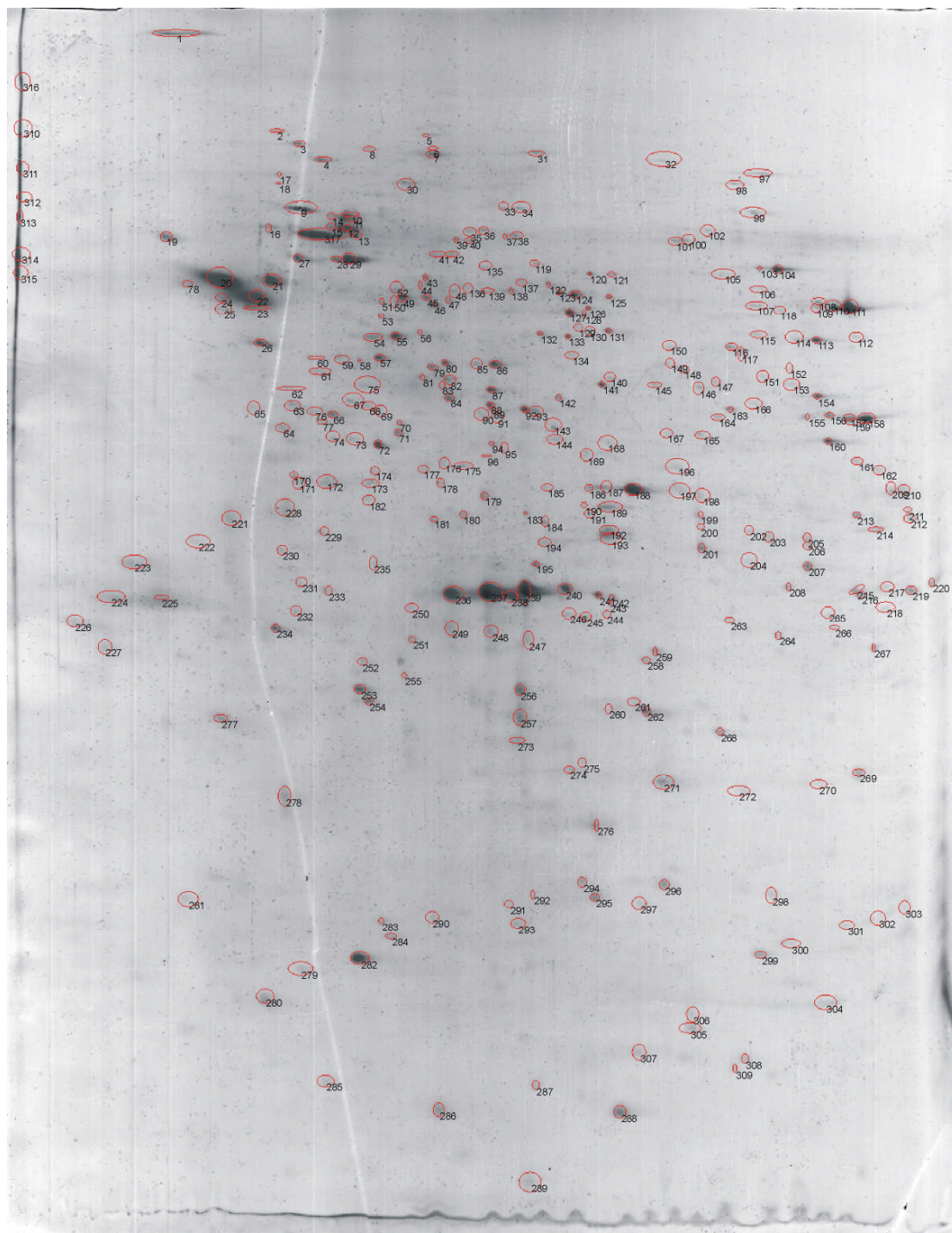


## SUPPLEMENTARY MATERIAL



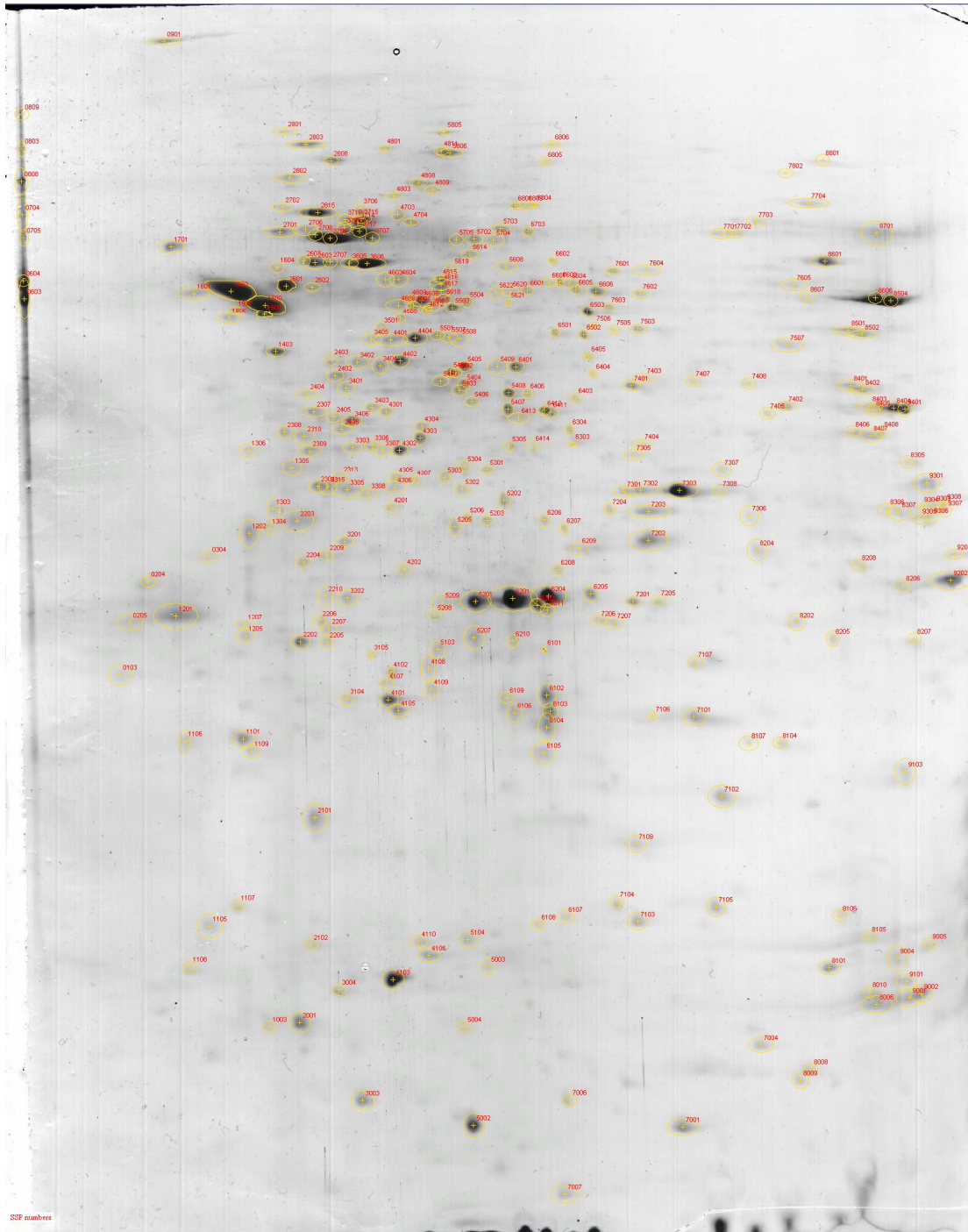
SUPPLEMENTARY FIGURE 1. 2DE gel image of promastigotes.

The gel was processed with Topspot and spot numbers correspond to numbers in column 13 of Supplementary Table 1.



**SUPPLEMENTARY FIGURE 2. 2DE gel image of amastigotes.**

The gel was processed with Topspot and spot numbers correspond to numbers in column 15 of Supplementary Table 1.



**SUPPLEMENTARY FIGURE 3. 2DE gel image of amastigotes.**

The gel was processed with PDQuest and spot numbers correspond to numbers in column 15 of Supplementary Table 1 with an SSP prefix.

Supplementary Table 1. Identified proteins in *Leishmania* spp. (first proteome study).

name	Sanger-ID <sup>1</sup>	NCBI Acc. No. <sup>1</sup>	detected in <sup>2</sup>		Antigen <sup>3</sup>	EC No. <sup>4</sup>	theoretic <sup>5</sup>			Promastigotes <sup>6</sup>			Amastigotes <sup>6</sup>	
			Prom.	Am.			MW	pI	CAI Value	CAI Rank	ESI	MALDI spot no.	ESI	MALDI spot no.
<b>carbohydrat metabolism</b>														
hexokinase, putative L.m. chr 21	LmjF21.0240		x / F	x		[EC:2.7.1.1]	51.7	8.7	0.79925	8004	x			116, 117, SSP_7507
hexokinase, putative Leishmania major chr 21	LmjF21.0250		x	x		[EC:2.7.1.1]	51.7	8.7	0.79963	8005	x			116, SSP_7507
PGI glucose-6-phosphate isomerase L.m. chr 12	LmjF12.0530		x			[EC:5.3.1.9]	67.1	6.2	0.69398	5796	x			
6-phospho-1-fructokinase, putative L.m. chr 29	LmjF29.2510			x		[EC:2.7.1.11]	54.0	9.3	0.75684	7616			x	
ALD fructose-1,6-bisphosphate aldolase L.m. chr 36	LmjF36.1260		x / F	x / B / M		[EC:4.1.2.13]	40.8	8.8	0.75477	7575	x	281		154
triosephosphate isomerase L.m. chr 24	LmjF24.0850		x	x / B / E / N		[EC:5.3.1.1]	27.2	8.6	0.75361	7561		344		259
glyceraldehyde3-phosphate dehydrogenase, glycosomal L.m. chr 30	LmjF30.2970		x	x / N		[EC:1.2.1.12]	39.1	9.1	0.82613	8131	x	298		155, 156, 157, 158, 159
glyceraldehyde 3-phosphate dehydrogenase, glycosomal Leishmania major chr 30	LmjF30.2980		x	x / N		[EC:1.2.1.12]	39.2	9.1	0.82613	8130	x	298		155, 156, 157, 158, 159, SSP_8404
PGKB phosphoglycerate kinase B, cytosolic L.m. chr 20	LmjF20.0110		x / A	x		[EC:2.7.2.3]	44.9	8.1	0.78671	7929		267		149
PGKC phosphoglycerate kinase C, glycosomal Leishmania major chr 20	LmjF20.0100		x / A	x		[EC:2.7.2.3]	51.5	9.0	0.76208	7699		267		149
PGAM 2,3-bisphosphoglycerate-independent phosphoglycerate mutase L.m. chr 36	LmjF36.6650		x	x		[EC:5.4.2.1]	60.7	5.2	0.74897	7497		18		13
ENOL enolase L.m. chr 14	LmjF14.1160		x / F	x / B / N		[EC:4.2.1.11]	46.1	5.6	0.80511	8032		179, 181, 182		54, 55
pyruvate kinase, putative L.m. chr 35	LmjF35.0030		x			[EC:2.7.1.40]	54.2	6.3	0.76477	7724		239		
pyruvate dehydrogenase E1 component alpha subunit, putative L.m. chr 18	LmjF18.1380		x / F	x		[EC:1.2.4.1]	42.8	8.0	0.77811	7864		269, 271		146
pyruvate dehydrogenase E1 beta subunit, putative L.m. chr 25	LmjF25.1710		x / A / F	x		[EC:1.2.4.1]	37.9	5.6	0.73857	7287		129		64
dihydroliipoamide acetyltransferase precursorlike protein L.m. chr 21	LmjF21.0550		x			[EC:2.3.1.12]	40.4	5.4	0.69759	5960		94		
dihydroliipoamide acetyltransferase precursor, putative L.m. chr 36	LmjF36.2660		x / F			[EC:2.3.1.12]	48.7	7.0	0.70970	6452		159, 160		
dihydroliipoamide dehydrogenase, putative L.m. chr 32	LmjF32.3310		x / F	x		[EC:1.8.1.4]	50.5	6.4	0.79369	7970		239, 240		123
glycosomal phosphoenolpyruvate carboxykinase, putative L.m. chr 27	LmjF27.1805		x / F	x		[EC:4.1.1.49]	58.2	8.2	0.83447	8161	x		x	103, 104, 105
glycosomal phosphoenolpyruvate carboxykinase, putative Leishmania major chr 27	LmjF27.1810		x	x / N		[EC:4.1.1.49]	58.2	8.2	0.83447	8162	x		x	103, 104, 105
citrate synthase, putative L.m. chr 18	LmjF18.0680		x			[EC:2.3.3.1]	52.3	6.7	0.79881	7999	x	261		
aconitase, putative L.m. chr 18	LmjF18.0510		x	x		[EC:4.2.1.3]	97.4	6.2	0.75562	7586		30		31
isocitrate dehydrogenase [NADP], mitochondrial precursor, putative L.m. chr 10	LmjF10.0290		x	x / E / N		[EC:1.1.1.42]	48.5	8.3	0.77404	7828	x	270		141
isocitrate dehydrogenase, putative L.m. chr 33	LmjF33.2550		x	E		[EC:1.1.1.42]	46.3	5.4	0.71344	6596		113		
2-oxoglutarate dehydrogenase subunit, putative L.m. chr 27	LmjF27.0880		x			[EC:1.2.4.2]	112.6	6.5	0.74463	7415	x			
2-oxoglutarate dehydrogenase, E2 component, dihydroliipoamide succinyltransferase, putative Leishma	LmjF28.2420		x / F			[EC:2.3.1.61]	41.7	9.0	0.75254	7539		265		
succinyl-CoA ligase [GDP-forming] beta-chain, putative L.m. chr 36	LmjF36.2950		x / F	M		[EC:6.2.1.5]	44.2	6.5	0.73124	7131		193		
succinyl-CoA synthetase alpha subunit, putative Leishmania major chr 25	LmjF25.2130			x		[EC:6.2.1.4]	30.9	9.2	0.82724	8136				160, SSP_8408
succinyl-CoA synthetase alpha subunit, putative L.m. chr 25	LmjF25.2140			x		[EC:6.2.1.5]	30.9	9.2	0.82724	8135				160, SSP_8408
succinate dehydrogenase flavoprotein, putative L.m. chr 24	LmjF24.1630		x	x		[EC:1.3.5.1]	66.7	6.4	0.77051	7795		78		37, 38
fumarate hydratase, putative L.m. chr 24	LmjF24.0320		x			[EC:4.2.1.2]	60.8	7.2	0.74423	7401		251		
malate dehydrogenase L.m. chr 34	LmjF34.0140		x / F	x / N		[EC:1.1.1.37]	33.3	8.5	0.70769	6379		286	x	185, 186, 187, 188, 189, 192, 193, 197
glycosomal malate dehydrogenase L.m. chr 19	LmjF19.0710			x / N		[EC:1.1.1.37]	33.6	9.0	0.72048	6823				213, SSP_8307
GPD glycerol-3-phosphate dehydrogenase [NAD+], glycosomal/mitochondrial L.m. chr 10	LmjF10.0510		x	x	x	[EC:1.1.1.8]	39.3	9.3	0.76505	7729	x		x	
NADP-dependent alcohol dehydrogenase, putative L.m. chr 23	LmjF23.0360		x			[EC:1.1.1.2]	38.3	5.8	0.74452	7412	x	194		
acetyl-CoA synthetase, putative L.m. chr 23	LmjF23.0710		x			[EC:6.2.1.1]	78.5	6.2	0.75818	7638	x			
acetyl-CoA synthetase, putative Leishmania major chr 23	LmjF23.0540		x	x / M		[EC:6.2.1.1]	78.5	6.2	0.75640	7602	x		x	
aldose 1-epimerase-like protein L.m. chr 23	LmjF23.0430		x			[EC:5.1.3.3]	44.2	5.3	0.69910	6023		57		
aldose 1-epimerase-like protein L.m. chr 34	LmjF34.3380		x			[EC:5.1.3.3]	33.1	6.3	0.70362	6231		283		
aldose 1-epimerase, putative L.m. chr 35	LmjF35.0970		x / B			[EC:5.1.3.3]	41.4	6.0	0.80448	8029		187		
phosphoglucomutase, putative L.m. chr 21	LmjF21.0640		x			[EC:5.4.2.2]	63.9	5.7	0.74580	7437		61		
cytosolic malate dehydrogenase, putative L.m. chr 28	LmjF28.2660		x			[EC:1.1.1.37]	34.1	5.8	0.67740	4966		207		
fructose-1,6-bisphosphatase, cytosolic, putative L.m. chr 4	LmjF04.1160		x			[EC:3.1.3.11]	38.8	8.8	0.75232	7537	x			
pyruvate phosphate dikinase, putative L.m. chr 11	LmjF11.1000		x	x		[EC:2.7.9.1]	100.9	8.7	0.78127	7889	x			32
EXGMP mannose-1-phosphate guanylttransferase L.m. chr 23	LmjF23.0110		x / A / F			[EC:2.7.7.13]	41.7	5.7	0.71033	6472		198		
GDP-mannose pyrophosphorylase [Leishmania mexicana]		gil12584592		x			41.5	5.3						77
PMH phosphomannomutase, putative L.m. chr 36	LmjF36.1960		x / A / F / M	N		[EC:5.4.2.8]	26.1	5.2	0.62629	2018		315		
<b>pentose phosphate pathway</b>														
G6PD glucose-6-phosphate dehydrogenase L.m. chr 34	LmjF34.0080		x	M		[EC:1.1.1.49]	63.3	5.6	0.70251	6171		59, 60		

6-phosphogluconate dehydrogenase, decarboxylating, putative L.m. chr 35	LmjF35.3340		x / M			[EC:1.1.1.44]	44.4	5.6	0.73299	7183	x			
transketolase, putative L.m. chr 24	LmjF24.2060		x / A / F			[EC:2.2.1.1]	71.6	6.1	0.72059	6826	x	77		
Chain A, Transketolase From Leishmania Mexicana		gll56965908		x			72.1	6.1						36, SSP_5703
deoxyribose-phosphate aldolase, putative L.m. chr 6	LmjF06.1070		x			[EC:4.1.2.4]	29.7	6.3	0.70678	6348		235		
transaldolase, putative L.m. chr 16	LmjF16.0760		x	x		[EC:2.2.1.2]	36.9	5.4	0.73629	7254	x			x
6-phosphogluconolactonase	LmjF26.2700			M		[EC:3.1.1.17]	28.4	5.5	0.65231	3508				
<b>fatty acid metabolism</b>														
long chain fatty Acyl CoA synthetase, putative L.m. chr 3	LmjF03.0230		x	x		[EC:6.2.1.3]	78.9	8.4	0.73975	7313	x			x
camitine/choline acetyltransferase, putative L.m. chr 29	LmjF29.1310		x / F			[EC:2.3.1.-]	68.6	5.9	0.71631	6689	x	75		
3-ketoacyl-coa thiolase-like protein L.m. chr 23	LmjF23.0690		x			[EC:2.3.1.16]	47.4	6.9	0.74731	7460		263, 266		
thiolase protein-like protein L.m. chr 31	LmjF31.1640			x		[EC:2.3.1.16]	46.9	9.0	0.61207	1371				x
putative 3-ketoacyl-coa thiolase-like protein Leishmania major chr 31	LmjF31.1630			x		[EC:2.3.1.16]	38.1	8.9	0.60751	1199				175
trifunctional enzyme alpha subunit, mitochondrial precursor-like protein L.m. chr 26	LmjF26.1550			x		[EC:4.2.1.17]	79.4	8.9	0.74025	7329				x
enoyl-CoA hydratase/Enoyl-CoA isomerase/3-hydroxyacyl-CoA dehydrogenase, putative L.m.	LmjF33.2600		x			[EC:4.2.1.17]	102.1	8.9	0.67861	5019	x			
malic enzyme, putative L.m. chr 24	LmjF24.0770		x			[EC:1.1.1.38]	63.4	8.3	0.75025	7516	x	252, 256		
ALDH2 aldehyde dehydrogenase, mitochondrial precursor L.m. chr 25	LmjF25.1120		x / F	x		[EC:1.2.1.3]	54.1	6.7	0.76907	7772		240		124
3,2-trans-enoyl-CoA isomerase, mitochondrial precursor, putative L.m. chr 31	LmjF31.2250		F	x		[EC:5.3.3.8]	42.8	9.0	0.69397	5794				70
2,4-dienoyl-coa reductase fadh1, putative L.m. chr 33	LmjF33.0830		F	x		[EC:1.3.1.34]	78.6	8.7	0.66937	4526				98
<b>proteins of the respiratory chain</b>														
electron transfer flavoprotein, putative L.m. chr 25	LmjF25.0120		x				28.2	8.9	0.70696	6352	x			
reiske iron-sulfur protein precursor, putative L.m. chr 35	LmjF35.1540		x	x / B		[EC:1.10.2.2]	33.7	5.9	0.76719	7756		151		173, SSP_3303
cytochrome c, putative L.m. chr 16	LmjF16.1310		x			[EC:1.9.3.1]	12.2	10.3	0.78123	7888	x			
cytochrome c, putative Leishmania major chr 16	LmjF16.1320		x			[EC:1.9.3.1]	12.2	10.3	0.77114	7800	x			
cytochrome c oxidase subunit iv L.m. chr 12	LmjF12.0670		x / D / F	x		[EC:1.9.3.1]	39.4	5.6	0.76026	7676		120		72
cytochrome c oxidase subunit V, putative L.m. chr 26	LmjF26.1710		x	x		[EC:1.9.3.1]	22.3	6.1	0.69013	5616		319		254
COX6 cytochrome C oxidase subunit VI, putative L.m. chr 21	LmjF21.1710			x		[EC:1.9.3.1]	19.2	6.8	0.72267	6893				296
ATP synthase, putative L.m. chr 21	LmjF21.1340		x			[EC:3.6.3.14]	54.0	6.0	0.76691	7753	x			
ATP synthase, putative L.m. chr 36	LmjF36.3100			x		[EC:3.6.3.14]	25.1	8.4	0.75795	7633				242
ATPase alpha subunit L.m. chr 5	LmjF05.0600		x / F	x		[EC:3.6.3.14]	62.5	9.7	0.88905	8264	x			x
ATPase alpha subunit Leishmania major chr 5	LmjF05.0510		x	x		[EC:3.6.3.14]	62.5	9.7	0.88905	8263	x			x
ATPase beta subunit, putative L.m. chr 25	LmjF25.1180		x / A / F	x / B / N		[EC:3.6.3.14]	56.3	5.1	0.83143	8151		93		21
ATPase beta subunit, putative Leishmania major chr 25	LmjF25.1170		x / A	x / B / N		[EC:3.6.3.14]	56.3	5.1	0.83143	8150		93		21
ATP synthase F1 subunit gamma protein, putative L.m. chr 21	LmjF21.1770		x / F	x		[EC:3.6.3.14]	34.4	9.3	0.76601	7742	x			x
ATP synthase, epsilon chain, putative L.m. chr 30	LmjF30.3600		x / F			[EC:3.6.3.14]	20.1	5.0	0.68932	5573		321		214, SSP_9306
<b>protein biosynthesis</b>														
seryl-tRNA synthetase, putative L.m. chr 11	LmjF11.0100		x	M		[EC:6.1.1.11]	53.1	5.3	0.71465	6640		56		
cysteinyl-tRNA synthetase, putative L.m. chr 12	LmjF12.0250		x			[EC:6.1.1.16]	88.5	5.7	0.79583	7976	x			
tyrosyl or methionyl-tRNA synthetase-like protein L.m. chr 16	LmjF16.1130		x			[EC: 6.1.1.-]	19.6	5.3	0.77416	7830		232		
alanyl-tRNA synthetase, putative L.m. chr 22	LmjF22.1540			x		[EC:6.1.1.7]	106.3	5.6	0.73260	7169				SSP_4801
arginyl-tRNA synthetase, putative L.m. chr 27	LmjF27.1310		x			[EC:6.1.1.19]	78.2	6.2	0.75678	7614	x			
aspartyl-tRNA synthetase, putative L.m. chr 30	LmjF30.0460		x			[EC:6.1.1.12]	62.3	6.9	0.80231	8019	x			
valyl-tRNA synthetase, putative L.m. chr 30	LmjF30.3130		x			[EC:6.1.1.9]	109.6	6.2	0.78540	7919	x			
threonyl-tRNA synthetase, putative L.m. chr 35	LmjF35.1410		x			[EC:6.1.1.3]	89.4	6.4	0.79400	7972	x			
ILERS isoleucyl-tRNA synthetase, putative L.m. chr 36	LmjF36.5620		x	x		[EC:6.1.1.5]	125.7	6.0	0.78611	7925	x			x
prolyl-tRNA synthetase, putative L.m. chr 18	LmjF18.1210		x			[EC:6.1.1.15]	81.5	6.0	0.79754	7989	x			
histidyl-tRNA synthetase, putative; LinJ30.0960	LmjF30.0630		F			[EC:6.1.1.21]	53.0	5.7	0.71288	6578				
nascent polypeptide associated complex subunit-like protein, copy 1 L.m. chr 4	LmjF04.0770		x	N			18.2	4.5	0.80399	8026		308, 309		
translation factor SUH1, putative L.m. chr 24	LmjF24.1210			x			12.4	9.4	0.70337	6217				SSP_9004
elongation factor 1-alpha L.m. chr 17	LmjF17.0080		x / F	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88541	8257	x	293, 294, 295		x
elongation factor 1-alpha Leishmania major chr 17	LmjF17.0081		x	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88754	8260	x	293, 294, 295		x
elongation factor 1-alpha Leishmania major chr 17	LmjF17.0082		x	x / N	x	[EC:3.6.5.3]	49.0	9.1	0.88754	8261		293, 294, 295		x
elongation factor 1-alpha Leishmania major chr 17	LmjF17.0083		x	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88634	8258	x	293, 294, 295		x
elongation factor 1-alpha Leishmania major chr 17	LmjF17.0084		x	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88754	8262	x	293, 294, 295		x
elongation factor 1-alpha Leishmania major chr 17	LmjF17.0085		x	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88754	8259	x	293, 294, 295		x

elongation factor 1-alpha Leishmania major chr 17	LmjF17.0086		x	x / N	x	[EC:3.6.5.3]	49.1	9.0	0.88541	8256	x	293, 294, 295	x	109, 110, 111, 147, 162, 216	
translation elongation factor 1-beta, putative L.m. chr 34	LmjF34.0820		x	x	x		25.6	5.2	0.86504	8238	x	149		SSP_2304	
translation elongation factor 1-beta, putative Leishmania major chr 34	LmjF34.0840		x	x	x		25.6	5.2	0.86504	8237	x	149		SSP_2304	
translation elongation factor 1-beta, putative L.m. chr 36	LmjF36.1430		x / M		x		23.3	4.7	0.81516	8083		139			
EF1G elongation factor-1 gamma L.m. chr 9	LmjF09.0970		x				46.2	5.4	0.87445	8248	x				
EF2-1 elongation factor 2 L.m. chr 36	LmjF36.0180		x	x / N		[EC:3.6.5.3]	94.1	5.8	0.84111	8184	x	26, 27, 28		7	
EF2-1 elongation factor 2 Leishmania major chr 36	LmjF36.0190		x	x / N		[EC:3.6.5.3]	94.1	5.8	0.84111	8183	x	26, 27, 28		7	
eukaryotic translation initiation factor 1A, putative L.m. chr 16	LmjF16.0140		x	x			18.7	4.7	0.74954	7507		323		SSP_1109	
elongation initiation factor 2 alpha subunit, putative L.m. chr 3	LmjF03.0980		x / F				49.0	5.6	0.63888	2730	x				
translation initiation factor if-2, putative L.m. chr 33	LmjF33.2740		x				92.3	6.3	0.75134	7525	x				
eukaryotic translation initiation factor 3 subunit, putative L.m. chr 36	LmjF36.3880		x / F	x / M			45.4	5.8	0.68419	5310		117		SSP_2404	
eukaryotic translation initiation factor 3 subunit 7-like protein L.m. chr 30	LmjF30.3040		x				60.9	5.1	0.79480	7975	x				
EIF3-interacting protein-like protein L.m. chr 36	LmjF36.0250		x / M				72.6	8.9	0.75165	7527	x				
eukaryotic initiation factor 4a, putative L.m. chr 1	LmjF01.0770		x / B	x / M / N	x		45.3	5.8	0.83730	8169	x		x	80	
eukaryotic initiation factor 4a, putative Leishmania major chr 1	LmjF01.0780		x / B	x / M / N	x		45.3	5.8	0.83730	8168	x		x	80	
EIF5A eukaryotic initiation factor 5a, putative Leishmania major chr 25	LmjF25.0720		x / B	x / B / N	x		17.8	4.8	0.67543	4867		322		277	
EIF5A eukaryotic initiation factor 5a, putative L.m. chr 25	LmjF25.0730		x / B	x / B / N	x		17.8	4.8	0.67543	4866		322		277	
Eukaryotic translation initiation factor 6 (eIF-6), putative L.m. chr 36	LmjF36.0890		x / D				27.1	5.1	0.69443	5820				313	
elongation factor TU, putative L.m. chr 18	LmjF18.0740		x	x		[EC:3.6.5.3]	51.5	7.0	0.79268	7964		258		126, SSP_7603	
<b>ribosomal proteins</b>															
40s ribosomal protein S2 L.m. chr 19	LmjF19.0060		x	x / N			28.7	9.5	0.74646	7446	x			211, 212, SSP_9308	
40s ribosomal protein S2 L.m. chr 32	LmjF32.0450		x	x / N			28.7	9.6	0.74550	7431				211, 212, SSP_9308	
40s ribosomal protein S3, putative L.m. chr 15	LmjF15.0950		x	x			24.5	9.8	0.79871	7997	x		x		
40s ribosomal protein S3, putative Leishmania major chr 33	LmjF33.0920		x	x			24.5	9.8	0.80624	8038	x		x		
40S ribosomal protein S3a, putative L.m. chr 35	LmjF35.0400		x	x			30.0	10.3	0.83586	8165	x		x		
40S ribosomal protein S3a, putative Leishmania major chr 35	LmjF35.0410		x	x			30.0	10.3	0.83586	8164	x		x		
40S ribosomal protein S3a, putative Leishmania major chr 35	LmjF35.0420		x	x			30.0	10.3	0.83586	8166	x		x		
40S ribosomal protein S4, putative L.m. chr 13	LmjF13.1220		x	x			30.7	10.3	0.85722	8224	x		x		
40S ribosomal protein S4, putative Leishmania major chr 13	LmjF13.1230		x	x			30.7	10.3	0.85722	8225	x		x		
40S ribosomal protein S5 L.m. chr 11	LmjF11.0960		x				21.3	10.2	0.79806	7994	x				
40S ribosomal protein S5 Leishmania major chr 11	LmjF11.0970		x				21.3	10.2	0.79806	7995	x				
RPS6 40S ribosomal protein S6, putative L.m. chr 21	LmjF21.1780		x / F / M	x			28.3	11.5	0.80314	8023	x		x		
40S ribosomal protein S6, putative Leishmania major chr 35	LmjF35.2010		x / M	x			28.3	11.5	0.80533	8034	x		x		
ribosomal protein S7, putative L.m. chr 1	LmjF01.0410		x	x	x		23.7	11.1	0.86387	8234	x		x		
ribosomal protein S7, putative Leishmania major chr 1	LmjF01.0420		x	x	x		23.7	11.1	0.86387	8235	x		x		
40S ribosomal protein S8, putative L.m. chr 24	LmjF24.2070		x	x			24.9	11.3	0.76828	7765	x		x		
40S ribosomal protein S8, putative Leishmania major chr 24	LmjF24.2080		x	x			24.9	11.3	0.76828	7766	x		x		
40S ribosomal protein S9, putative L.m. chr 7	LmjF07.0680		x				22.1	10.7	0.82766	8137	x				
40S ribosomal protein S9, putative Leishmania major chr 36	LmjF36.1250		x				22.1	10.7	0.80845	8047	x				
40s ribosomal protein s10, putative L.m. chr 36	LmjF36.0980		x				18.6	10.5	0.73757	7275	x				
40s ribosomal protein s10, putative Leishmania major chr 36	LmjF36.0990		x				18.6	10.5	0.73343	7191	x				
ribosomal protein s11 homolog L.m. chr 20	LmjF20.1650		x				16.3	10.9	0.83212	8160	x				
40S ribosomal protein S11, putative Leishmania major chr 21	LmjF21.1550		x				16.3	10.9	0.83212	8159	x				
40S ribosomal protein S12, putative L.m. chr 13	LmjF13.0570		x / D / G	x / N			15.6	4.8	0.69028	5626		347		281, SSP_1107	
40s ribosomal protein S13, putative L.m. chr 19	LmjF19.0390		x				17.4	11.6	0.81751	8093	x				
40s ribosomal protein S13, putative Leishmania major chr 19	LmjF33.3150		x				17.4	11.6	0.81253	8073	x				
40S ribosomal protein S14 L.m. chr 28	LmjF28.0960		x / F				15.6	10.3	0.74056	7335	x				
40S ribosomal protein S15, putative L.m. chr 22	LmjF22.0420		x				17.4	10.2	0.81994	8118	x				
40S ribosomal protein S15, putative Leishmania major chr 22	LmjF22.0460		x				17.4	10.2	0.81994	8117	x				
40S ribosomal protein S15a, putative L.m. chr 11	LmjF11.1190		x	x			14.7	9.9	0.81929	8114	x		x		
40S ribosomal protein S15a, putative Leishmania major chr 29	LmjF29.1800		x	x			14.7	9.9	0.81085	8067	x		x		
40S ribosomal protein S16, putative L.m. chr 26	LmjF26.0880		x				16.7	10.2	0.83206	8157	x				
40S ribosomal protein S16, putative Leishmania major chr 26	LmjF26.0890		x				16.7	10.2	0.83206	8158	x				
40s ribosomal protein s17, putative L.m. chr 28	LmjF28.2555		x				16.5	10.8	0.85400	8216	x				
40s ribosomal protein s17, putative Leishmania major chr 28	LmjF28.2560		x				16.5	10.8	0.85400	8217	x				
40S ribosomal protein S18, putative L.m. chr 36	LmjF36.0940		x				17.4	10.5	0.82193	8124	x				
40S ribosomal protein S19-like protein L.m. chr 29	LmjF29.2860		x	x			18.1	10.8	0.77585	7849	x		x		
40S ribosomal protein S19-like protein Leishmania major chr 29	LmjF34.2780		x	x			18.1	10.8	0.75667	7610	x		x		
ribosomal protein s20, putative Leishmania major chr 28	LmjF28.1010		x				13.0	9.9	0.86188	8233		376			
ribosomal protein s20, putative L.m. chr 28	LmjF28.1030		x				13.0	9.9	0.86188	8232		376			
40S ribosomal protein S21, putative L.m. chr 11	LmjF11.0760		x				17.0	11.4	0.78709	7934	x				
40S ribosomal protein S21, putative Leishmania major chr 11	LmjF11.0780		x				17.0	11.4	0.78709	7935	x				
40S ribosomal protein S23, putative L.m. chr 21	LmjF21.1060		x	x			15.9	10.7	0.77132	7802	x		x		
40S ribosomal protein S23, putative Leishmania major chr 21	LmjF21.1070		x	x			15.9	10.7	0.77132	7803	x		x		

S24E 40s ribosomal protein s24e L.m. chr 36	LmjF36.2860		x					15.8	11.1	0.83144	8152	x					
S24E 40s ribosomal protein s24e Leishmania major chr 36	LmjF36.2870		x					15.8	11.1	0.83144	8153	x					
ribosomal protein s25 L.m. chr 25	LmjF25.1190		x / F					13.0	10.1	0.80990	8057	x					
40s ribosomal protein s27-1, putative L.m. chr 36	LmjF36.3750		x					9.8	9.7	0.80630	8039			377			
S33 40S ribosomal protein S33, putative Leishmania major chr 26	LmjF26.1630		x					9.7	9.8	0.74817	7485			377			
S33 40S ribosomal protein S33, putative L.m. chr 26	LmjF26.1640		x					9.7	9.8	0.74817	7484			377			
40S ribosomal protein SA, putative L.m. chr 36	LmjF36.5010		x / F		F			27.5	7.7	0.85267	8214	x					
40S ribosomal protein SA, putative Leishmania major chr 36	LmjF36.5120		x					27.5	7.7	0.85730	8226	x					
40S ribosomal protein L14, putative L.m. chr 22	LmjF22.1520		x		x			19.9	10.5	0.82951	8146	x				x	
40S ribosomal protein L14, putative Leishmania major chr 22	LmjF22.1560		x		x			19.9	10.5	0.82545	8129	x				x	
ribosomal protein L1a, putative L.m. chr 29	LmjF29.1090		x		x			41.0	11.7	0.88433	8255	x				x	
60S ribosomal protein L2, putative L.m. chr 32	LmjF32.3900		x		x			28.3	10.7	0.84542	8196	x				x	
60S ribosomal protein L2, putative Leishmania major chr 35	LmjF35.1420				x			28.3	10.7	0.72633	7015					x	
60S ribosomal protein L2, putative Leishmania major chr 35	LmjF35.1430		x		x			28.3	10.7	0.83965	8180	x				x	
60S ribosomal protein L2, putative Leishmania major chr 35	LmjF35.1440		x					28.3	10.7	0.83965	8181	x					
ribosomal protein I3, putative L.m. chr 32	LmjF32.3130		x		x			47.5	11.1	0.85192	8210	x				x	
ribosomal protein I3, putative Leishmania major chr 34	LmjF34.2870		x		x			47.5	11.1	0.85192	8213	x				x	
ribosomal protein I3, putative Leishmania major chr 34	LmjF34.2880		x		x			47.5	11.1	0.85192	8209	x				x	
ribosomal protein I3, putative Leishmania major chr 34	LmjF34.2890		x		x			47.5	11.1	0.85192	8211	x				x	
ribosomal protein I3, putative Leishmania major chr 34	LmjF34.2900		x		x			47.5	11.1	0.85192	8212	x				x	
60S ribosomal protein I5, putative L.m. chr 35	LmjF35.1880		x / M		x			34.0	10.0	0.88182	8251	x				x	
60S ribosomal protein I5, putative Leishmania major chr 35	LmjF35.1890		x / M		x			36.6	10.0	0.86111	8231	x				x	
60S ribosomal protein I5, putative Leishmania major chr 35	LmjF35.1900		x / M		x			34.0	10.0	0.87855	8249	x				x	
60S ribosomal protein L7, putative L.m. chr 26	LmjF26.0170		x		x			28.8	10.5	0.80142	8013	x				x	
60S ribosomal protein L7, putative Leishmania major chr 26	LmjF26.0180		x		x			28.8	10.5	0.80534	8035	x				x	
60S ribosomal protein L7a, putative L.m. chr 7	LmjF07.0500		x / F		x			29.7	10.9	0.82040	8122	x				x	
60S ribosomal protein L7a, putative Leishmania major chr 7	LmjF07.0510		x		x			29.7	10.9	0.81548	8084	x				x	
60S ribosomal protein L9, putative Leishmania major chr 30	LmjF30.3340		x					21.5	9.9	0.78657	7928	x					
60S ribosomal protein L9, putative L.m. chr 21	LmjF21.1050		x					21.5	9.9	0.79330	7968	x					
L1L10 60S ribosomal protein L10, putative L.m. chr 4	LmjF04.0750		x		x		x	24.5	10.8	0.82411	8127	x				x	
L1L10 60S ribosomal protein L10, putative Leishmania major chr 4	LmjF04.0950		x		x		x	24.5	10.8	0.82442	8128	x				x	
60S ribosomal protein L10a, putative L.m. chr 18	LmjF18.0620		x					24.5	9.6	0.84744	8205	x					
RPL10a 60S ribosomal protein L10a, putative Leishmania major chr 36	LmjF36.3760		x					24.5	9.6	0.86027	8228	x					
60S ribosomal protein L11 (L5, L16) Leishmania major chr 4	LmjF22.0030		x					21.6	10.0	0.80210	8017	x					
60S ribosomal protein L11 (L5, L16) L.m. chr 4	LmjF04.0470		x					21.6	10.0	0.79459	7974	x					
60S ribosomal protein L12, putative L.m. chr 24	LmjF24.2210		x		x			17.5	9.8	0.75670	7611	x				x	
60S ribosomal protein L12, putative Leishmania major chr 24	LmjF35.2190		x		x			17.5	9.8	0.76555	7738	x				x	
60S ribosomal protein L13, putative L.m. chr 29	LmjF29.2460		x		x			24.7	10.8	0.80747	8042	x				x	
60S ribosomal protein L13, putative Leishmania major chr 29	LmjF29.2470		x		x			24.7	10.8	0.81148	8068	x				x	
60S ribosomal protein L13a, putative L.m. chr 15	LmjF15.0200		x		x			25.4	10.8	0.80201	8015	x				x	
60S ribosomal protein L13a, putative Leishmania major chr 34	LmjF34.0860		x		x			25.4	10.7	0.80810	8045	x				x	
60S ribosomal protein L17, putative L.m. chr 24	LmjF24.0040		x		x			19.1	10.7	0.83904	8179	x				x	
60S ribosomal protein L17, putative Leishmania major chr 3	LmjF32.0430		x		x			19.1	10.7	0.82390	8126	x				x	
60s ribosomal protein I18, putative L.m. chr 13	LmjF13.0560		x		x			22.0	11.6	0.79922	8003	x				x	
RPL18 60s ribosomal protein I18, putative Leishmania major chr 36	LmjF36.4510		x		x			22.0	11.6	0.80582	8037	x				x	
60S ribosomal protein L18a, putative L.m. chr 32	LmjF32.0880		x		x			20.8	10.3	0.81682	8089	x				x	
60S ribosomal protein L18a, putative Leishmania major chr 35	LmjF35.0600		x		x			20.8	10.3	0.80495	8031	x				x	
60S ribosomal protein L19, putative L.m. chr 6	LmjF06.0410		x		x			28.8	11.4	0.81957	8115	x				x	
60S ribosomal protein I21, putative L.m. chr 34	LmjF34.3650		x		x			18.0	10.5	0.79900	8002	x				x	
60S ribosomal protein I21, putative L.m. chr 16	LmjF16.0460		x		x			18.0	10.5	0.80243	8021	x				x	
60S ribosomal protein L23, putative L.m. chr 35	LmjF35.3790		x / F					14.9	10.1	0.74788	7477	x					
60S ribosomal protein L23, putative Leishmania major chr 35	LmjF35.3800		x					14.9	10.1	0.74788	7476	x					
60S ribosomal protein L23a, putative L.m. chr 6	LmjF06.0570		x					16.3	10.5	0.76552	7735	x					
60S ribosomal protein L23a, putative Leishmania major chr 6	LmjF06.0580		x					16.3	10.5	0.76552	7736	x					
ribosomal protein L24, putative L.m. chr 36	LmjF36.1070		x		x			14.6	11.6	0.86902	8242	x				x	
ribosomal protein L24, putative Leishmania major chr 36	LmjF36.1100		x		x			14.6	11.6	0.86902	8241	x				x	
60S ribosomal protein L26, putative Leishmania major chr 24	LmjF35.1670		x		x			16.2	10.8	0.80453	8030	x				x	
60S ribosomal protein L26, putative L.m. chr 24	LmjF24.2050		x		x			16.2	10.8	0.80206	8016	x				x	
ribosomal protein L27, putative L.m. chr 32	LmjF32.2690		x		x			15.4	11.7	0.83160	8154	x				x	
ribosomal protein L27, putative Leishmania major chr 32	LmjF32.2710		x		x			15.4	11.7	0.83160	8155	x				x	
60S ribosomal protein L27A/L29, putative L.m. chr 35	LmjF35.3760		x		x			16.1	10.4	0.77934	7870	x				x	
60S ribosomal protein L27A/L29, putative Leishmania major chr 35	LmjF35.3780		x		x			16.1	10.4	0.79980	8006	x				x	
60S ribosomal protein I28, putative L.m. chr 11	LmjF11.1110		x					16.2	12.2	0.79589	7977	x					
60S ribosomal protein I28, putative Leishmania major chr 11	LmjF11.1130		x					16.2	12.2	0.79589	7978	x					
60S ribosomal protein L30 L.m. chr 35	LmjF35.0240		x					11.3	9.7	0.77786	7862	x		377			
60S ribosomal subunit protein L31, putative L.m. chr 35	LmjF35.3280		x					21.2	11.2	0.86106	8229	x					

60S ribosomal subunit protein L31, putative Leishmania major chr 35	LmjF35_3290		x				21.2	11.2	0.86106	8230	x			
RPL32 60S ribosomal protein L32 L.m. chr 21	LmjF21_1720		x				15.4	11.3	0.74951	7504	x			
60S ribosomal protein L32 Leishmania major chr 35	LmjF35_2050		x				15.4	11.3	0.76978	7786	x			
60S ribosomal protein L34, putative L.m. chr 18	LmjF18_1400		x	x			19.3	12.3	0.80697	8040	x		x	
60S ribosomal protein L34, putative Leishmania major chr 36	LmjF36_3740		x	x			19.3	12.3	0.78231	7896	x		x	
60S ribosomal protein L35, putative L.m. chr 26	LmjF26_2330		x	x			15.2	11.3	0.85447	8219	x		x	
60S ribosomal protein L35, putative Leishmania major chr 26	LmjF26_2340		x	x			15.2	11.3	0.85447	8218	x		x	
ribosomal protein L35a, putative L.m. chr 10	LmjF10_0070		x	x			16.4	11.8	0.72931	7088	x		x	
ribosomal protein L35a, putative Leishmania major chr 34	LmjF34_2470		x	x			16.4	11.8	0.73890	7295	x		x	
60S ribosomal protein L36, putative L.m. chr 35	LmjF35_1920		x				11.9	11.3	0.70586	6316	x			
60S ribosomal protein L37a, putative L.m. chr 21	LmjF21_1820		x	x			10.3	11.8	0.75743	7623	x		x	
60S ribosomal protein L37a, putative Leishmania major chr 21	LmjF36_1925		x	x			10.3	11.8	0.73114	7129	x		x	
ribosomal protein L38, putative L.m. chr 3	LmjF03_0250		x	x			9.4	10.4	0.81964	8116	x		x	
ribosomal protein L38, putative Leishmania major chr 26	LmjF26_2220		x	x			9.4	10.4	0.80857	8048	x		x	
60S acidic ribosomal protein p2 Leishmania major chr 15	LmjF15_1203		x	N	x		11.0	4.2	0.75577	7590		353		
60S acidic ribosomal protein p2 L.m. chr 15	LmjF15_1207		x	N			11.0	4.2	0.75577	7589		353		
LIP 60S acidic ribosomal protein P2, putative L.m. chr 30	LmjF30_3720		x		x		10.6	4.3	0.72174	6858		356		
60S acidic ribosomal subunit protein, putative Leishmania major chr 27	LmjF27_1380		x				34.8	5.0	0.81864	8110		127		
60S acidic ribosomal subunit protein, putative L.m. chr 27	LmjF27_1390		x				34.8	5.0	0.81864	8109		127		
ribonucleoprotein p18, mitochondrial precursor, putative L.m. chr 15	LmjF15_0280		x / F	x			21.3	6.7	0.86481	8236		350		SSP_2101
<b>protein degradation</b>														
acetylmethionine deacetylase-like protein L.m. chr 7	LmjF07_0270		x / F			[EC:3.5.1.16]	42.8	5.7	0.75306	7547		196		
aminopeptidase P, putative L.m. chr 35	LmjF35_2350		x / F			[EC:3.4.11.9]	53.6	5.6	0.76581	7741		155		
aminopeptidase, putative L.m. chr 11	LmjF11_0630		x			[EC:3.4.11.-]	57.1	6.0	0.78873	7948		70		
aminopeptidase, putative L.m. chr 19	LmjF19_0160		x			[EC:3.4.11.-]	42.5	5.8	0.74017	7327		x		
aminopeptidase, putative L.m. chr 29	LmjF29_2240		x / F			[EC:3.4.11.-]	96.3	5.8	0.72221	6875		x		
aspartyl aminopeptidase, putative, metallo-peptidase, Clan MH, Family M20	LmjF29_2360			M		[EC:3.4.11.-]	49.7	6.1	0.53416	160				
ATP-dependent zinc metallopeptidase, putative L.m. chr 18	LmjF18_0610		x				64.9	6.0	0.69516	5850		162		
carboxypeptidase, putative L.m. chr 13	LmjF13_0090		x	x / M		[EC:3.4.17.19]	57.0	5.7	0.74278	7371		x		45
carboxypeptidase, putative L.m. chr 33	LmjF33_2540		x / M			[EC:3.4.17.19]	57.0	5.6	0.74861	7491		173		
serine carboxypeptidase (CBP1), putative, serine peptidase, Clan SC, Family S10; LinJ18_0450	LmjF18_0450		F			[EC:3.4.16.5 / 3]	51.8	5.3	0.72407	6953				
dipeptidyl-peptidase III, putative L.m. chr 5	LmjF05_0960		x			[EC:3.4.15.5]	75.9	5.3	0.79790	7992		x		
hs1vu complex proteolytic subunit-like L.m. chr 36	LmjF36_3990		x	x		[EC:3.4.25.-]	23.3	5.7	0.66553	4297		316		233
methionine aminopeptidase 2, putative L.m. chr 21	LmjF21_0840		x			[EC:3.4.11.18]	51.2	6.5	0.75319	7551		252		
methionine aminopeptidase, putative L.m. chr 19	LmjF19_0550		x			[EC:3.4.11.18]	44.8	6.0	0.70713	6358		178		
oligopeptidase b L.m. chr 9	LmjF09_0770		x / F			[EC:3.4.21.83]	82.9	5.6	0.78472	7911		25		
peptidase, putative L.m. chr 31	LmjF31_3090		x				123.6	5.2	0.69727	5945		x		
peptidase m20/m25/m40 family-like protein	LmjF31_1890		A				62.0	5.9	0.77619	7854				
peptidase M20/M25/M40, putative	LmjF33_1610			M			51.6	5.5	0.73352	7192				
peptidyl-dipeptidase, putative L.m. chr 2	LmjF02_0740		x			[EC:3.4.15.5]	76.5	5.8	0.74448	7410		x		
prolyl oligopeptidase, putative L.m. chr 36	LmjF36_6750		x			[EC:3.4.21.83]	78.2	5.6	0.71472	6643		31		
mitochondrial processing peptidase alpha subunit, putative L.m. chr 13	LmjF13_0870		x / B / F	x		[EC:3.4.99.41 /	57.7	7.7	0.75355	7560		255		125
metallo-peptidase, Clan ME, Family M16 [Leishmania infantum JPCM5]		gil146080890		x			57.8	8.1						69
mitochondrial processing peptidase alpha subunit, putative L.m. chr 21	LmjF21_0340		x / B	x			51.4	7.3	0.78580	7923		259		129, 130, 131
mitochondrial processing peptidase alpha subunit, putative L.m. chr 33	LmjF33_2610		x / B				53.1	6.5	0.72368	6942		247		
mitochondrial processing peptidase, beta subunit, putative L.m. chr 35	LmjF35_1380		x	x		[EC:3.4.24.64]	54.5	6.4	0.77932	7869		x	246	127, 128
mitochondrial processing peptidase beta subunit, putative L.m. chr 1	LmjF01_0650		x			[EC:3.4.24.64]	55.1	6.1	0.79995	8007		169		
ubiquitin-conjugating enzyme protein, putative L.m. chr 32	LmjF32_0960		x			[EC:6.3.2.19]	29.9	4.6	0.69827	5987		123		
ubiquitin-conjugating enzyme-like protein L.m. chr 13	LmjF13_1580		x / D	x		[EC:6.3.2.19]	16.1	5.9	0.68663	5424		362		SSP_5104
ubiquitin-conjugating enzyme E2, putative L.m. chr 35	LmjF35_1300		F	x / N		[EC:6.3.2.19]	16.6	6.1	0.69363	5779				SSP_4106
ubiquitin-conjugating enzyme E2, putative; ubiquitin-protein ligase, putative; ubiquitin carrier protein, putative	LmjF07_0850		F			[EC:6.3.2.19 / 6]	19.9	5.1	0.66597	4318				
ubiquitin-fusion protein L.m. chr 31	LmjF31_1900			x			14.7	9.9	0.91927	8290				289
ubiquitin-fusion protein Leishmania major chr 31	LmjF31_2030			x	x		14.7	9.9	0.91927	8291				289
proteasome activator protein pa26, putative L.m. chr 35	LmjF35_0750		x / M	x / M			24.1	5.2	0.68674	5435		328		SSP_4102
proteasome alpha 1 subunit, putative L.m. chr 35	LmjF35_4850		x			[EC:3.4.25.1]	27.2	6.8	0.75521	7581		234		
proteasome alpha 1 subunit, putative L.m. chr 36	LmjF36_1700		x	x		[EC:3.4.25.1]	29.6	5.2	0.70579	6315		145		230
proteasome alpha 2 subunit, putative L.m. chr 21	LmjF21_1700		x / D	x / N	x	[EC:3.4.25.1]	25.1	5.7	0.60191	1028		318		SSP_4107
proteasome alpha 3 subunit, putative L.m. chr 14	LmjF14_0310		x / A			[EC:3.4.25.1]	32.1	5.3	0.73164	7140		146		
proteasome alpha 5 subunit, putative L.m. chr 21	LmjF21_1830		x / A	x / N		[EC:3.4.25.1]	26.8	5.4	0.70826	6396		148		232
proteasome alpha 7 subunit, putative L.m. chr 27	LmjF27_0190		x	B		[EC:3.4.25.1]	25.6	5.9	0.69035	5630		225		
proteasome beta 6 subunit, putative L.m. chr 6	LmjF06_0140		x			[EC:3.4.25.1]	27.9	6.5	0.78016	7881		288		
RPT6 proteasome regulatory ATPase subunit L.m. chr 36	LmjF36_4360			x / B			45.6	9.1	0.70877	6414				151



proteasome regulatory ATPase subunit 1, putative	LmjF22.0570		F					49.0	6.0	0.74712	7457						
proteasome regulatory ATPase subunit 5, putative Leishmania major chr 22	LmjF22.0620		x	x				49.5	5.7	0.74550	7430	182					56
proteasome regulatory non-ATP-ase subunit 3, putative L.m. chr 27	LmjF27.1460		x					37.9	6.6	0.69932	6035	x					
proteasome regulatory non-ATP-ase subunit 5, putative L.m. chr 21	LmjF21.0760		x				[EC:3.4.25.1]	54.2	5.9	0.70126	6115	x					
proteasome regulatory non-ATP-ase subunit, putative L.m. chr 19	LmjF19.1120		x					46.5	6.3	0.74817	7482	x					
proteasome regulatory non-ATP-ase subunit, putative cyclin 1, putative L.m. chr 9	LmjF32.2820				M			46.4	5.1	0.74772	7472						
	LmjF09.0600		x					35.7	5.9	0.67024	4586		214				
<b>amino acid metabolism</b>																	
2-oxoisovalerate dehydrogenase beta subunit, mitochondrial precursor, putative L.m. ch	LmjF35.0050		x				[EC:1.2.4.4]	39.9	6.3	0.64611	3140		210				
2-oxoisovalerate dehydrogenase alpha subunit, putative L.m. chr 21	LmjF21.1430		x				[EC:1.2.4.4]	53.3	5.8	0.70429	6256		154				
3-methylcrotonoyl-CoA carboxylase beta subunit, putative L.m. chr 11	LmjF11.0590		x				[EC:6.4.1.4]	58.3	8.6	0.73004	7102		82				
adenylosuccinate lyase, putative L.m. chr 4	LmjF04.0460		x					53.7	6.0	0.75646	7605	x					
alanine aminotransferase, putative L.m. chr 12	LmjF12.0630		x		B		[EC:2.6.1.21]	55.0	5.6	0.70009	6059		170				
aminoacylase, putative L.m. chr 20	LmjF20.1550		x / F				[EC:3.5.1.14]	43.5	5.6	0.68176	5206		196				
aminoacylase, putative Leishmania major chr 20	LmjF20.1560		x				[EC:3.5.1.14 / 3]	42.8	5.4	0.71248	6566		111				
aminoacylase, putative L.m. chr 20	LmjF20.1570		x				[EC:3.5.1.14]	45.1	5.3	0.72087	6831		111				
CYSB cystathionine beta-synthase L.m. chr 17	LmjF17.0250		x				[EC:4.2.1.22]	39.2	5.9	0.72964	7097		189				
cystathionine gamma lyase, putative L.m. chr 35	LmjF35.3230		x / F				[EC:2.5.1.48]	44.5	6.5	0.76112	7688		273				
cysteine synthase, putative L.m. chr 36	LmjF36.3590		x	x			[EC:2.5.1.47]	35.4	6.6	0.66696	4375		220				96
delta-1-pyrroline-5-carboxylate dehydrogenase, putative L.m. chr 3	LmjF03.0200		x	x			[EC:1.5.1.12 / 1]	61.9	8.3	0.77960	7872	x	253				121
d-isomer specific 2-hydroxyacid dehydrogenase-like protein L.m. chr 34	LmjF34.1410		x	M				36.9	5.3	0.68785	5495	x					
glutamate dehydrogenase L.m. chr 15	LmjF15.1010		x	x			[EC:1.4.1.3]	115.0	7.6	0.78227	7895	x					x
glutamate dehydrogenase, putative L.m. chr 28	LmjF28.2910		x	x			[EC:1.4.1.4]	49.1	6.3	0.76117	7689		187				86
glutamine synthetase, putative L.m. chr 6	LmjF06.0370		x	x			[EC:6.3.1.2]	60.1	6.6	0.56684	346		200				83
propionyl-coa carboxylase beta chain, putative L.m. chr 28	LmjF28.0490			x			[EC:6.4.1.3]	56.7	8.8	0.74422	7400						107
isovaleryl-coA dehydrogenase, putative L.m. chr 27	LmjF27.0930		x				[EC:1.3.99.10]	44.7	8.2	0.71768	6737	x	278				
proline oxidase, mitochondrial precursor-like protein L.m. chr 26	LmjF26.1610		x				[EC:1.5.1.12 / 1]	63.8	9.2	0.74320	7378	x					
putative phenylalanine-4-hydroxylase, putative L.m. chr 28	LmjF28.1280		x				[EC:1.14.16.1]	51.4	6.1	0.72468	6968		177				
S-adenosylhomocysteine hydrolase L.m. chr 36	LmjF36.3910		x / B / F / M	x / B			[EC:3.3.1.1]	47.8	5.7	0.77718	7858	x	157				SSP_4617
serine hydroxymethyltransferase, putative L.m. chr 14	LmjF14.1320		x				[EC:2.1.2.1]	50.6	6.4	0.73275	7175		245				
succinyl-coA:3-ketoacid-coenzyme A transferase, mitochondrial precursor, putative L.m.	LmjF33.2340		x	x			[EC:2.8.3.5]	52.5	7.9	0.70692	6351		244, 247, 249				128
pyrroline-5-carboxylate reductase	LmjF13.1680				M		[EC:1.5.1.2]	28.7	6.8	0.56645	341						
aspartate aminotransferase, putative	LmjF24.0370		D				[EC:2.6.1.1]	47.7	8.3	0.68721	5455						
aspartate aminotransferase, putative	LmjF35.0820		D				[EC:2.6.1.1]	46.0	6.6	0.72159	6850						
2-nitropropane dioxygenase, putative; LinJ34.0630	LmjF34.0610		F				[EC:2.6.1.1]	33.9	8.8	0.67353	4772						
<b>cytoskeleton</b>																	
alpha tubulin L.m. chr 13	LmjF13.0280		x / B / A / D / F	x / B / F / N		x		49.7	4.9	0.81825	8105	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0290		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8102	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0300		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8100	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0310		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8104	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0320		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8099	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0330		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8101	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0340		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8107	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0350		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8106	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0360		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8098	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0370		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8108	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0380		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8097	x	91, 94, 95, 143				22, 23, 24, 228, 315
alpha tubulin Leishmania major chr 13	LmjF13.0390		x / B / A / D	x / B / N		x		49.7	4.9	0.81825	8103	x	91, 94, 95, 143				22, 23, 24, 228, 315
beta tubulin L.m. chr 8	LmjF08.1230		x / B / D / F	x / B / N				49.7	4.7	0.84124	8192	x	90, 119, 133, 135				78, 314, SSP_1305
beta tubulin Leishmania major chr 21	LmjF21.1860		x / B / D	x / B / N				49.8	4.7	0.84914	8207	x	90, 119, 135				20, 75, 221, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0792		x	x				49.7	4.7	0.83841	8177	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0794		x	x				49.7	4.7	0.84113	8187	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0796		x	x				49.7	4.7	0.83841	8175	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0798		x	x				49.7	4.7	0.84113	8185	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0800		x	x				49.7	4.7	0.83841	8173	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0802		x	x				49.7	4.7	0.83841	8174	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0804		x	x				49.7	4.7	0.84113	8189	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0806		x	x				49.7	4.7	0.83841	8178	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0808		x	x				49.7	4.7	0.84113	8190	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0810		x	x				49.7	4.7	0.83841	8171	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0812		x	x				49.7	4.7	0.83841	8172	x	90, 94, 119, 133, 135				78, SSP_1305
beta-tubulin Leishmania major chr 33	LmjF33.0814		x	x				49.7	4.7	0.83841	8170	x	90, 94, 119, 133, 135				78, SSP_1305

beta-tubulin Leishmania major chr 33	LmjF33.0816		x				49.7	4.7	0.84113	8186	x	90, 94, 119, 133, 135	78, SSP 1305
beta-tubulin Leishmania major chr 33	LmjF33.0818		x	x			49.7	4.7	0.83641	8176	x	90, 94, 119, 133, 135	78, SSP 1305
beta-tubulin Leishmania major chr 33	LmjF33.0819		x	x			49.7	4.7	0.84113	8191	x	90, 94, 119, 133, 135	78, SSP 1305
beta-tubulin Leishmania major chr 33	LmjF33.0820		x / B / D	x / B / N			49.7	4.7	0.84113	8188	x	90, 94, 119, 133, 135	78, SSP 1305
cytoskeleton-associated protein CAP5.5, putative, cysteine peptidase, Clan CA, family C2, putative	LmjF31.0440			M			80.0	5.2	0.71438	6629			
parafagellar rod component, putative L.m. chr 9	LmjF09.1320		x				68.2	5.2	0.72863	7073		19	
parafagellar rod protein 2C L.m. chr 16	LmjF16.1425		x		N	x	68.7	5.4	0.87909	8250	x		
parafagellar rod protein 2C Leishmania major chr 16	LmjF16.1430		x		N	x	68.7	5.4	0.88191	8252	x		
parafagellar rod protein 1D, putative L.m. chr 29	LmjF29.1750		x / F				68.9	5.3	0.85455	8220	x	101	
parafagellar rod protein 1D, putative Leishmania major chr 29	LmjF29.1760		x				68.9	5.3	0.85494	8221	x	101	
parafagellar rod protein 1D, putative Leishmania major chr 29	LmjF29.1770		x				68.9	5.3	0.85390	8215	x	101	
<b>chaperones stress induced proteins</b>													
CYP cyclophilin L.m. chr 6	LmjF06.0120		x			[EC:5.2.1.8]	20.3	6.5	0.74757	7468		365	
cyclophilin, putative L.m. chr 23	LmjF23.0050		x			[EC:5.2.1.8]	31.5	10.0	0.62543	1976	x		
CYPA cyclophilin a L.m. chr 25	LmjF25.0910		x / D			[EC: 5.2.1.8]	18.8	7.7	0.75951	7661	x	368	
cyclophilin, putative L.m. chr 33	LmjF33.1630				x / N	[EC:5.2.1.8 / 5.2.1.8]	24.1	9.2	0.62036	1724			268
stress-induced protein sti1 L.m. chr 8	LmjF08.1110		x	x	x		62.1	5.9	0.72687	7028		73	39
stress-inducible protein STII homolog L.m. chr 36	LmjF36.0070		x / D	x	x		29.0	8.1	0.69592	5887	x	290	263
chaperonin alpha subunit, putative L.m. chr 32	LmjF32.3270		x	x			59.1	5.8	0.76637	7748	x		SSP_4616, SSP_4617
chaperonin TCP20, putative L.m. chr 13	LmjF13.1660		x / F	x / F			58.9	6.5	0.62696	2051		237	119
chaperonin, putative L.m. chr 36	LmjF36.6910		x	x / M			58.1	5.2	0.68831	5527		53	SSP_2707
chaperonin containing t-complex protein, putative L.m. chr 32	LmjF32.1000		x / M	M			59.2	5.1	0.75424	7568		10	
t-complex protein 1, delta subunit, putative L.m. chr 21	LmjF21.1090		x				59.7	6.7	0.81187	8070	x		
t-complex protein 1, gamma subunit, putative L.m. chr 23	LmjF23.1220		x / F	F			60.3	5.9	0.73593	7248		158, 159	
T-complex protein 1, beta subunit, putative L.m. chr 27	LmjF27.1260		x / F	x			57.8	5.9	0.65266	3534			168
prefoldin 5-like protein L.m. chr 22	LmjF22.0670		x				17.8	5.5	0.68372	5283		360	
prefoldin-like protein L.m. chr 26	LmjF26.1380		x		N		22.2	6.2	0.75857	7647		340	
calreticulin, putative	LmjF31.2600			M / N			45.1	4.6	0.75953	7662			
heat shock protein, putative L.m. chr 18	LmjF18.1370		x	x / M			91.7	5.2	0.77001	7788		20	3
glucose-regulated protein 78, putative L.m. chr 28	LmjF28.1200		x	x	x		71.9	5.1	0.75456	7573		8, 9	9, 10
heat shock protein-like protein, putative L.m. chr 32	LmjF32.1940		x				35.6	5.0	0.71197	6545		137	
DNAJ domain protein, putative L.m. chr 24	LmjF24.0520			x			88.9	6.2	0.72441	6962			x
heat shock protein DnaJ, putative L.m. chr 27	LmjF27.2400		x	x			43.6	7.0	0.77266	7817		263, 264	140
CPN10 10 kDa heat shock protein, putative L.m. chr 26	LmjF26.0620		x	x			10.7	9.0	0.79792	7993		388	288, SSP_7001
CPN10 10 kDa heat shock protein, putative Leishmania major chr 26	LmjF26.0640		x	x			10.6	9.0	0.79094	7958		388	288, SSP_7001
chaperonin Hsp60, mitochondrial precursor, putative L.m. chr 32	LmjF32.1850		x / G		x		64.3	6.2	0.71787	6744		74	
chaperonin Hsp60, mitochondrial precursor L.m. chr 36	LmjF36.2020		x / F / G	x / B / F / M / N	x		60.1	5.4	0.75602	7596		47, 48	27, SSP_2607, SSP_2707
chaperonin Hsp60, mitochondrial precursor L.m. chr 36	LmjF36.2030		x / F / G / M	x / B / F / M / N	x		59.3	5.3	0.77696	7856		45, 46	22, 2, 26, 29, SSP_2707
HSP70.4 heat shock protein 70-related protein L.m. chr 26	LmjF26.1240		x / G / M	x / B	x		70.5	5.0	0.78203	7893		11, 12	16
HSP70 heat-shock protein hsp70, putative L.m. chr 28	LmjF28.2770		x / A / F / G	x / B / N / M	x		71.6	5.3	0.89236	8265	x	16, 17, 18	84, 313, SSP_2207, SSP_2708
HSP70 heat-shock protein hsp70, putative Leishmania major chr 28	LmjF28.2780		x / A / G	x / B / N / M	x		71.6	5.3	0.89236	8266	x	16, 17, 18	84, SSP_2207, SSP_2708
heat shock protein 20, putative L.m. chr 29	LmjF29.2450		x / F				17.5	6.4	0.69112	5673		364	
heat shock 70-related protein 1, mitochondrial precursor, putative Leishmania major chr 30	LmjF30.2460		x / A / D / F / G	B	x		68.9	5.8	0.84081	8182		44	
heat shock 70-related protein 1, mitochondrial precursor, putative Leishmania major chr 30	LmjF30.2470		x / A / D / F / G	x / B / F	x		71.8	5.7	0.87029	8243		41, 42, 43, 44	11, 12, 15, SSP_3714
heat shock 70-related protein 1, mitochondrial precursor, putative Leishmania major chr 30	LmjF30.2480		x / A / D / G	x / B	x		71.8	5.7	0.87029	8244		41, 42, 43, 44	11, 12, 15, SSP_3714
heat shock 70-related protein 1, mitochondrial precursor, putative Leishmania major chr 30	LmjF30.2490		x / A / D / G	x / B / M	x		71.6	5.7	0.86778	8240		41, 42, 43, 44	11, 12, 15, SSP_3714
heat shock 70-related protein 1, mitochondrial precursor, putative L.m. chr 30	LmjF30.2550		x / A / D / G	x / B	x		70.6	5.7	0.86579	8239		41, 42, 43, 44	11, 12, 15, SSP_3714
heat shock protein, putative L.m. chr 33	LmjF33.2390			x			72.0	6.8	0.81430	8076			SSP_4808
HSP83 heat shock protein 83-1 L.m. chr 33	LmjF33.0312		x / F	x / B / F / M / N	x		80.5	5.1	0.91584	8277	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0314		x	x / B / M / N	x		80.5	5.1	0.91772	8286	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0316		x	x / B / M / N	x		80.5	5.1	0.91584	8282	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0318		x	x / B / M / N	x		80.5	5.1	0.91573	8273	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0320		x	x / B / M / N	x		80.5	5.1	0.91584	8278	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0323		x	x / B / M / N	x		80.5	5.1	0.91772	8288	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0326		x	x / B / M / N	x		80.5	5.1	0.91584	8283	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0330		x	x / B / M / N	x		80.5	5.1	0.91573	8274	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0333		x	x / B / M	x		80.5	5.1	0.91584	8275	x		x 17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33.0336		x	x / B / M / N	x		80.5	5.1	0.91772	8285	x		x 17, 311

HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0340		x		x / B / M / N	x		80.5	5.1	0.91584	8279	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0343		x		x / B / M / N	x		80.5	5.1	0.91584	8281	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0346		x		x / B / M / N	x		80.5	5.1	0.91584	8280	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0350		x		x / B / M / N	x		80.5	5.1	0.91772	8289	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0355		x		x / B	x		80.5	5.1	0.91584	8276	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0360		x		x / B / M / N	x		80.5	5.1	0.91584	8284	x			x	17, 311
HSP83 heat shock protein 83-1 Leishmania major chr 33	LmjF33_0365		x		x / B / M / N	x		80.5	5.1	0.91772	8287	x			x	17, 311
peptidyl-prolyl cis-trans isomerase (cyclophilin-40), putative L.m. chr 35	LmjF35_4770		x		x / B		[EC:5.2.1.8]	38.4	5.6	0.72440	6961		185			82
<b>purine and pyrimidine metabolism</b>																
5'-3' exonuclease, putative L.m. chr 6	LmjF06_0260		x				[EC:3.1.11.-]	166.2	6.8	0.76132	7691	x				
adenosine kinase, putative L.m. chr 30	LmjF30_0880		x				[EC:2.7.1.20]	37.1	5.1	0.74817	7483		125			
adenylate kinase, putative L.m. chr 21	LmjF21_1250		x				[EC:2.7.4.3]	30.0	5.7	0.71744	6727		131			
adenylate kinase, putative L.m. chr 34	LmjF34_0110		x				[EC:2.7.4.3]	24.4	6.8	0.67565	4876		289			
adenylate kinase, putative Leishmania major chr 4	LmjF04_0960		x				[EC:2.7.4.3]	23.4	5.9	0.76259	7706		329			
thymidine kinase, putative	LmjF21_1210				B		[EC:2.7.1.21]	31.6	8.2	0.73036	7111					
APRTASE adenine phosphoribosyltransferase L.m. chr 26	LmjF26_0140		x		N		[EC:2.4.2.7]	26.2	7.0	0.63724	2632	x				
aspartate carbamoyltransferase, putative L.m. chr 16	LmjF16_0540		x				[EC:2.1.3.2]	35.3	6.2	0.76886	7770	x				
nucleoside diphosphate kinase b L.m. chr 32	LmjF32_2950		x / F		x / B / N	x	[EC:2.7.4.6]	16.6	7.7	0.78273	7899	x	367			295
orotidine-5-phosphate decarboxylase/orotate phosphoribosyltransferase, putative L.m. c	LmjF16_0550		x				[EC:4.1.1.23]	49.5	9.1	0.75865	7650	x				
inosine-adenosine-guanosine-nucleoside hydrolase, putative	LmjF29_2800				M		[EC:3.2.2.1]	36.5	4.7	0.67632	4913					
<b>hypothetical proteins</b>																
hypothetical protein, conserved L.m. chr 2	LmjF02_0450		x					29.9	8.8	0.75666	7609	x				
hypothetical protein, conserved L.m. chr 3	LmjF03_0690		x					246.8	6.0	0.80895	8051	x				
hypothetical protein, conserved L.m. chr 4	LmjF04_0240		x					32.1	7.1	0.69045	5634		284			
hypothetical protein, conserved L.m. chr 6	LmjF06_1100		x					32.6	10.1	0.70669	6342	x				
hypothetical protein, conserved L.m. chr 7	LmjF07_0310		x					89.4	5.4	0.70754	6374		22			
hypothetical protein, conserved L.m. chr 7	LmjF07_0640		x		M			37.9	5.4	0.78399	7907		113, 114			
hypothetical protein, conserved L.m. chr 8	LmjF08_1100		x		x			42.0	8.2	0.70887	6418	x	277			89, 95
hypothetical protein, conserved L.m. chr 8	LmjF08_1260		x		x			11.5	7.9	0.77962	7874		390			306, SSP 8008
hypothetical protein, conserved L.m. chr 9	LmjF09_0100		M					65.6	5.3	0.70347	6223					10
hypothetical protein, conserved L.m. chr 10	LmjF10_1110		x					56.2	6.3	0.73277	7176		67			
hypothetical protein, conserved L.m. chr 10	LmjF10_1250		x					36.2	5.4	0.64537	3094		150			
hypothetical protein, conserved L.m. chr 11	LmjF11_0820		x					37.5	5.6	0.77429	7832		35, 65, 66			
hypothetical protein, unknown function L.m. chr 13	LmjF13_0200				x			82.2	8.0	0.65674	3727				x	
hypothetical protein, conserved L.m. chr 13	LmjF13_0450		x / F		x / F / N			13.3	5.3	0.68525	607		358			280
hypothetical protein, conserved L.m. chr 13	LmjF13_1360		x					90.9	7.6	0.71819	6749	x				
hypothetical protein, conserved L.m. chr 14	LmjF14_0190		x / F		F			22.3	4.6	0.76438	7721		310			
hypothetical protein, conserved L.m. chr 14	LmjF14_0450		x / D		x			36.9	5.0	0.75313	7549		126			65
hypothetical protein, conserved L.m. chr 14	LmjF14_0970		x / F					31.6	5.6	0.70740	6370		205			
hypothetical protein, conserved L.m. chr 15	LmjF15_0690		x					53.5	6.2	0.66432	4224		236			
hypothetical protein, conserved L.m. chr 17	LmjF17_0010		x		x			87.6	8.7	0.73388	7200	x			x	
hypothetical protein, conserved L.m. chr 17	LmjF17_0640		x					60.2	5.0	0.71480	6646		15			
hypothetical protein, conserved L.m. chr 17	LmjF17_0870		x					48.4	5.0	0.64817	3270		96			
hypothetical protein, unknown function L.m. chr 18	LmjF18_0820		x					289.8	6.4	0.76512	7730	x				
hypothetical protein, conserved L.m. chr 18	LmjF18_1260				x			34.6	10.4	0.71671	6698				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1265				x			34.2	10.4	0.72164	6854				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1270				x			34.2	10.4	0.72164	6853				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1275				x			34.2	10.4	0.71881	6774				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1280				x			34.2	10.4	0.72179	6861				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1285				x			34.2	10.4	0.72164	6852				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1290				x			34.2	10.4	0.71881	6775				x	
hypothetical protein, conserved Leishmania major chr 18	LmjF18_1300				x			33.2	10.4	0.71382	6607				x	
hypothetical protein, unknown function L.m. chr 18	LmjF18_1640		x					13.3	5.9	0.68083	5150		381			
hypothetical protein, conserved L.m. chr 19	LmjF19_0190				x / A			18.4	10.8	0.71047	6481	x				
hypothetical protein, conserved Leishmania major chr 19	LmjF19_1130		F		F			609.6	7.3	0.65485	3673					
hypothetical protein, conserved L.m. chr 19	LmjF19_1400		x					26.0	6.4	0.78496	7915		334			
hypothetical protein, conserved L.m. chr 19	LmjF19_1550		x					43.4	6.9	0.68239	5237		268			
hypothetical protein, conserved L.m. chr 21	LmjF21_0380		x					24.7	9.0	0.78808	7943	x				
hypothetical protein, conserved L.m. chr 21	LmjF21_0430		x					44.7	9.4	0.73413	7204	x				
hypothetical protein, conserved L.m. chr 21	LmjF21_0800		x					248.7	7.0	0.75767	7629	x				
hypothetical protein, conserved L.m. chr 22	LmjF22_0300		x					60.6	8.4	0.71323	6591	x				
hypothetical protein, conserved L.m. chr 22	LmjF22_0470		x					44.8	5.9	0.70357	6227		186			
hypothetical protein, conserved L.m. chr 22	LmjF22_0730		x / M		x			49.8	5.5	0.73788	7279		12, 13, 14			50, 51
hypothetical protein, conserved L.m. chr 23	LmjF23_0080		x					48.2	5.3	0.62823	2122		54, 55			



hypothetical protein, conserved L.m. chr 35	LmjF35_4270		x					19.3	9.5	0.67334	4760	x				
hypothetical protein, conserved L.m. chr 35	LmjF35_4710		x					78.8	5.6	0.56544	332		24			
hypothetical protein, conserved L.m. chr 35	LmjF35_4940		x					23.9	9.8	0.73057	7113	x				
hypothetical protein, conserved L.m. chr 36	LmjF36_0480		x	x				26.1	4.9	0.74672	7450		312		184	
hypothetical protein, conserved L.m. chr 36	LmjF36_0560		x					35.0	6.5	0.57987	500		230			
hypothetical protein, conserved L.m. chr 36	LmjF36_1160			x				41.5	8.5	0.69089	5663				SSP_6414	
hypothetical protein, conserved L.m. chr 36	LmjF36_1860				x			47.5	10.5	0.69716	5940			x		
hypothetical protein, unknown function L.m. chr 36	LmjF36_3620		x					11.8	4.5	0.75519	7580		380			
hypothetical protein, conserved L.m. chr 36	LmjF36_3780				x			36.0	6.0	0.78601	7924				SSP_5302	
hypothetical protein, conserved L.m. chr 36	LmjF36_4460		x					17.4	7.7	0.73844	7285		366			
hypothetical protein, conserved L.m. chr 36	LmjF36_5100		x					105.2	7.2	0.69083	5658	x				
hypothetical protein, conserved L.m. chr 36	LmjF36_5850		x					59.0	9.9	0.70027	6065	x				
hypothetical protein, conserved L.m. chr 36	LmjF36_5910		x					41.2	5.3	0.68219	5232		112			
hypothetical protein, conserved L.m. chr 36	LmjF36_5930		x					33.8	5.7	0.63602	2567		222			
hypothetical protein, conserved L.m. chr 36	LmjF36_6180		x					29.9	6.1	0.68705	5451		228			
hypothetical protein, conserved L.m. chr 36	LmjF36_6760		x / D	x				29.0	5.5	0.75267	7542		314		234	
hypothetical protein, conserved L.m. chr 2	LmjF02_0460		F	x				32.0	8.8	0.74762	7469			x		
hypothetical protein, unknown function	LmjF02_0550		D					17.6	5.3	0.70170	6136					
hypothetical protein, conserved	LmjF03_0150		B					35.4	9.8	0.77500	7843					
hypothetical protein, conserved	LmjF05_0260		B		B			42.9	4.6	0.66541	4290					
hypothetical protein, conserved	LmjF05_0450		D		M			22.4	4.8	0.67931	5057					
hypothetical protein, conserved; LinJ08_0920	LmjF08_0960		F					63.0	4.8	0.70945	6440					
hypothetical protein, conserved; LinJ08_1020	LmjF08_1120		F					96.9	6.3	0.69883	6010					
hypothetical protein, unknown function	LmjF08_1270		F / M		F / M			31.8	5.0	0.75602	7595					
hypothetical protein, conserved	LmjF09_0840				M			42.5	5.7	0.76408	7716					
hypothetical protein, conserved	LmjF09_1010		F					67.2	5.3	0.69918	6028					
hypothetical protein, conserved	LmjF11_0140		F		F			33.0	5.5	0.66850	4476					
hypothetical protein, conserved	LmjF11_0180		F					21.6	5.9	0.71087	6497					
hypothetical protein, conserved	LmjF12_0640				B			61.1	9.3	0.69670	5928					
hypothetical protein, conserved	LmjF13_0520				B			31.8	7.1	0.74016	7326					
hypothetical protein, conserved	LmjF13_0710				B			45.1	8.6	0.74920	7503					
hypothetical protein, conserved	LmjF13_0990				B			54.5	10.1	0.68655	5421					
hypothetical protein, conserved	LmjF13_1300				B			23.4	10.0	0.68548	5368					
hypothetical protein, conserved; LinJ13_1370	LmjF13_1440		F					135.8	8.2	0.64104	2863					
hypothetical protein, conserved	LmjF13_1470				B			593.2	6.5	0.68464	5328					
hypothetical protein, conserved	LmjF14_0240		B					15.3	6.1	0.71822	6751					
hypothetical protein, conserved	LmjF14_1040				B			20.0	7.7	0.62020	1712					
hypothetical protein, conserved; LinJ14_1540	LmjF14_1440		F					104.0	4.4	0.71566	6668					
hypothetical protein, conserved	LmjF15_0680		A					24.2	9.0	0.71286	6576					
hypothetical protein, conserved	LmjF17_0120		F					36.2	5.8	0.72123	6843					
hypothetical protein, conserved	LmjF19_1430				B			39.8	6.0	0.49663	51					
hypothetical protein, conserved; LinJ21_1270	LmjF21_1555		F					46.4	6.1	0.80445	8028					
hypothetical protein, conserved	LmjF22_1200				M			35.8	6.2	0.71564	6667					
hypothetical protein, conserved; LinJ24_1630	LmjF24_2240		F					40.8	8.9	0.57785	473					
hypothetical protein, conserved; LinJ25_0610	LmjF25_0600		F					44.6	5.9	0.64460	3052					
hypothetical protein, conserved	LmjF25_1010		F					48.1	5.4	0.73973	7312					
hypothetical protein, conserved; LinJ25_1270	LmjF25_1230		F					171.5	9.4							
hypothetical protein, conserved; LinJ25_1530	LmjF25_1460		F					88.4	6.3	0.57631	442					
hypothetical protein, conserved	LmjF26_0500		F					45.3	5.5	0.64748	3226					
hypothetical protein, conserved; LinJ27_0680	LmjF27_1090		F					21.9	9.5	0.66012	3982					
hypothetical protein, conserved WD-repeat protein	LmjF27_2480		F					53.1	5.7	0.70210	6155					
hypothetical protein, conserved	LmjF28_0060		F					51.7	5.8	0.63168	2307					
hypothetical protein, conserved	LmjF28_1660				B			81.2	8.0	0.63720	2629					
hypothetical protein, conserved	LmjF28_1840		F / M					27.2	5.9	0.71534	6661					
hypothetical protein, conserved	LmjF29_1100		F					40.1	8.6	0.71145	6528					
hypothetical protein, unknown function	LmjF30_2330		F		F / M			37.2	5.5	0.73169	7144					
hypothetical protein, conserved; LinJ30_4100	LmjF30_3610		F					43.5	5.0	0.61474	1499					
hypothetical protein, unknown function; LinJ31_1400	LmjF31_1050		F					38.9	9.7	0.61565	1531					
hypothetical protein, unknown function	LmjF31_2770		F					34.5	7.8	0.75750	7625					
hypothetical protein, conserved	LmjF32_0630		F					20.8	5.4	0.67315	4747					
hypothetical protein, conserved	LmjF32_2900				B			70.2	5.1	0.70562	6307					
hypothetical protein, conserved, leucine rich repeat protein, putative; LinJ32_3560	LmjF32_3010		F					96.5	5.1	0.73214	7155					
hypothetical protein, conserved; LinJ33_1550	LmjF33_1450		F					23.0	9.3	0.74081	7340					
hypothetical protein, conserved	LmjF34_0240		F					149.1	5.6	0.62936	2190					
hypothetical protein, conserved	LmjF34_2570		F					55.9	5.5	0.71328	6594					

hypothetical protein, conserved	LmjF34.3560		M	M				36.8	6.2	0.61034	1299								
hypothetical protein, conserved	LmjF34.4120			M				29.4	5.1	0.62866	2150								
hypothetical protein, conserved; LinJ35.0970	LmjF35.0870		F					102.8	6.6	0.50816	76								
hypothetical protein, conserved	LmjF36.0440		F					52.6	6.0	0.66333	4160								
hypothetical protein, conserved	LmjF36.0590		F					23.9	6.4	0.63307	2404								
hypothetical protein, conserved; LinJ36.3570	LmjF36.2880		F					185.2	5.9	0.66747	4412								
hypothetical protein, conserved	LmjF36.5650		F					37.2	5.1	0.65290	3547								
hypothetical protein, conserved	LmjF36.6010		A					73.4	6.2	0.60046	985								
hypothetical protein, conserved; LinJ20.0990	LmjF20.0970			F				39.2	5.4	0.72891	7074								
hypothetical protein, conserved; LinJ36.1940	LmjF36.0690			F				28.5	9.0	0.61532	1522								
<b>histones</b>																			
histone H2A, putative L.m. chr 17	LmjF17.0280			x		x		18.7	11.2	0.66998	4568							x	
histone h2a L.m. chr 21	LmjF21.0915		x			x		13.8	11.3	0.79717	7984	x							
histone H2A, putative Leishmania major chr 21	LmjF21.0920		x			x		13.8	11.3	0.79717	7986	x							
histone H2A, putative Leishmania major chr 21	LmjF21.0930		x			x		13.8	11.3	0.79717	7985	x							
histone H2A, putative L.m. chr 29	LmjF29.1720		x			x		13.8	11.1	0.80904	8053	x							
histone H2A, putative Leishmania major chr 29	LmjF29.1740		x			x		13.8	11.1	0.81152	8069	x							
H2B histone H2B L.m. chr 9	LmjF09.1340		x / F		x	x		12.2	11.3	0.82816	8138	x						x	
histone H2B Leishmania major chr 17	LmjF17.1220		x					12.2	11.3	0.80877	8049	x							
H2B histone H2B Leishmania major chr 9	LmjF19.0030		x		x	x		11.8	11.3	0.82898	8144	x						x	
H2B histone H2B Leishmania major chr 9	LmjF19.0040		x		x	x		11.8	11.3	0.82898	8143	x						x	
H2B histone H2B Leishmania major chr 9	LmjF19.0050		x		x	x		11.8	11.3	0.82898	8142	x						x	
histone H2B [Leishmania infantum JPCM5]		gil146084356				x		11.9	11.3										SSP_8006
histone H2B [Leishmania infantum JPCM5]		gil146078669				x		12.3	11.4										SSP_8006
histone H2b [Leishmania infantum]		gil146092853				x		20.0	10.8										SSP_8006
histone h3 L.m. chr 10	LmjF10.0870		x		x			14.7	11.7	0.90676	8271	x						x	
histone h3 Leishmania major chr 10	LmjF10.0990		x		x			14.7	11.7	0.91255	8272	x						x	
histone H3 variant, putative L.m. chr 19	LmjF19.0630		x					16.3	10.9	0.71700	6711	x							
histone h4 L.m. chr 2	LmjF02.0020		x		x	x		11.4	10.6	0.82665	8132	x						x	
histone h4 L.m. chr 6	LmjF06.0010		x			x		11.4	10.6	0.81251	8072	x							
histone h4 L.m. chr 15	LmjF15.0010		x			x		11.4	10.7	0.79827	7996	x							
histone h4 Leishmania major chr 25	LmjF25.2450		x		x	x		11.4	10.6	0.82002	8120	x						x	
histone h4 Leishmania major chr 31	LmjF31.3180		x		x	x		11.4	10.6	0.82002	8121	x						x	
histone h4 Leishmania major chr 35	LmjF35.1310		x		x	x		11.4	10.6	0.78329	7903	x						x	
histone h4 Leishmania major chr 36	LmjF36.0020		x		x	x		11.4	10.6	0.82665	8133	x						x	
<b>antioxidants</b>																			
FESODA iron superoxide dismutase L.m. chr 8	LmjF08.0290		x				[EC: 1.15.1.1]	26.1	7.2	0.73947	7310	x							
SODB1 iron superoxide dismutase, putative L.m. chr 32	LmjF32.1820		x		x		[EC: 1.15.1.1]	21.5	6.1	0.75984	7670	x	341						262
SODB2 iron superoxide dismutase, putative Leishmania major chr 32	LmjF32.1830		x				[EC: 1.15.1.1]	23.0	7.7	0.75643	7603	x							
glutathione synthetase, putative L.m. chr 14	LmjF14.0910		x / F				[EC: 6.3.2.3]	66.9	5.8	0.69650	5920		62						
glutathione peroxidase-like protein, putative L.m. chr 26	LmjF26.0810		x				[EC: 1.11.1.9]	20.9	7.9	0.70453	6262	x							
glutathione peroxidase-like protein, putative Leishmania major chr 26	LmjF26.0820		x				[EC: 1.11.1.9 / 1]	20.9	8.2	0.71302	6586	x							
peroxidoxin L.m. chr 23	LmjF23.0040		x / D / F		x / B / F / N		[EC: 1.11.1.15]	25.3	6.4	0.67379	4783		317						253, SSP_3104
trypanothione synthetase, putative L.m. chr 27	LmjF27.1870		x				[EC: 6.3.1.9]	74.4	5.5	0.73367	7195	x							
trypanothione reductase L.m. chr 5	LmjF05.0350		x / D		F		[EC: 1.8.1.12]	53.1	5.8	0.76077	7684	x	161						
TSA trypanredoxin peroxidase L.m. chr 15	LmjF15.1040		x		x / N	x	[EC: 1.11.1.15]	22.1	6.3	0.78653	7927	x	337, 343						256, 257
TSA TXNPX, PXN1 thiol specific antioxidant L.m. chr 15	LmjF15.1060		x		x / N	x	[EC: 1.11.1.15]	21.2	6.4	0.80109	8009		343						256, 257
TSA TXNPX, PXN3 thiol specific antioxidant Leishmania major chr 15	LmjF15.1080		x		x / M / N	x	[EC: 1.11.1.15]	22.1	6.3	0.78929	7951	x	337, 343						256, 257
TSA PXN1 thiol specific antioxidant Leishmania major chr 15	LmjF15.1100		x		x / N	x	[EC: 1.11.1.15]	21.2	6.4	0.80109	8011	x	343						256, 257
TSA TXNPX, PXN thiol specific antioxidant Leishmania major chr 15	LmjF15.1120		x		x / N	x	[EC: 1.11.1.15]	22.1	6.3	0.78821	7945	x	337, 343						256, 257
TSA TXNPX, PXN3 thiol specific antioxidant Leishmania major chr 15	LmjF15.1140		x		x / N	x	[EC: 1.11.1.15]	21.2	6.4	0.80109	8010	x	343						256, 257
TSA trypanredoxin peroxidase Leishmania major chr 15	LmjF15.1160		x		x / N	x	[EC: 1.11.1.15]	22.1	6.3	0.79061	7957	x	337, 343						256, 257
cytosolic trypanredoxin peroxidase [Leishmania amazonensis]		gil61619791				x		22.0	7.6										SSP_6109
trypanredoxin L.m. chr 29	LmjF29.1160		x		N			16.5	5.1	0.68027	5118		357						
trypanredoxin-like protein L.m. chr 31	LmjF31.1960		x					21.5	7.3	0.67703	4950	x							
<b>others</b>																			
3-oxo-5-alpha-steroid 4-dehydrogenase, putative L.m. chr 25	LmjF25.1770		x				[EC: 1.3.99.5]	34.2	10.4	0.76187	7696	x							
adaptor complex AP-1 medium subunit, putative L.m. chr 22	LmjF22.1140		x					49.1	6.4	0.74877	7493	x							
ADP ribosylation factor 3, putative L.m. chr 29	LmjF29.0880		x					20.2	6.2	0.59378	807		343						
ADP/ATP mitochondrial carrier-like protein L.m. chr 14	LmjF14.0990		x					40.5	8.1	0.68962	5593	x							
ADP-ribosylation factor-like protein L.m. chr 30	LmjF30.2370		x					20.0	6.0	0.68633	5414		351						
ANC ADP,ATP carrier protein 1, mitochondrial precursor, putative L.m. chr 19	LmjF19.0200		x		x			35.1	9.8	0.81554	8085	x						x	
ANC ADP,ATP carrier protein 1, mitochondrial precursor, putative Leishmania major chr 19	LmjF19.0210		x		x			35.1	9.8	0.81554	8086	x						x	

ankyrin/TPR repeat protein L.m. chr 24	LmjF24.0140		x				42.9	6.6	0.68503	5344		276		
ATP-dependent DEAD/H RNA helicase, putative L.m. chr 7	LmjF07.0340		x				55.0	7.2	0.72098	6836	x			
ATP-dependent DEAD-box RNA helicase, putative L.m. chr 35	LmjF35.0370		x / F	x			46.4	6.7	0.72009	6809	x			SSP_6404
ATP-dependent RNA helicase, putative L.m. chr 32	LmjF32.0400		x / F				66.8	9.0	0.75961	7666	x			
ATP-dependent RNA helicase [Leishmania infantum JPCM5]		gil146096170		x			66.8	9.0						99
ATP-dependent RNA helicase, putative L.m. chr 35	LmjF35.3100		x	x			100.2	6.1	0.69603	5893	x		x	
RNA helicase, putative [L.m.]		gil168223993		x			49.5	5.9						SSP_5402
axoneme central apparatus protein, putative L.m. chr 20	LmjF20.1400		x				55.2	5.6	0.74436	7405		181		
basic transcription factor 3a, putative L.m. chr 36	LmjF36.3770		x				11.7	9.4	0.78278	7900		374		
biotin/lipoate protein ligase-like protein L.m. chr 31	LmjF31.1070		x			[EC:6.3.4.15]	28.3	6.3	0.70102	6101	x	231		
CALA2 calmodulin, putative Leishmania major chr 9	LmjF09.0910		x				16.8	4.1	0.87176	8247		352		
CALA2 calmodulin, putative L.m. chr 9	LmjF09.0920		x				16.8	4.1	0.87176	8245		352		
CALA2 calmodulin, putative Leishmania major chr 9	LmjF09.0930		x				16.8	4.1	0.87176	8246		352		
calpain-like cysteine peptidase, putative L.m. chr 14	LmjF14.0850		x / D	N			12.9	4.7	0.83606	8167		346		
casein kinase II, alpha chain, putative L.m. chr 2	LmjF02.0360		x			[EC:2.7.1.37]	44.2	8.9	0.73651	7263	x			
casein kinase, putative L.m. chr 35	LmjF35.1010		x	x			39.7	9.3	0.78312	7901	x		x	
cell differentiation protein-like protein L.m. chr 34	LmjF34.4550		x				41.1	8.3	0.68773	5492	x			
centrin, putative L.m. chr 22	LmjF22.1410		x	N			16.4	4.4	0.72164	6851		355		
centromere/microtubule binding protein cbf5, putative L.m. chr 21	LmjF21.1760			x			48.4	9.1	0.66390	4202				112
clathrin heavy chain, putative L.m. chr 36	LmjF36.1630		x / F	x			190.0	5.8	0.77055	7796	x		x	
coatamer epsilon subunit, putative L.m. chr 32	LmjF32.1730		x				35.0	5.0	0.69691	5933		141		
COP-coated vesicle membrane protein gp25L precursor, putative L.m. chr 35	LmjF35.1850		x				24.5	9.2	0.67157	4671	x			
CPB2 protein [Leishmania mexicana]		gil14348750		x			38.7	5.2						223, 225, 226, SSP_0103
cysteine proteinase LmCPB1 [Leishmania mexicana]		gil1749812		x			38.6	5.4						226, SSP_0103
LmCPb19 [Leishmania mexicana]		gil8866681		x			14.4	5.2						223, 225, 226, SSP_0103
Cysteine proteinase B precursor		gil1730100		x			47.7	5.8						223, 225, 226, SSP_0103
cysteine proteinase [Leishmania mexicana]		gil2780176		x			47.9	6.3						SSP_0103
Cysteine proteinase 2 precursor (Amastigote cysteine proteinase A-2)		gil461905		x			47.8	5.7						SSP_0103
cysteine proteinase [Leishmania mexicana]		gil19542		x			47.8	6.2						SSP_0103
developmentally regulated GTP-binding protein 1, putative L.m. chr 36	LmjF36.2250		x				41.0	8.9	0.72363	6940	x			
diphosphomevalonate decarboxylase, putative L.m. chr 18	LmjF18.0020		x			[EC:4.1.1.33]	42.4	5.9	0.71733	6723		199		
Leishmanolysin precursor (Cell surface protease) (Major surface glycoprotein) (Protein gp63) (Proma)		gil51317309		x			63.0	6.9						41
farnesyl pyrophosphate synthase, putative L.m. chr 22	LmjF22.1360		x			[EC:2.5.1.10]	40.9	5.5	0.78695	7932	x			
Gim5A protein, putative L.m. chr 35	LmjF35.3700		x				24.9	8.9	0.71446	6634	x			
glycosomal membrane protein, putative L.m. chr 28	LmjF28.2260		x				23.8	9.8	0.73990	7317	x			
GTP-binding protein, putative L.m. chr 25	LmjF25.1420		x / F	x			24.2	6.1	0.78703	7933		330		SSP_5207
GTP binding protein, putative L.m. chr 27	LmjF27.2330		x				44.0	6.3	0.67657	4929	x			
GTP-binding protein-like protein L.m. chr 29	LmjF29.0090		x				20.9	8.3	0.62300	1842	x			
IgE-dependent histamine-releasing factor, putative L.m. chr 24	LmjF24.1500		x / D	x			19.4	4.4	0.82870	8139		306, 307		SSP_1106
IgE-dependent histamine-releasing factor, putative Leishmania major chr 24	LmjF24.1510		x / D	x			19.4	4.4	0.82870	8140		306, 307		SSP_1106
intraflagellar transport protein component, putative L.m. chr 19	LmjF19.0320		x				73.2	5.1	0.72840	7066		7		
intraflagellar transport protein-like protein L.m. chr 22	LmjF22.1370		x				61.4	5.6	0.72361	6939		63		
kinesin, putative L.m. chr 16	LmjF16.1460			x			217.8	4.2	0.84189	8195			x	
kinesin, putative Leishmania major chr 16	LmjF16.1470			x			89.4	4.8	0.79284	7965			x	
kinesin, putative L.m. chr 23	LmjF23.0560		x	x			75.4	9.5	0.73514	7230	x		x	
kinetoplast-associated protein p18-2, putative L.m. chr 32	LmjF32.3770		x				14.8	11.7	0.65574	3728	x			
KMP11 kinetoplastid membrane protein-11 Leishmania major chr 35	LmjF35.2210		x / G		x		11.2	6.0	0.84151	8194		382		
KMP11 kinetoplastid membrane protein-11 L.m. chr 35	LmjF35.2220		x / G				11.2	6.0	0.84773	8206		382		
la RNA binding protein, putative L.m. chr 21	LmjF21.0540		x	x / M			37.2	8.9	0.75726	7622		296		163
LACK activated protein kinase c receptor (LACK) Leishmania major chr 28	LmjF28.2740		x / B / D / F	x / F	x		34.4	6.1	0.85539	8223		217		179
LACK activated protein kinase c receptor (LACK) L.m. chr 28	LmjF28.2750		x / B / D / M	x	x		34.4	6.1	0.85539	8222		217		179
lectin, putative L.m. chr 13	LmjF13.0670		x / F				54.5	5.3	0.74484	7416		21		
lipophosphoglycan biosynthetic protein, putative L.m. chr 29	LmjF29.0760			x			86.6	5.0	0.76706	7754				2
maoc family dehydratase-like protein L.m. chr 7	LmjF07.0430		x				17.0	5.1	0.63642	2583		348		
methylthioadenosine phosphorylase, putative L.m. chr 5	LmjF05.0830		x / D			[EC:2.4.2.28]	33.4	6.3	0.82936	8145		282		
METK MAT2 S-adenosylmethionine synthetase Leishmania major chr 30	LmjF30.3500		x / B / F		x	[EC:2.5.1.6]	43.0	5.6	0.81925	8113		172, 174		
METK MAT2 S-adenosylmethionine synthetase L.m. chr 30	LmjF30.3520		x / B / M			[EC:2.5.1.6]	43.0	5.6	0.81925	8112		172, 174		
mevalonate kinase, putative L.m. chr 31	LmjF31.0560		x			[EC:2.7.1.36]	35.5	9.1	0.62465	1929	x			
microtubule-associated protein, putative L.m. chr 5	LmjF05.0380		x / F				206.7	4.5	0.79144	7959		1		
mitochondrial associated ribonuclease, putative L.m. chr 8	LmjF08.0320			x			24.8	6.6	0.71814	6748				245
mitochondrial phosphate transporter, putative L.m. chr 35	LmjF35.4420		x				36.9	9.1	0.73631	7256	x			
mitochondrial phosphate transporter, putative Leishmania major chr 35	LmjF35.4430		x				34.6	9.3	0.74681	7452	x			

mitochondrial RNA binding protein 1 L.m. chr 27	LmjF27.1110					26.7	10.3	0.68151	5185				267, SSP_8207
mitochondrial RNA binding protein 2 L.m. chr 9	LmjF09.1120	x	x			26.8	9.6	0.70186	6141	x			264
mitogen activated protein kinase, putative L.m. chr 33	LmjF33.1380	x	M			46.8	5.8	0.72274	6901	x			
MOB1 cell cycle associated protein MOB1, putative L.m. chr 6	LmjF06.0960		x			26.6	5.1	0.75405	7565			x	
nuclear transport factor 2, putative L.m. chr 10	LmjF10.0850	x				13.9	8.0	0.75961	7668		379		
nucleolar GTP-binding protein, putative L.m. chr 33	LmjF33.1870		x			74.3	9.3	0.76173	7695			x	
nucleolar protein, putative L.m. chr 10	LmjF10.0210		x			52.7	8.7	0.80956	8055			x	
nucleolar RNA binding protein, putative L.m. chr 15	LmjF15.1380	x / F				66.0	9.4	0.72034	6816	x			
p22 protein precursor, putative L.m. chr 30	LmjF30.0970	x				22.0	4.6	0.78128	7890		345		
p450 reductase, putative L.m. chr 28	LmjF28.1240	x				72.2	6.3	0.72242	6882	x			
PDI protein disulfide isomerase L.m. chr 36	LmjF36.6940	x / A / D	x		[EC:5.3.4.1]	52.3	5.2	0.70367	6234		103, 104		26
PGFS prostaglandin f2-alpha synthase L.m. chr 31	LmjF31.2150	x / D	x / N / M			31.8	5.9	0.73375	7196		213		181, SSP_5205
phosphoinositide-binding protein, putative L.m. chr 35	LmjF35.2420	x				46.5	6.1	0.68946	5584		169		
phosphomevalonate kinase-like protein L.m. chr 15	LmjF15.1460	x			[EC:2.7.4.2]	49.1	5.8	0.70093	6097		175		
poly(a)-binding protein, putative Leishmania major chr 25	LmjF25.0080	F	F			60.9	9.0	0.71341	6595				
poly(a) binding protein, putative L.m. chr 35	LmjF35.4130	x	x			65.3	9.1	0.76730	7756	x	89		SSP_7702
poly(a) binding protein [Leishmania infantum]	gil146101854		x			64.6	9.1						99
PP2C protein phosphatase, putative L.m. chr 25	LmjF25.0750	x	B		[EC:3.1.3.16]	44.9	4.7	0.74953	7506		102		
prohibitin, putative L.m. chr 35	LmjF35.0070	x	x		x	32.3	9.2	0.67709	4952	x			161
proliferative cell nuclear antigen (PCNA), putative L.m. chr 15	LmjF15.1450	x / M	x / M			32.4	4.8	0.75176	7529		124		SSP_1306
protein disulfide isomerase, putative L.m. chr 26	LmjF26.0660	x / F	M		[EC:5.3.4.1]	40.7	7.0	0.75849	7645		204		
protein kinase, putative L.m. chr 18	LmjF18.0270	x			[EC:2.7.1.31]	40.7	7.6	0.74748	7465	x			
protein kinase, putative L.m. chr 19	LmjF19.0150	x			[EC:2.7.1.31]	30.9	6.7	0.63958	2773	x	287		
protein transport protein sec13, putative L.m. chr 32	LmjF32.0050	x / D / F				36.3	5.7	0.63389	2445		192		
protein tyrosine phosphatase-like protein L.m. chr 16	LmjF16.0230	x				19.4	8.3	0.73757	7276	x			
pyridoxal kinase, putative L.m. chr 30	LmjF30.1250	x	x		[EC:2.7.1.35]	33.2	5.6	0.70310	6202		223		184
Ran-binding protein 1, putative L.m. chr 13	LmjF13.1480	x / M	B / N			17.8	5.6	0.74485	7417		349		
RBP38 mitochondrial RNA binding protein, putative L.m. chr 23	LmjF23.0760		x / N			39.7	9.4	0.72301	6919				164
ribokinase, putative L.m. chr 27	LmjF27.0420	x			[EC: 2.7.1.-]	35.3	6.4	0.70263	6194		279		
RNA binding protein rbp16, putative L.m. chr 28	LmjF28.0825	x	x			15.1	10.1	0.66942	4529		369		299, SSP_8101
RNA-binding protein, putative L.m. chr 4	LmjF04.1170	x				34.5	6.1	0.71519	6657		209, 215		
RNA-binding protein, putative L.m. chr 25	LmjF25.0490	x	x			20.2	9.5	0.81439	8077	x			269, SSP_9103
RNA-binding protein, putative Leishmania major chr 25	LmjF25.0500	x	x			19.0	9.5	0.82668	8134	x			269, SSP_9103
RNA binding protein, putative L.m. chr 32	LmjF32.0750	x				25.2	10.5	0.75797	7634	x			
RNA-binding protein, putative L.m. chr 35	LmjF35.2200	x	x			30.2	7.9	0.76217	7700		211, 216, 221		180
RPA1 replication factor A, 51kDa subunit, putative L.m. chr 28	LmjF28.1820	x / B				52.4	6.2	0.75221	7536		183		
rub-like 1 DNA helicase, putative L.m. chr 34	LmjF34.3500	x / F			[EC:3.6.1.-]	50.3	5.8	0.70905	6427	x			
serine/threonine-protein kinase, putative L.m. chr 29	LmjF29.2570	x	x		[EC 2.7.1.37]	56.5	6.6	0.71219	6554			x	
short chain dehydrogenase, putative L.m. chr 35	LmjF35.1220	x				24.9	8.2	0.64525	3090		292		
small GTP-binding protein Rab1, putative L.m. chr 27	LmjF27.0760	x				22.2	5.6	0.71129	6512	x			
spermidine synthase, putative L.m. chr 4	LmjF04.0580	x / F	F		[EC:2.5.1.16]	32.9	5.2	0.74125	7346		144		
splicing factor pter1-like protein L.m. chr 7	LmjF07.0870	x				41.9	11.2	0.72782	7055	x			
sterol 24-c-methyltransferase, putative L.m. chr 36	LmjF36.2380	x / D			[EC:2.1.1.41]	39.9	6.1	0.78099	7887	x			
sterol 24-c-methyltransferase, putative Leishmania major chr 36	LmjF36.2390	x			[EC:2.1.1.41 / 2]	39.9	6.1	0.78173	7892	x			
stomatin-like protein [Leishmania infantum]	gil146077037		x			39.7	7.6						90
t-complex protein 1, eta subunit, putative L.m. chr 35	LmjF35.3860	x / D / F	F			61.7	6.6	0.71100	6502		164		
TPR domain protein, conserved L.m. chr 30	LmjF30.2740	x	x / M			45.7	5.2	0.78784	7942		118		63
Transitional endoplasmic reticulum ATPase, putative L.m. chr 36	LmjF36.1370	x	x / M			86.8	5.2	0.73603	7252		23		4
tricarboxylate carrier, putative L.m. chr 1	LmjF01.0570	x				36.1	10.3	0.76055	7682	x			
UMSBP1 universal minicircle sequence binding protein, putative L.m. chr 36	LmjF36.1610	x				12.5	8.4	0.84129	8193		373		
UMSBP2 universal minicircle sequence binding protein Leishmania major chr 36	LmjF36.1620	x				19.3	9.0	0.71464	6639		373		
vacuolar ATP synthase subunit B, putative L.m. chr 28	LmjF28.2430	x / F	x		[EC:3.6.3.14]	55.5	5.6	0.75213	7535		174		46, SSP_5502
vacuolar ATP synthase catalytic subunit a, putative L.m. chr 34	LmjF34.3670		x		[EC:3.6.3.14]	67.7	5.1	0.74787	7475				312
carboxylase, putative	LmjF01.0050	A			[EC:6.4.-.-]	73.8	5.6	0.76519	7732				
coproporphyrinogen iii oxidase, putative	LmjF06.1270	F	F		[EC:1.3.3.3 / 1.3]	34.4	5.3	0.66046	3994				
vacuolar-type Ca2+-ATPase, putative	LmjF07.0630	B			[EC:3.6.3.-]	122.3	5.8	0.76382	7715				
vacuolar-type Ca2+-ATPase, putative	LmjF07.0650	B			[EC:3.6.3.-]	123.5	6.0	0.76099	7686				
ATP-dependent DEAD/H RNA helicase, putative	LmjF08.0080		M			75.6	7.2	0.66328	4157				
protein kinase A regulatory subunit, putative	LmjF13.0160	F	F			56.3	5.0	0.76735	7757				
flagellar radial spoke protein, putative, LinJ13.0300	LmjF13.0430	F				65.9	4.3	0.69882	6009				
replication Factor A 28 kDa subunit, putative	LmjF15.0270		N			27.5	9.3	0.71412	6620				
peptidylprolyl isomerase-like protein	LmjF19.1530		M		[EC:5.2.1.8 / 5.2]	47.7	5.5	0.72040	6818				
serine/threonine protein phosphatase 2A regulatory subunit, putative	LmjF20.0660	F				63.9	5.7	0.69529	5856				
endoribonuclease L-PSP (pb5), putative	LmjF23.0200		N			16.9	5.5	0.67743	4969				



3-hydroxy-3-methylglutaryl-CoA reductase, putative; LinJ30.3600	LmjF30.3190		F			[EC:1.1.1.34]	46.0	8.8	0.66181	4068				
4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthesis protein, putative	LmjF30.0750		F				20.5	6.1	0.58885	684				
branch point binding protein, putative	LmjF36.5420		F				32.9	5.1	0.72563	6998				
cysteine conjugate beta-lyase, aminotransferase-like protein	LmjF33.1330		F				45.9	5.9	0.56772	354				
d-isomer specific 2-hydroxyacid dehydrogenase-protein	LmjF34.1400			M			35.5	5.6	0.68583	5386				
ethanolamine-phosphate cytidyltransferase, putative	LmjF32.0890		F			[EC:2.7.7.14]	45.4	5.7	0.70133	6119				
high mobility group protein homolog tdp-1, putative	LmjF29.0850		B				33.6	9.6	0.69017	5620				
nucleoside transporter 1, putative	LmjF36.1940		B				53.9	6.1	0.72095	6834				
rab-GDP dissociation inhibitor, putative	LmjF29.2160		F				49.8	5.7	0.77628	7855				
short chain dehydrogenase, putative	LmjF35.1230			B			28.1	6.1	0.69019	5621				
similarity to endo-1-like protein	LmjF36.6540			M			26.4	5.4	0.72127	6844				
vesicular-fusion ATPase-like protein, putative; LinJ27.0660	LmjF27.1070		F				107.9	5.4	0.68260	5254				
<b>indifferent</b>														
carbamoyl-phosphate synthase, putative L.m. chr 16	LmjF16.0590		x			[EC: 6.3.5.5]	205.8	5.7	0.80767	8043	x			
UTP-glucose-1-phosphate uridylyltransferase 2, putative L.m. chr 18	LmjF18.0990		x / F			[EC:2.7.7.9]	54.5	5.6	0.74228	7363		58		
n-acyl-L-amino acid amidohydrolase, putative L.m. chr 31	LmjF31.1130		x			[EC:3.5.1.14]	43.8	5.5	0.74745	7463		196		
peroxisomal enoyl-coa hydratase, putative L.m. chr 18	LmjF18.0580			x		[EC:4.2.1.17]	34.2	8.4	0.58965	702				169
myo-inositol-1-phosphate synthase	LmjF14.1360		M	M		[EC:5.5.1.4]	58.3	5.8	0.77521	7845				
3-hydroxyisobutyryl-coenzyme a hydrolase-like protein	LmjF32.3650		F	F / M			39.8	5.3						
3-hydroxyisobutyryl-coenzyme a hydrolase-like protein	LmjF32.3660			M			39.8	5.3						
3-hydroxyisobutyryl-coenzyme a hydrolase-like protein	LmjF32.3670			M			41.7	5.6	0.75674	7612				
acyl-CoA dehydrogenase, putative	LmjF35.2730		F			[EC:1.3.99.-]	44.6	6.1	0.69326	5767				
<b>non leishmanial &amp; non mouse proteins</b>														
Ds Red fluorescent protein T4 [Cloning vector pRU1076]		gii55724889	x	x			25.8	6.2				227, 229		195, 236, 237, 239, 240, 241, 247, 248, 261, 273, 274, 276, 293, SSP_6211
<b>mouse proteins</b>														
vimentin [Mus musculus]		gii31982755		x			53.7	5.1						SSP_2602
vimentin [Mus musculus]		gii55408		x			53.7	5.1						SSP_2602
unnamed protein product [Mus musculus]		gii55291		x			53.6	5.1						SSP_2602
unnamed protein product [Mus musculus]		gii74225487		x			53.6	5.1						SSP_2602
unnamed protein product [Mus musculus]		gii74143673		x			56.9	5.4						SSP_2702
78 kDa glucose-regulated protein precursor (GRP 78) (Heat shock 70 kDa protein 5) (Immunoglobulin h		gii2506545		x			72.4	5.1						SSP_2702
BiP [Mus musculus]		gii2598562		x			72.4	5.1						SSP_2702
heat shock protein 5 [Mus musculus]		gii31981722		x			72.4	5.0						SSP_2702
unnamed protein product [Mus musculus]		gii74188814		x			72.3	5.1						SSP_2702
unnamed protein product [Mus musculus]		gii74198293		x			72.4	5.1						SSP_2702
unnamed protein product [Mus musculus]		gii74198974		x			72.4	5.1						SSP_2702
unnamed protein product [Mus musculus]		gii74207492		x			72.3	5.1						SSP_2702
unnamed protein product [Mus musculus]		gii74220199		x			68.5	5.2						SSP_2702
unnamed protein product [Mus musculus]		gii74213524		x			41.7	5.3						SSP_2402
unnamed protein product [Mus musculus]		gii74187644		x			41.7	5.2						SSP_2402
unnamed protein product [Mus musculus]		gii74142419		x			68.2	5.5						SSP_3706
vacuolar adenosine triphosphatase subunit A		gii1184659		x			68.2	5.6						SSP_3706
ATPase, H+ transporting, lysosomal V1 subunit A [Mus musculus]		gii31560731		x			68.3	5.4						SSP_3706
unnamed protein product [Mus musculus]		gii74177659		x			56.4	5.6						SSP_4609
vacuolar adenosine triphosphatase subunit B		gii1184661		x			56.5	5.6						SSP_4609
unnamed protein product [Mus musculus]		gii74185453		x			56.5	5.6						SSP_4609
unnamed protein product [Mus musculus]		gii74191447		x			57.5	5.6						SSP_4609
unnamed protein product [Mus musculus]		gii74213445		x			56.6	5.8						SSP_4609
unnamed protein product [Mus musculus]		gii74220440		x			57.5	5.6						SSP_4609
unnamed protein product [Mus musculus]		gii74223066		x			56.5	5.6						SSP_4609

<sup>1)</sup> Databases used for identification were either Gene DB (version ftp://ftp.sanger.ac.uk/pub/databases/L\_major\_sequences/LEISHPEP/ARCHIVE/GeneDB\_protein\_database\_090704, containing 8217 sequences) and NCBI database (NCBI nr 20070908 (5454477 sequences)). Shown are the protein name, the respective Sanger ID and/or the NCBI accession number.

<sup>2)</sup> The two columns "detected in either Prom. (promastigotes) and / or Am. (amastigotes)" refer to the lifecycle stage of samples in which the respective protein was identified. X denotes identified in this report, whereas A, B, D, E, F, G, M and N refer to published studies of other groups as referenced below. *Leishmania* proteins only detected by others in similar analyses are shaded in grey but are included in table for reference (see also table 4 for more information on these proteins).

<sup>3)</sup> "Antigen" an x denotes that antigenicity or immunogenicity has been shown for this protein.

<sup>4)</sup> For enzymes the EC No. is indicated.

<sup>5)</sup> Theoretical molecular weight (MW) and pI; the CAI value and CAI rank were determined as described in material and methods.

<sup>6)</sup> Proteins were identified in Promastigotes and / or Amastigotes by either ESI MS/MS, column "ESI", and / or MALDI MS/MS, in the latter case the 2-DE Gel spot number from which the protein was identified in indicated in column "MALDI spot no." and refers to spot numbers shown on preparative gels scans in supplementary figures SFig.1-SFig3.

A) Dea-Ayuela, M. A., S. Rama-Iñiguez, and F. Bolas-Fernandez. 2006. Proteomic analysis of antigens from *Leishmania infantum* promastigotes. *Proteomics*. 6, 4187-4194

B) Bente, M., S. Harder, M. Wiesgigl, J. Heukeshoven, C. Gelhaus, E. Krause, J. Clos, and I. Bruchhaus. 2003. Developmentally induced changes of the proteome in the protozoan parasite *Leishmania donovani*. *Proteomics*. 3, 1811-1829

D) Druumelsmith, J., V. Brochu, I. Girard, N. Messier, and M. Ouellette. 2003. Proteome mapping of the protozoan parasite *Leishmania* and application to the study of drug targets and resistance mechanisms. *Mol.Cell Proteomics*. 2, 146-155

E) El Fakhry, Y., M. Ouellette, and B. Papadopolou. 2002. A proteomic approach to identify developmentally regulated proteins in *Leishmania infantum*. *Proteomics*. 2, 1007-1017

F) Foucher, A. L., B. Papadopolou, and M. Ouellette. 2006. Prefractionation by digitonin extraction increases representation of the cytosolic and intracellular proteome of *Leishmania infantum*. *J.Proteome.Res.* 5, 1741-1750

G) Gongora, R., N. Acestor, M. Quadroni, N. Fasel, N. G. Saravia, and J. Walker. 2003. Mapping the proteome of *Leishmania Viannia* parasites using two-dimensional polyacrylamide gel electrophoresis and associated technologies. *Biomedica*. 23, 153-160

M) McNicoll, F., J. Druumelsmith, M. Muller, E. Madore, N. Boilard, M. Ouellette, and B. Papadopolou. 2006. A combined proteomic and transcriptomic approach to the study of stage differentiation in *Leishmania infantum*. *Proteomics*. 6, 3567-3581

N) Nugent, P. G., S. A. Karsani, R. Wait, J. Tempero, and D. F. Smith. 2004. Proteomic analysis of *Leishmania mexicana* differentiation. *Mol.Biochem.Parasitol.* 136, 51-62

References of described antigenicity or immunogenicity activity:

Aluned, S. B., C. Bahloul, C. Robbana, S. Askri, and K. Dellagi. 2004. A comparative evaluation of different DNA vaccine candidates against experimental murine leishmaniasis due to *L. major*. *Vaccine* 22,1631-1639

Almeida, R., A. Norrish, M. Levick, D. Vetric, T. Freeman, J. Vilo, A. Ivens, U. Lange, C. Stober, S. McCann, and J. M. Blackwell. 2002. From genomes to vaccines: *Leishmania* as a model. *Philos.Trans.R.Soc.Lond.B Biol.Sci.* 357, 5-11

Basu, R., S. Bhaumik, J. M. Basu, K. Naskar, T. De, and S. Roy. 2005. Kinetoplastid membrane protein-11 DNA vaccination induces complete protection against both pentavalent antimonial-sensitive and -resistant strains of *Leishmania donovani* that correlates with inducible nitric oxide synthase activity and IL-4 generation: evidence for mixed Th1- and Th2-like responses in visceral leishmaniasis. *J.Immunol.* 174, 7160-7171

Coler, R. N. and S. G. Reed. 2005. Second-generation vaccines against leishmaniasis. *Trends Parasitol.* 21, 244-249

Iborra, S., J. Carrion, C. Anderson, C. Alonso, D. Sacks, and M. Soto. 2005. Vaccination with the *Leishmania infantum* acidic ribosomal P0 protein plus CpG oligodeoxynucleotides induces protection against cutaneous leishmaniasis in C57BL/6 mice but does not prevent progressive disease in BALB/c mice. *Infect.Immun.* 73, 5842-5852

Kanoun-Essghaier, S., I. Guizani, J. M. Strub, A. Van Dorsselaer, K. Mabrouk, L. Ouelhazi, and K. Dellagi. 2005. Proteomic approach for characterization of immunodominant membrane-associated 30- to 36-kiloDalton fraction antigens of *Leishmania infantum* promastigotes, reacting with sera from Mediterranean visceral leishmaniasis patients. *Clin.Diagn.Lab Immunol.* 12, 310-320

Kubar, J. and K. Fragaki. 2005. Recombinant DNA-derived leishmania proteins: from the laboratory to the field. *Lancet Infect.Dis.* 5, 107-114

Requena, J. M., C. Alonso, and M. Soto. 2000. Evolutionarily conserved proteins as prominent immunogens during *Leishmania* infections. *Parasitol.Today* 16, 246-250

Theinert, S. M., R. Basu, M. Forgher, S. Roy, S. Sundar, and P. Walden. 2005. Identification of new antigens in visceral leishmaniasis by expression cloning and immunoblotting with sera of kala-azar patients from Bihar, India. *Infect.Immun.* 73, 7018-7021

Supplementary Table 2. Overview of oligonucleotide motifs in 3'-UTR of differentially expressed ORFs.

Gene annotation		motif		<i>L. infantum</i> <sup>c</sup> ortholog	motif	
<i>L. major</i>	Name	TCTCCTTT <sup>a</sup>	AAGAGAA <sup>b</sup>		TCTCCTTT	AAGAGAA
LmjF05.1040 <sup>d</sup>	stomatin-like protein			LinJ05_V3.1040		
LmjF08.0320	mitochondrial associated ribonuclease			LinJ08_V3.0330		
LmjF09.0100	hypothetical protein, conserved	x		LinJ09_V3.0120		
<b>LmjF11.0350</b>	<b>14-3-3 protein</b>			<b>LinJ11_V3.0350</b>		
LmjF18.0580	peroxisomal enoyl-coa hydratase			LinJ18_V3.0580		
LmjF19.0710	glycosomal malate dehydrogenase		x	LinJ19_V3.0710		x
LmjF21.1552 <sup>e</sup>	RNA helicase			LinJ21_V3.1820		
LmjF21.1710	cytochrome C oxidase subunit VI			LinJ21_V3.2080		
LmjF21.1760	centromere/microtubule binding protein cbf5			LinJ21_V3.2130		
LmjF22.1540	alanyl-tRNA synthetase			LinJ22_V3.1390		
LmjF23.0370	hypothetical protein, conserved	x	x	LinJ23_V3.0420	x	x
LmjF23.0760	mitochondrial RNA binding protein	x		LinJ23_V3.0930	x	
LmjF24.1210	translation factor SU11		x	LinJ24_V3.1240		x
<b>LmjF25.1420</b>	<b>GTP-binding protein</b>	<b>x</b>	<b>x</b>	<b>LinJ25_V3.1460</b>	<b>x</b>	<b>x</b>
LmjF25.2130 <sup>f</sup>	succinyl-CoA synthetase alpha subunit			LinJ25_V3.2220	x	
LmjF25.2140 <sup>f</sup>	succinyl-CoA synthetase alpha subunit			LinJ25_V3.2230		
LmjF26.1550	trifunctional enzyme alpha subunit, mitochondrial precursor-like protein	x	x	LinJ26_V3.1530	x	X
LmjF27.1110	mitochondrial RNA binding protein 1, gBP21, MRP1	x		LinJ27_V3.0980	x	
LmjF27.1220	hypothetical protein, conserved	x	x	LinJ27_V3.1100		X
LmjF27.1300	hypothetical protein, conserved	x	x	LinJ27_V3.1220	x	X
LmjF28.0490	propionyl-coa carboxylase beta chain			LinJ28_V3.0250		
<b>LmjF28.2770<sup>f</sup></b>	<b>heat-shock protein hsp70</b>	<b>x</b>	<b>x</b>	<b>LinJ28_V3.3060</b>		
<b>LmjF28.2780<sup>f</sup></b>	<b>heat-shock protein hsp70</b>	<b>x</b>		<b>LinJ28_V3.2960</b>		
LmjF29.0760	lipophosphoglycan biosynthetic protein			LinJ29_V3.0790		
LmjF31.1630 <sup>f</sup>	putative 3-ketoacyl-coa thiolase-like protein			LinJ31_V3.1660		

LmjF31.1640 <sup>f</sup>	thiolase protein-like protein			LinJ12_V3.0230		
LmjF31.1900 <sup>f</sup>	ubiquitin-fusion protein			LinJ31_V3.1930		
LmjF31.2030 <sup>f</sup>	ubiquitin-fusion protein			LinJ31_V3.2070		
LmjF31.2250	3,2-trans-enoyl-CoA isomerase			LinJ31_V3.2320		
LmjF32.0840	hypothetical protein, conserved		x	LinJ32_V3.0890	x	x
LmjF33.0830	2,4-dienoyl-coa reductase	x		LinJ33_V3.0870	x	
LmjF33.1630	cyclophilin			LinJ33_V3.1730		
LmjF33.2390	heat shock protein	x		LinJ33_V3.2520	x	
<b>LmjF34.2580</b>	<b>hypothetical protein, conserved</b>	<b>x</b>	<b>x</b>	<b>LinJ34_V3.2410</b>	<b>x</b>	<b>x</b>
LmjF34.3670	vacuolar ATP synthase catalytic subunit a			LinJ34_V3.3460		
<b>LmjF34.4340<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>					
<b>LmjF34.4370<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>					
<b>LmjF34.4400<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>					
<b>LmjF34.4430<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>			<b>LinJ34_V3.4390</b>		
<b>LmjF34.4460<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>					
<b>LmjF34.4490<sup>f</sup></b>	<b>20s proteasome beta 7 subunit</b>					
<b>LmjF35.0400<sup>f</sup></b>	<b>40S ribosomal protein S3a</b>			<b>LinJ35_V3.0400</b>		
<b>LmjF35.0410<sup>f</sup></b>	<b>40S ribosomal protein S3a</b>					
<b>LmjF35.0420<sup>f</sup></b>	<b>40S ribosomal protein S3a</b>			<b>LinJ35_V3.0410</b>		
LmjF35.1300	ubiquitin-conjugating enzyme E2		x	LinJ35_V3.1310		x
LmjF36.1160	hypothetical protein, conserved	x	x	LinJ36_V3.1220	x	
LmjF36.3100	ATP synthase			LinJ36_V3.3250		x
<b>LmjF36.3210</b>	<b>14-3-3 protein-like protein</b>			<b>LinJ36_V3.3360</b>		
LmjF36.3780	hypothetical protein, conserved		x	LinJ36_V3.3970		x
<b>LmjF36.3990</b>	<b>hs1vu complex proteolytic subunit-like</b>	<b>x</b>	<b>x</b>	<b>LinJ36_V3.4180</b>	<b>x</b>	
LmjF36.4360	proteasome regulatory ATPase subunit	x		LinJ36_V3.4570	x	x

Shown are Sanger ID's of 51 loci for which the 3'-intergenic regions were analysed according to (van Helden, J. *et. al.*, 2000).  
<sup>a)</sup>  $p < 0.001$ ; <sup>b)</sup>  $p = 0.0012$  P values that the frequency for the respective motif is not identical to its frequency the control gene set ( $\chi^2$ -test); <sup>c)</sup>  
*L. infantum* Sanger ID of respective ortholog to the *L. major* gene. In comparison the the motif containing *L. major* loci, 75% and 79% of  
the *L. infantum* orthologs contained the TCTCCTTT and AAGAGAA motif respectively. Of these 67% and 64% were at the same relative  
localisation in the 3' UTR; <sup>d)</sup> LmjF05.1040 *L. major* ortholog of gjl146077037; <sup>e)</sup> LmjF21.1552 Sanger ID of gjl68223993; <sup>f)</sup> 20S  
proteasome beta 7 subunit array; **in bold**: loci for which proteins were found by isotope coded protein labelling to be more abundant in  
amastigotes (unpublished data see text for details).

#### Reference List

1. **van Helden, J., Andre, B., and Collado-Vides, J.** (30-1-2000). A web site for the computational analysis of yeast regulatory sequences.  
*Yeast* **16** (2) 177-187

Supplementary Table 3. Identified proteins of macrophage isolated *Leishmania mexicana* amastigotes (second proteome study).

GI Acc. No	Gene DB Acc. No	Protein name	Leishmania species with closest orthologue in database	empAI	Peptide matches	Coverage (%)	Prot score	MW	pI	localization	signal peptide pred.	no. of pred. TM	pred. GPI anchor
<b>carbohydrate metabolism</b>													
gi157863207	LmfF10.0260	isocitrate dehydrogenase (NADP), mitochondrial precursor, putative	Leishmania major	3.69	97	51.0	2096	48802	8.31	M			
gi54292809	LmfF21.0240	hexokinase	Leishmania mexicana	3.55	92	60.1	2975	49839	8.29	other			
gi178192398	LmfF28.2860	cytosolic malate dehydrogenase isozyme	Leishmania mexicana	2.64	42	50.6	1341	34695	5.92	secreted	x		
gi157866649	LmfF14.1160	enolase	Leishmania major	2.44	111	46.2	4349	46689	5.6	other			
gi19550	LmfF30.2980	glyceraldehyde 3-phosphate dehydrogenase	Leishmania mexicana	2.15	77	40.7	1427	39236	9.05	other			
gi157877084	LmfF36.2950	succinyl-CoA ligase (GDP-forming) beta-chain, putative	Leishmania major	2.08	92	49.4	2374	44616	6.53	M			
gi170800087	LmfF27.1805	glycosomal phosphoenolpyruvate carboxylase, putative	Leishmania major strain Friedlin	2.06	106	32.8	2732	58670	8.23	other			
gi122217844	LmfF24.2060	transketolase	Leishmania mexicana mexicana	1.95	98	40.2	2482	72466	6.04	other			
gi128832205	LmfF35.3340	6-phosphogluconate dehydrogenase	Leishmania mexicana	1.72	33	38.7	559	29762	6.39	other			
gi15397672	LmfF36.1960	phosphomannomutase	Leishmania mexicana	1.63	24	40.5	712	28231	5.18	other			
gi157875429	LmfF34.0160	malate dehydrogenase, putative	Leishmania major	1.57	74	28.9	3242	34295	6.25	secreted	x		
gi157870259	LmfF24.1630	succinate dehydrogenase flavoprotein, putative	Leishmania major	1.55	60	34.9	2067	67605	6.43	other			
gi157870846	LmfF25.2130	succinyl-CoA synthetase alpha subunit, putative	Leishmania major	1.40	19	38.1	384	31177	9.15	other			
gi157868425	LmfF20.0110	phosphoglycerate kinase B, cytosolic	Leishmania major	1.30	36	30.2	624	45214	8.05	other			
gi157875425	LmfF34.0140	malate dehydrogenase	Leishmania major	1.26	85	25.2	3471	33622	8.5	secreted	x		
gi157867987	LmfF18.1380	pyruvate dehydrogenase E1 component alpha subunit, putative	Leishmania major	1.25	31	36.2	567	43359	7.98	other			
gi157867807	LmfF18.0510	aconitase, putative	Leishmania major	1.23	132	28.5	3105	98229	6.23	other			
gi157870099	LmfF24.0850	inosophosphate isomerase	Leishmania major	1.06	24	29.5	539	27406	8.59	other			
gi1264592	LmfF23.0110	GDP-mannose pyrophosphorylase	Leishmania mexicana	1.05	26	26.4	598	41863	5.29	other			
gi157874347	LmfF32.3310	dihydropyrimidine dehydrogenase, putative	Leishmania major	0.99	39	33.4	1099	51173	6.41	other			
gi157869997	LmfF24.0320	fumarate hydratase, putative	Leishmania major	0.93	44	29.5	1260	61225	7.18	other			
gi157877932	LmfF36.8650	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Leishmania major	0.79	43	25.9	972	60903	5.21	other			
gi127434610	LmfF34.0080	glucose-6-phosphate dehydrogenase	Leishmania mexicana	0.74	31	21.7	644	63838	5.63	other			
gi157870760	LmfF25.1710	pyruvate dehydrogenase E1 beta subunit, putative	Leishmania major	0.68	32	26.0	626	38600	5.64	M		x	
gi17079738	LmfF29.1960	fumarate hydratase, putative	Leishmania major strain Friedlin	0.68	26	24.1	728	63304	6.64	other			
gi157870083	LmfF24.0770	malic enzyme, putative	Leishmania major	0.67	21	28.6	428	64003	8.33	other			
gi157865724	LmfF11.1000	pyruvate phosphate dikinase, putative	Leishmania major	0.65	46	27.4	728	101609	8.69	other			
gi146104451	LmfF36.2350	glyceraldehyde 3-phosphate dehydrogenase cytosolic	Leishmania infantum	0.63	11	24.8	218	35641	7.71	other			
gi157871556	LmfF28.0490	propionyl-CoA carboxylase beta chain, putative	Leishmania major	0.62	26	21.5	592	57200	9.81	secreted	x		
gi12878454	LmfF01.0050	carboxylase, putative	Leishmania major strain Friedlin	0.61	31	28.7	738	74603	5.57	other			
gi157869353	LmfF22.0770	NADH-cytochrome b5 reductase, putative	Leishmania major	0.59	10	12.5	148	32116	7.13	secreted	x		
gi11342604	LmfF32.1580	phosphomannose isomerase	Leishmania mexicana	0.53	22	22.3	759	47104	5.55	other			
gi170797972	LmfF29.2510	6-phospho-1-fructokinase, putative	Leishmania major strain Friedlin	0.52	20	17.9	609	54540	9.32	other			
gi157872841	LmfF30.3380	PAS-domain containing phosphoglycerate kinase, putative	Leishmania major	0.48	15	22.0	362	57876	8.7	other			
gi157865905	LmfF12.0530	glucose-6-phosphate isomerase	Leishmania major	0.46	24	14.5	1047	67355	6.22	other			
gi157876709	LmfF36.1260	fructose-1,6-bisphosphate aldolase	Leishmania major	0.44	23	18.6	376	41201	8.92	other			
gi157875406	LmfF34.0070	ascorbate-dependent peroxidase, putative	Leishmania major	0.44	14	12.9	171	34397	8.4	S		1	
gi157871954	LmfF28.2420	2-oxoglutarate dehydrogenase, E2 component, dihydropyrimidine succinyltransferase, putative	Leishmania major	0.43	21	13.4	406	41924	9.02	other			
gi170799947	LmfF27.0420	ribokinase, putative	Leishmania major strain Friedlin	0.42	16	18.2	344	35719	6.41	other			
gi157869654	LmfF23.0540	acetyl-CoA synthetase, putative	Leishmania major	0.38	23	16.0	590	79156	6.23	other			
gi157867903	LmfF18.0990	UTP-glucose-1-phosphate uridylyltransferase 2, putative	Leishmania major	0.38	21	14.0	560	55072	5.58	other			
gi170905593	LmfF35.0030	pyruvate kinase, putative	Leishmania major strain Friedlin	0.38	19	18.2	822	54991	6.25	other			
gi157872115	LmfF30.0180	2-hydroxy-3-oxopropionate reductase, putative	Leishmania major	0.37	7	17.4	238	31338	5.56	other			
gi170905595	LmfF35.0050	2-oxoisovalerate dehydrogenase beta subunit, mitochondrial precursor, putative	Leishmania major strain Friedlin	0.36	10	13.7	205	40380	6.28	secreted	x		
gi157875174	LmfF33.2300	udp-glucose 4-epimerase, putative	Leishmania major	0.33	7	18.4	202	44043	6.06	other			
gi157867288	LmfF13.1060	NADH-cytochrome b5 reductase, putative	Leishmania major	0.33	6	12.7	105	34852	8.84	S		1	
gi157877193	LmfF36.3470	2-oxoglutarate dehydrogenase E1 component, putative	Leishmania major	0.31	22	14.5	459	111991	8.16	other			
gi157867201	LmfF16.0760	transaldolase, putative	Leishmania major	0.31	18	14.8	512	37225	5.4	other			
gi17079725	LmfF29.1830	dihydropyrimidine dehydrogenase, putative	Leishmania major strain Friedlin	0.31	8	15.0	226	56660	8.01	S		1	
gi176363832	LmfF04.1160	fructose-1,6-bisphosphatase, cytosolic	Leishmania major	0.29	12	10.0	280	38973	8.76	other			
gi157877007	LmfF36.2660	dihydropyrimidine acetyltransferase precursor, putative	Leishmania major	0.29	11	9.7	217	49062	7.91	secreted	x		
gi157867843	LmfF18.0680	citrate synthase, putative	Leishmania major	0.27	22	9.4	462	52695	6.71	other			
gi157868890	LmfF21.0640	phosphoglucomutase, putative	Leishmania major	0.27	12	13.2	235	64198	5.7	other			
gi157871455	LmfF26.2700	6-phosphogluconolactonase	Leishmania major	0.19	3	9.0	91	28655	5.47	other			
gi157873486	LmfF31.2650	ascorbic dehydrogenase e1 component-like protein	Leishmania major	0.18	9	13.1	167	81315	9.03	other			
gi157874337	LmfF32.3260	glucosamine-6-phosphate deaminase, putative	Leishmania major	0.17	6	9.0	172	31732	6.72	other			
gi157876249	LmfF34.3780	phosphomannomutase-like protein	Leishmania major	0.17	6	6.6	254	65480	7.02	other			
gi157869355	LmfF22.0780	NADH-cytochrome b5 reductase, putative	Leishmania major	0.17	4	11.1	121	32497	8.49	secreted	x		
gi170905885	LmfF35.3010	trypanothione-dependent glyoxalase I	Leishmania major strain Friedlin	0.16	2	7.8	81	16308	4.81	other			
gi157869618	LmfF23.0360	NADP-dependent alcohol dehydrogenase, putative	Leishmania major	0.14	4	12.5	109	38972	5.78	other			
gi157868872	LmfF21.0550	dihydropyrimidine acetyltransferase precursor-like protein	Leishmania major	0.13	9	6.9	326	40670	5.37	secreted	x		
gi157869632	LmfF23.0430	aldose 1-epimerase-like protein	Leishmania major	0.12	4	7.4	107	44494	5.33	other			
gi157864562	LmfF07.0805	N-acetylglucosamine-6-phosphate mutase, putative; N-acetylglucosamine-6-phosphate mutase, putative; N-acetylglucosamine-6-phosphate mutase, putative; N-acetylglucosamine-6-phosphate mutase, putative	Leishmania major	0.12	4	4.9	99	66327	5.56	other			x
gi157875229	LmfF33.2550	isocitrate dehydrogenase, putative	Leishmania major	0.11	3	4.5	136	46591	5.35	other			
gi157876471	LmfF36.0150	fructose-6-phosphate-2-kinase/fructose-2,6-bisphosphate-like protein	Leishmania major	0.09	3	4.1	58	56043	6.32	other			
gi157875019	LmfF33.1570	ribulose-5-phosphate 3-epimerase, putative	Leishmania major	0.09	2	3.1	83	28217	5.83	other			
gi157864338	LmfF06.1070	deoxyribose-phosphate aldolase, putative	Leishmania major	0.08	2	3.9	70	30368	6.25	other			
gi157872547	LmfF30.2090	alcohol dehydrogenase, putative	Leishmania major	0.06	2	2.3	85	43881	8.09	M			
<b>fatty acid metabolism</b>													
gi170799671	LmfF29.1310	camitine:choline acetyltransferase, putative	Leishmania major strain Friedlin	0.80	41	28.2	1337	68959	5.91	other			
gi157867821	LmfF18.0580	peroxisomal enoyl-CoA hydratase, putative	Leishmania major	0.65	17	22.3	856	34669	8.38	other			
gi157874955	LmfF33.0830	2,4-dienoyl-CoA reductase FadD1, putative	Leishmania major	0.56	28	17.8	678	79442	8.67	other			
gi157873275	LmfF31.1640	thiolase protein-like protein	Leishmania major	0.53	24	16.4	569	47260	8.97	M			
gi157873401	LmfF31.2250	3,2-trans-enoyl-CoA isomerase, mitochondrial precursor, putative	Leishmania major	0.50	22	20.5	552	43134	9.04	M			
gi157871219	LmfF26.1550	trifunctional enzyme alpha subunit, mitochondrial precursor-like protein	Leishmania major	0.46	37	16.1	1191	80132	8.89	other			
gi157870301	LmfF24.1840	lysophospholipase, putative	Leishmania major	0.38	8	18.0	304	30638	6.3	other			

gii1617559	LmfF01_0520	long chain fatty acyl CoA ligase, putative	Leishmania major strain Friedlin	0.34	19	14.4	428	78255	6.15	other			
gii157867709	LmfF18_0020	diphosphomevalonate decarboxylase, putative	Leishmania major	0.34	12	13.3	189	42802	5.93	other			
gii17079934	LmfF27_0290	acyl carrier protein, putative	Leishmania major strain Friedlin	0.34	2	12.0	53	16654	6.42	M			
gii157870341	LmfF24_2030	3-oxoacyl-(acyl-carrier protein) reductase, putative	Leishmania major	0.31	7	23.9	227	27307	9.06	secreted	x		
gii157869706	LmfF23_0690	3-ketoady-coa thiolase-like protein	Leishmania major	0.23	7	8.4	133	47885	6.86	other			
gii157865353	LmfF10_0510	glycerol-3-phosphate dehydrogenase (NAD+), glycosomal/mitochondrial	Leishmania major	0.21	8	9.0	159	39787	9.17	other		1	
gii157872891	LmfF30_3190	3-hydroxy-3-methylglutaryl-CoA reductase, putative	Leishmania major	0.18	7	8.8	194	46608	8.76	secreted	x		
gii170799372	LmfF29_2310	enoyl-CoA hydratase/isomerase-like protein	Leishmania major strain Friedlin	0.18	3	7.9	62	29248	8.94	other			
gii170905657	LmfF35_2730	acyl-CoA dehydrogenase, putative	Leishmania major strain Friedlin	0.18	3	7.3	73	44824	6.08	secreted	x		
gii157870772	LmfF25_1770	3-oxo-5-alpha-steroid 4-dehydrogenase, putative	Leishmania major	0.16	3	5.6	46	34414	9.59	other		2	
gii157867018	LmfF15_1460	phosphomevalonate kinase-like protein	Leishmania major	0.11	2	5.2	101	49773	5.77	secreted	x		
gii157878976	LmfF03_0230	long chain fatty acyl CoA synthetase, putative	Leishmania major	0.10	6	5.1	137	79923	8.44	other			
gii12266910	LmfF01_0470	fatty acyl CoA synthetase 1, putative	Leishmania major strain Friedlin	0.10	5	3.4	68	78541	5.86	other			
gii157876239	LmfF34_3740	serine palmitoyltransferase-like protein	Leishmania major	0.10	4	4.9	127	54229	6.65	A			
gii170905622	LmfF35_0320	serine palmitoyltransferase, putative	Leishmania major strain Friedlin	0.09	4	3.4	130	59352	8.32	other			
gii157871506	LmfF28_0240	glycerol-3-phosphate dehydrogenase, putative	Leishmania major	0.08	3	4.1	46	65597	8.46	other			
gii157869265	LmfF22_0310	cardiolin palmitoyltransferase-like protein	Leishmania major	0.07	3	2.7	28	75700	8.38	other			
gii157873048	LmfF31_0560	mevalonate kinase, putative	Leishmania major	0.07	2	2.7	33	35748	9.05	other			
gii157873171	LmfF31_1140	monoglyceride lipase, putative	Leishmania major	0.07	2	2.3	41	35014	5.93	other			
gii157865329	LmfF10_0420	dihydroxyacetone kinase 1-like protein	Leishmania major	0.04	2	2.7	87	61548	6.03	other			
gii157864540	LmfF07_0730	malonyl-coa decarboxylase-like protein	Leishmania major	0.03	2	1.5	94	86321	7.13	M			
gii157865140	LmfF09_1040	phospholipid:diacylglycerol acyltransferase, putative	Leishmania major	0.03	2	1.0	25	77610	8.65	other		1	
gii157864428	LmfF07_0200	phosphatidylglycerophosphate synthase-like protein	Leishmania major	0.03	1	0.9	26	82229	6.78	S	x	1	
<b>proteins of the respiratory chain / energy metabolism</b>													
gii157870644	LmfF25_1170	ATPase beta subunit, putative	Leishmania major	3.99	173	59.8	5816	56541	5.14	M			
gii157876225	LmfF34_3670	vacuolar ATP synthase catalytic subunit a, putative	Leishmania major	1.72	63	43.3	1587	88206	5.1	other			
gii157871956	LmfF28_2430	vacuolar ATP synthase subunit B, putative	Leishmania major	1.58	70	50.3	2075	55826	5.56	other			
gii157869180	LmfF21_1770	ATP synthase F1 subunit gamma protein, putative	Leishmania major	1.55	37	41.6	985	34683	9.29	other			
gii157863955	LmfF05_0510	ATPase alpha subunit	Leishmania major	1.06	87	28.2	1961	62794	9.73	M			
gii157877116	LmfF36_3100	ATP synthase, putative	Leishmania major	0.98	16	28.2	463	25278	8.35	other			
gii157864089	LmfF05_1140	vacuolar ATPase subunit-like protein	Leishmania major	0.61	18	28.9	509	42025	4.85	other			
gii157865903	LmfF12_0520	vacuolar ATP synthase subunit, putative	Leishmania major	0.58	4	19.7	84	15656	5.39	other			
gii170905738	LmfF35_1540	reiske iron-sulfur protein precursor, putative	Leishmania major strain Friedlin	0.55	16	21.2	242	34062	5.93	M		1	
gii157868007	LmfF18_1480	NADH:ubiquinone oxidoreductase 78 kD subunit-like protein	Leishmania major	0.53	5	17.8	159	29292	4.78	other			
gii170905946	LmfF35_3620	iron-sulfur cluster assembly protein, putative	Leishmania major strain Friedlin	0.51	4	24.2	111	17586	8.62	secreted	x		
gii157869614	LmfF23_0340	(H+)-ATPase G subunit, putative	Leishmania major	0.46	5	14.8	235	12379	8.89	other			
gii157873187	LmfF31_1220	vacuolar-type proton translocating pyrophosphatase 1, putative	Leishmania major	0.44	29	13.7	531	84195	5.11	S	x	15	
gii157872993	LmfF30_3600	ATP synthase epsilon chain, putative	Leishmania major	0.43	13	30.4	444	20429	5.93	other			
gii157864240	LmfF06_0610	cardiolin ATP synthase family protein, putative	Leishmania major	0.43	9	12.1	195	35025	7.22	other			
gii157869070	LmfF21_1340	ATP synthase, putative	Leishmania major	0.32	9	13.7	325	54410	5.76	other			
gii157877617	LmfF36_5380	NADH dehydrogenase, putative	Leishmania major	0.30	9	12.3	182	57739	9.34	secreted	x		
gii157864400	LmfF07_0060	cytochrome c1, heme protein, mitochondrial precursor, putative	Leishmania major	0.28	6	10.9	159	30030	7.05	other			
gii157868013	LmfF18_1510	F1-type H+-ATPase, putative	Leishmania major	0.18	24	9.7	792	108036	5.31	other		8	
gii157864520	LmfF07_0630	vacuolar-type Ca2+-ATPase, putative	Leishmania major	0.16	15	6.9	320	123085	5.78	other		8	
gii157869570	LmfF23_0130	vacuolar type H+-ATPase subunit, putative	Leishmania major	0.15	1	9.0	62	17259	8.65	S	x	4	
gii157867817	LmfF18_0560	vacuolar ATP synthase subunit c, putative	Leishmania major	0.11	2	7.5	128	47631	8.88	other			
gii157879116	LmfF03_0910	inorganic pyrophosphatase, putative	Leishmania major	0.10	1	9.7	45	25186	5.41	secreted	x		
gii170905801	LmfF04_0010	organellar-type calcium ATPase	Leishmania major strain Friedlin	0.05	4	2.1	122	112902	5.85	other		7	
gii157872205	LmfF30_0610	nitrate reductase, putative	Leishmania major	0.04	2	8.8	68	58448	6.21	other			
gii157869920	LmfF23_1510	vacuolar proton translocating ATPase subunit A, putative	Leishmania major	0.03	4	1.8	30	88226	5.01	other		6	
<b>protein biosynthesis</b>													
gii157867408	LmfF17_0080	elongation factor 1-alpha	Leishmania major	4.63	107	61.0	2217	49485	9.03	other			
gii157876477	LmfF36_0180	elongation factor 2	Leishmania major	2.71	149	49.1	3614	94928	5.77	other			
gii3002483	LmfF01_0780	eukaryotic initiation factor 4a, putative	Leishmania major strain Friedlin	1.29	45	44.4	1145	45356	5.83	other			
gii157065542	LmfF11_0100	seryl-tRNA synthetase, putative	Leishmania major	1.11	44	30.0	910	53050	5.29	other			
gii170800040	LmfF27_1310	arginyl-tRNA synthetase, putative	Leishmania major strain Friedlin	1.03	43	33.1	1193	78884	6.2	other			
gii157877110	LmfF36_3070	fibillarin	Leishmania major	0.84	8	23.1	219	25942	9.12	other			
gii157871932	LmfF28_2310	eukaryotic translation initiation factor, putative	Leishmania major	0.91	30	23.7	706	46592	5.01	other			
gii157879132	LmfF03_0960	elongation initiation factor 2 alpha subunit, putative	Leishmania major	0.83	16	21.3	422	49610	5.85	other			
gii157867853	LmfF18_0740	elongation factor TU, putative	Leishmania major	0.79	29	21.9	810	51903	6.96	other			
gii157878005	LmfF36_6980	eukaryotic translation initiation factor 3 subunit 8, putative	Leishmania major	0.74	54	22.6	1590	82437	5.96	other			
gii56554724	LmfF25_0720	Chain A, Structural Analysis Of Leishmania Mexicana Eukaryotic Initiation Factor 5a	Leishmania mexicana	0.67	13	17.2	410	18855	5.43	other			
gii170905726	LmfF35_1410	threonyl-tRNA synthetase, putative	Leishmania major strain Friedlin	0.66	28	25.7	624	90208	6.44	other			
gii157865126	LmfF09_0970	elongation factor-1 gamma	Leishmania major	0.63	27	23.3	486	46548	5.39	other			
gii157865146	LmfF09_1070	eukaryotic translation initiation factor 2 subunit, putative	Leishmania major	0.53	19	19.4	363	53102	6.61	other			
gii157867014	LmfF15_1440	glutamyl-tRNA synthetase, putative	Leishmania major	0.52	21	21.6	441	66604	6.5	other			
gii157872175	LmfF30_0460	asparlyl-tRNA synthetase, putative	Leishmania major	0.50	24	19.8	418	62676	6.91	other			
gii157875467	LmfF34_0350	eukaryotic translation initiation factor 5, putative	Leishmania major	0.50	11	16.7	180	43294	8.28	other			
gii15787297	LmfF36_3860	eukaryotic translation initiation factor 3 subunit, putative	Leishmania major	0.47	17	19.8	478	45691	5.83	secreted	x		
gii157876632	LmfF36_0890	Eukaryotic translation initiation factor 6 (eIF-6), putative	Leishmania major	0.43	6	15.7	143	27454	5.05	other			
gii157872813	LmfF30_3240	glutamyl-tRNA synthetase, putative	Leishmania major	0.40	17	17.5	475	68033	8.85	secreted	x		
gii170799541	LmfF29_0060	tryptophanyl-tRNA synthetase, putative	Leishmania major strain Friedlin	0.38	14	11.5	495	55223	8.72	secreted	x		
gii157865847	LmfF12_0250	cysteinyl-tRNA synthetase, putative	Leishmania major	0.37	25	21.9	449	88887	5.73	other			
gii157877289	LmfF36_3840	glycyl-tRNA synthetase, putative	Leishmania major	0.33	23	16.7	388	71086	5.65	other			
gii157877898	LmfF36_5620	isoleucyl-tRNA synthetase, putative	Leishmania major	0.30	26	12.4	675	126420	5.97	other			
gii157869507	LmfF22_1540	alanyl-tRNA synthetase, putative	Leishmania major	0.30	25	13.2	756	106882	5.61	other			
gii157869553	LmfF14_1160	poly(A) polymerase, putative, polynucleotide adenylyltransferase, putative	Leishmania major	0.30	9	14.9	171	76878	6.87	other			
gii157867075	LmfF16_0140	eukaryotic translation initiation factor 1A, putative	Leishmania major	0.30	2	17.9	89	18680	4.88	other			
gii157862986	LmfF13_1100	leucyl-tRNA synthetase, putative	Leishmania major	0.28	21	12.5	534	123061	5.9	other			
gii157864751	LmfF08_0550	translation initiation factor-like protein	Leishmania major	0.22	5	10.7	55	38302	5.12	other			
gii157875576	LmfF34_0840	elongation factor 1-beta	Leishmania major	0.21	5	9.7	121	25630	5.15	other			
gii157865752	LmfF11_1170	eukaryotic release factor 3, putative	Leishmania major	0.20	7	9.2	126	84558	7.6	other			

gii157865443	LmjF10.0950	eIF-2B GDP-GTP exchange factor, putative; translation initiation factor eIF-2B beta subunit, putative	Leishmania major	0.19	7	12.2	172	57915	5.44	other		
gii157871774	LmjF28.1530	DEAD box RNA helicase, putative	Leishmania major	0.19	4	7.5	87	44312	6.39	other		
gii157872768	LmjF30.3040	eukaryotic translation initiation factor 3 subunit 7-like protein	Leishmania major	0.18	13	11.1	356	61436	5.09	other		
gii157874679	LmjF33.0310	ATP-binding cassette protein, putative	Leishmania major	0.18	9	9.3	130	74983	5.27	other		
gii170900027	LmjF27.1210	translation initiation factor eIF2B subunit-like protein, putative	Leishmania major strain Friedlin	0.18	5	9.9	112	80724	9.37	other		
gii157866208	LmjF19.0600	ABC transporter, putative	Leishmania major	0.16	7	10.8	201	69016	5.34	other		
gii157872798	LmjF30.3130	vaH1-IRNA synthetase, putative	Leishmania major	0.15	9	7.3	210	110365	6.18	other		
gii157872209	LmjF30.0630	histidyl-IRNA synthetase, putative	Leishmania major	0.15	5	6.8	69	53382	5.69	other		
gii157866671	LmjF14.1270	ubiquitin/ribosomal protein S27a, putative	Leishmania major	0.15	4	8.6	158	17303	9.55	other		
gii157865797	LmjF12.0010	translation initiation factor eIF-2B alpha subunit, putative	Leishmania major	0.14	2	7.4	67	38095	5.7	S	x	1
gii157875933	LmjF34.2340	asparaginyl-trna synthetase, putative	Leishmania major	0.13	6	8.3	144	100511	7.81	M		
gii157876566	LmjF36.0570	Mitochondrial elongation factor G, putative	Leishmania major	0.13	6	5.9	146	84556	6.23	M		
gii157866268	LmjF19.1040	phenylalanyl-IRNA synthetase, putative	Leishmania major	0.11	6	6.2	185	71523	5.54	other		
gii157863606	LmjF23.0300	tryptophanyl-IRNA synthetase, putative	Leishmania major	0.11	5	7.8	154	46683	9.56	other		
gii157873903	LmjF32.0870	phenylalanyl-IRNA synthetase alpha chain, putative	Leishmania major	0.09	2	5.4	73	56530	7.25	other		
gii157866772	LmjF15.0230	lysyl-IRNA synthetase, putative	Leishmania major	0.08	4	4.9	84	67393	6.11	other		
gii157866691	LmjF14.1370	tyrosyl-IRNA synthetase, putative	Leishmania major	0.07	4	3.7	149	75828	5.54	other		
gii157870834	LmjF25.2080	elongation factor 2-like protein	Leishmania major	0.05	2	2.8	56	98957	5.56	other		
gii157878962	LmjF03.0160	ABC transporter protein, putative	Leishmania major	0.03	2	2.3	33	82689	5.94	other		
<b>ribosomal protein</b>												
gii157876642	LmjF36.0940	60S ribosomal protein S18, putative	Leishmania major	3.56	32	46.4	452	17497	10.54	other		
gii157867831	LmjF18.0620	60S ribosomal protein L10a, putative	Leishmania major	1.96	43	26.6	1669	24970	9.61	other		
gii170905630	LmjF35.0410	40S ribosomal protein S3a, putative	Leishmania major strain Friedlin	1.91	32	42.4	1160	30217	10.3	other		
gii157866320	LmjF13.1230	40S ribosomal protein S4, putative	Leishmania major	1.85	36	37.7	989	30834	10.34	other		
gii157865716	LmjF11.0960	40S ribosomal protein S5, putative	Leishmania major	1.79	24	39.5	740	21395	10.16	other		
gii157871085	LmjF26.0890	40S ribosomal protein S16, putative	Leishmania major	1.74	27	51.0	671	16791	10.17	other		
gii17070722	LmjF20.1800	40S ribosomal protein S15a, putative	Leishmania major strain Friedlin	1.63	10	46.5	241	14858	9.99	other		
gii157866190	LmjF13.0570	40S ribosomal protein S12, putative	Leishmania major	1.48	18	42.6	432	15826	4.77	other		
gii157877540	LmjF36.5120	40S ribosomal protein S9, putative	Leishmania major	1.44	46	26.0	737	27767	7.87	other		
gii157867022	LmjF15.1470	NPH2RS6-like protein, ribosomal protein S6, putative	Leishmania major	1.41	22	33.3	767	13564	6.58	other		
gii157866908	LmjF15.0950	40S ribosomal protein S3, putative	Leishmania major	1.22	15	32.9	243	24741	9.92	other		
gii157871666	LmjF28.1030	ribosomal protein s20, putative	Leishmania major	1.06	13	44.8	215	13060	9.86	other		
gii157871235	LmjF26.1630	40S ribosomal protein S33, putative	Leishmania major	1.03	6	50.6	141	9797	9.8	other		
gii157864492	LmjF07.0500	60S ribosomal protein L7a, putative	Leishmania major	0.94	26	25.0	920	29860	10.93	other		
gii170905963	LmjF35.3800	60S ribosomal protein L23, putative	Leishmania major strain Friedlin	0.89	6	38.1	187	15118	10.11	other		
gii157871910	LmjF28.2205	ribosomal protein S29, putative	Leishmania major	0.89	2	33.3	61	6963	9.87	other		
gii157866960	LmjF15.1203	60S acidic ribosomal protein P2	Leishmania major	0.88	6	33.3	233	11048	4.23	secreted	x	
gii170905785	LmjF21.1780	40S ribosomal protein S6, putative	Leishmania major strain Friedlin	0.84	12	22.9	193	28344	11.45	other		
gii176363750	LmjF04.0950	60S ribosomal protein L10	Leishmania major	0.81	23	31.5	521	24940	10.76	other		
gii170799787	LmjF29.2460	60S ribosomal protein L13, putative	Leishmania major strain Friedlin	0.81	15	24.1	277	24906	10.8	other		
gii170905771	LmjF35.1900	60S ribosomal protein L5, putative	Leishmania major strain Friedlin	0.80	31	19.3	671	34021	10.04	other		
gii170905648	LmjF32.0880	60S ribosomal protein L18a, putative	Leishmania major strain Friedlin	0.80	13	26.9	367	20908	10.31	other		
gii170905751	LmjF24.2050	60S ribosomal protein L26, putative	Leishmania major strain Friedlin	0.80	7	25.2	103	16280	10.81	M		
gii170905775	LmjF35.1920	60S ribosomal protein L36, putative	Leishmania major strain Friedlin	0.80	6	13.2	132	11942	11.26	other		
gii157869010	LmjF21.1050	60S ribosomal protein L9, putative	Leishmania major	0.75	11	23.2	191	21771	9.88	other		
gii176363693	LmjF22.0030	60S ribosomal protein L11 (L5, L16)	Leishmania major strain Friedlin	0.75	9	28.2	140	21917	10.02	other		
gii157868126	LmjF19.0390	40S ribosomal protein S13, putative	Leishmania major	0.74	11	26.5	191	17491	11.03	M		
gii157864530	LmjF07.0680	40S ribosomal protein S9, putative	Leishmania major	0.73	10	20.0	116	22299	10.65	other		
gii157874205	LmjF32.2710	ribosomal protein L27, putative	Leishmania major	0.59	7	23.9	171	15425	11.71	other		
gii157871656	LmjF28.0960	40S ribosomal protein S14	Leishmania major	0.58	8	31.2	228	15697	10.25	other		
gii157868717	LmjF21.1550	ribosomal protein s11 homolog	Leishmania major	0.55	6	24.1	70	16473	10.89	other		
gii157868060	LmjF19.0060	40S ribosomal protein S2	Leishmania major	0.54	21	24.2	476	28900	9.53	other		
gii170905729	LmjF32.3900	60S ribosomal protein L2, putative	Leishmania major strain Friedlin	0.54	17	21.5	303	28597	10.7	other		
gii12266902	LmjF01.0410	ribosomal protein S7, putative	Leishmania major strain Friedlin	0.51	9	21.5	190	23813	11.09	other		
gii170905614	LmjF35.0240	60S ribosomal protein L30	Leishmania major strain Friedlin	0.50	5	23.1	211	11573	9.7	other		
gii157877464	LmjF36.4650	60S acidic ribosomal protein, putative	Leishmania major	0.47	8	22.5	138	25398	9.6	other		
gii157869943	LmjF24.0040	60S ribosomal protein L17, putative	Leishmania major	0.46	5	19.9	147	19299	10.67	other		
gii157869503	LmjF22.1560	40S ribosomal protein L14, putative	Leishmania major	0.44	8	12.6	184	20116	10.46	other		
gii170799648	LmjF29.1080	ribosomal protein L1a, putative	Leishmania major strain Friedlin	0.38	12	12.3	254	46825	9.38	other		
gii157871381	LmjF26.2330	60S ribosomal protein L35, putative	Leishmania major	0.37	7	22.0	149	15269	11.31	other		
gii157864231	LmjF36.0560	60S ribosomal protein L29a, putative	Leishmania major	0.34	5	11.0	97	16326	10.33	other		
gii157871984	LmjF28.2560	40S ribosomal protein S17, putative	Leishmania major	0.34	4	11.0	58	16502	10.83	other		
gii157865255	LmjF10.0070	ribosomal protein L35a, putative	Leishmania major	0.34	4	10.4	40	16558	11.76	other		
gii157865744	LmjF11.1130	60S ribosomal protein L28, putative	Leishmania major	0.34	4	10.2	103	16439	11.7	other		
gii170800047	LmjF27.1390	60S acidic ribosomal subunit protein, putative	Leishmania major strain Friedlin	0.33	6	14.6	102	35071	5.01	other		
gii157866762	LmjF15.0200	60S ribosomal protein L13a, putative	Leishmania major	0.33	6	12.6	157	25604	10.75	other		
gii157869287	LmjF22.0420	40S ribosomal protein S15, putative	Leishmania major	0.32	2	10.5	89	17424	10.17	other		
gii157867139	LmjF16.0460	60S ribosomal protein L21, putative	Leishmania major	0.31	8	19.5	191	18132	10.53	other		
gii170799627	LmjF29.2890	40S ribosomal protein S19-like protein	Leishmania major strain Friedlin	0.30	7	22.4	101	18290	10.82	other		
gii157870947	LmjF26.0170	60S ribosomal protein L7, putative	Leishmania major	0.29	7	10.3	167	28040	10.5	other		
gii170906091	LmjF35.5100	60S ribosomal protein L37	Leishmania major strain Friedlin	0.28	3	10.3	63	9408	11.75	other		
gii157864193	LmjF06.0410	60S ribosomal protein L19, putative	Leishmania major	0.28	3	7.1	41	30517	11.37	other		
gii157866918	LmjF15.1000	60S ribosomal protein L6, putative	Leishmania major	0.26	4	9.2	123	21099	10.52	other		
gii157868800	LmjF15.0380	60S acidic ribosomal protein, putative	Leishmania major	0.26	3	10.2	166	10256	3.99	secreted	x	
gii157877258	LmjF36.3750	40S ribosomal protein S27-1, putative	Leishmania major	0.26	2	18.6	87	10135	9.74	other		
gii157869190	LmjF21.1820	60S ribosomal protein L37a, putative	Leishmania major	0.25	4	19.6	193	10535	11.23	other		
gii157872918	LmjF30.3720	60S acidic ribosomal protein P2, putative	Leishmania major	0.25	4	7.5	85	10675	4.34	secreted	x	
gii157879015	LmjF03.0440	60S acidic ribosomal protein P2, putative	Leishmania major	0.23	1	14.4	27	11192	4.4	secreted	x	
gii157870349	LmjF24.2070	40S ribosomal protein S6, putative	Leishmania major	0.22	9	11.4	243	24864	11.26	other		
gii157876669	LmjF36.1100	ribosomal protein L24, putative	Leishmania major	0.18	3	11.3	131	14876	11.61	other		
gii157874311	LmjF32.3130	ribosomal protein L3, putative	Leishmania major	0.17	7	9.8	274	47743	11.05	other		
gii157877066	LmjF36.2870	40S ribosomal protein S24e	Leishmania major	0.16	3	10.9	192	15874	11.06	other		



gii70905960	LmfF35.3780	60S ribosomal protein L27A/L29, putative	Leishmania major strain Friedlin	0.16	2	11.0	30	16259	10.44	other		
gii70905804	LmfF35.2190	60S ribosomal protein L12, putative	Leishmania major strain Friedlin	0.15	5	9.1	119	17698	9.82	other		
gii70905969	LmfF35.3850	30S Ribosomal protein S17-like protein	Leishmania major strain Friedlin	0.15	4	7.1	140	36051	9.76	other		
gii157867991	LmfF18.1400	60S ribosomal protein L34, putative	Leishmania major	0.13	2	4.8	41	19323	11.78	other		
gii157867079	LmfF16.0160	50S ribosomal protein L17, putative	Leishmania major	0.07	2	3.6	83	35746	8.87	M		
<b>protein degradation</b>												
gii157869166	LmfF21.1700	proteasome alpha 2 subunit, putative	Leishmania major	2.54	36	43.3	1188	25309	5.65	other		
gii157866589	LmfF14.0850	calpain-like cysteine peptidase, putative, cysteine peptidase, Clan CA, family C2, putative	Leishmania major	1.99	20	49.6	458	13042	4.7	other		
gii170905716	LmfF35.1300	Ubiquitin-conjugating enzyme E2, putative	Leishmania major strain Friedlin	1.74	18	62.2	549	16755	6.08	other		
gii170799824	LmfF27.0190	proteasome alpha 7 subunit, putative	Leishmania major strain Friedlin	1.58	21	26.9	615	26017	5.99	other		
gii157873328	LmfF31.1900	ubiquitin-fusion protein	Leishmania major	1.22	18	36.7	372	14958	9.91	other		
gii157865570	LmfF11.0240	proteasome alpha 7 subunit, putative	Leishmania major	1.22	18	31.2	472	27997	5.85	other		
gii157876781	LmfF36.1600	proteasome alpha 1 subunit, putative	Leishmania major	1.12	16	37.6	620	29696	5.19	other		
gii157865839	LmfF12.0210	proteasome regulatory ATPase subunit c118_3, putative	Leishmania major	1.03	31	35.0	987	46064	8.18	secreted	x	
gii157868918	LmfF21.0760	19S proteasome regulatory subunit, proteasome regulatory non-ATP-ase subunit 5, putative	Leishmania major	1.00	29	25.1	617	54638	5.91	other		
gii157869313	LmfF22.0570	proteasome regulatory ATPase subunit 1, putative	Leishmania major	0.94	25	35.0	420	49332	5.96	other		
gii157869192	LmfF21.1830	20S proteasome subunit alpha 5, putative, proteasome alpha 5 subunit, putative	Leishmania major	0.90	13	40.2	322	26881	5.35	other		
gii157873695	LmfF32.0390	26S proteasome regulatory subunit, putative, proteasome regulatory non-ATP-ase subunit 8, putative	Leishmania major	0.86	20	29.5	668	40300	5.49	other		
gii176363736	LmfF04.0680	ubiquitin-conjugating enzyme E2	Leishmania major	0.75	7	34.5	164	17210	8.4	other		
gii9560	LmfF10.0470	metalloprotease gp63	Leishmania mexicana	0.72	58	24.1	1105	70321	6.32	S	x	2
gii70906068	LmfF35.4850	proteasome alpha 1 subunit, putative	Leishmania major strain Friedlin	0.71	14	26.0	663	27548	6.84	other		
gii170799547	LmfF29.0120	proteasome regulatory non-ATPase subunit, putative	Leishmania major strain Friedlin	0.70	49	21.8	1338	100288	4.96	other		
gii157868080	LmfF19.0160	aminopeptidase, putative, metallo-peptidase, Clan MG, Family M24	Leishmania major	0.69	28	21.1	846	43006	5.68	other		
gii157875880	LmfF34.2125	ubiquitin-like protein	Leishmania major	0.68	4	28.8	110	8722	6.04	other		
gii157865801	LmfF12.0030	proteasome beta-1 subunit, putative	Leishmania major	0.62	19	20.8	435	30710	6.81	other		
gii170905723	LmfF35.1360	metallo-peptidase, Clan ME, Family M16	Leishmania major strain Friedlin	0.59	26	25.1	629	55015	6.36	M		
gii1280917	LmfF01.0650	metallo-peptidase, Clan ME, Family M16	Leishmania major strain Friedlin	0.57	20	19.4	372	55570	8.12	secreted	x	
gii157879038	LmfF03.0540	serine peptidase, Clan SJ, family S16, putative	Leishmania major	0.57	13	29.8	290	44498	8.76	other		
gii157866094	LmfF13.0090	carboxypeptidase, putative, metallo-peptidase, Clan MA(E), family 32	Leishmania major	0.55	27	15.5	628	57453	5.67	other		
gii157877405	LmfF36.4380	proteasome regulatory ATPase subunit	Leishmania major	0.55	19	22.9	407	45762	9.08	other		
gii157868930	LmfF21.0340	metallo-peptidase, Clan ME, Family M16; mitochondrial processing peptidase alpha subunit, putative	Leishmania major	0.55	16	22.9	464	51605	7.3	other		
gii157874235	LmfF32.2820	proteasome regulatory non-ATP-ase subunit, putative	Leishmania major	0.54	18	18.4	458	46798	5.12	other		
gii157869323	LmfF22.0620	proteasome regulatory ATPase subunit 5, putative	Leishmania major	0.50	18	20.0	438	49731	5.67	other		
gii157873871	LmfF32.1200	proteasome regulatory non-ATP-ase subunit, putative	Leishmania major	0.49	6	21.5	102	31308	5.21	other		
gii157871223	LmfF26.1570	metallo-peptidase, Clan MA(E), Family M3, hithel oligopeptidase, putative	Leishmania major	0.48	40	17.8	604	77775	5.56	other		
gii157875225	LmfF33.2540	carboxypeptidase, putative, metallo-peptidase, Clan MA(E), Family M32	Leishmania major	0.48	17	21.0	316	57470	5.55	other		
gii170905820	LmfF35.2350	metallo-peptidase, Clan MG, Family M24	Leishmania major strain Friedlin	0.45	19	16.7	427	54667	5.56	other		
gii157873939	LmfF32.1500	ATP-dependent zinc metallopeptidase, putative, metallo-peptidase, Clan MA(E), Family M41	Leishmania major	0.43	17	16.0	507	78431	8.52	other		1
gii157866294	LmfF13.1080	proteasome regulatory ATPase subunit 2, putative	Leishmania major	0.43	12	18.9	315	49544	5.62	other		
gii157875536	LmfF34.0650	19S proteasome regulatory subunit, Metallo-peptidase, Clan MP, Family M67; proteasome regulatory non-ATP-ase subunit 11, putative	Leishmania major	0.43	11	14.9	186	34745	6.52	other		
gii170905968	LmfF35.3840	proteasome beta 2 subunit, putative	Leishmania major strain Friedlin	0.43	6	14.6	100	27847	6.55	other		
gii1728802	LmfF29.0820	cathepsin B-like enzyme	Leishmania mexicana	0.39	17	17.4	498	38031	5.58	S	x	1
gii157867690	LmfF17.1400	otubain cysteine peptidase, Clan CA, family C65, putative; otubain, putative	Leishmania major	0.39	5	10.0	82	30447	4.64	other	x	
gii19573	LmfF19.1420	cysteine proteinase	Leishmania mexicana	0.38	16	15.3	191	39176	6.3	S	x	1
gii157876510	LmfF36.0320	proteasome beta 2 subunit, putative	Leishmania major	0.37	6	13.1	227	23557	6.05	other		
gii157868661	LmfF20.1310	calpain-like cysteine peptidase, Clan CA, family C2; calpain-like cysteine peptidase, putative	Leishmania major	0.37	2	13.7	35	15150	5.27	other		
gii157866477	LmfF14.0310	proteasome alpha 3 subunit, putative	Leishmania major	0.36	15	20.7	324	32347	5.33	other		
gii170900034	LmfF27.1270	cysteine peptidase, Clan CA, family C19, putative	Leishmania major strain Friedlin	0.36	11	15.1	337	66131	7.49	other		
gii170799791	LmfF29.2500	serine peptidase, Clan SJ, family S16, putative	Leishmania major strain Friedlin	0.35	8	15.1	181	50108	6.33	other		
gii157866392	LmfF13.1580	ubiquitin-conjugating enzyme-like protein	Leishmania major	0.35	6	19.6	147	16228	5.93	other		
gii157865086	LmfF09.0770	oligopeptidase b, serine peptidase, clan SC, family S9A-like protein	Leishmania major	0.31	14	2.84	284	83577	5.6	other		
gii157864052	LmfF05.0960	dipeptidyl-peptidase III, putative, metallo-peptidase, Clan M, Family M49	Leishmania major	0.30	16	13.8	331	76262	5.3	other		
gii157864139	LmfF06.0140	20S proteasome beta 6 subunit, putative, proteasome beta 6 subunit, putative	Leishmania major	0.30	10	10.5	275	28120	6.5	other		
gii157875030	LmfF33.1610	peptidase M20/M25/M40, putative	Leishmania major	0.27	14	10.8	425	51938	5.45	other		
gii157865646	LmfF11.0620	aminopeptidase, putative, metallo-peptidase, Clan MF, Family M17	Leishmania major	0.27	9	10.3	177	31655	5.91	other		
gii157868390	LmfF19.1590	ATP-dependent zinc metallopeptidase, putative, metallo-peptidase, Clan MA(E), Family M41	Leishmania major	0.26	9	16.9	244	64773	6.67	other		1
gii170905990	LmfF35.3060	ubiquitin-activating enzyme E1, putative	Leishmania major strain Friedlin	0.25	23	11.0	439	127267	5.33	other		
gii157876309	LmfF34.4060	cysteine peptidase, Clan CA, family C19, putative, ubiquitin hydrolase, putative	Leishmania major	0.25	21	10.3	496	103488	5.32	other		
gii157869156	LmfF19.0650	metallo-peptidase, Clan MG, Family M24, methionine aminopeptidase, putative	Leishmania major	0.25	7	10.5	165	45637	5.98	other		
gii157870017	LmfF24.0420	cysteine peptidase, Clan CA, family C12, putative, ubiquitin carboxyl-terminal hydrolase, putative	Leishmania major	0.24	9	12.1	291	34709	5.03	other		
gii157868284	LmfF19.1120	proteasome regulatory non-ATP-ase subunit, putative	Leishmania major	0.24	7	11.2	174	46806	6.25	other		
gii157871480	LmfF28.0110	proteasome beta 3 subunit, putative	Leishmania major	0.24	6	12.2	137	22790	5.34	other		
gii157877319	LmfF36.3990	hst1v complex proteolytic subunit-like; hst1v complex proteolytic subunit-like, threonine peptidase, Clan T(1), family T1B	Leishmania major	0.23	6	13.6	101	23449	5.7	M		
gii157877424	LmfF36.4450	metallo-peptidase, Clan MA(E), Family M3, mitochondrial intermediate peptidase, putative	Leishmania major	0.22	9	11.8	409	76820	6.09	M		
gii157876370	LmfF34.4460	20S proteasome beta 7 subunit, putative	Leishmania major	0.22	7	12.7	175	25134	5.04	other		
gii157875245	LmfF33.2610	metallo-peptidase, Clan ME, Family M16; mitochondrial processing peptidase alpha subunit, putative	Leishmania major	0.21	6	9.5	252	53307	6.53	other		
gii170799765	LmfF29.2240	metallo-peptidase, Clan MA(E), Family M1	Leishmania major strain Friedlin	0.20	21	9.8	598	87298	5.79	other		
gii157871812	LmfF28.1730	proteasome regulatory non-ATP-ase subunit 2, putative	Leishmania major	0.18	14	9.5	372	106729	5.39	secreted	x	
gii157866982	LmfF15.1300	cysteine peptidase, Clan CA, family C19, putative, ubiquitin hydrolase, putative	Leishmania major	0.18	12	9.3	451	156600	5.47	other		
gii157869678	LmfF23.0550	ubiquitin-activating enzyme E1, putative	Leishmania major	0.17	17	12.1	223	116186	5.68	other		
gii157868942	LmfF21.0840	methionine aminopeptidase 2, putative	Leishmania major	0.16	6	10.3	102	51427	6.51	other		
gii170799777	LmfF29.2360	metallo-peptidase, Clan MH, Family M20	Leishmania major strain Friedlin	0.16	3	8.6	55	50268	6.14	other	x	
gii157873595	LmfF31.3090	metallo-peptidase, Clan ME, Family M18, peptidase, putative	Leishmania major	0.15	18	5.7	372	125103	5.2	secreted	x	
gii157873992	LmfF36.6420	ubiquitin fusion degradation protein, putative	Leishmania major	0.15	5	11.9	119	34744	8.4	other		
gii157864428	LmfF07.1120	proteasome regulatory non-ATP-ase subunit, putative	Leishmania major	0.15	2	8.4	121	36894	4.31	other		
gii157864408	LmfF07.0100	metallo-peptidase, Clan ME, Family M18C; ptilinysin-like metalloprotease	Leishmania major	0.14	11	7.4	253	116461	5.83	M		
gii3006219	LmfF01.0830	metallo-peptidase, Clan MA(E), Family M3	Leishmania major strain Friedlin	0.14	8	6.6	383	76682	5.75	other		
gii157877952	LmfF36.6750	prolyl oligopeptidase, putative, serine peptidase clan SC, family S9A, putative	Leishmania major	0.14	7	5.9	146	78555	5.59	other		

gii157866250	LmfF13.0870	metallo-peptidase, Clan ME, Family M16; mitochondrial processing peptidase alpha subunit, putative	Leishmania major	0.14	7		4.0	176	58169	7.66	secreted	x			
gii170800055	LmfF27.1460	proteasome regulatory non-ATP-ase subunit 3, putative	Leishmania major strain Friedlin	0.14	5	11.1	1.32	38248	6.19	other					
gii157872131	LmfF30.0250	cysteine peptidase, Clan CA, family C19, putative; ubiquitin hydrolase, putative	Leishmania major	0.13	8	7.4	1.68	126999	5.2	other					
gii157869758	LmfF23.0950	cytosolic leucyl aminopeptidase; metallo-peptidase, Clan MF, Family M17	Leishmania major	0.13	6	10.1	1.67	80628	9.21	M					
gii157864388	LmfF07.0010	ubiquitin activating E1 enzyme, putative	Leishmania major	0.13	5	7.2	1.06	80151	5.95	other					
gii157867529	LmfF18.0610	ATP-dependent zinc metallopeptidase, putative; metallo-peptidase, Clan MA(E), Family M41	Leishmania major	0.12	9		293	65040	5.98	other		1			
gii170799771	LmfF28.2300	cysteine peptidase, Clan CA, family C19, putative	Leishmania major strain Friedlin	0.10	7	4.9	1.68	83679	5.46	other					
gii157871856	LmfF28.1950	X-pro, dipeptidyl-peptidase, serine peptidase, Clan SC, family S15, putative	Leishmania major	0.10	5	3.5	91	77327	5.68	other					
gii157868553	LmfF12.0280	ornithine decarboxylase, putative	Leishmania major	0.10	4	3.4	156	78352	5.62	other					
gii157870442	LmfF25.0190	cysteine peptidase, Clan CA, family C12, putative; ubiquitin carboxyl-terminal hydrolase, putative	Leishmania major	0.10	3	6.9	191	25390	5.02	other					
gii157875235	LmfF33.2570	aminopeptidase, putative; metallo-peptidase, Clan MF, Family M17	Leishmania major	0.09	3	6.8	77	56747	6.87	other					
gii2266923	LmfF01.0710	ubiquitin activating enzyme, putative	Leishmania major strain Friedlin	0.09	2	4.8	54	58356	5.49	secreted	x				
gii170799955	LmfF27.0500	cysteine peptidase, Clan CA, family C2, putative	Leishmania major strain Friedlin	0.08	31	4.1	717	702676	5.14	other					
gii171745892	LmfF02.0040	metallo-peptidase, Clan MG, Family M24	Leishmania major	0.08	3	6.3	81	69481	5.84	secreted	x				
gii157872333	LmfF30.1200	cysteine peptidase, Clan CA, family C19, putative; ubiquitin hydrolase, putative	Leishmania major	0.07	5	2.2	140	112417	6.71	other					
gii157872945	LmfF31.0100	O-sialoylprotein endopeptidase, putative; metallo-peptidase, Clan MK, Family M67	Leishmania major	0.06	2	3.3	61	40358	7.6	other					
gii170905987	LmfF35.4020	Serine peptidase, Clan SC, Family S09X	Leishmania major strain Friedlin	0.06	1	4.1	43	43338	6.25	A		1			
gii157867440	LmfF17.0140	peptidase T, putative; peptidase T, putative; metallo-peptidase, ClanMH, family M20B	Leishmania major	0.05	5	7.1	73	47560	5.87	other					
gii157873010	LmfF31.0390	calpain-like cysteine peptidase, putative; cysteine peptidase, Clan CA, family C2, putative	Leishmania major	0.05	5	5.6	85	97703	5.08	secreted	x				
gii157870975	LmfF26.0300	aminopeptidase-like protein; metallo-peptidase, Clan MA(E), Family M1	Leishmania major	0.05	3	2.8	165	98829	5.57	other					
gii157876957	LmfF36.2420	dipeptidyl-peptidase 8-like serine peptidase, putative; serine peptidase, Clan SC, Family S9B	Leishmania major	0.05	3	2.5	86	95110	5.59	other					
gii157873079	LmfF31.0700	ATP-dependent zinc metallopeptidase, putative; metallo-peptidase, Clan MA(E), Family M41	Leishmania major	0.05	2	2.4	78	96592	6.37	other		2			
gii157867795	LmfF18.0450	serine carboxypeptidase (CBP1), putative; serine peptidase, Clan SC, Family S10	Leishmania major	0.05	2	1.9	92	52480	5.25	S	x	1		x	
gii157866451	LmfF14.0180	carboxypeptidase, putative; metallo-peptidase, Clan MA(E), Family M32	Leishmania major	0.04	3	3.4	44	57448	5.74	other					
gii157877019	LmfF36.2710	metallo-peptidase, Clan MA(E), Family M41; mitochondrial ATP-dependent zinc metallopeptidase, putative	Leishmania major	0.04	1	3.2	71	62434	5.51	A		1			
gii170799943	LmfF27.0380	serine peptidase, Clan SP, family S59, putative	Leishmania major strain Friedlin	0.03	2	1.2	64	160261	6.69	other					
gii157876041	LmfF34.2810	metallo-peptidase, Clan MC, Family M14; zinc carboxypeptidase, putative	Leishmania major	0.03	2	1.2	90	91288	9.04	other					
gii157874255	LmfF32.2910	cysteine peptidase, Clan CA, family C19, putative; ubiquitin hydrolase, putative	Leishmania major	0.02	3	1.0	176	149983	5.24	other					
gii157865080	LmfF09.0740	ubiquitin ligase, putative	Leishmania major	0.02	2	0.9	47	244911	6.14	other					
gii157864444	LmfF07.0280	ubiquitin-protein ligase-like, putative	Leishmania major	0.01	5	0.7	47	673904	5.56	other					
gii157867195	LmfF16.0730	cysteine peptidase, Clan CA, family C19, putative; ubiquitin hydrolase, putative	Leishmania major	0.01	1	0.7	47	203630	6.04	other					
<b>amino acid metabolism</b>															
gii157863720	LmfF06.0370	glutamine synthetase	Leishmania mexicana	1.87	53		44.9	1493	42893	5.71	other				
gii157877303	LmfF36.3910	S-sialoylhomocysteine hydrolase	Leishmania major	1.42	44	32.3	975	48125	5.72	other					
gii157872056	LmfF28.2910	glutamate dehydrogenase, putative	Leishmania major	1.37	78		2348	49669	6.29	other					
gii157877218	LmfF36.3590	cysteine synthase, putative	Leishmania major	1.31	32		996	35713	6.55	other					
gii157870007	LmfF24.0370	aspartate aminotransferase, putative	Leishmania major	0.87	26	28.8	604	48193	8.27	secreted	x				
gii157867155	LmfF16.0540	aspartate carbamoyltransferase, putative	Leishmania major	0.64	14	18.3	509	35432	6.21	other					
gii157878970	LmfF03.0200	delta-1-pyrroline-5-carboxylate dehydrogenase, putative	Leishmania major	0.62	28	24.1	895	62658	8.25	other					
gii157865640	LmfF11.0590	3-methylcrotonyl-CoA carboxylase beta subunit, putative	Leishmania major	0.54	14	25.7	348	58829	8.57	other					
gii157869088	LmfF21.1430	2-oxoisovalerate dehydrogenase alpha subunit, putative	Leishmania major	0.53	17	15.7	447	53622	5.76	M					
gii170799933	LmfF27.0880	2-oxoglutarate dehydrogenase subunit, putative	Leishmania major strain Friedlin	0.50	34	21.1	747	113438	6.46	M					
gii170905907	LmfF35.3230	cystathione gamma lyase, putative	Leishmania major strain Friedlin	0.48	14	13.4	382	45074	6.45	other					
gii157866920	LmfF15.1010	glutamate dehydrogenase	Leishmania major	0.42	32	14.0	556	115598	7.64	M					
gii17964189	LmfF35.1480	arginase	Leishmania mexicana	0.41	7	14.6	146	36572	6.01	other					
gii170799998	LmfF27.0930	isovaleryl-CoA dehydrogenase, putative	Leishmania major strain Friedlin	0.40	10	9.3	274	44973	8.2	M					
gii157869598	LmfF23.0260	argininosuccinate synthase, putative	Leishmania major	0.38	26	13.1	494	46698	5.61	other					
gii170906113	LmfF35.5330	isomerase, putative	Leishmania major strain Friedlin	0.37	7	17.9	147	40113	7.59	other					
gii170800012	LmfF27.1060	cysteine desulfurase, putative	Leishmania major strain Friedlin	0.36	14	14.5	281	48661	8.8	M					
gii157868741	LmfF20.1560	N-acyl-L-amino acid amidohydrolase, putative; aminoacylase, putative	Leishmania major	0.34	7	20.2	263	43259	5.39	other					
gii157872793	LmfF30.3110	S-adenosylmethionine decarboxylase proenzyme	Leishmania major	0.33	10	18.1	188	43402	5.05	other					
gii157873596	LmfF31.3130	methylcrotonoyl-CoA carboxylase biotinylated subunit/protein-like protein	Leishmania major	0.30	21	12.4	443	76606	6.85	M					
gii19572296	LmfF05.0970	mercaptopuruvate sulfurtransferase	Leishmania mexicana	0.28	5	15.1	112	40725	5.79	other					
gii2423024	LmfF16.0590	carbamoyl phosphate synthase	Leishmania mexicana	0.27	30	15.4	743	171718	5.9	other					
gii157872927	LmfF31.0010	5-methyltetrahydropteroylglutamate--homocyst eil nemethyltransferase, putative	Leishmania major	0.26	20	12.7	476	86627	5.97	other					
gii157868739	LmfF20.1550	N-acyl-L-amino acid amidohydrolase, putative; aminoacylase, putative	Leishmania major	0.26	7	19.7	281	43913	5.63	other					
gii157877272	LmfF36.3800	aminomethyltransferase, mitochondrial precursor, putative	Leishmania major	0.26	4	9.4	92	43497	9.08	other					
gii170799935	LmfF27.0300	methylmalonyl-coenzyme a mutase, putative	Leishmania major strain Friedlin	0.25	15	13.0	314	79712	6.16	secreted	x				
gii33311188	LmfF35.0820	broad specificity aminotransferase	Leishmania mexicana	0.24	6	17.5	112	46402	6.65	other					
gii157871231	LmfF26.1610	proline oxidase, mitochondrial precursor-like protein	Leishmania major	0.22	8	8.4	315	64246	9.16	M					
gii170906057	LmfF35.4720	glycine cleavage system H protein, putative	Leishmania major strain Friedlin	0.22	2	8.4	29	11773	4.38	other					
gii157871075	LmfF26.0830	asparagine synthetase a, putative; aspartate--ammonia ligase, putative	Leishmania major	0.21	5	9.6	127	40122	5.42	other					
gii157869059	LmfF12.1270	arginine N-methyltransferase-like protein	Leishmania major	0.21	5	9.0	116	38119	5.42	other					
gii157872868	LmfF30.3520	S-adenosylmethionine synthetase; methionine adenosyltransferase	Leishmania major	0.19	6	13.7	137	43446	5.59	other					
gii157874193	LmfF32.2640	cystathionine beta-lyase, putative	Leishmania major	0.18	9	7.5	211	45003	5.38	other					
gii157864406	LmfF07.0090	methionine synthase, putative	Leishmania major	0.14	11	6.2	247	139585	5.45	other					
gii157877843	LmfF36.6310	homocysteine S-methyltransferase, putative	Leishmania major	0.14	5	6.2	93	36992	5.63	other					
gii157867947	LmfF18.1210	bifunctional aminoacyl-tRNA synthetase, putative; prolyl-tRNA synthetase, putative	Leishmania major	0.13	5	6.3	146	82842	5.99	other					
gii157874313	LmfF32.3140	pyrroline-5-carboxylate synthetase-like protein	Leishmania major	0.10	2	6.7	41	50883	5.76	other					
gii157867913	LmfF18.1040	putative S-oxoprolinase, putative	Leishmania major	0.09	9	4.4	192	145704	5.91	other					
gii157878938	LmfF03.0030	D-3-phosphoglycerate dehydrogenase-like protein	Leishmania major	0.09	3	5.1	88	56253	7.9	secreted	x				
gii157870921	LmfF26.0030	glycine dehydrogenase, putative	Leishmania major	0.07	6	3.7	91	107823	7.36	M					
gii157864442	LmfF07.0270	acetylornithine decarboxylase-like protein	Leishmania major	0.06	3	1.9	55	43657	5.65	other					
gii157865923	LmfF12.0630	sialine aminotransferase, putative	Leishmania major	0.05	6	3.4	298	56355	5.64	other					
gii157866485	LmfF14.0350	threonine synthase, putative	Leishmania major	0.03	2	1.6	45	73989	5.22	other					
<b>cytoskeleton</b>															
gii13569565	LmfF21.1860	beta-tubulin	Leishmania mexicana	21.10	499		83.1	16667	50394	4.74	other				
gii157866132	LmfF13.0350	alpha tubulin	Leishmania major	9.40	606		67.6	23033	50526	4.99	other				
gii176363846	LmfF04.1230	actin a	Leishmania major	1.16	34		38.6	869	42277	5.41	other				
gii157873662	LmfF32.0230	dynein light chain, flagellar outer arm, putative	Leishmania major	0.54	6		13.2	183	10765	6.02	other				



gii157867157	LmfF16.0550	OMPCase-OPRTase, putative; orotidine-5-phosphate decarboxylase/orotate phosphoribosyltransferase, putative	Leishmania major	1.03	36	26.9	1041	49811	9.07	other		
gii76363792	LmfF04.0960	possible adenylate kinase	Leishmania major	0.68	11	18.5	296	23611	5.88	other		
gii157867153	LmfF16.0530	dihydroorotate dehydrogenase, putative	Leishmania major	0.53	8	25.6	161	35095	5.68	other		
gii157877619	LmfF36.5390	phosphoribosylpyrophosphate synthetase, putative	Leishmania major	0.37	7	15.6	139	40083	5.62	other		
gii70900114	LmfF27.2050	ribonucleoside-diphosphate reductase small chain, putative	Leishmania major strain Friedlin	0.33	9	18.0	217	44399	4.97	other		
gii157866384	LmfF19.1560	inosine-5--monophosphate dehydrogenase	Leishmania major	0.31	13	26.5	163	56139	8.86	other		
gii157866314	LmfF13.1190	selenocystine synthetase, putative	Leishmania major	0.29	19	15.8	755	79135	7.93	M		
gii157875097	LmfF33.1930	phosphoribosyl transferase, putative; phosphoribosylpyrophosphate synthetase, putative	Leishmania major	0.29	6	18.3	196	39650	6.78	other		
gii157868523	LmfF20.0560	CTP synthase, putative; cytidine triphosphate synthase, putative	Leishmania major	0.26	14	10.3	325	66364	6.05	other		
gii157869227	LmfF22.0110	GMP synthase, putative; glutamine amidotransferase, putative	Leishmania major	0.24	12	13.6	314	71931	6.08	other		
gii157874914	LmfF33.1090	guanylate kinase, putative	Leishmania major	0.24	5	12.8	136	23088	6	other		
gii157868946	LmfF21.0845	hypoxanthine-guanine phosphoribosyltransferase	Leishmania major	0.23	3	7.6	36	23783	7.63	other		
gii157872269	LmfF30.0880	adenosine kinase, putative	Leishmania major	0.22	10	11.6	416	37703	5.1	other		
gii157871642	LmfF28.0890	ribonucleoside-diphosphate reductase large chain, putative	Leishmania major	0.21	10	8.0	259	91355	6.74	other		
gii157864867	LmfF08.1130	phosphoribosylpyrophosphate synthetase	Leishmania major	0.20	4	10.0	82	40892	6.83	other		
gii157867562	LmfF17.0725	inosine-5--monophosphate dehydrogenase	Leishmania major	0.14	5	5.8	161	58554	9.99	M		
gii70799621	LmfF29.2800	inosine-adenosine-guanosine-nucleoside hydrolase, putative	Leishmania major strain Friedlin	0.14	4	7.8	59	37125	4.7	other		
gii70905971	LmfF35.3870	nucleoside diphosphate kinase, putative	Leishmania major strain Friedlin	0.14	2	5.9	40	37572	5.73	other		
gii157867165	LmfF16.0580	dihydroorotate, putative	Leishmania major	0.12	3	5.2	100	44710	6	other		
gii70799623	LmfF29.0867	guanine deaminase, putative	Leishmania major strain Friedlin	0.11	6	9.3	321	49830	5.69	other		
gii157875418	LmfF34.0120	adenylate kinase b, putative	Leishmania major	0.10	2	6.6	44	26256	7.72	other		
gii157864743	LmfF08.0510	ribose-phosphate pyrophosphokinase, putative	Leishmania major	0.08	3	2.9	71	93869	6.37	other		
gii157876796	LmfF36.1660	RNA pseudouridine synthase A, putative	Leishmania major	0.03	2	2.4	140	76669	8.24	other		
<b>histones</b>												
gii157865198	LmfF09.1340	histone H2B	Leishmania major	2.15	38	41.4	594	12278	11.25	other		
gii157867169	LmfF16.0600	histone h3, putative	Leishmania major	1.24	26	34.6	545	14626	11.15	other		
gii70905717	LmfF25.2460	histone H4	Leishmania major strain Friedlin	0.83	38	28.0	879	11603	10.56	other		
gii72977614	LmfF29.1720	histone H2A	Leishmania mexicana	0.66	19	25.8	335	14066	10.96		x	1
gii157867456	LmfF17.0280	histone H2A, putative	Leishmania major	0.30	4	10.7	51	18798	10.49	other		
gii157871500	LmfF28.0210	histone H2B variant	Leishmania major	0.16	2	6.3	33	15747	11.24	other		
<b>antioxidants</b>												
gii157869550	LmfF23.0040	peroxidoxin; trypanoxin peroxidase	Leishmania major	1.38	43	42.0	1273	25497	6.43	M		
gii70799655	LmfF29.1150	trypanoxin, putative	Leishmania major strain Friedlin	0.75	14	15.4	266	17186	6.59	other		
gii157866926	LmfF15.1040	trypanoxin peroxidase	Leishmania major	0.73	59	18.6	1666	22370	6.32	other		
gii70905711	LmfF35.1250	thioredoxin-like protein	Leishmania major strain Friedlin	0.46	10	13.6	263	25809	4.95	other		
gii157874863	LmfF33.0240	thiol-dependent reductase 1	Leishmania major	0.28	15	6.0	468	50327	5.94	other		
gii70799654	LmfF29.1140	trypanoxin-like protein	Leishmania major strain Friedlin	0.27	4	12.4	44	30709	8.49	other		1
gii70799656	LmfF28.1160	trypanoxin	Leishmania major strain Friedlin	0.16	6	5.5	67	16647	5.07	other		
gii157863916	LmfF05.0310	glutathione-like protein	Leishmania major	0.13	3	6.1	77	19841	5.91	M		
gii157871089	LmfF26.0900	glutathione peroxidase-like protein, putative	Leishmania major	0.13	2	6.6	43	20543	8.88	other		
gii157865841	LmfF12.0220	glutathione l, putative; hydroxycylglutathione hydrolase, putative	Leishmania major	0.08	3	3.1	26	32768	6.04	other		
gii157866597	LmfF14.0910	glutathione synthetase, putative	Leishmania major	0.08	2	2.6	39	67197	5.75	other		
<b>other</b>												
gii15617378	LmfF14.1360	myo-inositol-1-phosphate synthase	Leishmania mexicana	3.49	115	52.1	3006	58781	6	other		
gii70799981	LmfF27.0760	small GTP-binding protein Rab1, putative	Leishmania major strain Friedlin	2.71	35	49.0	1096	22424	5.55	other		
gii157867279	LmfF16.1130	bryostol or methionyl-RNA synthetase-like protein	Leishmania major	2.39	27	33.3	748	19827	5.34	other		
gii157873520	LmfF31.2790	adp-ribosylation factor, putative	Leishmania major	2.32	21	43.8	583	20290	8.49	other		
gii157865592	LmfF11.0350	14-3-3 protein, putative	Leishmania major	2.25	38	48.6	1189	29412	5.19	other		
gii9542	LmfF08.1060	cysteine proteinase	Leishmania mexicana	2.10	121	37.9	3460	48950	6.17	S	x	1
gii157877138	LmfF36.3210	14-3-3 protein-like protein	Leishmania major	1.95	42	47.3	1466	29783	4.79	other		
gii157868190	LmfF19.0710	glycosomal malate dehydrogenase	Leishmania major	1.80	51	33.2	1538	33838	8.97	other		
gii157872022	LmfF28.2740	activated protein kinase c receptor (LACK)	Leishmania major	1.72	28	47.8	842	34891	6.05	other		
gii157076732	LmfF36.1370	Translational endoplasmic reticulum ATPase, putative; valosin-containing protein homolog	Leishmania major	1.60	56	39.9	1340	67502	5.19	other		
gii157867379	LmfF16.1610	prohibitin, putative	Leishmania major	1.66	26	38.1	409	30423	8.35	secreted	x	
gii70905663	LmfF35.0750	proteasome activator protein pa26, putative	Leishmania major strain Friedlin	1.50	20	41.7	475	24186	5.24	other		
gii66393716	LmfF33.1360	putative mitogen-activated protein kinase 11	Leishmania mexicana	1.49	38	43.4	1013	46874	5.65	other		
gii157865228	LmfF09.1460	cytochrome b5-like, putative	Leishmania major	1.49	8	42.7	207	12897	4.73	other		1
gii157868078	LmfF19.0150	mitogen-activated protein kinase, putative; protein kinase, putative	Leishmania major	1.41	15	36.1	366	31036	6.71	other		
gii157867931	LmfF18.1130	ras-related protein rab-5, putative	Leishmania major	1.40	13	28.4	361	25319	6.75	other		
gii110809647	LmfF18.0270	putative glycogen synthase kinase 3 beta	Leishmania mexicana	1.34	28	43.1	668	41289	7.6	other		
gii157870504	LmfF25.0490	RNA-binding protein, putative, UPB1	Leishmania major	1.33	14	32.2	329	20252	9.47	other		
gii157865435	LmfF10.0910	Rab11 GTPase, putative; small GTP-binding protein Rab11, putative	Leishmania major	1.30	22	30.3	452	23659	6.75	other		
gii157873697	LmfF32.0400	ATP-dependent RNA helicase, putative	Leishmania major	1.29	68	33.7	1533	67276	9.03	other		
gii157865931	LmfF12.0670	cytochrome c oxidase subunit iv	Leishmania major	1.27	22	32.1	498	39581	5.63	secreted	x	
gii157870894	LmfF25.1420	GTP-binding protein, putative	Leishmania major	1.23	17	31.0	339	24550	6.11	other		
gii157871626	LmfF28.0925	RNA binding protein rbp16, putative	Leishmania major	1.21	14	27.5	447	15131	10.1	other		
gii70905654	LmfF35.3700	glycosomal membrane protein	Leishmania major strain Friedlin	1.18	22	38.2	689	25339	8.9	other		1
gii157869116	LmfF21.1552	RNA helicase, putative	Leishmania major	1.14	32	31.7	735	49741	5.89	other		
gii157878884	LmfF36.1140	short chain 3-hydroxyacyl-coa dehydrogenase, putative	Leishmania major	1.11	30	25.2	659	33294	8.43	secreted	x	
gii112383440	LmfF36.4170	zeta-crystallin/NADPH-oxidoreductase-like protein	Leishmania mexicana	1.11	23	36.9	556	33460	5.8	other		
gii157867097	LmfF16.0250	protein tyrosine phosphatase-like protein	Leishmania major	1.09	14	39.8	388	19807	7.7	other		
gii70905999	LmfF35.4130	poly(a) binding protein, putative	Leishmania major strain Friedlin	1.08	58	25.9	1188	65536	9.13	other		
gii157871596	LmfF28.0690	serine/threonine protein phosphatase catalytic subunit, putative	Leishmania major	1.04	13	44.9	383	35121	5.51	other		
gii157872662	LmfF30.2630	replication factor C, subunit 2, putative	Leishmania major	1.03	14	44.9	576	38760	6.71	other		
gii157874293	LmfF32.3040	protein phosphatase 2A catalytic subunit, putative	Leishmania major	1.01	16	34.1	336	35657	5.1	other		
gii157864068	LmfF05.1040	stomatin-like protein	Leishmania major	0.99	19	30.5	528	38695	8.31	other		
gii157865422	LmfF10.0950	mtf-like; nuclear transport factor 2, putative	Leishmania major	0.98	12	33.1	333	13934	4.95	other		
gii157868398	LmfF19.1630	microtubule-associated protein 1A1B, light chain 3, putative	Leishmania major	0.98	4	24.0	128	13992	6.74	other		
gii157865287	LmfF10.0210	nucleolar protein, putative	Leishmania major	0.94	39	28.3	1336	53051	8.73	other		
gii157868561	LmfF20.0810	N-ethylmaleimide-sensitive factor, putative; vesicle-fusing ATPase, putative	Leishmania major	0.92	36	30.8	758	81875	5.78	other		

gii157871253	LmfF26.1710	cytochrome c oxidase subunit V, putative	Leishmania major	0.92	11	26.5	265	22504	6.1	secreted	x		
gii157865154	LmfF09.1120	MRP2, gBP25, mitochondrial RNA binding protein 2	Leishmania major	0.90	16	18.6	366	27003	9.62	M			
gii170905597	LmfF35.0070	prohibitin, putative	Leishmania major strain Friedlin	0.95	12	37.0	303	32421	9.18	other		1	
gii157867016	LmfF15.1450	proliferative cell nuclear antigen (PCNA), putative	Leishmania major	0.84	20	28.0	1001	32702	4.82	other			
gii157870558	LmfF25.0750	adenine phosphatase, putative	Leishmania major	0.83	31	25.9	853	45607	4.73	other			
gii170799626	LmfF29.0880	ADP-ribosylation factor 3, putative	Leishmania major strain Friedlin	0.82	8	32.4	68	20403	6.18	other			
gii157865495	LmfF10.1160	Rab11 small GTP-binding protein, putative	Leishmania major	0.81	19	30.1	401	24802	9.51	other			
gii157875373	LmfF33.3160	small nuclear ribonucleoprotein SmD2	Leishmania major	0.81	5	27.2	87	11828	9.56	other			
gii157872157	LmfF30.0380	phosphatase 2C, putative	Leishmania major	0.80	23	22.9	592	42561	4.97	other			
gii157864819	LmfF08.0890	mitochondrial DNA polymerase beta	Leishmania major	0.80	19	30.1	338	42776	9	other			
gii157871974	LmfF28.2510	acyl-coa dehydrogenase, putative	Leishmania major	0.79	47	25.3	1569	69501	8.53	M			
gii157871830	LmfF28.1820	replication factor A, 51kDa subunit, putative	Leishmania major	0.77	21	31.3	609	52799	6.19	other			
gii157866782	LmfF15.0280	ribonucleoprotein p18, mitochondrial precursor, putative	Leishmania major	0.76	15	23.5	294	21629	6.74	secreted	x		
gii27977393	LmfF05.0030	putative small GTP-binding protein	Leishmania mexicana	0.75	12	32.3	364	21873	6.89	other			
gii17146020	LmfF02.0370	proteasome regulatory non-ATPase subunit 6, putative	Leishmania major	0.74	20	24.1	865	59200	5.98	other			
gii157864458	LmfF07.0340	ATP-dependent DEAD/H RNA helicase, putative	Leishmania major	0.73	38	23.9	966	55293	7.22	other			
gii83596190	LmfF10.0200	MRP10	Leishmania mexicana	0.72	18	34.2	350	46515	8.12	other			
gii157873391	LmfF31.2150	prostaglandin f2-alpha synthase	Leishmania major	0.72	17	21.8	408	32001	5.95	other			
gii157868260	LmfF19.1005	4-coumarate:coa ligase-like protein	Leishmania major	0.70	34	22.4	561	66592	9.02	other			
gii157867002	LmfF15.1380	nucleolar RNA binding protein, putative	Leishmania major	0.70	32	26.7	959	66526	9.42	other			
gii10046857	LmfF35.1730	casein kinase II alpha subunit	Leishmania mexicana mexicana	0.69	14	23.5	256	42816	8.93	other			
gii157873157	LmfF31.1070	biotin/ipoate protein ligase-like protein	Leishmania major	0.68	17	24.3	402	28736	5.91	other			
gii157876368	LmfF34.4330	quinonoid dihydropteridine reductase	Leishmania major	0.68	12	17.0	313	23737	5.9	secreted	x		
gii157870634	LmfF25.1120	aldehyde dehydrogenase, mitochondrial precursor	Leishmania major	0.66	54	20.4	866	54712	6.73	other			
gii170905594	LmfF35.3100	ATP-dependent RNA helicase, putative	Leishmania major strain Friedlin	0.66	37	25.7	824	100525	6.12	other			
gii170799757	LmfF29.2160	rab-GDP dissociation inhibitor, putative	Leishmania major strain Friedlin	0.65	31	24.3	1223	50387	5.7	other			
gii157867893	LmfF18.0890	rab7 GTP binding protein, putative	Leishmania major	0.65	23	24.2	397	24476	5.27	other			
gii09540	LmfF21.1080	cdc2-like protein	Leishmania mexicana	0.65	11	29.6	257	34737	6.2	other			
gii157864647	LmfF08.0030	vesicle-associated membrane protein, putative	Leishmania major	0.65	9	23.7	211	24466	8.54	other		1	
gii157868256	LmfF19.0985	4-coumarate:coa ligase-like protein	Leishmania major	0.63	32	19.4	845	66928	8.1	M			
gii170905805	LmfF35.2200	RNA-binding protein, putative	Leishmania major strain Friedlin	0.63	15	24.1	328	30296	7.85	other			
gii157872317	LmfF30.1120	importin alpha, putative	Leishmania major	0.60	25	26.3	498	58855	4.99	other			
gii157873407	LmfF31.2280	adp-ribosylation factor, putative	Leishmania major	0.60	9	17.6	275	20687	6.59	other			
gii170900017	LmfF27.1110	gBP21, MRP1	Leishmania major strain Friedlin	0.59	15	14.5	445	26704	10.27	secreted	x		
gii170799761	LmfF29.2200	GTP-binding protein, putative	Leishmania major strain Friedlin	0.58	40	19.5	1172	77793	8.95	other			
gii157872341	LmfF30.1250	pyridoxal kinase, putative	Leishmania major	0.57	11	21.5	264	33283	5.8	other			
gii157871694	LmfF28.1140	electron-transfer-flavoprotein, alpha polypeptide, putative	Leishmania major	0.56	9	21.8	313	33653	6.34	secreted	x		
gii170905699	LmfF35.1010	casein kinase, putative	Leishmania major strain Friedlin	0.55	12	24.4	236	39895	9.29	other			
gii157869058	LmfF21.1290	vesicle-associated membrane protein, putative	Leishmania major	0.55	12	9.7	421	28362	9.16	other		1	
gii157866916	LmfF15.0990	succinate dehydrogenase, putative	Leishmania major	0.54	7	15.7	152	22851	9.38	other			
gii157876293	LmfF34.3980	nucleolar protein family a member-like protein	Leishmania major	0.54	5	18.2	49	16848	8.94	other			
gii157868098	LmfF19.0210	ADP-ATP carrier protein 1, mitochondrial precursor, putative, ADPIATP translocase 1, putative	Leishmania major	0.53	15	13.6	272	35453	9.76	other		4	
gii157868378	LmfF18.1530	peptidylprolyl isomerase-like protein	Leishmania major	0.52	19	15.0	335	48064	5.48	other			
gii157869584	LmfF23.0200	endoribonuclease L-PP89, putative	Leishmania major	0.52	7	18.6	141	17250	5.52	other			
gii170905806	LmfF35.2210	kinetoplast membrane protein-11	Leishmania major strain Friedlin	0.52	5	20.7	96	11227	5.96	other			
gii157875077	LmfF33.1840	ras-related protein, small GTP-binding protein Rab18, putative	Leishmania major	0.51	7	26.3	153	23867	5.8	other			
gii157866372	LmfF13.1480	Ran-binding protein 1, putative	Leishmania major	0.51	6	16.5	67	17781	5.56	other			
gii157869600	LmfF23.0270	pteridine reductase 1	Leishmania major	0.50	7	17.4	175	30788	6.7	other			
gii157876189	LmfF34.3500	ruv-like 1 DNA helicase, putative	Leishmania major	0.49	15	26.4	307	50463	5.76	other			
gii157877556	LmfF36.5090	protein kinase ck2 regulatory subunit, putative	Leishmania major	0.49	12	19.7	388	30967	4.96	other			
gii157874058	LmfF32.2020	COP-coated vesicle transport protein p24, putative	Leishmania major	0.49	6	21.2	94	18258	9.4	other		1	
gii157864705	LmfF08.0320	mitochondrial associated ribonuclease, putative	Leishmania major	0.48	9	21.3	107	25116	6.64	other			
gii157877610	LmfF36.5360	ubiquitome biosynthesis methyltransferase, putative	Leishmania major	0.47	13	19.8	429	32448	6.32	other			
gii14889465	LmfF18.1580	nonspecific nucleoside hydrolase	Leishmania mexicana	0.47	10	27.9	258	32413	5.92	other			
gii157867315	LmfF16.1310	cytochrome c, putative	Leishmania major	0.47	5	9.7	160	12237	9.59	other			
gii157875182	LmfF33.2340	succinyl-coA 3-ketoacid-coenzyme A transferase, mitochondrial precursor, putative	Leishmania major	0.46	24	19.0	513	53145	7.94	other			
gii157868136	LmfF19.0440	nucleosome assembly protein, putative	Leishmania major	0.46	13	12.0	337	39727	4.61	other			
gii170905627	LmfF35.0370	ATP-dependent DEAD-box RNA helicase, putative	Leishmania major strain Friedlin	0.46	11	21.5	256	46718	6.68	other			
gii157899720	LmfF23.0760	mitochondrial RNA binding protein, putative	Leishmania major	0.46	9	19.8	233	39710	9.43	M			
gii157875999	LmfF34.2610	ATP-dependent DNA helicase, putative, ruvB DNA helicase-like protein, putative	Leishmania major	0.45	17	19.5	450	52633	5.34	other			
gii176363691	LmfF04.0460	adenylsuccinate lyase	Leishmania major strain Friedlin	0.45	17	19.2	197	53863	8.04	other			
gii157875060	LmfF33.1750	macrophage migration inhibitory factor-like protein	Leishmania major	0.45	4	15.0	69	12748	7.68	other			
gii157875058	LmfF33.1740	macrophage migration inhibitory factor-like protein	Leishmania major	0.45	3	19.5	47	12675	5.89	other			
gii157876922	LmfF36.2250	developmentally regulated GTP-binding protein 1, putative	Leishmania major	0.44	9	19.3	175	41389	8.9	other			
gii157869178	LmfF21.1760	centromere/microtubule binding protein cbf5, putative	Leishmania major	0.43	15	19.1	466	48910	9.14	other			
gii157867185	LmfF16.0680	AP-endonuclease, apurinic/apyrimidinic endonuclease-redox protein	Leishmania major	0.43	15	12.5	323	49062	8.79	other			
gii157863870	LmfF05.0100	phosphoprotein phosphatase, putative	Leishmania major	0.42	19	13.2	535	72464	6.59	other			
gii157867406	LmfF17.0070	ADP-ribosylation factor, putative	Leishmania major	0.42	8	21.4	221	20835	4.97	other			
gii176363626	LmfF04.1130	positional SC-02 protein precursor	Leishmania major	0.42	6	17.4	160	35375	5.79	other			
gii157867593	LmfF36.1610	universal initiator sequence binding protein, putative	Leishmania major	0.42	3	17.4	87	13299	8.36	other			
gii157877574	LmfF36.5180	aldehyde dehydrogenase, putative	Leishmania major	0.41	20	18.8	518	58438	8.12	other			
gii157876492	LmfF36.0250	E1F3-interacting protein-like protein	Leishmania major	0.41	20	18.2	340	73223	8.91	A		1	
gii157867289	LmfF16.1180	cofactor delta subunit-like protein, delta-COP, putative; delta-coat protein, putative	Leishmania major	0.41	16	17.2	507	58116	5.09	other			
gii157873623	LmfF32.0050	protein transport protein sec13, putative	Leishmania major	0.41	10	19.8	105	36600	5.65	other			
gii176363695	LmfF04.0480	ADP-ribosylation factor	Leishmania major strain Friedlin	0.41	9	28.4	323	21285	5.84	other			
gii170906120	LmfF35.5290	p21 antigen protein	Leishmania major strain Friedlin	0.41	4	18.8	208	21327	5.22	other			
gii157895216	LmfF09.1430	ubiquitinome biosynthesis protein-like protein, putative	Leishmania major	0.41	4	14.4	76	21523	7.79	other			
gii157873888	LmfF32.1260	RNA polymerase-like protein, putative	Leishmania major	0.40	7	13.6	145	21963	5.54	other			
gii157868870	LmfF21.0540	18a RNA binding protein, putative	Leishmania major	0.40	6	20.6	227	37306	8.91	other			
gii157872688	LmfF30.2740	TPR domain protein, conserved	Leishmania major	0.39	14	17.4	260	45855	5.24	other			
gii157873719	LmfF32.0490	ras-related rab-4, putative	Leishmania major	0.39	10	17.7	261	22380	5.22	other			
gii157867664	LmfF17.1290	translation initiation factor, putative	Leishmania major	0.37	17	16.4	315	81221	7.95	other			

gii157874060	LmfF32.2030	ras-related protein rab-2a, putative	Leishmania major	0.37	3	15.2	72	23550	7.63	other		
gii157876788	LmfF36.1630	clathrin heavy chain, putative	Leishmania major	0.36	53	14.2	1445	192062	5.81	other		
gii157863878	LmfF05.0140	nucleolar RNA helicase II, putative	Leishmania major	0.36	18	15.9	279	74135	8.42	other		
gii170800094	LmfF27.1870	trypanothione synthetase, putative	Leishmania major strain Friedlin	0.36	12	13.0	245	75014	5.49	other		
gii131324172	LmfF22.1140	mu adaptin	Leishmania mexicana mexicana	0.36	10	17.3	168	49589	6.52	other		
gii157870919	LmfF26.0020	methylnalonyl-coa epimerase-like protein	Leishmania major	0.36	3	16.3	71	15565	6.04	other		
gii157863862	LmfF05.0060	major vault protein, putative	Leishmania major	0.35	23	13.0	447	93927	6.55	other		
gii157872315	LmfF30.1110	RNA-binding protein, putative	Leishmania major	0.35	13	12.4	306	67247	5.95	other		
gii10046831	LmfF36.0720	putative mitogen-activated protein kinase 2	Leishmania mexicana mexicana	0.35	7	14.0	127	50860	9.57	other		
gii157877237	LmfF36.3660	nucleic acid hydrolase-like protein	Leishmania major	0.35	7	10.8	49	24888	4.92	other		
gii170799585	LmfF29.0510	cofilin-like protein	Leishmania major strain Friedlin	0.35	2	7.2	56	15819	5.56	other		
gii170905671	LmfF35.0830	NADH-dependent fumarate reductase-like protein	Leishmania major strain Friedlin	0.34	23	14.3	727	131290	6.76	other		
gii157867237	LmfF16.0950	sucrose-phosphate synthase-like protein	Leishmania major	0.33	17	10.1	306	53105	5.99	other		
gii170906095	LmfF35.5040	polyadenylate-binding protein 1, putative	Leishmania major strain Friedlin	0.33	15	14.9	490	61353	9.07	other		
gii157867735	LmfF18.0150	serine/threonine protein phosphatase type 5, putative	Leishmania major	0.33	12	20.5	233	53436	6.38	other		
gii157869861	LmfF24.0140	ankyrin/TPP repeat protein	Leishmania major	0.33	9	14.0	233	43570	6.64	other		
gii170905705	LmfF35.1190	NADH-dependent fumarate reductase, putative	Leishmania major strain Friedlin	0.33	7	17.0	151	52649	6.44	secreted	x	
gii176363634	LmfF04.1170	possible RNA-binding protein	Leishmania major	0.33	7	16.7	261	34497	6.05	other		
gii157878968	LmfF03.0190	U2 splicing auxiliary factor, putative	Leishmania major	0.33	7	11.9	239	25590	9.36	other		
gii170906028	LmfF35.4430	mitochondrial phosphate transporter, putative	Leishmania major strain Friedlin	0.33	6	20.8	173	35094	9.26	other		
gii157865114	LmfF09.0910	calmodulin, putative	Leishmania major	0.33	5	29.5	89	16814	4.1	other		
gii157870612	LmfF25.1015	protein transport protein sec61 gamma subunit, putative	Leishmania major	0.33	2	24.6	103	7884	9.04	A		1
gii157876427	LmfF34.0150	malate dehydrogenase, putative	Leishmania major	0.32	5	9.7	131	36137	7.02	secreted	x	
gii157877910	LmfF36.8540	similarly to endo-1-like protein	Leishmania major	0.32	4	10.8	139	26735	5.44	other		
gii157869597	LmfF20.0840	cytochrome c oxidase assembly factor-like protein	Leishmania major	0.32	4	6.1	57	26675	5.98	other		
gii170905927	LmfF25.2420	phosphoinositide-binding protein, putative	Leishmania major strain Friedlin	0.31	7	11.3	178	46814	6.14	other		
gii157868896	LmfF21.0670	metallo-beta-lactamase family-like protein	Leishmania major	0.31	6	10.4	73	36847	6.05	other		
gii170799961	LmfF27.0560	cdc2-related kinase, putative	Leishmania major strain Friedlin	0.31	5	15.9	85	37531	6.51	other		
gii170906031	LmfF35.4460	sm-f snRNP core complex protein, putative	Leishmania major strain Friedlin	0.31	1	10.5	30	8571	5.55	other		
gii157872656	LmfF30.2600	c-1-tetrahydrofolate synthase, cytoplasmic, putative	Leishmania major	0.30	9	10.3	181	67212	6.35	other		
gii157876650	LmfF36.0980	40S ribosomal protein S10, putative	Leishmania major	0.30	7	11.9	144	18752	10.5	other		
gii157870428	LmfF25.0120	electron transfer flavoprotein, putative	Leishmania major	0.30	6	16.7	254	28450	8.88	other		
gii6634477	LmfF23.1060	hydrophilic acylated surface protein B	Leishmania mexicana	0.30	5	7.4	178	18661	4.64	other		
gii157872894	LmfF30.3560	major nashi-like protein, putative	Leishmania major	0.30	2	11.7	50	18617	5.83	other		
gii170799960	LmfF27.0550	replication factor C, subunit 4, putative	Leishmania major strain Friedlin	0.29	8	15.0	212	39844	7.12	other		
gii157873261	LmfF31.1570	cytochrome c oxidase VIII (COX VIII), putative	Leishmania major	0.29	5	10.2	213	18857	9.18	M		1
gii157870233	LmfF24.1500	IgE-dependent histamine-releasing factor, putative	Leishmania major	0.28	8	11.8	198	19578	4.39	other		
gii2660764	LmfF30.0850	surface protein amastin	Leishmania mexicana	0.28	3	15.8	64	20017	9.02	S	x	4
gii131324170	LmfF29.1440	sigma adaptin	Leishmania mexicana mexicana	0.28	2	9.1	43	19402	7.88	M		
gii157876177	LmfF34.3440	DNA topoisomerase IB, large subunit	Leishmania major	0.27	16	13.6	380	73810	9.19	other		
gii157866232	LmfF13.0780	protein kinase, putative	Leishmania major	0.27	14	11.5	457	64144	5.04	other		
gii157872611	LmfF30.2370	ADP-ribosylation factor-like protein	Leishmania major	0.27	6	11.2	202	20256	5.97	other		
gii157872360	LmfF26.2260	mitilasin, putative	Leishmania major	0.27	5	9.3	56	31347	5.99	other		
gii157868068	LmfF19.0100	filibrutin, putative	Leishmania major	0.27	4	14.1	120	41226	9.83	other		
gii157872239	LmfF30.0750	4-methyl-5(beta-hydroxyethyl)-thiazole monophosphate synthesis protein, putative	Leishmania major	0.27	4	9.2	58	20692	6.06	other		
gii157864164	LmfF06.0260	5--3- exonuclease, putative	Leishmania major	0.26	30	11.9	763	167250	6.82	other		
gii157873478	LmfF31.2610	RNA polymerase II largest subunit	Leishmania major	0.26	28	10.1	778	185847	8.42	other		
gii157875377	LmfF33.3210	beta prime cop protein, putative	Leishmania major	0.26	19	13.2	420	98897	5.05	other		
gii157868669	LmfF20.1350	coatomer beta subunit, putative	Leishmania major	0.26	19	11.7	427	110293	5.17	other		
gii157870540	LmfF25.0670	epsin, putative	Leishmania major	0.26	18	7.9	488	66127	8.22	other		
gii157864657	LmfF08.0080	ATP-dependent DEAD/H RNA helicase, putative	Leishmania major	0.26	9	11.5	247	75848	7.21	other		
gii157869725	LmfF20.1690	soluble N-ethylmaleimide sensitive factor, putative	Leishmania major	0.26	4	10.3	44	32247	5.14	other		
gii170799544	LmfF29.0090	GTP-binding protein-like protein	Leishmania major strain Friedlin	0.26	3	10.2	48	21099	8.4	other		
gii170799537	LmfF29.0020	transcription factor-like protein	Leishmania major strain Friedlin	0.25	19	10.2	450	115473	5.16	secreted	x	
gii157872958	LmfF31.0160	DNA-directed RNA polymerase II subunit 2, putative	Leishmania major	0.25	17	11.9	338	135350	7.96	other		
gii157865311	LmfF10.0310	protein transport protein Sec23, putative	Leishmania major	0.25	14	10.6	154	89567	5.88	other		
gii157876456	LmfF36.0080	leucine carboxyl methyltransferase, putative	Leishmania major	0.25	10	9.8	248	33771	6.31	other		
gii170800143	LmfF27.2330	GTP binding protein, putative	Leishmania major strain Friedlin	0.25	9	17.6	249	44560	6.29	other		
gii157865666	LmfF11.0700	anion-transporting ATPase-like protein	Leishmania major	0.25	8	19.6	184	44478	5.26	other		
gii170799966	LmfF01.0320	poly(A) export protein, putative	Leishmania major strain Friedlin	0.25	6	13.0	423	33977	7.62	other		
gii157876164	LmfF34.3360	aldose 1-epimerase-like protein	Leishmania major	0.25	5	12.6	166	33614	6.3	other		
gii157867335	LmfF16.1400	trafficking protein particle complex subunit-like protein	Leishmania major	0.25	3	11.7	90	21655	4.91	other		
gii157871998	LmfF28.2620	coatomer gamma subunit, putative	Leishmania major	0.24	16	8.1	399	96256	5.32	other		
gii157873991	LmfF32.1730	coatomer epsilon subunit, putative	Leishmania major	0.24	13	13.9	475	35097	5	other		
gii157870430	LmfF25.0130	elongation factor, putative	Leishmania major	0.24	11	9.9	327	70739	6.14	secreted	x	
gii157874969	LmfF33.1330	cysteine conjugate beta-lyase, aminotransferase-like protein	Leishmania major	0.24	10	11.8	234	46622	5.84	other		
gii157864380	LmfF06.1270	coproporphyrinogen III oxidase, putative	Leishmania major	0.24	8	10.3	235	34690	5.32	other		
gii157874883	LmfF33.0960	nicotinate phosphoribosyltransferase, putative	Leishmania major	0.24	4	12.3	81	47610	5.71	other		
gii157872658	LmfF30.2610	RNA-binding protein, putative	Leishmania major	0.24	4	11.1	91	23071	7.85	other		
gii170900142	LmfF27.2320	protein phosphatase-like protein	Leishmania major strain Friedlin	0.24	3	10.8	98	35098	5.54	other		
gii157868180	LmfF19.0660	DNA-directed RNA polymerase, alpha subunit, putative	Leishmania major	0.23	8	11.1	157	47874	6.48	other		
gii157867363	LmfF16.1530	endoplasmic reticulum oxidoreductin, putative	Leishmania major	0.23	8	9.3	156	49176	5.2	secreted	x	
gii157866366	LmfF13.1450	EF hand-like protein	Leishmania major	0.23	6	7.4	269	23964	4.77	other		
gii170800119	LmfF27.2100	RNA-binding protein, putative	Leishmania major strain Friedlin	0.23	5	4.1	162	48884	10.96	other		
gii157873604	LmfF31.3160	protein kinase, putative	Leishmania major	0.23	4	12.1	150	48766	7.29	other		
gii170905916	LmfF35.3320	transport protein particle (TRAPP) subunit, putative	Leishmania major strain Friedlin	0.23	4	9.6	130	23690	8.71	other		
gii157876896	LmfF36.2130	DEAD box RNA helicase, putative	Leishmania major	0.22	9	10.5	309	63492	9.4	other		
gii170905788	LmfF35.1850	ER--golgi transport protein gp25L, putative	Leishmania major strain Friedlin	0.22	4	11.6	57	24633	9.2	S	x	2
gii170799549	LmfF29.0140	DNA-directed RNA polymerase-like protein	Leishmania major strain Friedlin	0.22	3	11.3	97	38112	8.13	other		
gii170800106	LmfF27.1970	small nuclear ribonucleoprotein protein, putative	Leishmania major strain Friedlin	0.22	2	7.2	35	11941	9.81	other		
gii157877094	LmfF36.3000	ATP-dependent RNA helicase, putative	Leishmania major	0.21	12	10.0	197	108531	6	other		
gii157871942	LmfF28.2370	serine hydroxymethyltransferase	Leishmania major	0.21	7	11.0	204	52665	8.75	M		
gii157877944	LmfF36.6710	replication factor C, subunit 5, putative	Leishmania major	0.21	5	15.1	156	39586	9.51	other		

gii157874016	LmjF32.1840	rab11B GTPase, putative	Leishmania major	0.21	5	9.4	122	25374	6.65	other		
gii157867047	LmjF16.0005	anti-silencing protein a-like protein	Leishmania major	0.21	3	12.8	72	25424	5.48	M		
gii157866441	LmjF14.0130	nucleoside hydrolase-like protein	Leishmania major	0.21	3	11.1	102	39552	4.78	other		
gii157870898	LmjF25.2370	adenylyate kinase, putative	Leishmania major	0.21	3	9.4	50	25957	8.93	secreted	x	
gii157876267	LmjF34.3860	small nuclear ribonucleoprotein, putative	Leishmania major	0.21	1	6.2	29	12224	9.57	other		
gii157865704	LmjF35.1180	NADH-dependent fumarate reductase, putative	Leishmania major strain Friedlin	0.20	19	11.2	576	124204	8.91	other		
gii157875487	LmjF34.0490	importin beta-1 subunit, putative	Leishmania major	0.20	19	12.6	846	36638	4.58	other		
gii157868928	LmjF21.0810	methionyl-RNA synthetase, putative	Leishmania major	0.20	14	8.2	300	84407	5.79	other		
gii157872965	LmjF31.0190	nucleolar protein, putative	Leishmania major	0.20	11	8.4	252	70438	5.72	other		
gii157877956	LmjF36.6770	beta-adaptin, putative	Leishmania major	0.20	10	8.4	224	82735	4.99	other		
gii157867881	LmjF18.0780	DNA-directed RNA polymerases II, putative	Leishmania major	0.20	7	10.0	241	27415	6.27	other		
gii157873484	LmjF31.2640	2-oxoglutarate dehydrogenase, e3 component, lipocarnitide dehydrogenase-like protein	Leishmania major	0.20	7	8.8	273	67901	8.16	other		
gii157866388	LmjF13.1560	ras-family member, GTP-binding protein, putative	Leishmania major	0.20	6	8.2	81	41811	6.42	other		
gii157875105	LmjF33.1970	RNA editing complex protein MP46, mitochondrial	Leishmania major	0.20	6	7.9	203	54415	6.06	other		
gii157870917	LmjF26.0010	brk domain containing-like protein	Leishmania major	0.20	4	8.0	95	40667	9.48	other		
gii157869848	LmjF21.0850	xanthine phosphoribosyltransferase	Leishmania major	0.20	3	10.1	45	26902	7.66	other		
gii039534	LmjF36.2570	membrane-bound acid phosphatase	Leishmania mexicana	0.19	11	8.9	188	58332	6.97	S	x	2
gii157879978	LmjF29.2570	protein kinase, putative	Leishmania major strain Friedlin	0.19	9	9.8	196	56816	6.56	other		
gii157869124	LmjF21.1563	choline dehydrogenase, like protein	Leishmania major	0.19	6	9.3	133	59181	8.7	other		
gii157867823	LmjF18.0590	RNA binding protein, putative	Leishmania major	0.19	6	8.2	144	43630	9.28	other		
gii157864482	LmjF07.0460	acyl-CoA dehydrogenase, mitochondrial precursor, putative	Leishmania major	0.19	5	7.3	73	57109	5.16	M		
gii157870630	LmjF25.1100	DNAJ-like protein	Leishmania major	0.19	5	6.1	153	44299	7.27	S	x	1
gii157867749	LmjF18.0220	RNA-binding protein, putative	Leishmania major	0.19	4	5.9	160	43763	8.84	other		
gii157860112	LmjF27.2030	branched-chain amino acid aminotransferase, putative	Leishmania major strain Friedlin	0.18	10	10.0	122	44346	7.59	M		
gii157877680	LmjF36.5590	CAP25v2p, putative, G-actin binding protein, putative	Leishmania major	0.18	6	11.4	148	29680	5.66	other		
gii157864426	LmjF07.0190	phosphotyrosyl phosphate activator protein, putative	Leishmania major	0.18	6	9.9	129	44823	6.42	other		
gii157864426	LmjF07.0190	protein phosphatase 2A, regulatory subunit B, putative	Leishmania major	0.18	6	9.9	129	44823	6.42	other		
gii10046837	LmjF30.2910	putative mitogen-activated protein kinase 5	Leishmania mexicana mexicana	0.18	6	8.8	121	44507	7.52	other		
gii157876900	LmjF36.2150	COP-coated vesicle membrane protein en25 precursor, putative; ER-golgi transport protein en25 precursor, putative	Leishmania major	0.18	4	12.7	109	30138	8.68	S	x	2
gii157876792	LmjF36.1640	universal minicircle sequence binding protein (UMSBP), putative	Leishmania major	0.18	4	9.6	128	29777	8.2	other		
gii17149016	LmjF02.0360	casein kinase II, alpha chain, putative	Leishmania major	0.18	3	6.3	41	44627	8.93	other		
gii157875001	LmjF33.1470	RNA-binding protein, putative	Leishmania major	0.18	1	7.7	84	14747	7.96	other		
gii157868541	LmjF30.0660	serine/threonine protein phosphatase 2A regulatory subunit, putative	Leishmania major	0.17	8	6.8	96	64617	5.73	other		
gii157871990	LmjF28.2570	splicing factor 3B subunit 1, putative	Leishmania major	0.17	7	7.0	122	114328	8.17	other		
gii157864512	LmjF07.0600	electron transfer flavoprotein-ubiquinone oxidoreductase, putative	Leishmania major	0.17	6	11.8	87	63669	7.01	secreted	x	
gii157870979	LmjF26.0320	C-1-tetrahydrofolate synthase, cytoplasmic, putative	Leishmania major	0.17	5	10.4	127	31967	6.67	other		
gii157860064	LmjF27.1550	DNA-directed RNA polymerase II-like protein	Leishmania major strain Friedlin	0.17	2	11.9	75	14869	5.93	other		
gii157874675	LmjF33.0295	autophagocytosis protein, putative	Leishmania major	0.17	2	10.5	116	31414	4.93	other		
gii157876363	LmjF34.4310	coatomer alpha subunit, putative	Leishmania major	0.16	19	8.1	426	133960	7.04	other		
gii157865564	LmjF11.0210	acidocalcisomal pyrophosphatase	Leishmania major	0.16	4	5.0	76	51246	5.38	other		
gii157872351	LmjF30.1290	U3 small nuclear ribonucleoprotein (snRNP), putative	Leishmania major	0.16	3	8.3	95	33098	8.92	M		
gii157869541	LmjF21.1610	mitochondrial structure specific endonuclease I (SSE-1), putative	Leishmania major	0.16	3	10.4	33	33635	8.2	other		
gii157884358	LmjF06.1170	nuclear transport factor 2 protein (NFT2), putative	Leishmania major	0.16	2	8.7	25	16130	5.28	other		
gii157873454	LmjF31.2490	adrenodoxin-like protein; ferredoxin, 2Fe-2S-like protein	Leishmania major	0.16	1	6.2	37	16156	6.27	S	x	x
gii157867135	LmjF16.0440	fucose kinase, putative	Leishmania major	0.15	14	6.7	206	127991	5.73	other		
gii157866601	LmjF14.0930	immunodominant antigen, putative; t40 antigen-like	Leishmania major	0.15	12	5.1	320	92044	5.88	other		
gii157870037	LmjF24.0520	DNAJ domain protein, putative	Leishmania major	0.15	9	6.7	281	89512	6.21	S	x	1
gii157864602	LmjF07.1000	RNA binding protein-like protein	Leishmania major	0.15	7	9.8	212	35072	3.95	other		
gii157863960	LmjF05.0520	nuclear receptor binding factor-like protein	Leishmania major	0.15	7	7.6	274	36035	9.48	other		
gii15789743	LmjF29.2020	protein kinase, putative	Leishmania major strain Friedlin	0.15	7	6.9	160	88894	8.79	other		
gii17146134	LmjF02.0670	mitochondrial carrier protein, putative	Leishmania major	0.15	7	6.1	157	34634	9.68	other		
gii1817564	LmjF01.0570	tricarboxylate carrier, putative	Leishmania major strain Friedlin	0.15	6	8.9	161	36480	9.61	other		3
gii157867927	LmjF18.1110	methyltransferase, putative	Leishmania major	0.15	6	6.4	107	93411	6.14	other		
gii157865693	LmjF35.1050	protein kinase, putative	Leishmania major strain Friedlin	0.15	6	5.9	166	54080	8.62	other		
gii157873650	LmjF32.0170	U2 small nuclear ribonucleoprotein 40K, putative	Leishmania major	0.15	5	10.4	89	34854	5.76	other		
gii157868112	LmjF19.0320	intraflagellar transport protein component, putative	Leishmania major	0.15	5	6.1	111	73627	5.05	other		
gii157870674	LmjF25.1320	serine/threonine protein phosphatase, putative	Leishmania major	0.15	4	9.8	127	36408	5.42	other		
gii157868721	LmjF20.1670	ribosome biogenesis protein, putative	Leishmania major	0.15	4	7.9	106	36254	9.61	other		
gii157872165	LmjF30.0410	WVD-40 repeat protein	Leishmania major	0.15	3	7.6	81	52692	7.37	other		
gii157869560	LmjF29.0250	oxidase-like protein	Leishmania major strain Friedlin	0.15	3	4.7	59	36670	5.44	other		
gii157868980	LmjF15.1200	mitochondrial DNA topoisomerase II	Leishmania major	0.14	12	8.6	287	139412	9.44	other		
gii157864800	LmjF07.0990	nucleolar RNA-binding protein, putative	Leishmania major	0.14	8	5.1	144	37603	4.03	other		
gii157860139	LmjF27.2300	transcription elongation regulator-like protein	Leishmania major strain Friedlin	0.14	7	4.3	265	79362	6.42	other		
gii157868904	LmjF21.0710	ATP-binding cassette sub-family E, putative; ribonuclease L inhibitor, putative	Leishmania major	0.14	6	9.4	92	74899	8.55	other		
gii157869154	LmjF21.1650	protein kinase, putative	Leishmania major	0.14	4	8.6	159	56292	5.44	other		
gii157864294	LmjF06.0860	dihydrofolate reductase-thymidylate synthase	Leishmania major	0.14	4	7.3	86	59221	6.59	other		
gii157864267	LmjF06.0730	threonine dehydratase-like protein	Leishmania major	0.14	3	9.8	127	37592	8.44	other		
gii157863838	LmjF04.1190	possible tRNA nucleotidyltransferase precursor	Leishmania major	0.14	3	6.5	82	58806	7.31	other		
gii157874639	LmjF33.0130	trans-splicing factor, putative	Leishmania major	0.14	3	5.6	88	38570	5.93	other		
gii157868918	LmjF23.1165	coronin, putative	Leishmania major	0.14	3	10.2	102	57317	6.19	M		
gii189271714	LmjF24.2320	putative mitogen-activated protein kinase kinase 4	Leishmania mexicana mexicana	0.14	2	8.3	76	39124	7.15	other		
gii157869979	LmjF27.0730	reductase, putative	Leishmania major strain Friedlin	0.14	2	6.4	77	37948	8.9	secreted	x	
gii157869525	LmjF22.1630	CCR4 associated factor, putative	Leishmania major	0.14	2	5.3	77	37874	5.76	other		
gii157869557	LmjF29.0220	protein transport protein Sec24A, putative	Leishmania major strain Friedlin	0.13	9	6.4	351	107830	6.76	other		
gii157875678	LmjF34.1250	NLI-interacting factor, putative	Leishmania major	0.13	9	5.9	337	41285	7.23	M		
gii157871892	LmjF28.2080	mitochondrial DEAD box protein, putative	Leishmania major	0.13	7	8.5	104	60735	8.96	M		
gii157876948	LmjF36.2380	sterol 24-c-methyltransferase, putative	Leishmania major	0.13	7	7.6	428	40484	6.11	other		
gii157876175	LmjF34.3430	cleavage and polyadenylation specificity factor, putative	Leishmania major	0.13	7	7.1	133	85009	5.61	other		
gii157869548	LmjF23.0030	beta propeller protein, putative	Leishmania major	0.13	6	13.7	64	86437	6.74	A		1
gii157869529	LmjF12.0660	serine/threonine protein phosphatase-like protein	Leishmania major	0.13	5	7.8	84	104997	8.46	other		
gii157866613	LmjF14.0990	ADP-ATP mitochondrial carrier-like protein	Leishmania major	0.13	5	5.3	126	40715	8.31	other		
gii157869471	LmjF22.1360	farnesyl pyrophosphate synthase, putative	Leishmania major	0.13	4	5.5	77	41340	5.51	other		

gi 2131000	LmjF36.6470	MAP-kinase homologue	Leishmania mexicana	0.13	3	8.1	86	41354	6.77	other		
gi 157864576	LmjF07.0870	splicing factor pslr1-like protein	Leishmania major	0.13	3	6.7	104	42038	11.21	M		
gi 157877183	LmjF36.3420	vacuolar protein sorting-associated protein-like protein	Leishmania major	0.13	3	5.3	64	41452	5.57	other		
gi 157877181	LmjF36.3410	short chain dehydrogenase-like protein	Leishmania major	0.13	3	4.3	77	41336	9.79	secreted	x	
gi 157877551	LmjF36.5880	small GTPase, putative	Leishmania major	0.13	2	8.8	69	41008	5.32	other		
gi 70800152	LmjF27.2410	aldo-keto reductase-like protein	Leishmania major strain Friedlin	0.13	2	7.8	87	41562	7.29	other		
gi 157867093	LmjF16.0230	protein tyrosine phosphatase-like protein	Leishmania major	0.13	2	6.9	60	19648	8.64	other		
gi 157872821	LmjF30.3280	serine/threonine phosphatase, putative	Leishmania major	0.13	2	6.5	34	40387	5.93	S	x	3
gi 70905601	LmjF35.0110	coatomer zeta subunit, putative	Leishmania major strain Friedlin	0.13	2	6.5	49	20336	4.81	other		
gi 157876415	LmjF34.4550	cell differentiation protein-like protein	Leishmania major	0.13	2	5.3	69	41372	8.51	other		
gi 157870620	LmjF25.1050	frataxin-like protein	Leishmania major	0.13	1	7.9	64	20345	5.54	M		
gi 157874096	LmjF32.2200	small nuclear ribonucleoprotein component-like protein	Leishmania major	0.12	10	5.8	262	110820	5.82	other		
gi 157864248	LmjF06.0650	lanosterol synthase, putative	Leishmania major	0.12	9	5.6	186	114729	7.42	other		1
gi 157864298	LmjF06.0880	acyl-coenzyme A dehydrogenase, putative	Leishmania major	0.12	7	8.7	213	45779	7.98	other		
gi 157875044	LmjF33.1680	thiamine biosynthesis-like protein	Leishmania major	0.12	5	7.4	137	89071	8.72	other		
gi 157870438	LmjF25.0170	cleavage and polyadenylation specificity factor, putative	Leishmania major	0.12	5	6.8	131	90691	5.82	other		
gi 157876291	LmjF34.3970	adaptor gamma-1 chain, putative	Leishmania major	0.12	5	6.3	152	90330	5.53	other		
gi 157870892	LmjF25.2340	protein kinase, putative, serine/threonine-protein kinase, putative	Leishmania major	0.12	4	10.6	151	44528	8.38	other		
gi 157878972	LmjF03.0210	protein kinase, putative	Leishmania major	0.12	3	9.5	133	43202	5.02	other		
gi 157868671	LmjF20.1360	RNasePH-like protein, exosome associated protein 1 (Rrp42 homologue), putative	Leishmania major	0.12	3	8.9	38	42959	5.23	other		
gi 157873297	LmjF31.1750	nucleosome assembly protein-like protein	Leishmania major	0.12	2	5.1	62	45694	4.46	other		
gi 157872287	LmjF30.0970	p22 protein precursor, putative	Leishmania major	0.12	2	4.6	46	22090	4.56	other		
gi 157870614	LmjF25.1020	dehydrogenase-like protein	Leishmania major	0.12	2	3.5	38	45764	5.63	other		
gi 157877985	LmjF36.8890	nuclear pore complex protein (NUP155), putative; nucleoporin, putative	Leishmania major	0.11	10	4.4	231	145022	5.76	other		
gi 157873629	LmjF32.0080	N-myristoyl transferase, putative	Leishmania major	0.11	7	3.1	306	48112	6.15	other		
gi 157875050	LmjF33.1710	protein kinase, putative	Leishmania major	0.11	6	4.8	186	72775	6	other		
gi 157876977	LmjF36.2510	nucleoporin interacting component (NUP93), putative	Leishmania major	0.11	5	4.7	120	97838	6.31	other		
gi 157871714	LmjF28.1240	p450 reductase, putative	Leishmania major	0.11	4	4.2	72	73148	6.25	S	x	1
gi 157868894	LmjF21.0610	RNA helicase, putative	Leishmania major	0.11	4	3.9	106	74992	9.03	other		
gi 157872111	LmjF30.0150	leucine-rich repeat protein, putative	Leishmania major	0.11	2	6.0	92	23277	6.06	other		1
gi 157868715	LmjF20.1640	phosphatase-like protein	Leishmania major	0.11	2	5.2	48	23637	5.08	other		
gi 157865012	LmjF09.0400	protein kinase, putative	Leishmania major	0.11	2	4.5	70	49888	8.98	other		
gi 157876592	LmjF36.0700	MP18 RNA editing complex protein, putative	Leishmania major	0.11	1	5.2	76	24624	8.24	M		
gi 70905980	LmjF35.3950	U5 snRNA-associated splicing factor	Leishmania major strain Friedlin	0.10	14	4.1	274	278569	8.33	other		
gi 157871524	LmjF28.0330	rrp44p homologue, putative	Leishmania major	0.10	7	4.7	115	104769	5.39	other		
gi 157876628	LmjF36.0870	DEAH-box RNA helicase, putative	Leishmania major	0.10	5	4.8	138	104465	6.44	other		
gi 157877586	LmjF36.5240	glycosyl hydrolase, putative	Leishmania major	0.10	5	4.7	183	128471	6.33	other		
gi 157875013	LmjF33.1540	elongation factor 1-gamma, putative	Leishmania major	0.10	4	9.1	87	24824	6.16	other		
gi 37727637	LmjF11.0990	beta adaption	Leishmania mexicana mexicana	0.10	4	5.7	119	108251	5.62	other		
gi 70905706	LmjF35.1200	pre-mRNA splicing factor ATP-dependent RNA helicase, putative	Leishmania major strain Friedlin	0.10	4	5.7	70	80532	7.22	other		
gi 157865616	LmjF11.0470	pumilio-repeat, RNA-binding protein, putative	Leishmania major	0.10	4	2.9	141	82357	7.64	other		
gi 157875133	LmjF33.2100	glycerolphosphate mutase, putative	Leishmania major	0.10	3	5.1	100	55305	6.54	M		
gi 157864360	LmjF06.1180	protein kinase, putative	Leishmania major	0.10	3	3.5	73	51628	6.51	other		
gi 70905708	LmjF35.1220	short chain dehydrogenase, putative	Leishmania major strain Friedlin	0.10	3	3.4	44	25201	8.15	other		
gi 157873777	LmjF32.0750	RNA binding protein, putative	Leishmania major	0.10	2	5.5	88	25225	10.45	other		
gi 70800150	LmjF27.2390	TPR-repeat protein, putative	Leishmania major strain Friedlin	0.10	2	5.1	79	53837	6.47	other		
gi 157865742	LmjF11.1100	lanosterol 14-alpha-demethylase, putative	Leishmania major	0.10	2	4.8	61	54828	6.89	secreted	x	
gi 157868314	LmjF19.1270	RNA binding protein, putative	Leishmania major	0.10	2	4.4	26	24786	4.36	other		
gi 61696998	LmjF32.2270	collagen-binding protein	Leishmania mexicana	0.10	2	3.5	53	52846	4.76	other		
gi 157867592	LmjF17.0920	ATP-dependent RNA helicase, putative	Leishmania major	0.09	15	5.6	385	262166	5.65	other		
gi 157873197	LmjF31.1270	p-glycoprotein e	Leishmania major	0.09	8	5.5	165	184280	6.61	other		10
gi 157875274	LmjF33.2740	translation initiation factor if-2, putative	Leishmania major	0.09	6	4.9	123	92912	6.34	other		
gi 157868856	LmjF21.0470	vacuolar sorting-associated-like protein	Leishmania major	0.09	6	4.8	133	112378	5.62	other		
gi 157868786	LmjF21.0125	DNA topoisomerase 1A	Leishmania major	0.09	5	5.2	252	89726	9.22	other		
gi 157869519	LmjF22.1600	Ser/Thr protein phosphatase, putative	Leishmania major	0.09	5	4.8	152	86548	8.31	other		
gi 70900019	LmjF27.1130	intraflagellar transport protein IF789, putative	Leishmania major strain Friedlin	0.09	4	4.8	45	91749	6.21	other		
gi 157872947	LmjF31.0110	FCO-GAP repeat protein, putative; intergrin alpha chain protein, putative	Leishmania major	0.09	4	4.5	89	86868	4.89	S	x	1
gi 157873354	LmjF36.1950	DEAD-box RNA helicase, putative	Leishmania major	0.09	3	5.9	82	59512	9.16	other		
gi 157868780	LmjF15.0270	replication factor A 28 kDa subunit, putative	Leishmania major	0.09	3	4.7	178	27508	9.34	other		
gi 157877098	LmjF36.3020	exosome complex exonuclease RRP41, putative	Leishmania major	0.09	2	8.5	45	27540	6.8	other		
gi 157866128	LmjF13.0260	N-acetyltransferase subunit ARD1, putative	Leishmania major	0.09	2	6.2	56	28817	9.13	other		
gi 157869337	LmjF24.0010	pyruvate dehydrogenase (lipoamide) kinase, putative	Leishmania major	0.09	2	6.0	85	55847	7.55	secreted	x	
gi 157869473	LmjF22.1370	intraflagellar transport protein-like protein	Leishmania major	0.09	2	4.3	82	61545	5.57	other		
gi 76363764	LmjF04.0820	hypothetical protein L4830.02	Leishmania major	0.09	2	4.2	44	55871	8.71	other		
gi 157875977	LmjF34.2510	protein phosphatase 2c-like protein	Leishmania major	0.09	2	4.0	150	30084	4.99	other		
gi 157875135	LmjF33.2110	phosphoglycerate mutase, putative	Leishmania major	0.09	2	3.9	59	55735	7.18	M		
gi 76363611	LmjF04.0060	DNA topoisomerase I-related protein	Leishmania major strain Friedlin	0.09	2	3.1	29	28196	6.64	other		
gi 157864073	LmjF05.1060	ATPase, putative	Leishmania major	0.09	2	3.1	79	55734	6.9	other		
gi 157867323	LmjF16.1350	DNA-directed RNA polymerase I largest subunit, putative	Leishmania major	0.08	8	3.2	169	201192	7.1	other		
gi 157873900	LmjF32.1340	cleavage and polyadenylation specificity factor-like protein	Leishmania major	0.08	7	4.7	223	168796	6.12	secreted	x	
gi 157872731	LmjF30.2900	aldehyde dehydrogenase, putative	Leishmania major	0.08	6	5.8	151	64745	6.68	other		
gi 157864208	LmjF06.0460	ATP-NAD kinase-like protein	Leishmania major	0.08	6	3.3	80	136818	6.23	other		
gi 157871750	LmjF28.1420	DNA polymerase IV, putative; DNA polymerase kappas, putative	Leishmania major	0.08	5	4.3	44	67444	8.63	other		
gi 157867995	LmjF18.1420	pumilio protein, putative	Leishmania major	0.08	4	4.0	108	97058	6.41	other		
gi 70905699	LmjF35.1130	oligosaccharyl transferase-like protein	Leishmania major strain Friedlin	0.08	4	2.2	50	95384	8.71	other		11
gi 70800158	LmjF27.2470	protein kinase, putative	Leishmania major strain Friedlin	0.08	3	5.3	136	63607	8.99	other		
gi 157868076	LmjF19.0140	protein kinase, putative	Leishmania major	0.08	3	4.3	112	68888	9.55	other		
gi 157868348	LmjF19.1390	transcription initiation factor-like protein (TFIID-like protein)	Leishmania major	0.08	3	4.1	69	31362	5.34	other		
gi 157877214	LmjF36.3570	signal recognition particle receptor like protein, putative	Leishmania major	0.08	3	4.1	34	66043	6.69	other		
gi 157870582	LmjF25.0870	protein kinase, putative	Leishmania major	0.08	3	3.1	78	31808	8.48	other		
gi 157875583	LmjF34.0850	serine/threonine-protein phosphatase PP1, putative	Leishmania major	0.08	2	20.3	58	34114	5.36	other		
gi 70799612	LmjF29.0780	U-box domain protein, putative	Leishmania major strain Friedlin	0.08	2	4.7	96	67194	5.35	other		
gi 157867516	LmjF17.0580	bis(5--nucleosyl)-tetraphosphatase, symmetric a-Ii keprotein	Leishmania major	0.08	2	2.9	58	34057	8.7	other		



gii157871307	LmjF26.1970	electron transport protein SCO1/SCO2, putative	Leishmania major	0.08	1	4.5	29	32876	5.25	A		1	
gii157871307	LmjF04.0020	truncated putative peritidine transporter	Leishmania major strain Friedlin	0.08	1	2.7	28	33644	8.95	A		7	
gii157876832	LmjF36.1840	DEAD box RNA helicase, putative	Leishmania major	0.07	11	2.1	377	73779	9.04	other			
gii157876411	LmjF34.4530	phosphatidylinositol 3-kinase (Ipk2)-like protein	Leishmania major	0.07	7	3.1	228	278076	5.97	other			
gii157865602	LmjF11.0400	tubulin-tyrosine ligase-like protein	Leishmania major	0.07	6	3.1	144	120054	8.87	other			
gii157875165	LmjF33.2260	glycosyl hydrolase-like protein	Leishmania major	0.07	5	3.0	32	156177	6.25	other			
gii157868045	LmjF18.1660	gamma-glutamylcysteine synthetase, putative	Leishmania major	0.07	5	2.8	90	79002	5.81	other			
gii157874066	LmjF32.2060	ABC transporter-like protein	Leishmania major	0.07	5	1.9	235	77960	6.32	A		6	
gii1578727639	LmjF08.0090	della adpAtn	Leishmania mexicana mexicana	0.07	4	5.6	82	118252	5.82	S	x		x
gii157867564	LmjF17.0735	lysine decarboxylase-like protein	Leishmania major	0.07	4	3.7	107	35377	5.1	other			
gii170905623	LmjF35.0330	short chain dehydrogenase, putative	Leishmania major strain Friedlin	0.07	4	3.3	99	36163	8.83	S	x	1	
gii170905985	LmjF35.4000	MAP kinase kinase-like protein	Leishmania major strain Friedlin	0.07	4	2.8	111	148025	5.89	other			
gii157879055	LmjF03.0620	mitochondrial	Leishmania major	0.07	3	4.1	93	72489	6.63	other			
gii157870512	LmjF25.0530	ABC transporter, putative	Leishmania major	0.07	3	3.8	180	72359	9.1	M		4	
gii157876043	LmjF34.2820	regulatory subunit of protein kinase a-like protein	Leishmania major	0.07	3	3.7	80	72028	6.42	other			
gii157872245	LmjF30.0780	mitochondrial oligo_U binding protein TBRGG1, putative	Leishmania major	0.07	3	3.2	85	72929	7.67	secreted	x		
gii157868396	LmjF19.1620	potassium voltage-gated channel, putative	Leishmania major	0.07	2	7.5	61	34900	5.62	M			
gii157866870	LmjF15.0770	protein kinase, putative	Leishmania major	0.07	2	4.4	109	74087	5.94	other			
gii17099609	LmjF29.0750	U3 small nucleolar ribonucleoprotein protein MPP10, putative	Leishmania major strain Friedlin	0.07	2	3.7	63	75575	4.88	other			
gii157877072	LmjF36.2890	ATP-binding cassette protein, putative	Leishmania major	0.07	2	3.0	87	73069	6.25	other		6	
gii157875920	LmjF34.2290	G-actin binding protein, putative, twinfilin, putative	Leishmania major	0.07	2	2.7	33	35861	6.46	other			
gii157871782	LmjF28.1570	hydrolase, alpha/beta fold family, putative	Leishmania major	0.07	2	2.6	41	38545	8.93	other			
gii157877336	LmjF36.4070	phosphoglycerate mutase-like protein	Leishmania major	0.07	1	4.0	39	39114	9.07	secreted	x		
gii157871926	LmjF28.2280	DNA topoisomerase II	Leishmania major	0.06	8	3.0	102	169139	6.59	other			
gii157864812	LmjF07.1050	cation-transporting ATPase, putative	Leishmania major	0.06	6	3.1	59	140597	8.98	A		10	
gii157868752	LmjF15.0170	protein phosphatase 2C, putative	Leishmania major	0.06	6	3.0	149	44682	6.51	other			
gii157870530	LmjF25.0620	RNA polymerase I second largest subunit, putative	Leishmania major	0.06	5	3.0	168	183248	8.16	M			
gii157868539	LmjF30.0650	rRNA biogenesis protein-like protein	Leishmania major	0.06	4	2.4	50	81232	8.05	other			
gii157866774	LmjF15.0240	nonspecific lipid-transfer protein, putative; sterol carrier protein, putative	Leishmania major	0.06	3	6.4	67	44029	6.5	M			
gii17836365	LmjF04.0330	hypothetical protein L2743.03	Leishmania major strain Friedlin	0.06	3	2.5	70	94828	6.52	M			
gii157866964	LmjF15.1210	inositol(1-phosphatidylinositol) phosphatase, putative	Leishmania major	0.06	3	2.4	71	87151	6.28	other		x	
gii157871896	LmjF28.1150	long-chain-fatty-acid-coA ligase protein, putative	Leishmania major	0.06	3	2.4	55	82419	6.52	other			
gii157872584	LmjF30.2250	zinc-finger protein, conserved	Leishmania major	0.06	3	2.4	66	42383	8.47	other			
gii157879051	LmjF03.0600	arginine N-methyltransferase, putative	Leishmania major	0.06	2	4.9	38	44712	5.97	other			
gii17099608	LmjF29.0740	peroxisomal targeting signal type 2 receptor, putative	Leishmania major strain Friedlin	0.06	2	3.5	48	41182	8.41	other			
gii157867616	LmjF17.1050	esterase-like protein, hydrolase-like protein	Leishmania major	0.06	2	2.8	83	42773	6.42	other			
gii157873446	LmjF31.2460	lipase, putative	Leishmania major	0.06	2	2.5	37	40976	6.3	A		1	
gii157875398	LmjF34.0030	protein kinase, putative	Leishmania major	0.06	2	2.3	30	45040	6.03	S	x	1	
gii170906117	LmjF35.5370	diacylglycerol kinase-like protein	Leishmania major strain Friedlin	0.06	2	2.3	56	43095	9.17	M		1	
gii157876938	LmjF36.2330	endonuclease V, putative	Leishmania major	0.06	2	2.3	30	43100	6.34	other			
gii157875861	LmjF34.2050	ATP-dependent RNA helicase, putative	Leishmania major	0.06	2	2.1	38	89806	9.57	other			
gii157876027	LmjF34.2750	methyltransferase-like protein	Leishmania major	0.06	2	2.1	45	46773	5.45	other			
gii157877934	LmjF36.6660	ensangp0000010174-like protein; methyltransferase, putative	Leishmania major	0.06	2	1.8	39	45334	8.01	other			
gii157866220	LmjF13.0720	oxidoreductase-like protein	Leishmania major	0.06	1	3.6	26	42635	8.76	secreted	x		
gii157869702	LmjF23.0670	oxidoreductase-like protein	Leishmania major	0.06	1	2.9	39	41877	5.61	secreted	x		
gii157866766	LmjF15.0220	protein phosphatase 1 catalytic subunit, putative	Leishmania major	0.06	1	2.1	27	42986	5.65	secreted	x		
gii157873559	LmjF31.2970	acetyl-CoA carboxylase, putative	Leishmania major	0.05	8	3.4	255	243035	5.96	other			
gii157871303	LmjF26.1950	mitotubule-associated protein Gb4, putative	Leishmania major	0.05	8	2.3	157	297482	4.45	other			
gii157873813	LmjF32.0920	vacuolar proton-ATPase-like protein, putative	Leishmania major	0.05	6	2.8	114	101933	5.47	other		6	
gii157865734	LmjF11.1050	SEC61-like (pretranslocation process) protein, putative; pretranslocation protein, alpha subunit, putative	Leishmania major	0.05	6	1.9	168	54275	9.05	A		9	
gii146091582	LmjF28.0450	ribonuclease II-like protein	Leishmania infantum	0.05	5	2.7	160	106912	6.1	other			
gii157872843	LmjF30.3390	CAS1/SEI/imporin domain protein, putative	Leishmania major	0.05	4	1.9	134	109145	5.42	other			
gii157873972	LmjF36.8430	protein transport protein sec23-like protein	Leishmania major	0.05	4	1.9	105	94864	5.95	other			
gii157871822	LmjF28.1780	DNA topoisomerase III, putative	Leishmania major	0.05	3	2.5	53	97971	8.26	other			
gii157874726	LmjF33.0410	DNA mismatch repair protein, putative; MSH2	Leishmania major	0.05	3	1.6	99	104911	6	other			
gii157876193	LmjF34.3520	peroxisome biogenesis protein-like protein	Leishmania major	0.05	3	1.6	53	103543	7.77	other			
gii157872501	LmjF30.1930	succinyl-coa 3-ketoadid-coenzyme a transferase-like protein	Leishmania major	0.05	2	3.0	152	54263	8.29	other			
gii157875290	LmjF33.2810	transcription elongation factor-like protein	Leishmania major	0.05	2	3.0	68	51055	5.38	other			
gii170800107	LmjF27.1980	FtsJ cell division protein, putative	Leishmania major strain Friedlin	0.05	2	2.7	75	105540	6.85	other			
gii157871257	LmjF26.1730	protein kinase, putative	Leishmania major	0.05	2	2.6	97	115319	6.14	other			
gii17727635	LmjF07.0050	alpha adaptin	Leishmania mexicana mexicana	0.05	2	2.4	51	108187	8.05	other		2	
gii157867892	LmjF17.1410	zinc-finger protein ZPR1, putative	Leishmania major	0.05	2	2.4	31	56537	4.52	other			
gii157868380	LmjF19.1540	choline/Carnitine o-acyltransferase-like protein	Leishmania major	0.05	2	2.4	94	98159	8.34	other			
gii157876816	LmjF36.1760	aldehyde dehydrogenase, putative	Leishmania major	0.05	2	2.4	64	55290	6.9	other			
gii157866629	LmjF14.1070	protein kinase, putative	Leishmania major	0.05	2	2.2	56	101284	5.25	other			
gii3002487	LmjF01.0810	calcium/potassium channel (CAK), putative	Leishmania major strain Friedlin	0.05	2	2.0	66	115024	6.77	M		7	
gii17099707	LmjF29.1640	ABC transporter domain protein, putative	Leishmania major strain Friedlin	0.05	2	1.9	48	50168	5.47	other			
gii157866523	LmjF14.0540	ion transport protein-like protein	Leishmania major	0.05	2	1.8	55	56425	9.7	other		6	
gii157870678	LmjF25.1340	protein transport protein Sec24C, putative	Leishmania major	0.05	2	1.6	54	113007	6.29	other			
gii157870297	LmjF24.1820	short chain dehydrogenase/reductase, putative	Leishmania major	0.05	1	3.0	34	55450	9.06	M			
gii157871013	LmjF26.0490	DNA polymerase sigma-like protein	Leishmania major	0.05	1	2.3	47	52859	9.07	other			
gii157876514	LmjF36.0330	ribonuclease HII, putative	Leishmania major	0.05	1	2.3	43	53694	9.33	M			
gii157866272	LmjF13.0980	AMP deaminase, putative; amp deaminase-like protein	Leishmania major	0.04	6	3.7	82	183456	6.47	other			
gii157869622	LmjF23.0380	ABC transporter-like protein	Leishmania major	0.04	6	1.8	209	137209	5.95	S	x	10	
gii157868623	LmjF20.1120	phosphatidylinositol 3-kinase, putative	Leishmania major	0.04	5	1.6	67	362020	6.54	M			
gii157864643	LmjF08.0010	structural maintenance of chromosome 3 protein, putative	Leishmania major	0.04	4	4.2	70	135362	6.27	other			
gii157876208	LmjF34.3590	phosphatidylinositol 4-kinase, putative	Leishmania major	0.04	3	4.1	76	69436	5.47	other			
gii170905812	LmjF35.2270	ATP-dependent RNA helicase-like protein	Leishmania major strain Friedlin	0.04	3	2.8	90	127643	5.65	secreted	x		
gii157871804	LmjF28.1690	sulfate transporter-like protein	Leishmania major	0.04	3	2.1	91	216583	6.67	A		11	
gii157865750	LmjF11.1160	protein transport protein sec31, putative	Leishmania major	0.04	3	1.6	74	123239	6.1	secreted	x		
gii157869979	LmjF24.0230	protein kinase, putative	Leishmania major	0.04	2	3.5	48	58054	5.49	other			
gii157864821	LmjF08.0900	mitochondrial DNA polymerase beta-PAK, putative	Leishmania major	0.04	2	2.7	74	72693	9.19	other			

gii170905727	LmjF35.1420	peroxisome targeting signal 1 receptor, putative	Leishmania major strain Friedlin	0.04	2	1.6	31	70866	4.47	other			
gii157863947	LmjF05.0460	GTPase, putative	Leishmania major	0.04	2	1.3	30	71678	9.48	other			
gii157877142	LmjF36.3230	oxidoreductase, putative	Leishmania major	0.04	1	1.3	38	58481	8.95	S	x		x
gii170799685	LmjF29.1450	phosphatidylinositol-kinase domain protein, putative	Leishmania major strain Friedlin	0.03	4	1.5	137	293698	8.12	secreted	x		
gii157868092	LmjF19.0220	polyprenyl synthase, putative	Leishmania major	0.03	4	1.2	86	83759	5.3	other			
gii157876726	LmjF36.1340	N-acetyltransferase subunit Nat1, putative	Leishmania major	0.03	3	2.3	45	82125	7.3	other			
gii157870393	LmjF24.2290	cutin-like protein-like protein	Leishmania major	0.03	3	2.0	39	86470	6.78	other			
gii157875540	LmjF34.0670	ABC transporter-like protein	Leishmania major	0.03	3	1.4	74	228876	8.92	M		9	
gii157864534	LmjF07.0700	topoisomerase-related function protein-like protein	Leishmania major	0.03	3	0.8	73	99908	7.31	secreted	x		
gii157863932	LmjF05.0390	protein kinase, putative	Leishmania major	0.03	2	2.4	162	77049	5.1	secreted	x		
gii157871812	LmjF28.0760	DNA repair protein, putative	Leishmania major	0.03	2	1.8	38	83763	9.21	other			
gii157866599	LmjF14.0920	mitochondrial DNA polymerase I protein C, putative	Leishmania major	0.03	2	1.6	89	171773	8.53	other			
gii170799929	LmjF27.0240	kinetoplast-associated protein-like protein	Leishmania major strain Friedlin	0.03	2	1.4	71	78813	4.25	other			
gii157870191	LmjF24.1300	DNAJ-domain protein, putative	Leishmania major	0.03	1	1.6	59	89150	5.88	M			
gii157865275	LmjF10.0170	guanosine diphosphatase, putative; nucleoside phosphatase, putative	Leishmania major	0.03	1	1.3	33	73975	6.73	S	x	1	
gii171746036	LmjF02.0410	RNA-editing complex protein MP81, putative	Leishmania major	0.03	1	1.1	61	102915	5.35	other			
gii154346674	LmjF36.6320	phosphatidylinositol 3 kinase, putative	Leishmania braziliensis	0.02	11	1.2	64	294639	6.41	other			
gii171745994	LmjF02.0300	ABC1 transporter, putative	Leishmania major	0.02	6	0.6	55	263796	6.45	S	x	14	
gii157872576	LmjF30.2210	endosomal trafficking protein RME-8, putative	Leishmania major	0.02	4	1.6	92	276016	6.12	secreted	x		
gii157875886	LmjF34.2150	eukaryotic translation initiation factor 2-alpha kinase precursor, putative; protein kinase, putative	Leishmania major	0.02	3	1.2	34	159738	5.96	A			
gii157866176	LmjF13.0500	RNA helicase, putative	Leishmania major	0.02	3	1.1	62	226745	6.13	other			
gii157875048	LmjF33.1700	DNA-dependent ATPase, putative; transcription activator	Leishmania major	0.02	3	0.8	98	126249	7.19	other			
gii157868166	LmjF19.0590	protein kinase, putative	Leishmania major	0.02	3	0.6	40	127692	5.61	other			
gii157876991	LmjF36.2560	related to multifunctional cyclin-dependent kinase p90S-like protein	Leishmania major	0.02	2	2.7	26	110212	6.01	other			
gii157869734	LmjF23.0830	NapH antiporter-like protein	Leishmania major	0.02	2	1.7	74	166380	6.41	A		12	
gii157870339	LmjF24.2020	tubulin folding cofactor D, putative	Leishmania major	0.02	2	1.4	88	156674	5.71	other			
gii157868802	LmjF21.0200	major vault protein-like protein	Leishmania major	0.02	2	1.0	85	105958	5.74	other			
gii157871852	LmjF28.0940	oxidoreductase-like protein	Leishmania major	0.02	2	1.0	26	108565	5.95	other			
gii157874893	LmjF33.1010	calcium-transporting ATPase, putative	Leishmania major	0.02	2	1.0	41	129685	6.11	other		8	
gii157877414	LmjF36.4400	ATP-dependent RNA helicase-like protein	Leishmania major	0.02	2	1.0	49	107231	9.4	other			
gii157872349	LmjF30.1280	vacuolar assembly protein vps41, putative	Leishmania major	0.02	2	0.8	54	159131	6.11	other			
gii157877058	LmjF36.2830	deadH helicase, putative; pre-mrna splicing factor ATP-dependent RNA helicase, putative	Leishmania major	0.02	2	0.6	35	123808	5.57	other			
gii157871564	LmjF28.0530	PAD50 DNA repair-like protein	Leishmania major	0.02	1	0.7	68	155210	5.98	other			
gii157863930	LmjF05.0380	microtubule-associated protein, putative	Leishmania major	0.01	5	1.3	48	206884	4.53	other			
gii157865762	LmjF11.1220	ABC transporter, putative	Leishmania major	0.01	1	0.6	40	198671	6.87	A		15	
<b>hypothetical protein</b>													
gii157875993	LmjF34.2580	hypothetical protein, conserved	Leishmania major	2.29	27	36.1	819	22634	9.75	other			
gii157872827	LmjF30.3310	hypothetical protein, conserved	Leishmania major	2.18	45	40.2	860	41095	5.25	other			
gii157872715	LmjF30.2845	hypothetical protein, conserved	Leishmania major	1.69	12	36.5	177	11838	9.25	A		1	
gii157864522	LmjF07.0640	hypothetical protein, conserved	Leishmania major	1.51	39	36.7	1116	38099	5.42	other			
gii157874092	LmjF32.2180	hypothetical protein, conserved	Leishmania major	1.31	24	35.2	767	26532	5.55	other			
gii157864861	LmjF08.1100	hypothetical protein, conserved	Leishmania major	1.29	34	24.7	510	42247	8.2	secreted	x		
gii157869914	LmjF23.1480	hypothetical protein, conserved	Leishmania major	1.25	23	27.3	582	27460	5.41	other			
gii157870738	LmjF25.1620	hypothetical protein, conserved	Leishmania major	1.04	13	33.8	165	16874	8.99	other			
gii157870357	LmjF24.2110	hypothetical protein, conserved	Leishmania major	0.97	41	30.5	1299	55619	6.41	secreted	x		
gii157864930	LmjF09.0100	calmodulin-like protein containing EF hand domain; hypothetical protein, conserved	Leishmania major	0.92	41	30.8	994	65707	5.32	other			
gii157869874	LmjF23.1410	hypothetical protein, conserved	Leishmania major	0.87	15	20.2	413	27653	8.25	other			
gii157867392	LmjF17.0010	hypothetical protein, conserved	Leishmania major	0.83	53	23.8	1211	86598	8.66	other			
gii157877426	LmjF36.4460	hypothetical protein, conserved	Leishmania major	0.73	12	21.9	262	17641	7.71	secreted	x		
gii157871660	LmjF28.0980	hypothetical protein, conserved	Leishmania major	0.71	10	8.8	223	27752	9.45	other			
gii157870367	LmjF24.2160	hypothetical protein, conserved	Leishmania major	0.68	13	16.8	285	38716	8.92	secreted	x		
gii157874327	LmjF32.3210	hypothetical protein, conserved	Leishmania major	0.66	8	29.8	360	24302	6.18	other			
gii170800039	LmjF27.1300	hypothetical protein, conserved	Leishmania major strain Friedlin	0.65	33	22.7	840	60385	8.28	other			
gii157865664	LmjF11.0690	hypothetical protein, conserved	Leishmania major	0.63	10	29.6	244	25290	5.93	other			
gii170800076	LmjF27.1680	hypothetical protein, conserved	Leishmania major strain Friedlin	0.60	24	21.3	665	69070	9.36	other			
gii157866463	LmjF14.0240	hypothetical protein, conserved	Leishmania major	0.59	6	16.9	271	15535	6.14	other			
gii157865134	LmjF09.1010	hypothetical protein, conserved	Leishmania major	0.57	19	17.6	471	67603	5.28	S	x	1	
gii157871834	LmjF28.1840	hypothetical protein, conserved	Leishmania major	0.56	16	22.2	445	27664	5.93	other			
gii170800109	LmjF27.2000	hypothetical protein, conserved	Leishmania major strain Friedlin	0.55	8	26.9	237	22422	4.72	other			
gii157866453	LmjF14.0190	hypothetical protein, conserved	Leishmania major	0.55	8	17.6	151	22485	4.63	other			
gii157877930	LmjF36.8640	hypothetical protein, conserved	Leishmania major	0.54	7	23.9	214	22607	5.11	other			
gii157863945	LmjF05.0450	hypothetical protein, conserved	Leishmania major	0.54	7	16.8	157	22693	4.81	other			
gii157877954	LmjF36.8760	hypothetical protein, conserved	Leishmania major	0.53	13	15.5	338	28038	5.53	other			
gii157868451	LmjF30.0240	hypothetical protein, conserved	Leishmania major	0.53	9	26.1	271	28238	8.98	S		1	
gii157872006	LmjF28.2660	hypothetical protein, conserved	Leishmania major	0.53	5	35.6	106	17037	6.08	other	x		
gii170905997	LmjF35.4110	hypothetical protein, conserved	Leishmania major strain Friedlin	0.52	12	20.0	219	23258	5.66	other			
gii157872301	LmjF30.1040	hypothetical protein, conserved	Leishmania major	0.52	11	18.8	155	28656	8.76	secreted	x		
gii157877558	LmjF36.5100	hypothetical protein, conserved	Leishmania major	0.51	46	16.2	1308	106758	7.2	other			
gii170800062	LmjF27.1530	hypothetical protein, conserved	Leishmania major strain Friedlin	0.51	9	15.7	452	11488	7.93	other			
gii157870736	LmjF25.1610	hypothetical protein, conserved	Leishmania major	0.50	12	21.2	446	36936	6.17	other			
gii157873165	LmjF31.1110	hypothetical protein, conserved	Leishmania major	0.50	5	18.6	114	24171	9.44	S	x	2	
gii157873819	LmjF32.0950	hypothetical protein, conserved	Leishmania major	0.49	29	21.3	532	102364	6.09	other			
gii157866726	LmjF15.0040	hypothetical protein, conserved	Leishmania major	0.48	10	18.7	309	37922	5.91	other			
gii157868848	LmjF21.0430	hypothetical protein, conserved	Leishmania major	0.48	9	16.1	129	44830	9.35	other			
gii170906013	LmjF35.4270	hypothetical protein, conserved	Leishmania major strain Friedlin	0.46	9	23.7	70	19364	9.51	other			
gii170799970	LmjF27.0650	hypothetical protein, conserved	Leishmania major strain Friedlin	0.45	6	21.0	166	19618	9.71	other		2	
gii157874084	LmjF32.2150	hypothetical protein, conserved	Leishmania major	0.44	36	15.3	990	119462	4.57	other			
gii157872851	LmjF30.3430	hypothetical protein, conserved	Leishmania major	0.44	27	18.8	649	91182	5.1	other			
gii157875991	LmjF34.2570	hypothetical protein, conserved	Leishmania major	0.44	11	19.5	205	55827	5.47	other			
gii157873640	LmjF32.0130	hypothetical protein, conserved	Leishmania major	0.44	5	11.3	153	27120	4.98	other			
gii170799631	LmjF29.0920	hypothetical protein, conserved	Leishmania major strain Friedlin	0.43	17	22.2	532	56862	9.61	M		1	
gii170905928	LmjF35.3440	hypothetical protein, conserved	Leishmania major strain Friedlin	0.43	7	18.8	123	13344	5.23	other			

gii157865513	LmjF10.1280	hypothetical protein, conserved	Leishmania major	0.42	7	17.4	173	35659	5.04	other			
gii157866575	LmjF14.0780	hypothetical protein, conserved	Leishmania major	0.42	6	17.2	137	21050	9.18	other			
gii157866166	LmjF13.0450	hypothetical protein, conserved	Leishmania major	0.42	6	14.9	115	13379	5.26	other			
gii157875574	LmjF34.0815	hypothetical protein, conserved	Leishmania major	0.42	4	20.0	169	13473	9.72	other			
gii157874351	LmjF32.3330	hypothetical protein, conserved	Leishmania major	0.42	2	9.6	42	13457	10.58	M		1	
gii157872910	LmjF30.3680	hypothetical protein, conserved	Leishmania major	0.41	13	9.7	372	51130	5.57	other			
gii157869102	LmjF21.1500	hypothetical protein, conserved	Leishmania major	0.41	11	19.9	212	86049	6.85	other			
gii157873748	LmjF32.0630	hypothetical protein, conserved	Leishmania major	0.41	9	16.1	224	21170	5.42	other			
gii157867839	LmjF18.0700	hypothetical protein, conserved	Leishmania major	0.39	19	16.7	393	77729	4.46	other			
gii157871650	LmjF28.0930	hypothetical protein, conserved	Leishmania major	0.39	12	17.5	298	45661	5.67	S	x		1
gii157869118	LmjF21.1555	hypothetical protein, conserved	Leishmania major	0.38	16	12.4	206	46704	6.09	S	x		1
gii170800028	LmjF27.1220	hypothetical protein, conserved	Leishmania major strain Friedlin	0.38	12	11.4	366	46697	6.11	other			
gii157868066	LmjF19.0090	hypothetical protein, conserved	Leishmania major	0.38	9	13.6	191	46848	6.32	M			2
gii157869558	LmjF23.0060	hypothetical protein, conserved	Leishmania major	0.37	9	9.3	102	48383	5.31	other			
gii170900007	LmjF27.1020	hypothetical protein, conserved	Leishmania major strain Friedlin	0.37	4	14.6	80	23150	7.77	other			2
gii157870902	LmjF25.2410	hypothetical protein, conserved	Leishmania major	0.35	39	10.5	979	109923	7.53	other			
gii157867303	LmjF16.1250	hypothetical protein, conserved	Leishmania major	0.35	2	12.0	75	15908	9.42	other			
gii157876107	LmjF34.3100	hypothetical protein, conserved	Leishmania major	0.34	12	13.4	418	43107	8.87	other			
gii157876508	LmjF36.0310	hypothetical protein, conserved	Leishmania major	0.34	4	13.9	102	25562	6.5	other			
gii157869612	LmjF23.0330	hypothetical protein, conserved	Leishmania major	0.34	3	10.5	74	25368	9.2	other			1
gii157867957	LmjF18.1260	hypothetical protein, conserved	Leishmania major	0.33	8	19.7	234	35034	9.88	other			2
gii157865511	LmjF10.1270	hypothetical protein, conserved	Leishmania major	0.33	7	9.9	225	35421	6.07	other			
gii157864753	LmjF09.0560	hypothetical protein, conserved	Leishmania major	0.33	6	16.0	108	26216	9.46	other			
gii157871045	LmjF26.0680	hypothetical protein, conserved	Leishmania major	0.33	6	12.4	81	25709	6.97	S	x		1
gii157874213	LmjF32.2720	hypothetical protein, conserved	Leishmania major	0.33	5	22.1	103	116899	5.22	other			
gii157867965	LmjF18.0800	hypothetical protein, conserved	Leishmania major	0.33	4	15.1	58	25309	9.55	M			
gii157872307	LmjF30.1070	hypothetical protein, conserved	Leishmania major	0.33	3	12.9	112	25741	8.99	M			
gii157871864	LmjF28.1990	hypothetical protein, conserved	Leishmania major	0.32	29	16.7	888	81351	9.2	other			
gii76363653	LmjF04.0270	hypothetical protein, conserved	Leishmania major strain Friedlin	0.32	7	10.2	113	54298	7.21	other			
gii170800031	LmjF27.1250	hypothetical protein, conserved	Leishmania major strain Friedlin	0.32	5	18.7	195	35738	5.79	other			
gii157867151	LmjF16.0520	hypothetical protein, conserved	Leishmania major	0.31	11	13.4	148	37281	6.51	secreted	x		
gii157866507	LmjF14.0450	hypothetical protein, conserved	Leishmania major	0.31	9	11.3	134	37009	4.95	other			
gii170905609	LmjF35.0190	hypothetical protein, conserved	Leishmania major strain Friedlin	0.31	6	9.6	124	27495	5.77	other			
gii170800129	LmjF27.2200	hypothetical protein, conserved	Leishmania major strain Friedlin	0.31	5	15.9	101	27497	5.51	other			
gii157874283	LmjF32.3010	hypothetical protein, conserved	leucine rich repeat protein, putative	0.30	26	10.9	636	97475	5.12	other			
gii157877329	LmjF36.4040	hypothetical protein, conserved	Leishmania major	0.30	10	10.5	401	47243	4.25	other			
gii170799726	LmjF29.1840	hypothetical protein, conserved	Leishmania major strain Friedlin	0.30	7	12.7	231	37701	8.26	other			
gii157868766	LmjF21.0040	hypothetical protein, conserved	Leishmania major	0.30	6	9.8	115	28239	5.39	other			
gii157868926	LmjF21.0800	hypothetical protein, conserved	Leishmania major	0.29	58	13.0	1519	250810	6.98	other			
gii157869132	LmjF21.1567	hypothetical protein, conserved	Leishmania major	0.29	7	10.9	127	38775	8.01	A			1
gii170906069	LmjF35.4860	hypothetical protein, conserved	Leishmania major strain Friedlin	0.29	7	10.6	188	38690	8.81	other			
gii157871301	LmjF26.1940	hypothetical protein, conserved	Leishmania major	0.29	6	10.1	86	39610	10.22	M			
gii157873710	LmjF36.3170	hypothetical protein, conserved	Leishmania major	0.29	5	14.0	161	38628	4.99	other			
gii157866659	LmjF14.1210	hypothetical protein, conserved	Leishmania major	0.29	5	12.6	77	29087	9	other			
gii157871367	LmjF26.2270	hypothetical protein, conserved	Leishmania major	0.29	4	10.8	167	29220	5.73	M			
gii157866605	LmjF14.0950	hypothetical protein, conserved	Leishmania major	0.29	4	9.5	135	19089	10.22	M			
gii170906088	LmjF35.5070	hypothetical protein, conserved	Leishmania major strain Friedlin	0.29	3	13.1	87	19361	4.09	other			
gii157869263	LmjF22.0300	hypothetical protein, conserved	Leishmania major	0.28	12	11.6	412	60669	8.38	other			
gii157872225	LmjF30.0705	hypothetical protein, conserved	Leishmania major	0.28	5	14.3	148	29878	8.05	other			
gii170906109	LmjF35.5270	hypothetical protein, conserved	Leishmania major strain Friedlin	0.28	5	12.4	211	40515	5.08	other			
gii157870991	LmjF26.0360	hypothetical protein, conserved	Leishmania major	0.28	4	10.1	142	29821	9.1	other			
gii157873271	LmjF31.1620	hypothetical protein, conserved	Leishmania major	0.28	2	25.1	38	19529	5.16	other			
gii157864480	LmjF07.0450	hypothetical protein, conserved	Leishmania major	0.28	2	10.8	34	19683	9.97	other			
gii170799625	LmjF29.0870	hypothetical protein, conserved	Leishmania major strain Friedlin	0.27	11	11.4	353	53485	7.73	other			
gii157870524	LmjF25.0590	hypothetical protein, conserved	Leishmania major	0.27	6	7.1	196	20147	8.51	other			
gii157871534	LmjF28.0380	hypothetical protein, conserved	Leishmania major	0.26	8	9.2	286	42708	8.53	other			
gii157867707	LmjF18.0010	hypothetical protein, conserved	Leishmania major	0.25	17	8.4	634	114378	6.18	secreted	x		
gii157870822	LmjF25.2020	hypothetical protein, conserved	Leishmania major	0.25	4	12.9	106	33120	5.52	other			
gii13669563	LmjF34.3640	A600-4 protein	Leishmania mexicana	0.25	3	15.1	141	10436	9.69	S	x		1
gii157879069	LmjF03.0690	hypothetical protein, conserved	Leishmania major	0.24	43	9.8	1033	249125	6.04	other			
gii170799751	LmjF29.2100	hypothetical protein, conserved	Leishmania major strain Friedlin	0.24	14	7.2	596	89899	5.99	secreted	x		
gii157871902	LmjF28.2170	hypothetical protein, conserved	Leishmania major	0.24	10	12.8	224	71802	5.13	other			
gii157877568	LmjF36.5150	hypothetical protein, conserved	Leishmania major	0.24	10	9.4	256	71504	5.95	other			
gii157871295	LmjF26.1860	hypothetical protein, conserved	Leishmania major	0.24	9	6.2	310	57624	5.78	other			1
gii157874152	LmjF32.2440	hypothetical protein, conserved	Leishmania major	0.24	6	12.0	141	46102	4.8	other			
gii157868824	LmjF21.0310	hypothetical protein, conserved	Leishmania major	0.24	4	8.4	214	35042	8.76	secreted	x		
gii157871848	LmjF28.0920	hypothetical protein, conserved	Leishmania major	0.24	2	11.1	41	22527	10	other			
gii157877790	LmjF36.6060	hypothetical protein, conserved	Leishmania major	0.23	13	11.8	333	85209	5.85	other			
gii157867482	LmjF33.2040	hypothetical protein, conserved	Leishmania major	0.23	12	9.9	359	87068	5.52	other			
gii157872143	LmjF30.0319	hypothetical protein, conserved	Leishmania major	0.23	12	9.5	289	135599	5.38	other			
gii170799566	LmjF29.0320	hypothetical protein, conserved	Leishmania major strain Friedlin	0.23	8	6.9	277	36590	5.24	secreted	x		
gii157872792	LmjF30.3150	hypothetical protein, conserved	Leishmania major	0.23	6	11.8	226	23390	5.26	S	x		1
gii170905841	LmjF35.2570	hypothetical protein, conserved	Leishmania major strain Friedlin	0.23	5	8.8	118	24223	11	other			
gii157867436	LmjF17.0120	hypothetical protein, conserved	Leishmania major	0.23	3	11.4	54	36505	5.82	other			
gii157864304	LmjF06.0910	hypothetical protein, conserved	Leishmania major	0.23	3	9.5	47	23699	9.61	S	x		2
gii157876570	LmjF36.0590	hypothetical protein, conserved	Leishmania major	0.23	2	9.1	67	23961	6.44	secreted	x		
gii157872319	LmjF30.1130	hypothetical protein, conserved	Leishmania major	0.23	1	8.5	35	11325	9.59	M			
gii157867482	LmjF17.0410	hypothetical protein, conserved	Leishmania major	0.22	28	7.5	621	114705	5.96	other			
gii157870886	LmjF25.2319	hypothetical protein, conserved	Leishmania major	0.22	10	8.0	265	83443	7.18	other			
gii157865700	LmjF11.0880	hypothetical protein, conserved	Leishmania major	0.22	8	8.5	156	37509	8.36	other			
gii170905956	LmjF35.3720	hypothetical protein, conserved	Leishmania major strain Friedlin	0.22	7	15.9	166	50779	7.62	other			
gii157875730	LmjF34.1490	hypothetical protein, conserved	Leishmania major	0.22	7	10.2	263	38443	8.87	other			1
gii157869345	LmjF22.0730	hypothetical protein, conserved	Leishmania major	0.22	7	5.5	139	49917	5.46	other			

gii157865790	LmjF11.1360	hypothetical protein, conserved	Leishmania major	0.22	6	8.0	200	50076	7.75	other			
gii157873835	LmjF32.1030	hypothetical protein, conserved	Leishmania major	0.22	3	12.2	145	24912	5.49	other			
gii157872706	LmjF30.2810	hypothetical protein, conserved	Leishmania major	0.22	3	11.7	145	24741	9.21	other			
gii157865441	LmjF10.0945	hypothetical protein, conserved	Leishmania major	0.22	3	11.2	49	11961	6.41	other			
gii157867327	LmjF16.1370	hypothetical protein, conserved	Leishmania major	0.22	2	9.3	61	11648	6.06	other			
gii157874278	LmjF32.2995	hypothetical protein, conserved	Leishmania major	0.22	1	8.4	33	11860	7.71	other		3	
gii170799550	LmjF29.0150	hypothetical protein, conserved	Leishmania major strain Friedlin	0.21	13	7.5	367	79602	5.04	other			
gii157873687	LmjF32.0350	hypothetical protein, conserved	Leishmania major	0.21	9	10.0	194	51978	8.45	other			
gii157876183	LmjF34.3470	hypothetical protein, conserved	Leishmania major	0.21	8	10.1	218	40045	5.54	other			
gii157871313	LmjF26.2000	hypothetical protein, conserved	Leishmania major	0.21	7	7.2	195	39255	7.59	other		1	
gii157864372	LmjF06.1240	hypothetical protein, conserved	Leishmania major	0.21	6	10.3	195	53332	6.73	secreted	x		
gii157872941	LmjF31.0080	hypothetical protein, conserved	Leishmania major	0.21	6	6.1	145	26044	8.76	other			
gii170800159	LmjF27.2480	WD-repeat protein	Leishmania major strain Friedlin	0.21	5	11.9	166	53696	5.67	other			
gii157868350	LmjF19.1400	hypothetical protein, conserved	Leishmania major	0.21	5	10.5	171	26242	6.37	other			
gii170905712	LmjF35.1260	hypothetical protein, conserved	Leishmania major strain Friedlin	0.21	5	9.7	108	40012	8.81	other			
gii157872829	LmjF30.3320	hypothetical protein, conserved	Leishmania major	0.21	5	7.8	123	39479	6.63	other			
gii157873689	LmjF32.0360	hypothetical protein, conserved	Leishmania major	0.21	5	7.7	104	38581	8.7	other			
gii157877788	LmjF36.6050	hypothetical protein, conserved	Leishmania major	0.21	4	9.1	164	38629	6.75	other			
gii157879128	LmjF03.0960	hypothetical protein, conserved	Leishmania major	0.21	4	6.7	83	12673	9.07	A			
gii157870746	LmjF25.1650	hypothetical protein, conserved	Leishmania major	0.21	3	12.0	89	25830	8.62	M			
gii157867355	LmjF16.1490	hypothetical protein, conserved	Leishmania major	0.21	3	11.3	67	40115	5.88	other			
gii157877460	LmjF36.4630	hypothetical protein, conserved	Leishmania major	0.21	3	9.0	52	25365	7.01	other			
gii170799959	LmjF01.0080	hypothetical protein, conserved	Leishmania major strain Friedlin	0.21	2	11.8	48	25944	8.22	S	x		x
gii157870197	LmjF24.1320	hypothetical protein, conserved	Leishmania major	0.21	2	11.8	45	12309	5.74	other			
gii157869215	LmjF22.0050	hypothetical protein, conserved	Leishmania major	0.20	11	10.6	207	55050	5.95	other			
gii157866471	LmjF14.0280	hypothetical protein, conserved	Leishmania major	0.20	11	7.1	223	109833	6.05	other			
gii157872199	LmjF30.0580	hypothetical protein, conserved	Leishmania major	0.20	10	8.6	236	54492	6.1	other			
gii170905786	LmjF35.1830	hypothetical protein, conserved	Leishmania major strain Friedlin	0.20	8	8.3	149	82744	7.29	other			
gii157876698	LmjF36.1160	hypothetical protein, conserved	Leishmania major	0.20	8	7.6	265	41976	9.47	other			
gii157864446	LmjF07.0290	hypothetical protein, conserved	Leishmania major	0.20	6	10.2	266	27358	5.71	other			
gii157871904	LmjF28.2180	hypothetical protein, conserved	Leishmania major	0.20	5	11.4	120	27477	5.67	other			
gii157865142	LmjF09.1050	hypothetical protein, conserved	Leishmania major	0.20	5	7.3	63	26715	8.9	other		1	
gii170905953	LmjF35.3690	hypothetical protein, conserved	Leishmania major strain Friedlin	0.20	5	6.7	107	27410	9.9	other			x
gii157876125	LmjF34.3190	hypothetical protein, conserved	Leishmania major	0.20	4	9.2	118	56015	8.47	other		2	
gii157873633	LmjF32.0100	hypothetical protein, conserved	Leishmania major	0.20	3	14.7	113	27393	4.87	other			
gii157877508	LmjF36.4860	hypothetical protein, conserved	Leishmania major	0.20	3	7.7	74	26925	5.77	secreted	x		
gii157871778	LmjF28.1550	hypothetical protein, conserved	Leishmania major	0.20	2	13.4	51	27109	9.67	other		2	
gii157876323	LmjF34.4130	hypothetical protein, conserved	Leishmania major	0.19	23	5.4	402	87657	6.08	S	x	2	
gii157873797	LmjF32.0840	hypothetical protein, conserved	Leishmania major	0.19	11	11.6	418	57713	6.97	other			
gii157877637	LmjF36.5460	hypothetical protein, conserved	Leishmania major	0.19	10	10.3	309	57960	8.66	secreted	x		
gii157867265	LmjF16.1065	hypothetical protein, conserved	Leishmania major	0.19	10	6.0	446	28153	10.36	secreted	x		
gii170906002	LmjF35.4160	hypothetical protein, conserved	Leishmania major strain Friedlin	0.19	8	9.8	227	57212	6.34	other			
gii157875272	LmjF33.2730	hypothetical protein, conserved	Leishmania major	0.19	7	12.2	251	57385	6.4	M			
gii157864472	LmjF07.0410	hypothetical protein, conserved	Leishmania major	0.19	6	7.4	127	58297	5.28	other			
gii170906012	LmjF35.4260	hypothetical protein, conserved	Leishmania major strain Friedlin	0.19	5	8.5	97	44072	5.73	other			
gii157868419	LmjF20.0080	hypothetical protein, conserved	Leishmania major	0.19	5	7.9	132	74293	8.9	other			
gii157868382	LmjF19.1550	hypothetical protein, conserved	Leishmania major	0.19	5	7.7	141	43838	6.86	other			
gii157865100	LmjF09.0840	hypothetical protein, conserved	Leishmania major	0.19	5	7.7	101	42878	5.67	secreted	x		
gii157876017	LmjF34.2700	hypothetical protein, conserved	Leishmania major	0.19	4	15.7	159	28808	5.42	other			
gii170905940	LmjF35.3560	hypothetical protein, conserved	Leishmania major strain Friedlin	0.19	3	9.1	86	44289	7.96	other			
gii157872093	LmjF30.0060	hypothetical protein, conserved	Leishmania major	0.19	2	8.3	51	28115	6.47	M			
gii157866348	LmjF13.1360	hypothetical protein, conserved	Leishmania major	0.18	15	6.9	454	91564	7.57	other			
gii157864116	LmjF06.0030	hypothetical protein, conserved	Leishmania major	0.18	12	6.5	195	76117	6.57	other			
gii170799687	LmjF29.1470	hypothetical protein, conserved	Leishmania major strain Friedlin	0.18	10	9.2	142	75493	5.38	other			
gii157867129	LmjF16.0410	hypothetical protein, conserved	Leishmania major	0.18	9	7.7	384	61802	5.58	other			
gii157864972	LmjF09.0220	hypothetical protein, conserved	Leishmania major	0.18	8	9.0	157	93990	8.94	other		2	
gii157876814	LmjF36.1750	hypothetical protein, conserved	Leishmania major	0.18	7	9.5	147	59819	6.05	S	x	1	
gii170905938	LmjF35.2440	hypothetical protein, conserved	Leishmania major strain Friedlin	0.18	6	14.2	138	30072	5.75	other			
gii157866505	LmjF14.0440	hypothetical protein, conserved	Leishmania major	0.18	6	11.1	215	62330	3.78	secreted	x		
gii157871111	LmjF26.1010	hypothetical protein, conserved	Leishmania major	0.18	5	8.3	194	46299	6.36	other			
gii157870820	LmjF25.2010	hypothetical protein, conserved	Leishmania major	0.18	5	8.2	116	30614	5.9	other			
gii157876321	LmjF34.4120	hypothetical protein, conserved	Leishmania major	0.18	5	5.5	116	29846	5.11	other			
gii157870331	LmjF24.1980	hypothetical protein, conserved	Leishmania major	0.18	4	15.4	138	30153	8.8	other			
gii157872703	LmjF30.2800	hypothetical protein, conserved	Leishmania major	0.18	4	9.1	100	30554	8.39	S	x	2	
gii157877564	LmjF36.5130	hypothetical protein, conserved	Leishmania major	0.18	4	6.5	108	30365	8.72	other			
gii157866218	LmjF13.0710	hypothetical protein, conserved	Leishmania major	0.18	3	8.1	47	45460	8.59	other			
gii157871654	LmjF28.0950	hypothetical protein, conserved	Leishmania major	0.18	3	7.1	40	14658	5.21	other			
gii157874160	LmjF32.2480	hypothetical protein, conserved	Leishmania major	0.18	3	6.0	74	14562	4.31	other			
gii40557187	LmjF13.0140	unknown	Leishmania mexicana	0.18	2	9.4	33	29166	7.15	other			
gii157864689	LmjF08.0240	hypothetical protein, conserved	Leishmania major	0.18	2	7.3	45	30445	8.77	other			
gii157877468	LmjF36.4670	hypothetical protein, conserved	Leishmania major	0.18	2	7.0	48	14595	6.12	secreted	x		
gii157863953	LmjF05.0490	hypothetical protein, conserved	Leishmania major	0.18	2	6.9	49	29512	8.98	secreted	x		
gii157870722	LmjF25.1540	hypothetical protein, conserved	Leishmania major	0.17	12	7.2	461	81412	7.7	other			
gii170906056	LmjF35.4710	hypothetical protein, conserved	Leishmania major strain Friedlin	0.17	8	6.6	222	79290	5.6	S	x	1	
gii170906090	LmjF35.5090	hypothetical protein, conserved	Leishmania major strain Friedlin	0.17	8	6.0	176	66191	7.92	other			
gii157877570	LmjF36.5160	hypothetical protein, conserved	Leishmania major	0.17	6	11.2	127	65808	5.12	other			
gii170800066	LmjF27.1570	hypothetical protein, conserved	Leishmania major strain Friedlin	0.17	5	11.7	68	46993	5.35	M			
gii157866665	LmjF14.1240	hypothetical protein, conserved	Leishmania major	0.17	5	3.6	133	31091	9.28	other			
gii170905992	LmjF35.4060	hypothetical protein, conserved	Leishmania major strain Friedlin	0.17	4	15.8	80	32017	4.8	other			
gii157866883	LmjF14.1330	hypothetical protein, conserved	Leishmania major	0.17	4	8.0	196	64236	8.88	secreted	x		
gii170799776	LmjF29.2350	hypothetical protein, conserved	Leishmania major strain Friedlin	0.17	4	6.8	87	31698	6.86	M			
gii157870550	LmjF25.0715	hypothetical protein, conserved	Leishmania major	0.17	4	6.4	57	31446	5.76	other			
gii157864891	LmjF08.1225	hypothetical protein, unknown function	Leishmania major	0.17	3	6.3	67	32372	5.03	other			

gii157868657	LmjF20.1290	hypothetical protein, conserved	Leishmania major	0.17	3	4.6	62	31463	4.47	other			
gii157876259	LmjF34.3820	hypothetical protein, conserved	Leishmania major	0.17	2	6.9	30	31788	5	other			
gii157871293	LmjF26.1900	hypothetical protein, conserved	Leishmania major	0.16	15	6.8	325	135445	5.87	other			
gii157875542	LmjF34.0680	hypothetical protein, conserved	Leishmania major	0.16	15	6.6	278	139267	5.03	other			
gii157866956	LmjF15.1190	hypothetical protein, conserved	Leishmania major	0.16	13	7.3	357	138874	6.14	other			
gii157873141	LmjF31.1000	hypothetical protein, conserved	Leishmania major	0.16	10	6.6	238	120825	4.99	other			
gii157867243	LmjF16.0980	hypothetical protein, conserved	Leishmania major	0.16	8	8.2	220	84872	5.29	other			
gii157864070	LmjF05.1050	hypothetical protein, unknown function	Leishmania major	0.16	7	8.4	119	50847	5.88	M			
gii157875985	LmjF34.2540	hypothetical protein, conserved	Leishmania major	0.16	7	7.5	148	100427	7.09	other			
gii157866065	LmjF12.1300	hypothetical protein, conserved	Leishmania major	0.16	7	7.2	139	69899	5.19	other			
gii157864432	LmjF07.0220	hypothetical protein, conserved	Leishmania major	0.16	6	7.9	245	67688	6.69	M			
gii157869668	LmjF23.1630	hypothetical protein, conserved	Leishmania major	0.16	6	6.9	94	66322	6.35	other			
gii157864875	LmjF08.1170	hypothetical protein, conserved	Leishmania major	0.16	5	10.0	69	50168	8.11	other			
gii157866459	LmjF14.0220	hypothetical protein, conserved	Leishmania major	0.16	5	6.2	92	51309	7.09	other			
gii157873507	LmjF31.2740	hypothetical protein, conserved	Leishmania major	0.16	4	14.8	121	52087	6.98	other		2	
gii157865817	LmjF12.0100	hypothetical protein, conserved	Leishmania major	0.16	4	8.4	112	32654	7.99	other			
gii170905915	LmjF35.3310	hypothetical protein, conserved	Leishmania major strain Friedlin	0.16	4	6.9	57	33003	6.67	secreted	x		
gii157864066	LmjF05.1030	hypothetical protein, conserved	Leishmania major	0.16	3	13.1	233	16457	8.7	M		1	
gii157872259	LmjF30.0830	hypothetical protein, conserved	Leishmania major	0.16	3	8.2	41	16548	8.64	other			
gii157875394	LmjF34.0010	hypothetical protein, conserved	Leishmania major	0.16	3	5.6	46	33983	9.3	S	x		2
gii157868912	LmjF21.0735	hypothetical protein, conserved	Leishmania major	0.16	2	9.9	80	15726	7.67	secreted	x		
gii157867333	LmjF16.1390	hypothetical protein, conserved	Leishmania major	0.16	2	8.7	74	32891	8.73	other			
gii157866431	LmjF14.0080	hypothetical protein, conserved	Leishmania major	0.16	2	7.9	53	33273	9.24	other			
gii157866997	LmjF14.1395	hypothetical protein, conserved	Leishmania major	0.16	2	6.1	29	16313	10.93	M		2	
gii157873615	LmjF32.0010	hypothetical protein, conserved	Leishmania major	0.16	1	9.7	26	16033	9.32	A		1	
gii157864723	LmjF08.0410	hypothetical protein, conserved	Leishmania major	0.15	18	8.7	212	150700	6.96	S	x		x
gii157865469	LmjF10.1080	hypothetical protein, conserved	Leishmania major	0.15	13	7.2	339	89401	5.93	M			
gii157867761	LmjF18.0280	hypothetical protein, conserved	Leishmania major	0.15	9	5.9	197	74412	6.9	other			
gii157866396	LmjF13.1600	hypothetical protein, conserved	Leishmania major	0.15	8	5.4	249	130169	5	other		1	
gii157876181	LmjF34.3480	hypothetical protein, conserved	Leishmania major	0.15	5	8.6	77	54423	5.32	other			
gii157869329	LmjF22.0650	hypothetical protein, conserved	Leishmania major	0.15	5	8.0	80	55076	5.7	M			
gii157873770	LmjF32.0720	hypothetical protein, conserved	Leishmania major	0.15	5	5.4	200	54949	6.52	other			
gii170906065	LmjF35.4820	hypothetical protein, conserved	Leishmania major strain Friedlin	0.15	4	4.8	33	36773	9.43	S	x		1
gii157874407	LmjF32.3610	hypothetical protein, conserved	Leishmania major	0.15	3	8.8	108	17013	8.8	other		1	
gii157866306	LmjF13.1150	hypothetical protein, conserved	Leishmania major	0.15	3	7.8	110	35986	8.87	A		2	
gii157876443	LmjF36.0030	hypothetical protein, conserved	Leishmania major	0.15	3	7.2	72	16891	5.57	other			
gii157867532	LmjF17.0760	hypothetical protein, conserved	Leishmania major	0.15	2	11.1	103	36235	7.25	other			
gii157865507	LmjF10.1250	hypothetical protein, conserved	Leishmania major	0.15	2	7.2	43	36646	5.42	other			
gii157864691	LmjF08.0250	hypothetical protein, conserved	Leishmania major	0.15	2	6.7	71	17115	10.22	A		1	
gii157874469	LmjF32.3910	hypothetical protein, unknown function	Leishmania major	0.15	2	4.5	62	34711	8.32	A		2	
gii157878974	LmjF03.0220	hypothetical protein, conserved	Leishmania major	0.15	2	4.5	26	35752	10.24	other			
gii157875353	LmjF33.3090	hypothetical protein, conserved	Leishmania major	0.14	14	7.4	316	159403	5.59	other			
gii157865618	LmjF11.0480	hypothetical protein, conserved	Leishmania major	0.14	13	5.6	244	119299	5.73	other			
gii17099968	LmjF27.0630	hypothetical protein, conserved	Leishmania major strain Friedlin	0.14	11	8.3	278	99045	9.01	M			
gii157866252	LmjF13.0880	hypothetical protein, conserved	Leishmania major	0.14	10	4.6	132	76894	5.98	other			
gii157873219	LmjF31.1380	hypothetical protein, unknown function	Leishmania major	0.14	9	6.1	260	119767	6.18	other			
gii17099664	LmjF29.1240	hypothetical protein, unknown function	Leishmania major strain Friedlin	0.14	8	7.5	381	79453	5.31	other			
gii157870095	LmjF24.0830	hypothetical protein, conserved	Leishmania major	0.14	6	6.3	182	94744	9.1	M			
gii157869704	LmjF23.0680	hypothetical protein, conserved	Leishmania major	0.14	5	6.2	87	59733	6.34	other			
gii17099908	LmjF27.0030	hypothetical protein, conserved	Leishmania major strain Friedlin	0.14	5	5.7	147	37037	5.69	other			
gii157872970	LmjF31.0210	hypothetical protein, conserved	Leishmania major	0.14	4	7.5	82	57868	5.51	other			
gii157869910	LmjF23.1460	hypothetical protein, conserved	Leishmania major	0.14	4	5.9	61	58714	5.35	other			
gii157877566	LmjF36.5140	hypothetical protein, conserved	Leishmania major	0.14	4	5.8	97	56217	5.14	other			
gii157873999	LmjF32.1770	hypothetical protein, conserved	Leishmania major	0.14	3	8.8	77	58292	6.51	secreted	x		
gii157876934	LmjF36.2310	hypothetical protein, conserved	Leishmania major	0.14	3	8.0	151	37762	10.01	other			
gii157865483	LmjF10.1150	hypothetical protein, conserved	Leishmania major	0.14	3	4.8	96	57174	8.26	other			
gii157868086	LmjF19.0190	hypothetical protein, conserved	Leishmania major	0.14	2	14.7	71	18414	10.04	other			
gii157869710	LmjF15.0225	hypothetical protein, conserved	Leishmania major	0.14	2	5.9	56	39369	6.25	other			
gii157874887	LmjF33.0960	hypothetical protein, conserved	Leishmania major	0.14	1	10.4	60	18937	5.11	other			
gii157868941	LmjF24.0030	hypothetical protein, conserved	Leishmania major	0.14	1	4.2	26	18381	11.02	secreted	x		
gii157873195	LmjF31.1210	hypothetical protein, conserved	Leishmania major	0.13	44	6.0	782	552349	6.03	other			
gii157866707	LmjF14.1440	hypothetical protein, conserved	Leishmania major	0.13	25	4.2	632	104705	4.4	other			
gii157872215	LmjF30.0680	hypothetical protein, conserved	Leishmania major	0.13	9	6.2	193	80606	7.52	other			
gii157879033	LmjF03.0520	hypothetical protein, conserved	Leishmania major	0.13	7	6.6	197	81260	5.02	other			
gii157873691	LmjF32.0370	hypothetical protein, conserved	Leishmania major	0.13	7	3.3	276	82742	5.7	other		1	
gii157869650	LmjF23.0520	hypothetical protein, conserved	Leishmania major	0.13	6	12.1	116	39741	7.62	other			
gii157875188	LmjF33.2370	hypothetical protein, conserved	Leishmania major	0.13	6	6.0	114	60948	7.62	other			
gii157877796	LmjF36.6090	hypothetical protein, conserved	Leishmania major	0.13	5	7.3	78	61295	6.58	S	x		2
gii170800082	LmjF27.1760	hypothetical protein, conserved	Leishmania major strain Friedlin	0.13	5	6.3	160	61760	8.8	M			
gii157877859	LmjF36.6370	hypothetical protein, conserved	Leishmania major	0.13	4	5.2	242	62182	6.37	other			
gii170905974	LmjF35.3900	hypothetical protein, conserved	Leishmania major strain Friedlin	0.13	4	4.1	84	40042	8.81	other			
gii157874110	LmjF32.2260	hypothetical protein, conserved	Leishmania major	0.13	4	3.7	43	20421	5.48	other			
gii157869443	LmjF22.1220	hypothetical protein, conserved	Leishmania major	0.13	3	12.3	27	19495	10.55	M			
gii157868906	LmjF21.0720	hypothetical protein, conserved	Leishmania major	0.13	3	9.0	178	40116	8.66	secreted	x		
gii157866098	LmjF13.0110	hypothetical protein, conserved	Leishmania major	0.13	3	7.1	87	40489	9.2	other		1	
gii157874154	LmjF32.2450	hypothetical protein, conserved	Leishmania major	0.13	3	4.8	87	40046	7.59	other			
gii157864912	LmjF09.0010	hypothetical protein, conserved	Leishmania major	0.13	2	9.6	57	19746	9.66	A			
gii157867339	LmjF16.1420	hypothetical protein, conserved	Leishmania major	0.13	2	7.0	92	39802	8.94	M			
gii157869820	LmjF23.1190	hypothetical protein, conserved	Leishmania major	0.13	2	6.6	66	39557	6.48	other			
gii12666911	LmjF01.0480	hypothetical protein, conserved	Leishmania major strain Friedlin	0.13	2	5.8	76	39700	6.01	other			
gii157867935	LmjF18.1150	hypothetical protein, conserved	Leishmania major	0.13	2	5.3	46	39638	7.53	other			
gii157867299	LmjF16.1230	hypothetical protein, conserved	Leishmania major	0.12	15	4.4	305	200282	8.84	M			
gii157872805	LmjF30.3210	hypothetical protein, conserved	Leishmania major	0.12	9	6.6	155	87804	5.58	other			

gii157875209	LmjF33.2460	hypothetical protein, conserved	Leishmania major	0.12	9	4.5	148	115510	6.22	other			
gii157874768	LmjF33.0570	hypothetical protein, conserved	Leishmania major	0.12	8	8.1	280	64605	5.64	other			
gii170905891	LmjF35.3070	hypothetical protein, conserved	Leishmania major strain Friedlin	0.12	8	6.6	200	93118	5.94	other			
gii157865036	LmjF09.0520	hypothetical protein, conserved	Leishmania major	0.12	8	6.5	122	87329	7.23	other			
gii157867983	LmjF18.1360	hypothetical protein, conserved	Leishmania major	0.12	8	6.1	190	106217	5.8	other			
gii157876430	LmjF34.4620	hypothetical protein, conserved	Leishmania major	0.12	7	4.1	209	90363	6.14	other			
gii157869544	LmjF23.0020	hypothetical protein, conserved	Leishmania major	0.12	6	6.0	154	43218	6.49	other			
gii157872020	LmjF28.2730	hypothetical protein, conserved	Leishmania major	0.12	6	4.5	105	65636	5.95	M			
gii157874365	LmjF32.3400	hypothetical protein, conserved	Leishmania major	0.12	6	4.5	95	67287	8.71	S	x	2	
gii157865604	LmjF11.0410	hypothetical protein, conserved	Leishmania major	0.12	5	5.7	96	91761	6.36	other			
gii157874363	LmjF32.3390	hypothetical protein, conserved	Leishmania major	0.12	5	4.2	148	67001	6.14	other			
gii157874988	LmjF33.1410	hypothetical protein, conserved	Leishmania major	0.12	5	4.1	54	65650	6.57	other			
gii157876576	LmjF36.0620	hypothetical protein, conserved	Leishmania major	0.12	4	10.2	83	21517	10.8	S	x	1	
gii157867191	LmjF16.0660	hypothetical protein, conserved	Leishmania major	0.12	4	4.9	50	65179	6	other			
gii170905693	LmjF35.0950	hypothetical protein, conserved	Leishmania major strain Friedlin	0.12	3	8.5	48	45621	5.4	other			
gii157865574	LmjF11.0260	hypothetical protein, conserved	Leishmania major	0.12	3	7.1	78	56477	9.29	M			
gii157872912	LmjF30.3690	hypothetical protein, conserved	Leishmania major	0.12	3	6.5	88	66717	8.52	other		2	
gii157874080	LmjF32.2130	hypothetical protein, conserved	Leishmania major	0.12	3	6.4	60	43944	9.54	other			
gii157864883	LmjF08.1210	hypothetical protein, conserved	Leishmania major	0.12	3	5.3	186	43131	6.56	other			
gii157867805	LmjF18.0500	hypothetical protein, conserved	Leishmania major	0.12	3	5.2	88	44633	6.36	other			
gii157865676	LmjF11.0750	hypothetical protein, conserved	Leishmania major	0.12	3	3.4	62	21982	4.6	other			
gii157864825	LmjF08.0920	hypothetical protein, conserved	Leishmania major	0.12	2	8.8	44	22240	9.19	M			
gii157864462	LmjF07.0360	hypothetical protein, conserved	Leishmania major	0.12	2	5.9	37	21196	8.35	secreted	x		
gii170799775	LmjF29.2340	hypothetical protein, conserved	Leishmania major strain Friedlin	0.12	2	5.4	87	21271	4.81	other			
gii157872261	LmjF30.0805	hypothetical protein, conserved	Leishmania major	0.12	1	5.1	50	21047	9.93	secreted	x		
gii157870518	LmjF25.0560	hypothetical protein, conserved	Leishmania major	0.12	1	4.1	31	22202	10.1	M		1	
gii170905818	LmjF35.2330	hypothetical protein, conserved	Leishmania major strain Friedlin	0.11	9	4.6	312	100942	4.69	secreted	x		
gii170798969	LmjF01.0460	hypothetical protein, conserved	Leishmania major strain Friedlin	0.11	7	5.5	172	151479	8.78	other			
gii170905921	LmjF35.3370	hypothetical protein, conserved	Leishmania major strain Friedlin	0.11	6	8.0	195	117803	5.6	other			
gii157866872	LmjF15.0780	hypothetical protein, conserved	Leishmania major	0.11	5	9.2	81	72301	9.42	M			
gii157876836	LmjF36.1860	hypothetical protein, conserved	Leishmania major	0.11	4	8.1	88	49522	9.77	other			
gii157872549	LmjF30.2100	hypothetical protein, conserved	Leishmania major	0.11	4	7.5	143	69924	5.71	other			
gii157872171	LmjF30.0440	hypothetical protein, conserved	Leishmania major	0.11	4	6.2	116	23050	5.07	other			
gii157865361	LmjF10.0650	hypothetical protein, conserved	Leishmania major	0.11	4	6.0	34	48172	9.84	M			
gii157870956	LmjF25.2170	hypothetical protein, conserved	Leishmania major	0.11	4	5.9	115	48169	5.77	other			
gii157869951	LmjF24.0080	hypothetical protein, conserved	Leishmania major	0.11	4	5.1	59	46151	5.46	other			
gii157870610	LmjF25.1010	hypothetical protein, conserved	Leishmania major	0.11	3	8.1	154	48564	5.4	other			
gii157874625	LmjF33.0060	hypothetical protein, conserved	Leishmania major	0.11	3	6.4	85	47322	4.43	other			
gii157876159	LmjF34.3360	hypothetical protein, conserved	Leishmania major	0.11	3	4.3	85	23747	8.81	secreted	x		
gii157871716	LmjF28.1250	hypothetical protein, conserved	Leishmania major	0.11	3	4.3	55	49584	6.19	other			
gii157869158	LmjF21.1670	hypothetical protein, conserved	Leishmania major	0.11	3	3.8	35	48663	5.23	other			
gii157871791	LmjF36.3460	hypothetical protein, conserved	Leishmania major	0.11	2	11.5	33	23464	8.91	other			
gii157863920	LmjF06.0670	hypothetical protein, conserved	Leishmania major	0.11	2	9.0	35	46565	5.98	M			
gii170905815	LmjF25.2300	hypothetical protein, conserved	Leishmania major strain Friedlin	0.11	2	6.2	72	46253	8.3	other			
gii157873588	LmjF31.3100	hypothetical protein, conserved	Leishmania major	0.11	2	5.5	25	24467	6.45	other		1	
gii157874249	LmjF32.2885	hypothetical protein, conserved	Leishmania major	0.11	2	4.7	67	46652	5.78	other			
gii157864306	LmjF06.0920	hypothetical protein, conserved	Leishmania major	0.11	2	4.5	101	49123	5.81	other			
gii157869297	LmjF22.0480	hypothetical protein, conserved	Leishmania major	0.11	2	4.5	59	49509	8.48	other		2	
gii157870291	LmjF24.1790	hypothetical protein, conserved	Leishmania major	0.11	2	4.1	54	24046	4.47	other			
gii157866276	LmjF13.1000	hypothetical protein, conserved	Leishmania major	0.11	2	4.1	46	50384	8.67	other			
gii157875554	LmjF34.0730	hypothetical protein, conserved	Leishmania major	0.11	2	3.9	59	23227	5.16	other			
gii157864035	LmjF05.0890	hypothetical protein, conserved	Leishmania major	0.11	1	7.3	84	22499	9.89	M		1	
gii157864037	LmjF05.0890	hypothetical protein, conserved	Leishmania major	0.10	14	5.4	326	209792	6.63	other			
gii157869397	LmjF22.0990	hypothetical protein, conserved	Leishmania major	0.10	12	4.2	345	139831	6.25	other			
gii157873225	LmjF31.1400	hypothetical protein, conserved	Leishmania major	0.10	6	5.7	111	138930	6.42	other			
gii157872728	LmjF30.2890	hypothetical protein, conserved	Leishmania major	0.10	5	6.6	149	51168	7.1	other			
gii157868172	LmjF19.0620	hypothetical protein, conserved	Leishmania major	0.10	5	4.2	129	81806	5.63	other			
gii157868916	LmjF21.0750	hypothetical protein, conserved	Leishmania major	0.10	5	3.9	110	78943	7.92	other			
gii157875556	LmjF34.0740	hypothetical protein, conserved	Leishmania major	0.10	4	8.1	58	53214	6.54	other			
gii157868808	LmjF15.0410	hypothetical protein, conserved	Leishmania major	0.10	4	5.0	126	78317	6.19	other			
gii157865152	LmjF09.1110	hypothetical protein, conserved	Leishmania major	0.10	4	3.3	60	51682	9.13	other			
gii157871397	LmjF26.2410	hypothetical protein, conserved	Leishmania major	0.10	4	2.9	114	51090	5.27	other			
gii157870426	LmjF25.0110	hypothetical protein, conserved	Leishmania major	0.10	3	5.5	94	54236	7.71	other			
gii170799702	LmjF29.1600	hypothetical protein, conserved	Leishmania major strain Friedlin	0.10	3	4.9	37	77183	8.87	S	x	10	
gii157871095	LmjF26.0930	hypothetical protein, conserved	Leishmania major	0.10	3	4.4	54	78565	6.54	M			
gii157875443	LmjF34.0230	hypothetical protein, conserved	Leishmania major	0.10	3	4.2	84	81894	5.45	other			
gii157864968	LmjF09.0200	hypothetical protein, conserved	Leishmania major	0.10	3	3.2	54	54963	5.93	other			
gii157864214	LmjF06.0490	hypothetical protein, conserved	Leishmania major	0.10	2	5.8	59	54672	8.4	other			
gii157872542	LmjF30.2070	hypothetical protein, conserved	Leishmania major	0.10	2	4.8	51	24958	5.55	other			
gii170905797	LmjF35.1210	hypothetical protein, conserved	Leishmania major strain Friedlin	0.10	2	4.5	68	24594	6.42	S	x	1	
gii157873031	LmjF31.0480	hypothetical protein, conserved	Leishmania major	0.10	2	4.2	70	52703	9.06	secreted	x		
gii170906038	LmjF35.4510	hypothetical protein, conserved	Leishmania major strain Friedlin	0.10	1	5.2	54	25562	9.05	M		1	
gii157876544	LmjF36.0480	hypothetical protein, conserved	Leishmania major	0.10	1	3.6	33	26313	4.92	secreted	x		
gii157875544	LmjF34.0690	hypothetical protein, conserved	Leishmania major	0.09	30	4.2	525	358366	4.54	other			
gii157868178	LmjF19.0650	hypothetical protein, conserved	Leishmania major	0.09	9	4.3	188	205314	5.59	other			
gii157868930	LmjF21.0820	hypothetical protein, conserved	Leishmania major	0.09	7	5.3	204	150440	5.42	other			
gii157866790	LmjF15.0320	hypothetical protein, conserved	Leishmania major	0.09	7	5.1	199	84374	7.33	S	x	4	
gii157873908	LmjF32.1370	hypothetical protein, conserved	Leishmania major	0.09	6	4.4	157	86464	5.63	other			
gii157873658	LmjF32.0210	hypothetical protein, conserved	Leishmania major	0.09	6	3.9	218	60665	6.7	other			
gii157864701	LmjF08.0300	hypothetical protein, conserved	Leishmania major	0.09	5	9.1	100	28906	5.88	other			
gii157867656	LmjF17.1250	hypothetical protein, conserved	Leishmania major	0.09	5	4.6	105	117443	7.61	other			
gii17063609	LmjF04.0050	hypothetical protein LT_05	Leishmania major strain Friedlin	0.09	5	3.1	62	58200	8.8	other			
gii157865867	LmjF12.0350	hypothetical protein, conserved	Leishmania major	0.09	4	9.1	95	60382	7.22	other			

gii157864484	LmfF07_0470	hypothetical protein, conserved	Leishmania major	0.09	4	6.3	99	92071	6.49	secreted	x		
gii157876848	LmfF36_1920	hypothetical protein, conserved	Leishmania major	0.09	4	4.4	49	56646	5.35	other			
gii157876520	LmfF36_0360	hypothetical protein, conserved	Leishmania major	0.09	4	4.2	139	29756	9.34	A		2	
gii157872551	LmfF30_2110	hypothetical protein, conserved	Leishmania major	0.09	4	3.9	97	58066	7.33	other			
gii157871117	LmfF26_1040	hypothetical protein, conserved	Leishmania major	0.09	4	3.6	143	59843	6.64	S	x	1	
gii157868262	LmfF19_1010	hypothetical protein, conserved	Leishmania major	0.09	4	3.4	61	85358	5.71	other			
gii157867544	LmfF17_0640	hypothetical protein, conserved	Leishmania major	0.09	3	5.9	51	80790	5.02	other			
gii157874614	LmfF33_0010	hypothetical protein, conserved	Leishmania major	0.09	3	4.5	46	92967	5.73	other			
gii157877867	LmfF36_6410	hypothetical protein, conserved	Leishmania major	0.09	3	4.3	30	58831	5.97	secreted	x		
gii157867099	LmfF16_0260	hypothetical protein, conserved	Leishmania major	0.09	3	4.2	75	56527	8.46	other		1	
gii157867811	LmfF18_0530	hypothetical protein, conserved	Leishmania major	0.09	3	3.8	102	56825	4.7	other			
gii170799992	LmfF27_0870	hypothetical protein, conserved	Leishmania major strain Friedlin	0.09	3	3.6	64	85382	5.84	other			
gii157864348	LmfF06_1120	hypothetical protein, conserved	Leishmania major	0.09	3	3.6	49	29994	6.3	S	x	2	
gii157871137	LmfF26_1140	hypothetical protein, conserved	Leishmania major	0.09	3	3.2	72	60389	7.16	M			
gii157872454	LmfF30_1660	hypothetical protein, conserved	Leishmania major	0.09	2	7.8	38	27662	8.79	other			
gii157872670	LmfF30_2660	hypothetical protein, conserved	Leishmania major	0.09	2	5.0	57	56792	9.73	A			
gii157868231	LmfF22_0140	hypothetical protein, conserved	Leishmania major	0.09	2	4.7	58	59603	8.78	secreted	x		
gii157865096	LmfF09_0820	hypothetical protein, conserved	Leishmania major	0.09	2	4.7	33	57628	6.53	S	x	1	
gii157869646	LmfF23_0500	hypothetical protein, conserved	Leishmania major	0.09	2	4.6	65	29876	6.89	S	x	6	
gii157874808	LmfF33_0730	hypothetical protein, conserved	Leishmania major	0.09	2	4.3	44	59822	7.58	other			
gii157875066	LmfF33_1790	hypothetical protein, conserved	Leishmania major	0.09	2	4.0	28	28694	6.24	other			
gii170800110	LmfF27_2010	hypothetical protein, conserved	Leishmania major strain Friedlin	0.09	2	4.0	27	28172	6.08	other			
gii157867496	LmfF17_0480	hypothetical protein, unknown function	Leishmania major	0.09	2	3.5	53	60491	7.29	other			
gii2978455	LmfF01_0060	hypothetical protein, conserved	Leishmania major strain Friedlin	0.09	1	5.2	45	27662	8.98	M			
gii170806916	LmfF35_4300	hypothetical protein, conserved	Leishmania major strain Friedlin	0.09	1	4.0	51	28626	9.48	secreted	x		
gii157868703	LmfF20_1500	hypothetical protein, conserved	Leishmania major	0.08	10	3.1	378	101427	6.15	other			
gii157868272	LmfF19_1060	hypothetical protein, conserved	Leishmania major	0.08	9	3.4	129	131635	6.82	M			
gii157877060	LmfF36_2840	hypothetical protein, conserved	Leishmania major	0.08	8	4.4	306	126592	5.42	other			
gii157877458	LmfF36_4620	hypothetical protein, conserved	Leishmania major	0.08	8	3.8	123	134263	6.33	M			
gii176363709	LmfF04_0560	hypothetical protein L2969.01	Leishmania major strain Friedlin	0.08	8	3.7	180	169042	5.97	other			
gii157867069	LmfF16_0110	hypothetical protein, conserved	Leishmania major	0.08	6	4.7	65	95352	8.93	other		4	
gii170799572	LmfF29_0380	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	6	4.5	95	104683	5.64	other			
gii157879059	LmfF03_0640	hypothetical protein, conserved	Leishmania major	0.08	6	4.2	96	67653	6.43	M			
gii157869606	LmfF23_0640	hypothetical protein, conserved	Leishmania major	0.08	6	3.6	190	83257	8.03	S	x	4	
gii157870514	LmfF25_0540	hypothetical protein, conserved	Leishmania major	0.08	5	7.1	72	32407	9.51	other			
gii170799577	LmfF29_0430	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	5	5.9	120	65348	9.18	other			
gii170800097	LmfF27_1895	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	5	3.5	178	133011	6.68	other			
gii171746052	LmfF02_0460	hypothetical protein, conserved	Leishmania major	0.08	5	2.7	50	32717	8.81	other			
gii157867638	LmfF17_1160	hypothetical protein, conserved	Leishmania major	0.08	4	5.1	121	69507	5.34	other			
gii157866206	LmfF13_0650	hypothetical protein, conserved	Leishmania major	0.08	4	3.8	141	66886	5.36	A		4	
gii157877154	LmfF36_3280	hypothetical protein, conserved	Leishmania major	0.08	4	3.8	124	132063	6.18	M			
gii157877003	LmfF36_2640	hypothetical protein, conserved	Leishmania major	0.08	4	3.8	64	52104	9.09	other			
gii157870604	LmfF36_0800	hypothetical protein, conserved	Leishmania major	0.08	4	3.7	46	86852	8.45	secreted	x		
gii157870462	LmfF25_0290	hypothetical protein, conserved	Leishmania major	0.08	4	3.6	108	62563	9.03	other			
gii157870454	LmfF25_0250	hypothetical protein, conserved	Leishmania major	0.08	4	3.6	103	96810	5.84	other			
gii157875093	LmfF33_1910	hypothetical protein, conserved	Leishmania major	0.08	4	3.4	77	65491	4.5	other			
gii170905922	LmfF35_3380	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	3	6.6	56	62115	6.41	other			
gii157873256	LmfF31_1560	hypothetical protein, conserved	Leishmania major	0.08	3	5.7	88	31219	9.42	other			
gii157864087	LmfF05_1130	hypothetical protein, conserved	Leishmania major	0.08	3	5.5	96	62912	6.65	other			
gii176363647	LmfF04_0240	hypothetical protein L302.07	Leishmania major strain Friedlin	0.08	3	5.5	79	32262	7.05	other			
gii170799753	LmfF29_2120	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	3	4.7	29	32130	6.95	other		4	
gii157871384	LmfF28_2090	hypothetical protein, conserved	Leishmania major	0.08	3	4.6	54	89637	5.88	other			
gii157871936	LmfF28_2330	hypothetical protein, conserved	Leishmania major	0.08	3	4.5	78	99881	6.55	M			
gii157875854	LmfF34_2020	hypothetical protein, conserved	Leishmania major	0.08	3	4.0	104	69253	8.8	other			
gii176363816	LmfF04_1080	hypothetical protein L8032.10	Leishmania major	0.08	3	3.5	99	97252	5.39	other			
gii170799817	LmfF29_2760	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	3	3.5	93	65295	5.97	other			
gii157864344	LmfF06_1100	hypothetical protein, conserved	Leishmania major	0.08	3	3.3	105	32760	10.1	M		2	
gii157872187	LmfF30_0520	hypothetical protein, conserved	Leishmania major	0.08	3	3.3	71	100103	6.05	other			
gii157875473	LmfF34_0380	hypothetical protein, unknown function	Leishmania major	0.08	3	3.1	69	62245	6.51	secreted	x		
gii157868192	LmfF19_0720	hypothetical protein, conserved	Leishmania major	0.08	3	3.0	40	34040	5.33	other			
gii157864933	LmfF06_0960	hypothetical protein, conserved	Leishmania major	0.08	3	2.8	41	63390	4.9	other			
gii157866473	LmfF14_0290	hypothetical protein, conserved	Leishmania major	0.08	2	8.9	96	20376	6.83	other			
gii157864162	LmfF06_0250	hypothetical protein, conserved	Leishmania major	0.08	2	8.6	71	30925	5.34	other			
gii157873075	LmfF31_0680	hypothetical protein, conserved	Leishmania major	0.08	2	6.7	39	30749	8.11	other			
gii157864118	LmfF06_0040	hypothetical protein, conserved	Leishmania major	0.08	2	5.8	63	33392	7.88	M			
gii157870766	LmfF25_1740	hypothetical protein, conserved	Leishmania major	0.08	2	5.5	86	32140	11.32	M			
gii157869062	LmfF21_1300	hypothetical protein, conserved	Leishmania major	0.08	2	4.1	76	62731	9.11	other			
gii157879085	LmfF03_0760	hypothetical protein, conserved	Leishmania major	0.08	2	4.1	46	34239	7.75	M			
gii157870335	LmfF24_2000	hypothetical protein, conserved	Leishmania major	0.08	2	3.9	75	65392	7.25	other			
gii157876937	LmfF34_2750	hypothetical protein, conserved	Leishmania major	0.08	2	3.8	46	67251	8.71	other			
gii157871181	LmfF26_1360	hypothetical protein, conserved	Leishmania major	0.08	2	3.3	46	65896	7.7	other			
gii157866493	LmfF14_0390	hypothetical protein, conserved	Leishmania major	0.08	2	3.0	51	33583	6.36	other			
gii170799606	LmfF29_0720	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	2	2.9	31	30401	7.7	other			
gii157867211	LmfF16_0810	hypothetical protein, conserved	Leishmania major	0.08	2	2.8	61	67188	7.29	M			
gii170905605	LmfF35_0160	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	2	2.8	36	31538	10.1	S	x	4	
gii170905808	LmfF35_2230	hypothetical protein, conserved	Leishmania major strain Friedlin	0.08	1	8.2	31	33562	9.37	M			
gii157874784	LmfF33_0620	hypothetical protein, conserved	Leishmania major	0.08	1	5.3	53	33866	4.65	secreted	x		
gii157864725	LmfF08_0420	hypothetical protein, conserved	Leishmania major	0.07	9	3.9	158	200783	5.66	other			
gii157873842	LmfF32_0140	hypothetical protein, conserved	Leishmania major	0.07	7	3.3	176	112405	8.77	other			
gii170799996	LmfF27_0910	hypothetical protein, conserved	Leishmania major strain Friedlin	0.07	6	6.4	148	121214	5.88	other			
gii157866186	LmfF13_0550	hypothetical protein, conserved	Leishmania major	0.07	6	3.1	140	72049	5.23	other			
gii157869999	LmfF24_0330	hypothetical protein, conserved	Leishmania major	0.07	6	2.7	122	118965	9.75	M			
gii157866029	LmfF12_1120	hypothetical protein, conserved	Leishmania major	0.07	6	2.6	98	145151	7.95	other			





gii157870209	LmjF24.1380	hypothetical protein, conserved	Leishmania major	0.06	2	2.3	60	44600	6	other			
gii157871443	LmjF26.2640	hypothetical protein, conserved	Leishmania major	0.06	2	2.3	55	42096	5.49	secreted	x		
gii157869658	LmjF23.0547	hypothetical protein, conserved	Leishmania major	0.06	2	2.3	76	91445	5.28	other			
gii170905976	LmjF35.3920	hypothetical protein, conserved	Leishmania major strain Friedlin	0.06	2	2.2	21	92405	8.23	other		1	
gii170906020	LmjF35.4340	hypothetical protein, conserved	Leishmania major strain Friedlin	0.06	2	2.0	58	39930	7.7	other		1	
gii157869176	LmjF21.1750	hypothetical protein, conserved	Leishmania major	0.06	2	1.8	46	45143	5.25	other			
gii157864815	LmjF08.0870	hypothetical protein, unknown function	Leishmania major	0.06	2	1.9	39	45316	5.54	other			
gii17636772	LmjF04.0660	hypothetical transmembrane protein L5683.03	Leishmania major	0.06	2	1.7	34	45925	11.1	other		1	
gii157874879	LmjF33.1370	hypothetical protein, conserved	Leishmania major	0.06	2	1.6	48	44873	9.64	other			
gii157878997	LmjF03.0340	hypothetical protein, conserved	Leishmania major	0.06	2	1.6	28	42017	8.26	M		1	
gii170799925	LmjF27.0200	hypothetical protein, conserved	Leishmania major strain Friedlin	0.06	1	4.7	49	40859	5.24	other		1	
gii157871283	LmjF26.1850	hypothetical protein, conserved	Leishmania major	0.06	1	2.2	35	45624	9.21	A		1	
gii170799752	LmjF29.2110	hypothetical protein, conserved	Leishmania major strain Friedlin	0.05	10	2.3	229	193313	6.51	other			
gii157865536	LmjF11.0070	hypothetical protein, conserved	Leishmania major	0.05	9	2.0	210	149348	5.13	other			
gii157869463	LmjF22.1320	hypothetical protein, unknown function	Leishmania major	0.05	7	3.0	183	228882	4.87	M			
gii157870019	LmjF24.0430	hypothetical protein, unknown function	Leishmania major	0.05	7	1.4	47	159182	9.56	other			
gii170600089	LmjF27.1920	hypothetical protein, unknown function	Leishmania major strain Friedlin	0.05	5	2.3	150	244069	5.05	other			
gii170905800	LmjF35.2150	hypothetical protein, conserved	Leishmania major strain Friedlin	0.05	4	6.8	200	48628	9.42	S	x	1	
gii157868210	LmjF19.0810	hypothetical protein, conserved, vps53-like domain protein	Leishmania major	0.05	4	5.1	167	96945	5.53	other			
gii170799724	LmjF29.1820	hypothetical protein, conserved	Leishmania major strain Friedlin	0.05	4	4.7	101	52880	8.83	other			
gii157874323	LmjF32.3190	hypothetical protein, conserved	Leishmania major	0.05	4	3.3	78	112074	6.41	other			
gii157873592	LmjF31.3110	hypothetical protein, conserved	Leishmania major	0.05	4	3.1	92	96606	8.08	other			
gii157870814	LmjF25.1960	hypothetical protein, conserved	Leishmania major	0.05	4	2.8	76	157089	9.76	M			
gii157872597	LmjF30.2310	hypothetical protein, conserved	Leishmania major	0.05	4	2.4	143	53051	8.65	M			
gii157868701	LmjF20.1490	hypothetical protein, conserved	Leishmania major	0.05	4	2.1	96	103679	8.52	other			
gii157877380	LmjF36.4270	hypothetical protein, conserved	Leishmania major	0.05	4	1.7	48	172269	5.42	other			
gii170906083	LmjF35.5020	hypothetical protein, conserved	Leishmania major strain Friedlin	0.05	3	4.0	91	98116	5.6	other			
gii157874775	LmjF33.0590	hypothetical protein, conserved	Leishmania major	0.05	3	3.2	117	101422	5.56	other			
gii157870444	LmjF25.0200	hypothetical protein, conserved	Leishmania major	0.05	3	2.9	105	153118	7.03	other			
gii157877438	LmjF36.4520	hypothetical protein, conserved	Leishmania major	0.05	3	2.8	65	114766	7.64	other			
gii157872066	LmjF28.2960	hypothetical protein, conserved	Leishmania major	0.05	3	2.7	109	48668	8.02	secreted	x		
gii157868745	LmjF20.1560	hypothetical protein, conserved	Leishmania major	0.05	3	2.7	96	115689	5.62	other			
gii17459508	LmjF02.0080	hypothetical protein, conserved	Leishmania major	0.05	3	2.7	96	108425	5.93	other			
gii157877500	LmjF36.4820	hypothetical protein, conserved	Leishmania major	0.05	3	2.6	90	55911	8.93	other			
gii157875223	LmjF32.2530	hypothetical protein, conserved	Leishmania major	0.05	3	2.6	95	145416	9.17	other			
gii157873474	LmjF31.2590	hypothetical protein, conserved	Leishmania major	0.05	3	2.5	103	104398	5.8	secreted	x		
gii157874458	LmjF32.3860	hypothetical protein, conserved	Leishmania major	0.05	3	2.4	52	102976	6.62	other			
gii157877021	LmjF36.2720	hypothetical protein, conserved, transport2-like protein	Leishmania major	0.05	3	2.1	105	103185	4.92	other			
gii157874651	LmjF33.0190	hypothetical protein, conserved	Leishmania major	0.05	3	1.9	81	56885	6.09	other			
gii157871133	LmjF26.1120	hypothetical protein, conserved	Leishmania major	0.05	3	1.7	44	50334	8.91	other			
gii170905795	LmjF35.2110	hypothetical protein, conserved	Leishmania major strain Friedlin	0.05	3	1.5	56	50093	6.65	other			
gii157875590	LmjF34.0860	hypothetical protein, conserved	Leishmania major	0.05	3	1.4	57	100224	6.16	other			
gii157864143	LmjF06.0140	hypothetical protein, conserved	Leishmania major	0.05	2	6.2	35	53111	8.98	other			
gii157876762	LmjF36.1520	hypothetical protein, conserved, NIMA-related protein kinase, putative	Leishmania major	0.05	2	4.7	36	57081	6.65	other			
gii157870742	LmjF25.1640	hypothetical protein, conserved	Leishmania major	0.05	2	4.2	37	53747	4.96	M			
gii157872363	LmjF30.1360	hypothetical protein, conserved	Leishmania major	0.05	2	4.1	25	55955	6.46	other			
gii157871908	LmjF28.2200	hypothetical protein, conserved	Leishmania major	0.05	2	3.4	45	107735	7.75	A		1	
gii157877250	LmjF36.3710	hypothetical protein, conserved	Leishmania major	0.05	2	3.3	93	50092	5.73	other			
gii157869431	LmjF22.1160	hypothetical protein, conserved	Leishmania major	0.05	2	3.3	35	49935	7.63	other			
gii157877530	LmjF36.4960	hypothetical protein, unknown function	Leishmania major	0.05	2	2.6	103	106883	5.45	other			
gii157869513	LmjF20.0510	hypothetical protein, conserved	Leishmania major	0.05	2	2.3	43	50316	10.01	M			
gii157871077	LmjF26.0840	hypothetical protein, conserved	Leishmania major	0.05	2	2.2	50	100858	4.98	secreted	x		
gii157867313	LmjF16.1300	hypothetical protein, conserved	Leishmania major	0.05	2	2.1	55	104614	6.65	other			
gii17146130	LmjF02.0660	hypothetical protein, conserved	Leishmania major	0.05	2	1.9	43	102451	7.7	M			
gii157875552	LmjF34.0720	hypothetical protein, conserved	Leishmania major	0.05	2	1.6	61	51895	8.62	M			
gii157876682	LmjF36.1130	hypothetical protein, unknown function	Leishmania major	0.05	1	5.1	45	49686	5.89	other			
gii157872452	LmjF30.1670	hypothetical protein, conserved	Leishmania major	0.05	1	4.0	30	49627	5.98	M			
gii176363657	LmjF04.0280	nuclear receptor binding factor	Leishmania major strain Friedlin	0.05	1	3.6	74	50512	9.28	M			
gii157876536	LmjF36.0440	hypothetical protein, conserved	Leishmania major	0.05	1	3.1	50	52986	5.98	secreted	x		
gii157870638	LmjF25.1140	hypothetical protein, unknown function	Leishmania major	0.05	1	2.9	44	56881	6.64	other			
gii157869750		hypothetical protein, unknown function	Leishmania major	0.05	1	1.5	27	50622	5.92	secreted	x		n. p.
gii170905610	LmjF35.0200	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	7	2.7	159	240331	5.9	other			
gii170799804	LmjF29.2630	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	6	2.4	292	132406	4.79	secreted	x		
gii157870159	LmjF24.1140	hypothetical protein, conserved	Leishmania major	0.04	5	2.6	50	61431	9.92	other			
gii157864258	LmjF06.0690	hypothetical protein, conserved	Leishmania major	0.04	5	2.0	159	256278	8.55	secreted	x		
gii157867149	LmjF16.0510	hypothetical protein, conserved	Leishmania major	0.04	4	3.0	39	128081	6.28	other			
gii157871373	LmjF26.2300	hypothetical protein, conserved	Leishmania major	0.04	4	1.5	36	138341	5.18	other			
gii157865821	LmjF12.0120	hypothetical protein, conserved	Leishmania major	0.04	4	1.1	40	142186	5.31	other			
gii157873424	LmjF31.2360	hypothetical protein, conserved	Leishmania major	0.04	3	2.8	45	58484	5.85	other			
gii170799653	LmjF27.0490	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	3	2.7	166	85096	5.93	other			
gii157871888	LmjF28.1110	hypothetical protein, conserved	Leishmania major	0.04	3	2.7	26	89573	6.07	other			
gii157867827	LmjF18.0600	hypothetical protein, conserved	Leishmania major	0.04	3	2.4	163	69243	7.68	other			
gii157867879	LmjF18.0870	hypothetical protein, conserved	Leishmania major	0.04	3	2.1	89	57965	9.07	secreted	x		
gii157867781	LmjF18.0380	hypothetical protein, conserved	Leishmania major	0.04	3	2.1	53	127188	5.08	other			
gii157868547	LmjF20.0680	hypothetical protein, conserved	Leishmania major	0.04	3	1.7	75	141047	6.05	other			
gii157870654	LmjF25.1220	hypothetical protein, conserved	Leishmania major	0.04	3	1.6	43	86710	6.77	other			
gii157869279	LmjF22.0380	hypothetical protein, conserved	Leishmania major	0.04	3	1.6	29	139464	5.66	M			
gii157872241	LmjF31.2360	hypothetical protein, conserved	Leishmania major	0.04	3	1.6	27	117934	6.76	other			
gii157872247	LmjF31.1510	hypothetical protein, conserved	Leishmania major	0.04	3	1.3	84	191820	6.62	other			
gii157870818	LmjF25.2000	hypothetical protein, conserved	Leishmania major	0.04	3	1.3	76	146795	6.47	other			
gii157874088	LmjF32.2160	hypothetical protein, conserved	Leishmania major	0.04	3	1.1	35	142031	6.35	other			
gii170905735	LmjF35.1510	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	2	4.3	66	64990	8.64	other			
gii157871427	LmjF26.2560	hypothetical protein, conserved	Leishmania major	0.04	2	3.7	33	59764	5.57	other			

gii157877446	LmjF36.4560	hypothetical protein, conserved	Leishmania major	0.04	2	3.3	36	62640	6.65	other			
gii157868511	LmjF20.0500	hypothetical protein, conserved	Leishmania major	0.04	2	3.1	39	59952	6.69	other			
gii157867470	LmjF17.0350	hypothetical protein, conserved	Leishmania major	0.04	2	2.5	90	66732	7.6	other			
gii157865642	LmjF11.0600	hypothetical protein, conserved	Leishmania major	0.04	2	2.5	35	84858	8.58	other			
gii157876659	LmjF36.1020	hypothetical protein, conserved	Leishmania major	0.04	2	2.4	33	60473	9.08	S	x	3	
gii157867325	LmjF16.1360	hypothetical protein, conserved	Leishmania major	0.04	2	2.3	124	66877	7.03	S	x	1	
gii157877788	LmjF36.8100	hypothetical protein, conserved	Leishmania major	0.04	2	2.3	52	62038	5.94	other			
gii157869908	LmjF23.1450	hypothetical protein, conserved	Leishmania major	0.04	2	2.2	54	59525	9.98	other			
gii157868023	LmjF18.1560	hypothetical protein, conserved	Leishmania major	0.04	2	2.1	53	83567	5.33	other			
gii157864179	LmjF06.0330	hypothetical protein, conserved	Leishmania major	0.04	2	2.1	51	130069	6.58	other			
gii157873245	LmjF31.1500	hypothetical protein, conserved	Leishmania major	0.04	2	2.1	48	120776	7.92	other			
gii157876013	LmjF34.2680	hypothetical protein, conserved	Leishmania major	0.04	2	2.0	54	58617	6.03	other			
gii157870261	LmjF24.1640	hypothetical protein, conserved	Leishmania major	0.04	2	1.9	39	65195	8.89	other			
gii157875588	LmjF34.0870	hypothetical protein, conserved	Leishmania major	0.04	2	1.8	97	60738	6.18	other			
gii170799949	LmjF27.0440	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	2	1.8	58	61791	6.88	other			
gii157869048	LmjF21.1240	hypothetical protein, conserved	Leishmania major	0.04	2	1.8	57	140221	5.77	other			
gii157864996	LmjF09.0340	hypothetical protein, conserved	Leishmania major	0.04	2	1.8	53	116011	9.36	other			
gii170905659	LmjF35.0710	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	2	1.7	56	80679	8.57	other			
gii157867893	LmjF18.0940	hypothetical protein, conserved	Leishmania major	0.04	2	1.6	40	140678	8.55	other			
gii157874131	LmjF32.2350	hypothetical protein, conserved	Leishmania major	0.04	2	1.6	38	61122	5.54	secreted	x		
gii157868814	LmjF21.0260	hypothetical protein, conserved	Leishmania major	0.04	2	1.5	41	67182	8.79	other			
gii157877554	LmjF36.5080	hypothetical protein, conserved	Leishmania major	0.04	2	1.4	33	68501	8.53	other			
gii170905895	LmjF35.3110	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	2	1.3	45	66094	5.59	A			2
gii157864663	LmjF08.0110	hypothetical protein, unknown function	Leishmania major	0.04	2	1.2	39	69123	5.78	other			
gii157872169	LmjF30.0430	hypothetical protein, conserved	Leishmania major	0.04	1	3.1	35	62087	8.45	S	x	2	
gii157876600	LmjF36.0730	hypothetical protein, conserved	Leishmania major	0.04	1	2.7	91	61792	8.68	secreted	x		
gii157865815	LmjF12.0090	hypothetical protein, conserved	Leishmania major	0.04	1	2.1	39	63186	7.17	secreted	x		
gii157865060	LmjF09.0640	Zinc finger DHH domain containing transmembrane protein, putative,	Leishmania major	0.04	1	1.8	28	57557	9.33	A			4
gii157876214	LmjF34.3620	hypothetical protein, conserved	Leishmania major	0.04	1	1.6	39	63756	7.04	A			2
gii157867785	LmjF18.0400	hypothetical protein, conserved	Leishmania major	0.04	1	1.6	37	62079	8.7	S	x		9
gii157877488	LmjF36.4760	hypothetical protein, conserved	Leishmania major	0.04	1	1.5	50	71931	8.44	secreted	x		
gii170900016	LmjF27.1100	hypothetical protein, conserved	Leishmania major strain Friedlin	0.04	1	1.4	46	69306	7.25	M			
gii157864630	LmjF07.1130	hypothetical protein, conserved	Leishmania major	0.04	1	1.4	38	64619	8.11	S	x		1
gii157871958	LmjF28.2440	hypothetical protein, conserved	Leishmania major	0.04	1	1.3	36	72064	6	secreted	x		
gii157867081	LmjF16.0170	hypothetical protein, conserved	Leishmania major	0.03	13	1.3	181	489398	8.93	A			1
gii157867205	LmjF16.0780	hypothetical protein, conserved	Leishmania major	0.03	12	2.1	310	607894	8.21	other			
gii157867321	LmjF16.1340	hypothetical protein, conserved	Leishmania major	0.03	6	1.9	124	403925	8.8	secreted	x		
gii157876133	LmjF34.3230	hypothetical protein, conserved	Leishmania major	0.03	6	1.8	63	245828	6.43	other			
gii157873422	LmjF31.2350	hypothetical protein, conserved	Leishmania major	0.03	6	1.6	275	171228	6.05	other			
gii157871271	LmjF26.1790	hypothetical protein, conserved	Leishmania major	0.03	5	1.6	111	298684	6.25	M			
gii157879110	LmjF03.0860	hypothetical protein, conserved	Leishmania major	0.03	5	1.0	116	206839	8.49	other			
gii157878912	LmjF36.1740	hypothetical protein, conserved	Leishmania major	0.03	5	1.0	102	195466	8.11	M			
gii157874790	LmjF33.0650	hypothetical protein, conserved	Leishmania major	0.03	4	3.1	73	154565	5.09	M			
gii170800072	LmjF27.1640	hypothetical protein, conserved	Leishmania major strain Friedlin	0.03	4	2.0	130	103016	6.2	other			
gii170905730	LmjF35.1450	hypothetical protein, conserved	Leishmania major strain Friedlin	0.03	4	1.5	98	345768	5.14	other			
gii157867494	LmjF17.0470	hypothetical protein, conserved	Leishmania major	0.03	4	1.1	66	383334	6.63	other			3
gii157873995	LmjF32.1750	hypothetical protein, conserved	Leishmania major	0.03	4	0.9	100	85552	6.7	other			
gii170905740	LmjF35.1560	hypothetical protein, conserved	Leishmania major strain Friedlin	0.03	4	0.9	28	202452	5.86	other			x
gii157863968	LmjF05.0560	hypothetical protein, conserved	Leishmania major	0.03	3	1.9	70	77804	10.14	M			1
gii157873849	LmjF32.1090	hypothetical protein, conserved	Leishmania major	0.03	3	1.8	71	180221	5.9	other			
gii157864468	LmjF07.0390	hypothetical protein, conserved	Leishmania major	0.03	3	1.8	31	98733	6.14	other			
gii157866994	LmjF15.1350	hypothetical protein, conserved	Leishmania major	0.03	3	1.6	114	78065	6.39	other			
gii157869371	LmjF22.0860	hypothetical protein, unknown function	Leishmania major	0.03	3	1.4	57	150581	7.19	other			1
gii157873654	LmjF32.0190	hypothetical protein, conserved	Leishmania major	0.03	3	1.2	160	82440	5.52	secreted	x		
gii176363762	LmjF04.0810	possible pescadillo homologue	Leishmania major	0.03	3	1.2	109	77527	9.89	other			
gii157877697	LmjF36.5660	hypothetical protein, conserved	Leishmania major	0.03	2	4.0	72	78990	7.59	other			
gii157867247	LmjF16.1000	hypothetical protein, conserved	Leishmania major	0.03	2	3.1	59	89807	6.47	other			
gii176363746	LmjF04.0730	hypothetical protein L4830.11	Leishmania major	0.03	2	3.1	36	82947	9.11	other			
gii157874276	LmjF32.2990	hypothetical protein, conserved	Leishmania major	0.03	2	2.9	35	86112	5.74	other			
gii157868027	LmjF12.1110	hypothetical protein, unknown function	Leishmania major	0.03	2	2.0	28	78096	8.96	secreted	x		
gii157872337	LmjF30.1230	hypothetical protein, conserved	Leishmania major	0.03	2	1.9	102	80269	8.77	other			
gii157873859	LmjF32.1140	hypothetical protein, conserved	Leishmania major	0.03	2	1.9	99	74934	8.59	other			
gii157866461	LmjF14.0230	hypothetical protein, conserved	Leishmania major	0.03	2	1.6	69	198241	5.58	other			
gii157872952	LmjF31.0130	hypothetical protein, unknown function	Leishmania major	0.03	2	1.6	35	93053	5.92	other			
gii157872625	LmjF30.2440	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	149	86059	5.35	other			
gii157863891	LmjF05.0200	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	80	88808	5.78	other			
gii157871560	LmjF28.0470	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	62	86939	6.42	secreted	x		
gii157876930	LmjF36.1830	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	44	95465	10.57	other			1
gii157871289	LmjF26.1860	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	38	82812	5.65	other			
gii157873234	LmjF36.4060	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	37	74870	8.12	other			
gii157873799	LmjF32.0850	hypothetical protein, conserved	Leishmania major	0.03	2	1.4	25	82922	6.27	other			
gii157870313	LmjF24.1900	hypothetical protein, conserved	Leishmania major	0.03	2	1.3	81	89052	5.31	other			
gii157865415	LmjF10.0810	hypothetical protein, conserved	Leishmania major	0.03	2	1.3	41	194205	5.77	other			
gii157867438	LmjF17.0130	hypothetical protein, unknown function	Leishmania major	0.03	2	1.2	52	93971	6.58	secreted	x		
gii157868800	LmjF21.0190	hypothetical protein, conserved	Leishmania major	0.03	2	1.2	35	79260	6.13	A			
gii157876151	LmjF33.2190	hypothetical protein, unknown function	Leishmania major	0.03	2	1.0	26	82450	6.06	other			
gii17146090	LmjF02.0560	hypothetical protein, unknown function	Leishmania major	0.03	2	0.8	73	88665	8.8	M			
gii157863993	LmjF24.0300	hypothetical protein, conserved	Leishmania major	0.03	2	0.8	58	195379	6.18	M			
gii157864326	LmjF06.1010	hypothetical protein, conserved	Leishmania major	0.03	1	2.0	46	83801	5.61	secreted	x		
gii157871139	LmjF26.1150	hypothetical protein, conserved	Leishmania major	0.03	1	1.7	61	82481	6.4	M			
gii157867369	LmjF16.1560	hypothetical protein, conserved	Leishmania major	0.03	1	1.7	36	77243	5.6	secreted	x		
gii157869417	LmjF22.1090	hypothetical protein, conserved	Leishmania major	0.03	1	1.6	26	75555	6.46	other			

gii157871672	LmjF28.1040	hypothetical protein, unknown function	Leishmania major	0.03	1	1.0	37	88618	5.71	other			
gii157871115	LmjF26.1030	hypothetical protein, conserved	Leishmania major	0.03	1	0.9	26	87673	6.64	secreted	x		
gii157872648	LmjF30.2560	hypothetical protein, conserved	Leishmania major	0.02	9	0.8	96	117136	5.98	other			
gii157865313	LmjF10.0320	hypothetical protein, conserved	Leishmania major	0.02	7	1.8	47	209670	8.87	other		1	
gii157874100	LmjF32.2220	hypothetical protein, unknown function	Leishmania major	0.02	5	0.8	202	155281	5.48	other			
gii157873671	LmjF32.0270	hypothetical protein, conserved	Leishmania major	0.02	5	0.6	62	141432	4.93	S	x	2	
gii157874762	LmjF33.0550	hypothetical protein, conserved	Leishmania major	0.02	4	1.7	49	219890	5.78	other			
gii157875983	LmjF34.2530	hypothetical protein, unknown function	Leishmania major	0.02	4	1.3	71	478971	4.55	other			
gii157869985	LmjF24.0260	hypothetical protein, conserved	Leishmania major	0.02	4	0.9	100	357708	6.2	other			
gii157871345	LmjF26.2160	hypothetical protein, unknown function	Leishmania major	0.02	4	0.9	37	234435	5.07	other			
gii17079809	LmjF29.2880	hypothetical protein, conserved	Leishmania major strain Friedlin	0.02	3	2.3	48	121125	5.79	other			
gii157864879	LmjF08.1190	hypothetical protein, conserved	Leishmania major	0.02	3	2.0	51	141019	6.28	other			
gii157864594	LmjF07.0960	hypothetical protein, conserved	Leishmania major	0.02	3	1.5	27	126368	6.42	other			
gii157869445	LmjF22.1230	hypothetical protein, conserved	Leishmania major	0.02	3	1.1	63	103480	7.31	other			
gii157866986	LmjF15.1320	hypothetical protein, conserved	Leishmania major	0.02	3	1.1	42	153086	5.73	M			
gii157874353	LmjF32.3340	hypothetical protein, conserved	Leishmania major	0.02	3	0.9	160	120635	6.53	other			
gii157873541	LmjF31.2890	hypothetical protein, conserved	Leishmania major	0.02	3	0.9	83	136363	6.34	other			
gii157871826	LmjF28.1800	hypothetical protein, conserved	Leishmania major	0.02	3	0.7	69	271080	6.75	M			
gii157873064	LmjF31.0630	hypothetical protein, conserved	Leishmania major	0.02	2	2.1	45	112753	6.67	M		1	
gii157873377	LmjF31.2130	hypothetical protein, conserved	Leishmania major	0.02	2	1.8	43	104363	8.12	other			
gii157871413	LmjF26.2490	hypothetical protein, conserved	Leishmania major	0.02	2	1.5	54	161283	5.22	other			
gii157873563	LmjF31.2990	hypothetical protein, conserved	Leishmania major	0.02	2	1.2	43	217631	7.6	other			
gii157868352	LmjF19.1410	hypothetical protein, conserved	Leishmania major	0.02	2	1.1	69	105433	6.24	other			
gii157870667	LmjF36.1060	hypothetical protein, conserved	Leishmania major	0.02	2	1.1	42	111956	5.57	other			
gii157864100	LmjF05.1190	hypothetical protein, conserved	Leishmania major	0.02	2	1.1	39	214307	6.49	M			
gii157868285	LmjF22.0410	hypothetical protein, conserved	Leishmania major	0.02	2	1.0	103	130841	5.1	S	x	2	
gii157874123	LmjF32.2310	hypothetical protein, conserved	Leishmania major	0.02	2	1.0	70	130991	6.97	other			
gii157868694	LmjF23.0630	hypothetical protein, conserved	Leishmania major	0.02	2	1.0	66	131163	8.82	other			
gii157867632	LmjF17.1130	hypothetical protein, conserved	Leishmania major	0.02	2	1.0	46	129340	9.09	secreted	x		
gii157874916	LmjF33.1100	hypothetical protein, conserved	Leishmania major	0.02	2	1.0	39	105160	9.2	other			
gii157870570	LmjF25.0810	hypothetical protein, conserved	Leishmania major	0.02	2	0.9	27	110507	5.97	other			
gii157879025	LmjF03.0480	hypothetical protein, conserved	Leishmania major	0.02	2	0.8	67	112841	9.07	other		4	
gii157867534	LmjF17.0750	hypothetical protein, conserved	Leishmania major	0.02	2	0.7	33	120385	6.76	other			
gii157876654	LmjF36.1000	hypothetical protein, conserved; predicted VMD40 repeat protein	Leishmania major	0.02	2	0.7	32	148812	8.07	other			
gii170800104	LmjF27.1950	hypothetical protein, conserved	Leishmania major strain Friedlin	0.02	2	0.7	26	163282	4.56	other			
gii157866529	LmjF14.0570	hypothetical protein, conserved	Leishmania major	0.02	2	0.6	26	127940	5.72	other			
gii170799760	LmjF29.2190	hypothetical protein, conserved	Leishmania major strain Friedlin	0.02	2	0.5	42	156986	5.26	S	x	1	
gii170905879	LmjF35.2950	hypothetical protein, conserved	Leishmania major strain Friedlin	0.02	1	2.1	37	118647	6.51	secreted	x		
gii157876610	LmjF36.0780	hypothetical protein, unknown function	Leishmania major	0.02	1	1.5	45	117707	6.1	other			
gii157870492	LmjF25.0430	hypothetical protein, conserved	Leishmania major	0.02	1	1.3	41	110656	6.42	secreted	x		
gii157871205	LmjF26.1480	hypothetical protein, conserved	Leishmania major	0.02	1	1.3	41	108544	5.23	other			
gii157870528	LmjF25.0610	hypothetical protein, conserved	Leishmania major	0.02	1	1.0	57	162301	6.36	M			x
gii157868483	LmjF20.0370	hypothetical protein, conserved	Leishmania major	0.02	1	0.6	43	137671	6.84	other		8	
gii157879097	LmjF03.0820	hypothetical protein, conserved	Leishmania major	0.01	10	0.8	75	306627	9.27	other			
gii170906119	LmjF35.5390	hypothetical protein, conserved	Leishmania major strain Friedlin	0.01	6	1.0	84	741890	6.04	other			
gii157875003	LmjF33.1490	hypothetical protein, conserved	Leishmania major	0.01	4	1.0	104	364776	5.84	other			
gii157871389	LmjF26.2370	hypothetical protein, conserved	Leishmania major	0.01	4	1.0	103	424368	5.58	other			
gii157869465	LmjF22.1330	hypothetical protein, conserved	Leishmania major	0.01	3	0.9	81	220982	4.87	M			
gii157867875	LmjF18.0850	hypothetical protein, conserved	Leishmania major	0.01	3	0.6	81	305736	5.91	other			
gii157876746	LmjF36.1440	hypothetical protein, conserved	Leishmania major	0.01	3	0.5	30	607157	7.41	other			
gii157867389	LmjF16.1660	hypothetical protein, conserved	Leishmania major	0.01	3	0.4	40	496719	5.08	other			
gii157872345	LmjF30.1260	hypothetical protein, conserved	Leishmania major	0.01	2	1.4	77	211649	8.17	other			
gii157871055	LmjF26.0730	hypothetical protein, conserved	Leishmania major	0.01	2	1.3	27	208142	8.98	other			x
gii157879036	LmjF03.0530	hypothetical protein, conserved	Leishmania major	0.01	2	0.8	35	225068	6.91	secreted	x		
gii157870862	LmjF25.1260	hypothetical protein, conserved	Leishmania major	0.01	2	0.8	27	245671	6.69	secreted	x		
gii157874367	LmjF32.3410	hypothetical protein, conserved	Leishmania major	0.01	2	0.6	58	297665	5.91	secreted	x		
gii17146098	LmjF02.0580	hypothetical protein, conserved	Leishmania major	0.01	2	0.5	41	402669	6.34	other			
gii157875692	LmjF34.1270	hypothetical protein, conserved	Leishmania major	0.01	2	0.5	27	202866	8.85	A		15	
gii157877554	LmjF36.5890	hypothetical protein, conserved	Leishmania major	0.01	2	0.4	89	211017	6.47	other		2	
gii157878986	LmjF03.0270	hypothetical protein Lmj_0195	Leishmania major	0.01	2	0.4	75	262135	4.88	other			
gii157867385	LmjF16.1640	hypothetical protein, unknown function	Leishmania major	0.01	2	0.4	30	186905	9.27	other			
gii157866776	LmjF15.0250	hypothetical protein, conserved	Leishmania major	0.01	2	0.4	29	207340	6.42	other			
gii157870880	LmjF25.1350	hypothetical protein, conserved	Leishmania major	0.01	2	0.3	28	280794	6.42	other			
gii157864488	LmjF07.0480	hypothetical protein, conserved	Leishmania major	0.01	4	0.7	31	544344	6.38	secreted	x		

Proteins identified were functionally classified and ordered according to abundance (emPAI). Proteins were identified with a customized NCBI database and GI accession number and parasite species with closest hit are indicated. For comparison with other data sets Sanger IDs for L. major homologues were assigned using an online tool accessible at <http://pir.georgetown.edu/cgi-bin/batch.pl> or by BLAST search. For all but one protein a unique Sanger ID could be assigned. Further shown are gene name, percentage sequence covered by identified peptides (% coverage), number of peptides identified (peptide matches), theoretical MW and pI, as well as predicted localization by combined TargetP and SignalP analysis (secreted, "A" – anchor predicted by SignalP 3.0, "M" – mitochondrial, "S" – predicted secreted but contains either predicted trans-membrane domain (TM) and/or GPI-anchor, "other" – any other localisation or prediction with TargetP not possible). An "x" in column Signal peptide pred. denotes Signal peptide predicted by SignalP 3.0. Proteins for which GeneDB annotation predicted a GPI-anchor are also marked by x.

Supplementary Table 4. Potentially by *L. mexicana* amastigotes secreted proteins.

GI Acc. No	Gene DB Acc. No	Protein name	Organism	Peptide matches	Coverage (%)	Prot score	MW	pI	emPAI
gij157872631	LmjF30.2480	heat shock 70-related protein 1, mitochondrial precursor, putative	Leishmania major	241	59.7	7534	72346	5.68	4.56
gij178192396	LmjF28.2860	cytosolic malate dehydrogenase isozyme	Leishmania mexicana	42	50.6	1341	34695	5.92	2.64
gij157867379	LmjF16.1610	prohibitin, putative	Leishmania major	26	38.1	409	30423	8.35	1.66
gij157875429	LmjF34.0160	malate dehydrogenase, putative	Leishmania major	74	28.9	3242	34295	6.25	1.57
gij157864861	LmjF08.1100	hypothetical protein, conserved	Leishmania major	34	24.7	510	42247	8.2	1.29
gij157865931	LmjF12.0670	cytochrome c oxidase subunit iv	Leishmania major	22	32.1	498	39581	5.63	1.27
gij157875425	LmjF34.0140	malate dehydrogenase	Leishmania major	85	25.2	3471	33622	8.5	1.26
gij157876684	LmjF36.1140	short chain 3-hydroxyacyl-coa dehydrogenase, putative	Leishmania major	30	25.2	659	33294	8.43	1.11
gij157865839	LmjF12.0210	proteasome regulatory ATPase subunit tcc118.3, putative	Leishmania major	31	35.0	987	46064	8.18	1.03
gij157870357	LmjF24.2110	hypothetical protein, conserved	Leishmania major	41	30.5	1299	55619	6.41	0.97
gij157871253	LmjF26.1710	cytochrome c oxidase subunit V, putative	Leishmania major	11	26.5	265	22504	6.1	0.92
gij157866960	LmjF15.1203	60S acidic ribosomal protein P2	Leishmania major	6	33.3	233	11048	4.23	0.88
gij157870007	LmjF24.0370	aspartate aminotransferase, putative	Leishmania major	26	28.8	604	48193	8.27	0.87
gij157866782	LmjF15.0280	ribonucleoprotein p18, mitochondrial precursor, putative	Leishmania major	15	23.5	294	21629	6.74	0.76
gij157877426	LmjF36.4460	hypothetical protein, conserved	Leishmania major	12	21.9	262	17641	7.71	0.73
gij157876368	LmjF34.4330	quinonoid dihydropteridine reductase	Leishmania major	12	17.0	313	23737	5.9	0.68
gij157870367	LmjF24.2160	hypothetical protein, conserved	Leishmania major	13	16.8	285	38716	8.92	0.68
gij157871556	LmjF28.0490	propionyl-coa carboxylase beta chain, putative	Leishmania major	26	21.5	592	57200	8.81	0.62
gij157877997	LmjF36.6940	protein disulfide isomerase	Leishmania major	39	18.7	675	52799	5.22	0.61
gij157869353	LmjF22.0770	NADH-cytochrome b5 reductase, putative	Leishmania major	10	12.5	148	32116	7.13	0.59
gij170800017	LmjF27.1110	gBP21, MRP1	Leishmania major strain Friedlin	15	14.5	445	26704	10.27	0.59
gij12266917	LmjF01.0650	metallo-peptidase, Clan ME, Family M16	Leishmania major strain Friedlin	20	19.4	372	55570	6.12	0.57
gij157871694	LmjF28.1140	electron-transfer-flavoprotein, alpha polypeptide, putative	Leishmania major	9	21.8	313	33653	6.34	0.56
gij157872301	LmjF30.1040	hypothetical protein, conserved	Leishmania major	11	18.8	155	29656	8.76	0.52
gij170905946	LmjF35.3620	iron-sulfur cluster assembly protein, putative	Leishmania major strain Friedlin	4	24.2	111	17586	8.62	0.51
gij157877297	LmjF36.3880	eukaryotic translation initiation factor 3 subunit, putative	Leishmania major	17	19.8	478	45691	5.83	0.47
gij157864974	LmjF09.0230	ATP-dependent hsl protease ATP-	Leishmania major	11	20.6	399	56059	5.22	0.43

		binding subunit hslU, putative; heat shock protein HslVU, ATPase subunit HslU, putative							
gij157872813	LmjF30.3240	glutamyl-tRNA synthetase, putative	Leishmania major	17	17.5	475	68033	8.65	0.40
gij70799541	LmjF29.0060	tryptophanyl-tRNA synthetase, putative	Leishmania major strain Friedlin	14	11.5	495	55223	8.72	0.38
gij70905595	LmjF35.0050	2-oxoisovalerate dehydrogenase beta subunit, mitochondrial precursor, putative	Leishmania major strain Friedlin	10	13.7	205	40380	6.28	0.36
gij157872935	LmjF31.0050	cyclophilin, putative	Leishmania major	4	18.3	99	25052	8.6	0.34
gij70905705	LmjF35.1190	NADH-dependent fumarate reductase, putative	Leishmania major strain Friedlin	8	17.0	151	52649	6.44	0.33
gij157875427	LmjF34.0150	malate dehydrogenase, putative	Leishmania major	5	9.7	131	36137	7.02	0.32
gij157870341	LmjF24.2030	3-oxoacyl-(acyl-carrier protein) reductase, putative	Leishmania major	7	23.9	227	27307	9.06	0.31
gij157867151	LmjF16.0520	hypothetical protein, conserved	Leishmania major	11	13.4	148	37281	6.51	0.31
gij157877617	LmjF36.5380	NADH dehydrogenase, putative	Leishmania major	9	12.3	182	57739	9.34	0.30
gij157877007	LmjF36.2660	dihydrolipoamide acetyltransferase precursor, putative	Leishmania major	11	9.7	217	49062	7.01	0.29
gij157864135	LmjF06.0120	cyclophilin	Leishmania major	2	23.0	58	20427	6.51	0.27
gij157866800	LmjF15.0380	60S acidic ribosomal protein, putative	Leishmania major	3	10.2	166	10256	3.99	0.26
gij157872918	LmjF30.3720	60S acidic ribosomal protein P2, putative	Leishmania major	4	7.5	85	10575	4.34	0.25
gij70799935	LmjF27.0300	methylmalonyl-coenzyme a mutase, putative	Leishmania major strain Friedlin	15	13.0	314	79712	6.16	0.25
gij70799537	LmjF29.0020	transcription factor-like protein	Leishmania major strain Friedlin	19	10.2	450	115473	5.16	0.25
gij157867707	LmjF18.0010	hypothetical protein, conserved	Leishmania major	17	8.4	634	114378	6.18	0.25
gij157870430	LmjF25.0130	elongation factor, putative	Leishmania major	11	9.9	327	70739	6.14	0.24
gij70799751	LmjF29.2100	hypothetical protein, conserved	Leishmania major strain Friedlin	14	7.2	596	69999	5.99	0.24
gij157868824	LmjF21.0310	hypothetical protein, conserved	Leishmania major	4	8.4	214	35042	8.76	0.24
gij157879015	LmjF03.0440	60S acidic ribosomal protein P2, putative	Leishmania major	1	14.4	27	11182	4.4	0.23
gij157867363	LmjF16.1530	endoplasmic reticulum oxidoreductin, putative	Leishmania major	8	9.3	156	49176	5.2	0.23
gij70799566	LmjF29.0320	hypothetical protein, conserved	Leishmania major strain Friedlin	8	6.9	227	36590	5.24	0.23
gij157876570	LmjF36.0590	hypothetical protein, conserved	Leishmania major	2	9.1	67	23961	6.44	0.23
gij157870898	LmjF25.2370	adenylate kinase, putative	Leishmania major	3	9.4	50	25957	8.93	0.21
gij157864372	LmjF06.1240	hypothetical protein, conserved	Leishmania major	6	10.3	195	53332	6.73	0.21
gij157877508	LmjF36.4860	hypothetical protein, conserved	Leishmania major	3	7.7	74	26925	5.77	0.20
gij157867265	LmjF16.1065	hypothetical protein, conserved	Leishmania major	10	6.0	446	28153	10.36	0.19
gij157877637	LmjF36.5460	hypothetical protein, conserved	Leishmania major	10	10.3	309	57960	8.66	0.19

gij157865100	LmjF09.0840	hypothetical protein, conserved	Leishmania major	5	7.7	101	42978	5.67	0.19
gij157872801	LmjF30.3190	3-hydroxy-3-methylglutaryl-CoA reductase, putative	Leishmania major	7	8.8	194	46608	8.76	0.18
gij70905857	LmjF35.2730	acyl-CoA dehydrogenase, putative	Leishmania major strain Friedlin	3	7.3	73	44824	6.08	0.18
gij157871812	LmjF28.1730	proteasome regulatory non-ATP-ase subunit 2, putative	Leishmania major	14	9.5	372	106729	5.39	0.18
gij157866505	LmjF14.0440	hypothetical protein, conserved	Leishmania major	6	11.1	215	62330	8.79	0.18
gij157863953	LmjF05.0490	hypothetical protein, conserved	Leishmania major	2	6.9	49	29512	8.98	0.18
gij157877468	LmjF36.4670	hypothetical protein, conserved	Leishmania major	2	7.0	48	14595	6.12	0.18
gij157869355	LmjF22.0780	NADH-cytochrome b5 reductase, putative	Leishmania major	4	11.1	121	32497	8.49	0.17
gij157864512	LmjF07.0600	electron transfer flavoprotein-ubiquinone oxidoreductase, putative	Leishmania major	6	11.8	87	63669	7.01	0.17
gij157866683	LmjF14.1330	hypothetical protein, conserved	Leishmania major	4	8.0	196	64236	8.88	0.17
gij157868912	LmjF21.0735	hypothetical protein, conserved	Leishmania major	2	9.9	80	15726	7.67	0.16
gij70905915	LmjF35.3310	hypothetical protein, conserved	Leishmania major strain Friedlin	4	6.9	57	33003	6.67	0.16
gij157873585	LmjF31.3090	metallo-peptidase, Clan ME, Family M16; peptidase, putative	Leishmania major	18	5.7	372	125103	5.2	0.15
gij157866250	LmjF13.0870	metallo-peptidase, Clan ME, Family M16; mitochondrial processing peptidase alpha subunit, putative	Leishmania major	7	4.0	176	58169	7.66	0.14
gij70799978	LmjF27.0730	reductase, putative	Leishmania major strain Friedlin	2	6.4	77	37948	8.9	0.14
gij157873999	LmjF32.1770	hypothetical protein, conserved	Leishmania major	3	8.8	77	58292	6.51	0.14
gij157869941	LmjF24.0030	hypothetical protein, conserved	Leishmania major	1	4.2	26	18381	11.02	0.14
gij157868872	LmjF21.0550	dihydrolipoamide acetyltransferase precursorlike protein	Leishmania major	9	6.9	326	40700	5.37	0.13
gij157877181	LmjF36.3410	short chain dehydrogenase-like protein	Leishmania major	3	4.3	77	41336	9.79	0.13
gij157868906	LmjF21.0720	hypothetical protein, conserved	Leishmania major	3	9.0	178	40116	8.66	0.13
gij157872251	LmjF30.0805	hypothetical protein, conserved	Leishmania major	1	5.1	50	21047	9.83	0.12
gij157864462	LmjF07.0360	hypothetical protein, conserved	Leishmania major	2	5.9	37	21196	8.35	0.12
gij157867018	LmjF15.1460	phosphomevalonate kinase-like protein	Leishmania major	2	5.2	101	49773	5.77	0.11
gij70905818	LmjF35.2330	hypothetical protein, conserved	Leishmania major strain Friedlin	9	4.6	312	100942	4.69	0.11
gij157876159	LmjF34.3360	hypothetical protein, conserved	Leishmania major	3	4.3	85	23747	8.81	0.11
gij157879116	LmjF03.0910	inorganic pyrophosphatase, putative	Leishmania major	1	9.7	45	25186	5.41	0.10
gij157865742	LmjF11.1100	lanosterol 14-alpha-demethylase, putative	Leishmania major	2	4.8	61	54928	6.89	0.10
gij157873031	LmjF31.0480	hypothetical protein, conserved	Leishmania major	2	4.2	70	52703	9.06	0.10
gij157876544	LmjF36.0480	hypothetical protein, conserved	Leishmania major	1	3.6	33	26313	4.92	0.10

gij2266923	LmjF01.0710	ubiquitin activating enzyme, putative	Leishmania major strain Friedlin	2	4.8	54	58356	5.49	0.09
gij157878938	LmjF03.0030	D-3-phosphoglycerate dehydrogenase-like protein	Leishmania major	3	5.1	88	56253	7.9	0.09
gij157869937	LmjF24.0010	pyruvate dehydrogenase (lipoamide) kinase, putative	Leishmania major	2	6.0	85	55847	7.55	0.09
gij157864484	LmjF07.0470	hypothetical protein, conserved	Leishmania major	4	6.3	99	92071	6.49	0.09
gij157869231	LmjF22.0140	hypothetical protein, conserved	Leishmania major	2	4.7	58	59803	8.78	0.09
gij70906016	LmjF35.4300	hypothetical protein, conserved	Leishmania major strain Friedlin	1	4.0	51	28826	9.48	0.09
gij157877867	LmjF36.6410	hypothetical protein, conserved	Leishmania major	3	4.3	30	58831	5.97	0.09
gij71745892	LmjF02.0040	metallo-peptidase, Clan MG, Family M24	Leishmania major	3	6.3	61	69481	5.84	0.08
gij157873900	LmjF32.1340	cleavage and polyadenylation specificity factor-like protein	Leishmania major	7	4.7	223	168796	6.12	0.08
gij157875473	LmjF34.0380	hypothetical protein, unknown function	Leishmania major	3	3.1	69	62245	6.51	0.08
gij157874784	LmjF33.0620	hypothetical protein, conserved	Leishmania major	1	5.3	53	33866	4.65	0.08
gij157876614	LmjF36.0800	hypothetical protein, conserved	Leishmania major	4	3.7	46	68952	6.45	0.08
gij157872245	LmjF30.0780	mitochondrial oligo_U binding protein TBRGG1, putative	Leishmania major	3	3.2	85	72929	7.67	0.07
gij157877336	LmjF36.4070	phosphoglycerate mutase-like protein	Leishmania major	1	4.0	39	39114	9.07	0.07
gij157868790	LmjF21.0140	hypothetical protein, conserved	Leishmania major	3	2.8	86	73982	6.54	0.07
gij157864588	LmjF07.0930	hypothetical protein, conserved	Leishmania major	3	3.0	61	37323	4.55	0.07
gij157866220	LmjF13.0720	oxidoreductase-like protein	Leishmania major	1	3.6	26	42635	8.76	0.06
gij157866766	LmjF15.0220	protein phosphatase 1 catalytic subunit, putative	Leishmania major	1	2.1	27	42986	5.65	0.06
gij157869702	LmjF23.0670	oxidoreductase-like protein	Leishmania major	1	2.9	39	41877	5.61	0.06
gij157868934	LmjF21.0825	hypothetical protein, conserved	Leishmania major	12	2.8	278	349096	4.95	0.06
gij157868487	LmjF20.0380	hypothetical protein, unknown function	Leishmania major	3	2.4	123	45202	5.81	0.06
gij157871443	LmjF26.2640	hypothetical protein, conserved	Leishmania major	2	2.3	55	42096	5.49	0.06
gij157871217	LmjF26.1540	hypothetical protein, conserved	Leishmania major	2	3.5	47	43202	8.8	0.06
gij70799828	LmjF29.2870	hypothetical protein, conserved	Leishmania major strain Friedlin	2	4.4	26	42915	6.79	0.06
gij157873010	LmjF31.0390	calpain-like cysteine peptidase, putative; cysteine peptidase, Clan CA, family C2, putative	Leishmania major	5	5.6	85	97703	5.08	0.05
gij157872066	LmjF28.2960	hypothetical protein, conserved	Leishmania major	3	2.7	109	48669	8.02	0.05
gij157873474	LmjF31.2590	hypothetical protein, conserved	Leishmania major	3	2.5	103	104398	5.8	0.05
gij157871077	LmjF26.0840	hypothetical protein, conserved	Leishmania major	2	2.2	50	100858	4.98	0.05
gij157876536	LmjF36.0440	hypothetical protein, conserved	Leishmania major	1	3.1	50	52986	5.98	0.05

gij157869750		hypothetical protein, unknown function	Leishmania major	1	1.5	27	50822	5.82	0.05
gij157865750	LmjF11.1160	protein transport protein sec31, putative	Leishmania major	3	1.6	74	123239	6.1	0.04
gij70905812	LmjF35.2270	ATP-dependent RNA helicase-like protein	Leishmania major strain Friedlin	3	2.8	90	127643	5.65	0.04
gij70799804	LmjF29.2630	hypothetical protein, conserved	Leishmania major strain Friedlin	6	2.4	292	132406	4.79	0.04
gij157864258	LmjF06.0690	hypothetical protein, conserved	Leishmania major	5	2.0	159	256278	8.55	0.04
gij157876600	LmjF36.0730	hypothetical protein, conserved	Leishmania major	1	2.7	91	61792	8.69	0.04
gij157867879	LmjF18.0870	hypothetical protein, conserved	Leishmania major	3	2.1	89	57965	9.07	0.04
gij157877488	LmjF36.4760	hypothetical protein, conserved	Leishmania major	1	1.5	50	71931	8.44	0.04
gij157865815	LmjF12.0090	hypothetical protein, conserved	Leishmania major	1	2.1	39	63186	7.17	0.04
gij157874131	LmjF32.2350	hypothetical protein, conserved	Leishmania major	2	1.6	38	61122	5.54	0.04
gij157871958	LmjF28.2440	hypothetical protein, conserved	Leishmania major	1	1.3	36	72064	6	0.04
gij70799685	LmjF29.1450	phosphatidylinositol-kinase domain protein, putative	Leishmania major strain Friedlin	4	1.5	137	293698	8.12	0.03
gij157864534	LmjF07.0700	topoisomerase-related function protein-like protein	Leishmania major	3	0.8	73	99908	7.31	0.03
gij157863932	LmjF05.0390	protein kinase, putative	Leishmania major	2	2.4	162	77949	5.1	0.03
gij157873654	LmjF32.0190	hypothetical protein, conserved	Leishmania major	3	1.2	160	82440	5.52	0.03
gij157867321	LmjF16.1340	hypothetical protein, conserved	Leishmania major	6	1.9	124	403925	8.8	0.03
gij157871550	LmjF28.0470	hypothetical protein, conserved	Leishmania major	2	1.4	62	86939	6.42	0.03
gij157867438	LmjF17.0130	hypothetical protein, unknown function	Leishmania major	2	1.2	52	93971	6.58	0.03
gij157864326	LmjF06.1010	hypothetical protein, conserved	Leishmania major	1	2.0	46	83902	5.61	0.03
gij157867369	LmjF16.1560	hypothetical protein, conserved	Leishmania major	1	1.7	36	77243	5.6	0.03
gij157866027	LmjF12.1110	hypothetical protein, unknown function	Leishmania major	2	2.0	28	78806	6.96	0.03
gij157871115	LmjF26.1030	hypothetical protein, conserved	Leishmania major	1	0.9	26	87673	6.64	0.03
gij157872576	LmjF30.2210	endosomal trafficking protein RME-8, putative	Leishmania major	4	1.6	92	276016	6.12	0.02
gij157867632	LmjF17.1130	hypothetical protein, conserved	Leishmania major	2	1.0	46	129340	9.09	0.02
gij157870492	LmjF25.0430	hypothetical protein, conserved	Leishmania major	1	1.3	41	110656	6.42	0.02
gij70905879	LmjF35.2950	hypothetical protein, conserved	Leishmania major strain Friedlin	1	2.1	37	118647	6.51	0.02
gij157874367	LmjF32.3410	hypothetical protein, conserved	Leishmania major	2	0.6	58	297665	5.91	0.01
gij157879036	LmjF03.0530	hypothetical protein, conserved	Leishmania major	2	0.8	35	225068	6.91	0.01
gij157870662	LmjF25.1260	hypothetical protein, conserved	Leishmania major	2	0.8	27	245671	6.69	0.01
gij157864488	LmjF07.0480	hypothetical protein, conserved	Leishmania major	4	0.7	31	544344	6.38	0.00

Potentially by amastigotes secreted proteins, ordered according to their relative abundance (emPAI)



## CURRICULUM VITAE

Aus Datenschutzgründen wird der Lebenslauf nicht veröffentlicht.