YP_000317.1 YP_000317.1	hypothetical protein LIC10327	transferase activity			21
ref YP_000442.1 YP_000442.1	hypothetical protein LIC10458	transferase activity			21
ref YP_002503.1 YP_002503.1	lipid-a-disaccharide synthase protein	transferase activity			21
ref YP_001612.1 YP_001612.1	phosphoribosylglycinamide formyltransferase	transferase activity			17
ref YP_002068.1 YP_002068.1	sugar transferase	transferase activity			17
ref YP_001879.1 YP_001879.1	polynucleotide adenylyltransferase-like protein	transferase activity			17
ref YP_001730.1 YP_001730.1	adenosylmethionine-8-amino-7-	transferase			14

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	oxononanoate aminotransferase	activity			
ref YP_001278.1 YP_001278.1	lipopolysaccharide heptosyltransferase II	transferase activity			14
ref YP_003241.1 YP_003241.1	putative aminotransferase	transferase activity			14
sp Q72R21 ATE_LEPIC	Putative arginyl-tRNA--protein transferase (EC 2.3.2.8) (R-transferase) (Arginyltransferase)	transferase activity			14
ref YP_003126.1 YP_003126.1	carbonic anhydrase/acyltransferase	transferase activity			14
ref YP_003555.1 YP_003555.1	alginate O-acyltransferase	transferase activity			11
ref YP_003027.1 YP_003027.1	amino-sugar biosynthesis protein	transferase activity			11
ref YP_003143.1 YP_003143.1	ankyrin-like protein	transferase activity			11
ref YP_000552.1 YP_000552.1	hypothetical protein LIC10568	transferase activity			11
sp P62472 MRAW_LEPIC	S-adenosyl-methyltransferase mraW (EC 2.1.1.-)	transferase activity			11
ref YP_003305.1 YP_003305.1	methylated-DNA--protein-cysteine methyltransferase transcription regulator	transferase activity			8
ref YP_003309.1 YP_003309.1	mannosyltransferase	transferase activity			8
ref YP_002192.1 YP_002192.1	hypothetical protein LIC12257	transferase activity			5
ref YP_000191.1 YP_000191.1	glycosyltransferase	transferase activity			5
ref YP_000751.1 YP_000751.1	hypothetical protein LIC10771	transferase activity			5
ref YP_000073.1 YP_000073.1	3-demethylubiquinone-9 methyltransferase 3-	transferase activity			2
ref YP_000014.1 YP_000014.1	hypothetical protein LIC10014	transferase activity			
ref YP_000719.1 YP_000719.1	3-demethylubiquinone-9 methyltransferase 3-	transferase activity			
ref YP_002420.1 YP_002420.1	alginate O-acyltransferase	transferase activity			
ref YP_002049.1 YP_002049.1	ankyrin-like protein	transferase activity			
ref YP_002157.1 YP_002157.1	DNA methyltransferase	transferase activity			
ref YP_002062.1 YP_002062.1	glycosyl transferase	transferase activity			
ref YP_002066.1 YP_002066.1	glycosyltransferase	transferase activity			
ref YP_003452.1 YP_003452.1	hypothetical protein LIC20060	transferase activity			
ref YP_003550.1 YP_003550.1	S-adenosylmethionine--tRNA ribosyltransferase-isomerase	transferase activity			
ref YP_001042.1 YP_001042.1	tetrapyrrole (corrin/porphyrin) methylase	transferase activity			
ref YP_001275.1 YP_001275.1	hypothetical protein LIC11309	transferase activity			
ref YP_001458.1 YP_001458.1	methyltransferase	transferase activity			
ref YP_003518.1 YP_003518.1	precorrin-3 C-17 methylase	transferase activity			
sp Q72U10 UPPS_LEPIC	Undecaprenyl pyrophosphate synthetase (EC 2.5.1.31) (UPP synthetase) (Di-trans,poly-cis-decaprenylci	transferase activity			
ref YP_003097.1 YP_003097.1	acetyltransferase	transferase activity			
ref YP_002055.1 YP_002055.1	dTDP-rhamnosyl transferase	transferase			

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sp Q72NR0 NADD_LEPIC	Probable nicotinate-nucleotide adenyltransferase (EC 2.7.7.18) (Deamido-NAD(+) pyrophosphorylase)	transferase activity			
ref YP_003274.1 YP_003274.1	uroporphyrinogen-III C-methyltransferase	transferase activity			
ref YP_001778.1 YP_001778.1	lipopolysaccharide biosynthesis glycosyltransferase	transferase activity			
ref YP_003017.1 YP_003017.1	sugar-phosphate nucleotidyl transferase	transferase activity			
ref YP_001289.1 YP_001289.1	methyltransferase DNA modification enzyme	transferase activity			
ref YP_000832.1 YP_000832.1	CDP-diglyceride synthetase	transferase activity			
ref YP_000133.1 YP_000133.1	protein-P[II] uridylyltransferase	transferase activity			
ref YP_002214.1 YP_002214.1	3-deoxy-d-manno-octulosonic acid transferase	transferase activity			
ref YP_000684.1 YP_000684.1	3-oxoacyl-	transferase activity			
ref YP_002119.1 YP_002119.1	acetyl transferase	transferase activity			
ref YP_000525.1 YP_000525.1	acetyltransferase	transferase activity			
ref YP_002400.1 YP_002400.1	acetyltransferase	transferase activity			
ref YP_002588.1 YP_002588.1	acetyltransferase	transferase activity			
ref YP_003653.1 YP_003653.1	alginate O-acetyltransferase	transferase activity			
ref YP_001436.1 YP_001436.1	alginate o-acetyltransferase	transferase activity			
ref YP_001217.1 YP_001217.1	alginate o-acetyltransferase	transferase activity			
ref YP_002298.1 YP_002298.1	alginate O-acetyltransferase	transferase activity			
ref YP_003198.1 YP_003198.1	ankyrin domain containing protein	transferase activity			
ref YP_001020.1 YP_001020.1	ankyrin G domain containing protein	transferase activity			
ref YP_001627.1 YP_001627.1	ankyrin repeat protein	transferase activity			
ref YP_002350.1 YP_002350.1	ankyrin repeats-containing protein	transferase activity			
ref YP_000239.1 YP_000239.1	ankyrin-like protein	transferase activity			
ref YP_002923.1 YP_002923.1	ankyrin-like protein	transferase activity			
ref YP_001716.1 YP_001716.1	aspartate aminotransferase	transferase activity			
ref YP_000343.1 YP_000343.1	dimethyladenosine transferase	transferase activity			
ref YP_000784.1 YP_000784.1	glutathione S-transferase	transferase activity			
ref YP_002076.1 YP_002076.1	glycosyl transferase	transferase activity			
ref YP_001063.1 YP_001063.1	glycosyl transferase	transferase activity			
ref YP_002053.1 YP_002053.1	glycosyl transferase	transferase activity			
ref YP_002860.1 YP_002860.1	glycosyl transferase	transferase activity			
ref YP_000192.1 YP_000192.1	glycosyl transferase	transferase activity			

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ref YP_002063.1 YP_002063.1	glycosyltransferase	transferase activity			
ref YP_002056.1 YP_002056.1	glycosyltransferase	transferase activity			
ref YP_002082.1 YP_002082.1	glycosyltransferase	transferase activity			
ref YP_000190.1 YP_000190.1	glycosyltransferase	transferase activity			
ref YP_002873.1 YP_002873.1	glycosyltransferase	transferase activity			
ref YP_001857.1 YP_001857.1	glycosyltransferase	transferase activity			
ref YP_001394.1 YP_001394.1	histidine kinase response regulator hybrid protein	transferase activity			
ref YP_001121.1 YP_001121.1	hypothetical protein LIC11151	transferase activity			
ref YP_000115.1 YP_000115.1	methylnated-DNA--protein-cysteine methyltransferase	transferase activity			
ref YP_003038.1 YP_003038.1	protein-pII uridylyltransferase	transferase activity			
ref YP_003627.1 YP_003627.1	putative acyltransferase	transferase activity			
ref YP_003371.1 YP_003371.1	UDP-3-O-	transferase activity			
ref YP_001591.1 YP_001591.1	UDP-3-O-	transferase activity			
ref YP_001420.1 YP_001420.1	UDP-glucosyltransferase	transferase activity			
sp Q72NG2 RL4_LEPIC	50S ribosomal protein L4	translation	4724	4232	375
sp Q72NG4 RL2_LEPIC	50S ribosomal protein L2	translation	3508	3203	284
sp Q72NI6 RS11_LEPIC	30S ribosomal protein S11	translation	2748	2439	136
ref YP_002772.1 YP_002772.1	30S ribosomal protein S5	translation	3630	2368	335
sp Q72UB1 RL1_LEPIC	50S ribosomal protein L1	translation	3830	2193	238
sp Q72NG1 RL3_LEPIC	50S ribosomal protein L3	translation	2474	1939	324
ref YP_002695.1 YP_002695.1	50S ribosomal protein L21	translation	3487	1764	166
sp P62436 RL11_LEPIC	50S ribosomal protein L11	translation	2168	1638	383
sp Q72NG7 RS3_LEPIC	30S ribosomal protein S3	translation	2467	1595	207
sp Q72NG6 RL22_LEPIC	50S ribosomal protein L22	translation	1517	1550	332
sp Q72U13 EFTS_LEPIC	Elongation factor Ts (EFTs)	translation	1517	1416	603
sp Q72NH3 RL5_LEPIC	50S ribosomal protein L5	translation	1794	1411	517
sp Q72UA9 RL7_LEPIC	50S ribosomal protein L7/L12	translation	6683	1350	707
sp Q72QK3 RL9_LEPIC	50S ribosomal protein L9	translation	1996	1347	480
ref YP_002377.1 YP_002377.1	30S ribosomal protein S1	translation	1564	1224	1521
sp Q72U14 RS2_LEPIC	30S ribosomal protein S2	translation	1783	1015	407
sp Q72V72 RL25_LEPIC	50S ribosomal protein L25 (General stress protein CTC)	translation	1385	996	591
ref YP_002779.1 YP_002779.1	50S ribosomal protein L14	translation	1349	992	151
sp Q72NH5 RS8_LEPIC	30S ribosomal protein S8	translation	944	944	304
ref YP_000741.1 YP_000741.1	50S ribosomal protein L13	translation	1514	901	234
sp Q72NG3 RL23_LEPIC	50S ribosomal protein L23	translation	1552	869	219
sp Q72UB0 RL10_LEPIC	50S ribosomal protein L10	translation	1794	865	736
sp Q72NI9 RL17_LEPIC	50S ribosomal protein L17	translation	2120	846	185
sp Q72PK6 SYT_LEPIC	Threonyl-tRNA synthetase (EC 6.1.1.3) (Threonine-tRNA ligase) (ThrRS)	translation	876	830	850
sp Q72QK0 RS6_LEPIC	30S ribosomal protein S6	translation	1235	824	443
sp Q72S27 RL19_LEPIC	50S ribosomal protein L19	translation	1034	818	121
sp Q72UA5 RS7_LEPIC	30S ribosomal protein S7	translation	1839	774	492
sp Q72V55 GATB_LEPIC	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit B (EC 6.3.5.) (Asp/Glu-ADT subunit B)	translation	847	767	624
sp Q72NG8 RL16_LEPIC	50S ribosomal protein L16	translation	729	755	207
sp Q72NI7 RS4_LEPIC	30S ribosomal protein S4	translation	1330	743	200
sp Q72NH6 RL6_LEPIC	50S ribosomal protein L6	translation	1081	721	395

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sp Q72PR7 SYI_LEPIC	Isoleucyl-tRNA synthetase (EC 6.1.1.5) (Isoleucine--tRNA ligase) (IleRS)	translation	457	505	312
sp Q72NI0 RL15_LEPIC	50S ribosomal protein L15	translation	1853	465	129
sp Q72SC3 GATA_LEPIC	Glutamyl-tRNA(Gln) amidotransferase subunit A (EC 6.3.5.-) (Glu-ADT subunit A)	translation	574	464	525
sp Q72PK8 IF3_LEPIC	Translation initiation factor IF-3 -	translation	350	425	54
sp Q72UA6 RS12_LEPIC	30S ribosomal protein S12	translation	592	401	8
sp Q72NQ6 RL27_LEPIC	50S ribosomal protein L27	translation	955	382	89
sp Q72NG0 RS10_LEPIC	30S ribosomal protein S10	translation	1671	379	435
sp Q72PW7 SYG_LEPIC	Glycyl-tRNA synthetase (EC 6.1.1.14) (Glycine--tRNA ligase) (GlyRS)	translation	272	353	249
sp Q72QT4 SYN_LEPIC	Asparaginyl-tRNA synthetase (EC 6.1.1.22) (Asparagine--tRNA ligase) (AsnRS)	translation	231	331	200
sp Q72S74 DEF_LEPIC	Peptide deformylase (EC 3.5.1.88) (PDF) (Polypeptide deformylase)	translation	494	321	196
sp Q72MR4 SYM_LEPIC	Methionyl-tRNA synthetase (EC 6.1.1.10) (Methionine--tRNA ligase) (MetRS)	translation	350	306	636
sp Q72NH2 RL24_LEPIC	50S ribosomal protein L24	translation	496	302	21
sp Q72NI5 RS13_LEPIC	30S ribosomal protein S13	translation	465	277	110
ref YP_000416.1 YP_000416.1	peptidyl-tRNA hydrolase	translation	251	248	196
sp Q72U06 SYP_LEPIC	Prolyl-tRNA synthetase (EC 6.1.1.15) (Proline--tRNA ligase) (ProRS)	translation	316	239	427
ref YP_002858.1 YP_002858.1	30S ribosomal protein S1	translation	334	233	281
sp Q72RI5 RL28_LEPIC	50S ribosomal protein L28	translation	753	226	24
sp Q72QK5 SYD_LEPIC	Aspartyl-tRNA synthetase (EC 6.1.1.12) (Aspartate--tRNA ligase) (AspRS) -	translation	297	225	253
sp Q72NH4 RS14_LEPIC	30S ribosomal protein S14	translation	770	192	
sp Q72R38 SYK_LEPIC	Lysyl-tRNA synthetase (EC 6.1.1.6) (Lysine--tRNA ligase) (LysRS)	translation		179	211
sp Q72M80 SYFA_LEPIC	Phenylalanyl-tRNA synthetase alpha chain (EC 6.1.1.20) (Phenylalanine--tRNA ligase alpha chain) (Phe	translation	168	176	181
sp Q72U99 RS9_LEPIC	30S ribosomal protein S9	translation	282	129	47
sp Q72NX6 RS15_LEPIC	30S ribosomal protein S15	translation	405	120	54
sp Q72UY6 SYL_LEPIC	Leucyl-tRNA synthetase (EC 6.1.1.4) (Leucine--tRNA ligase) (LeuRS)	translation	147	113	37
ref YP_001514.1 YP_001514.1	30S ribosomal protein S16	translation	2003	95	277
sp Q72PK9 RL35_LEPIC	50S ribosomal protein L35	translation	619	89	14
sp Q72U11 RRF_LEPIC	Ribosome recycling factor (Ribosome-releasing factor) (RRF)	translation	881		533
sp Q72RP1 RS21_LEPIC	30S ribosomal protein S21	translation	649		47
sp Q72NG9 RL29_LEPIC	50S ribosomal protein L29	translation	616		
sp Q72NH0 RS17_LEPIC	30S ribosomal protein S17	translation	596		21
sp Q72QL1 SYR_LEPIC	Arginyl-tRNA synthetase (EC 6.1.1.19) (Arginine--tRNA ligase) (ArgRS)	translation	218		100
ref YP_001248.1 YP_001248.1	peptide chain release factor 3	translation	218		129
ref YP_003127.1 YP_003127.1	phenylalanyl-tRNA synthetase beta chain	translation	149		230
sp Q72V30 SYV_LEPIC	Valyl-tRNA synthetase (EC 6.1.1.9) (Valine--tRNA ligase) (ValRS)	translation			238
sp Q72RP6 SYY_LEPIC	Tyrosyl-tRNA synthetase (EC 6.1.1.1) (Tyrosine--tRNA ligase) (TyrRS) -	translation			103
ref YP_002767.1 YP_002767.1	translation initiation factor IF-1	translation			92
sp Q72P39 RL31_LEPIC	50S ribosomal protein L31	translation			75
sp Q72NH9 RL30_LEPIC	50S ribosomal protein L30	translation			71
sp Q72QK2 RS18_LEPIC	30S ribosomal protein S18	translation			64
sp Q72W38 RF1_LEPIC	Peptide chain release factor 1 (RF-1)	translation			50
sp Q72PL0 RL20_LEPIC	50S ribosomal protein L20	translation			47
ref YP_002204.1 YP_002204.1	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase	translation			47
sp Q72NH7 RL18_LEPIC	50S ribosomal protein L18	translation			30
sp Q72NG5 RS19_LEPIC	30S ribosomal protein S19	translation			24
sp Q72M46 SYE_LEPIC	Glutamyl-tRNA synthetase (EC 6.1.1.17) (Glutamate--tRNA ligase) (GluRS)	translation			496

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ref YP_000346.1 YP_000346.1	tryptophanyl-tRNA synthetase	translation			269
sp P62371 SYH_LEPIC	Histidyl-tRNA synthetase (EC 6.1.1.21) (Histidine--tRNA ligase) (HisRS)	translation			257
ref YP_002717.1 YP_002717.1	methionine sulfoxide reductase B	translation			121
ref YP_000596.1 YP_000596.1	ribosomal protein S18 acetyltransferase	translation			100
sp Q72QT1 SYC_LEPIC	Cysteinyl-tRNA synthetase (EC 6.1.1.16) (Cysteine--tRNA ligase) (CysRS)	translation			96
sp Q72V33 RF2_LEPIC	Peptide chain release factor 2 (RF-2)	translation			96
ref YP_002792.1 YP_002792.1	elongation factor G	translation			85
sp Q72S34 FMT_LEPIC	Methionyl-tRNA formyltransferase (EC 2.1.2.9)	translation			75
sp Q72LR0 GIDA_LEPIC	tRNA uridine 5-carboxymethylaminomethyl modification enzyme gidA (Glucose-inhibited division protein)	translation			75
ref YP_002121.1 YP_002121.1	methionyl-tRNA(fmet) n-formyltransferase	translation			61
sp Q72S28 TRMD_LEPIC	tRNA (guanine-N(1)-)-methyltransferase (EC 2.1.1.31) (M1G-methyltransferase) (tRNA	translation			47
ref YP_000529.1 YP_000529.1	peptide methionine sulfoxide reductase	translation			30
sp Q72PX0 PRMA_LEPIC	Ribosomal protein L11 methyltransferase (EC 2.1.1.-) (L11 Mtase)	translation			30
sp Q72RZ0 PTH_LEPIC	Peptidyl-tRNA hydrolase (EC 3.1.1.29) (PTH)	translation			24
ref YP_001967.1 YP_001967.1	tRNA/rRNA methyltransferase	translation			24
ref YP_002181.1 YP_002181.1	tRNA delta(2)-isopentenylpyrophosphate transferase	translation			21
sp Q72V55 RS20_LEPIC	30S ribosomal protein S20	translation			11
sp Q72VY6 TRME_LEPIC	tRNA modification GTPase trmE	translation			8
ref YP_003635.1 YP_003635.1	lysyl-tRNA synthetase homolog	translation			5
sp Q72NX4 RBFA_LEPIC	Ribosome-binding factor A	translation			
sp Q72W10 TILS_LEPIC	tRNA(Ile)-lysine synthase (EC 6.3.4.-) (tRNA(Ile)-lysine synthetase) (tRNA(Ile)-2-lysyl-cytidine	translation			
sp Q72PM5 RL32_LEPIC	50S ribosomal protein L32	translation			
ref YP_000621.1 YP_000621.1	ribosomal protein serine acetyltransferase	translation			
sp Q72VZ0 RL34_LEPIC	50S ribosomal protein L34	translation			
sp Q72NI4 RL36_LEPIC	50S ribosomal protein L36	translation			
ref YP_001709.1 YP_001709.1	peptide chain release factor 2-like protein	translation			
ref YP_002202.1 YP_002202.1	ribosomal large subunit pseudouridine synthase C	translation			
ref YP_000813.1 YP_000813.1	ribosomal-protein-serine-acetyltransferase	translation			
sp Q72W15 TRMB_LEPIC	tRNA (guanine-N(7)-)-methyltransferase (EC 2.1.1.33) (tRNA(m7G46)-methyltransferase)	translation			
sp Q72NX5 TRUB_LEPIC	tRNA pseudouridine synthase B (EC 5.4.99.-) (tRNA pseudouridine 55 synthase) (Psi55 synthase) (tRNA-	translation			
ref YP_002857.1 YP_002857.1	tRNA/rRNA methyltransferase	translation			
ref YP_001532.1 YP_001532.1	general secretory pathway protein G	transport	1397	2237	114
ref YP_002466.1 YP_002466.1	SecD	transport	1431	1709	242
sp Q72VY8 OXAA_LEPIC	Inner membrane protein oxaA	transport	1044	1275	125
ref YP_003605.1 YP_003605.1	ExbB	transport	784	1256	47
ref YP_001529.1 YP_001529.1	general secretory pathway protein D	transport	658	691	158
ref YP_000985.1 YP_000985.1	OppA	transport	555	610	114
sp Q72Q29 HPPA_LEPIC	Pyrophosphate-energized proton pump (EC 3.6.1.1) (Pyrophosphate-energized inorganic pyrophosphatase)	transport	450	578	162
ref YP_003606.1 YP_003606.1	ExbD	transport	466	568	21
ref YP_001579.1 YP_001579.1	biopolymer transport protein	transport	396	372	30
ref YP_002769.1 YP_002769.1	preprotein translocase SecY	transport	381	368	34
ref YP_001206.1 YP_001206.1	ATP synthase A chain	transport	373	361	11

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ref YP_002614.1 YP_002614.1	hypothetical protein LIC12693	transport	377	344	219
ref YP_001580.1 YP_001580.1	biopolymer transport exbd-related transmembrane protein	transport	223	241	8
ref YP_002905.1 YP_002905.1	sulfate Permease	transport		116	
ref YP_000348.1 YP_000348.1	hypothetical protein LIC10359	transport		69	17
sp Q75FW6 ACP_LEPIC	Acyl carrier protein (ACP)	transport			324
ref YP_003379.1 YP_003379.1	cystine-binding periplasmic protein precursor	transport			143
ref YP_002868.1 YP_002868.1	nitrogen regulatory IIA protein	transport			50
ref YP_002465.1 YP_002465.1	SecF	transport			44
ref YP_002029.1 YP_002029.1	SecG	transport			34
ref YP_002274.1 YP_002274.1	export protein	transport			17
ref YP_002443.1 YP_002443.1	cystine-binding periplasmic protein precursor	transport			114
ref YP_002452.1 YP_002452.1	fatty acid transport protein	transport			61
ref YP_002676.1 YP_002676.1	DshA	transport			44
ref YP_001531.1 YP_001531.1	general secretory pathway protein F	transport			17
ref YP_003542.1 YP_003542.1	tonB-dependent outer membrane receptor	transport			14
ref YP_003607.1 YP_003607.1	hypothetical protein LIC20218	transport			14
ref YP_003335.1 YP_003335.1	hypothetical protein LIC13432	transport			11
ref YP_002156.1 YP_002156.1	cation:proton antiporter	transport			
ref YP_001506.1 YP_001506.1	phosphocarrier protein hpr	transport			
ref YP_001536.1 YP_001536.1	type II secretion pathway related protein etpK-like protein	transport			
ref YP_001590.1 YP_001590.1	phosphotransferase system enzyme I	transport			
ref YP_003603.1 YP_003603.1	hypothetical protein LIC20214	transport			
ref YP_002949.1 YP_002949.1	amino acid transporter	transport			
ref YP_000426.1 YP_000426.1	ammonium transporter	transport			
ref YP_000573.1 YP_000573.1	ammonium transporter	transport			
ref YP_002514.1 YP_002514.1	drug proton antiporter	transport			
ref YP_002318.1 YP_002318.1	drug/metabolite exporter	transport			
ref YP_000058.1 YP_000058.1	drug:Na ⁺ antiporter of the multi antimicrobial extrusion family	transport			
ref YP_000972.1 YP_000972.1	hypothetical protein LIC10998	transport			
ref YP_003540.1 YP_003540.1	multidrug-efflux transporter	transport			
ref YP_002638.1 YP_002638.1	putative 4-hydroxybenzoate transporter transmembrane protein	transport			
ref YP_003461.1 YP_003461.1	small conductance mechanosensitive ion channel	transport			
ref YP_002593.1 YP_002593.1	small conductance mechanosensitive ion channel	transport			
ref YP_000873.1 YP_000873.1	TonB-dependent outer membrane receptor	transport			
ref YP_002911.1 YP_002911.1	TonB-dependent outer membrane receptor	transport			
ref YP_001646.1 YP_001646.1	TonB-dependent outer membrane receptor	transport			
ref YP_003592.1 YP_003592.1	bile acid Na ⁺ symporter	transport			
ref YP_000869.1 YP_000869.1	biopolymer transport exbB-like protein	transport			
ref YP_000867.1 YP_000867.1	ExbD	transport			
ref YP_000868.1 YP_000868.1	ExbD	transport			
ref YP_003560.1 YP_003560.1	ExbD/TolR biopolymer transport protein	transport			
ref YP_001078.1 YP_001078.1	polysaccharide exporter	transport			
ref YP_000727.1 YP_000727.1	SecE	transport			
ref YP_001920.1 YP_001920.1	sec-independent protein translocase	transport			
sp Q72QX8 TATA_LEPIC	Sec-independent protein translocase protein tata/E homolog -	transport			