

## SUPPLEMENTAL MATERIAL

Mittra et al., <http://www.jem.org/cgi/content/full/jem.20121368/DC1>**Table S1.** Primers used for qPCR reactions

Gene	Forward primer	Reverse primer
<i>UbH</i> LmxM.08_29.2300	5'-AACGTGAACAACGGATGTGCGTC-3'	5'-ATGGTACCAAGCTTGACACATGCC-3'
<i>LIT1</i> LmxM.30.3070	5'-TATGTGTTCTCCGTGGCGAAGTCT-3'	5'-CACAGCAATCAGGGCAAGCAAGAA-3'
<i>LFR1</i> LmxM.29.1610	5'-GCAACGTGCTTTGTCAACCTGAGA-3'	5'-ATCTCGGCATTCAGCCTCACATCT-3'
<i>CPB</i> LmxM.08.1070	5'-TCAAGGTGAACGAGTGCCACAAGA-3'	5'-AAGTACGGCGAGCACTTACCATCA-3'
<i>ATG8</i> LmxM.19.1630	5'-ACAAGAGCAAGTCTTGGTACCGC-3'	5'-AGGTCGCTCATGAGAGTGCTGTT-3'
<i>ATG8A</i> LmxM.19.0870	5'-ACATCTTCGACGCCTTCAAGCA-3'	5'-GGAGCCAAGCAGGTTTGGGTATT-3'
<i>ATG4.1</i> LmxM.31.3890	5'-AAAGGAGAGGATATCGCGGCTGTT-3'	5'-ACCTTGTGCGTGAAAGGCAATCAG-3'
<i>APX</i> LmxM.33.0070	5'-TGCGGTGAATGCCACATCAAGTTC-3'	5'-AAGCATCATCAGCTTCGTCGTTGC-3'
<i>Amastin-like 1</i> LmxM.08.0760	5'-AGGTGTGATGTGCTGAACGACGAT-3'	5'-ACGGGAGCATCAGGAAGATGATGT-3'
<i>Amastin-like 2</i> LmxM.08.0770	5'-CATCTTCGTGTACGGCTTTGCGTT-3'	5'-TTCGGTAAGTCACCACCATGAGCA-3'
<i>P27</i> LmxM.28.0980	5'-TTACCGCTCCGCTATAACGTGCT-3'	5'-ACCACCCGTGTAGATCAGACAA-3'
ribosomal 60S L5 LmxM.34.1900	5'-GTGCTGCAGGACAAGACGAAGTTT-3'	5'-TGCACAATGATGTCCTTGTTCTGTG-3'
eIF-3 subunit LmxM.36.3880	5'-TCAAGACGCCCTTACCACCTTCT-3'	5'-AGCGGTTAATCACCTCGTTCTCGT-3'

**Table S2.** SL RNA-seq analysis of *L. amazonensis* promastigotes cultured with or without iron

Gene ID	Product description	Rep 1		Rep 2		Fold change			P-value
		Fe <sup>+</sup>	Fe <sup>-</sup>	Fe <sup>+</sup>	Fe <sup>-</sup>	Rep 1	Rep 2	log <sub>2</sub>	
LmxM.08_29.0620	ABC transporter, putative	4,451	95,447	17,859	97,488	7.88	4.16	2.60	0.00
LmxM.30.3070	iron/zinc transporter protein [LIT1]	75	870	148	1,244	4.26	6.40	2.48	0.00
LmxM.29.1610	ferric reductase [LFR1]	47	427	179	1,472	3.34	6.26	2.42	0.00
LmxM.04.0200	surface antigen-like protein	6	77	20	137	4.72	5.22	2.37	0.00
LmxM.30.1190	hypothetical protein, unknown function	68	843	176	964	4.56	4.17	2.23	0.00
LmxM.14.1360	myo-inositol-1-phosphate synthase	761	9,029	2,204	11,416	4.36	3.95	2.15	0.00
LmxM.33.1730	unspecified product	11	93	46	267	3.11	4.42	2.02	0.00
LmxM.25.1700	hypothetical protein, conserved	4	83	44	184	7.62	3.19	1.98	0.00
LmxM.19.0870	ATG8/AUT7/APG8/PAZ2, putative	88	866	290	1,395	3.62	3.66	1.96	0.00
LmxM.23.1680	hypothetical protein, conserved	20	407	645	2,862	7.48	3.38	1.95	0.01
LmxM.08.0760	amastin-like protein, putative	5	41	26	120	3.01	3.52	1.75	0.01
LmxM.28.0980	hypothetical protein, conserved [P27]	9	104	61	166	4.25	2.07	1.45	0.01
LmxM.09.0150	ATG8/AUT7/APG8/PAZ2, putative [ATG8C.1]	20	104	30	306	1.91	7.77	2.14	0.00
LmxM.19.0820	ATG8/AUT7/APG8/PAZ2, putative	509	3,025	1,164	3,771	2.18	2.47	1.31	0.01
LmxM.24.1260	amastin-like surface protein-like protein	16	98	60	189	2.25	2.40	1.29	0.02
LmxM.24.1270	amastin-like surface protein-like protein	107	733	272	643	2.52	1.80	1.22	0.01
LmxM.08.0770	amastin-like protein, putative	5	20	20	67	1.47	2.55	1.12	0.08
LmxM.08.1080	cathepsin L-like protease, putative	198	1,726	867	1,590	3.20	1.40	1.15	0.03
LmxM.08.1070	cathepsin L-like protease, putative	5	34	22	46	2.50	1.59	0.97	0.11
LmxM.29.0270	AUT2/APG4/ATG4 cysteine peptidase, putative	27	126	83	201	1.71	1.84	0.92	0.08
LmxM.36.3880	eukaryotic translation initiation factor 3 subunit, putative	711	642	1,518	595	0.33	0.30	-1.55	0.00
LmxM.34.1230	short chain dehydrogenase, putative	1,955	1,668	2,901	1,240	0.31	0.33	-1.55	0.01
LmxM.34.1430	60S ribosomal protein L2, putative	301	255	528	220	0.31	0.32	-1.56	0.00
LmxM.34.1540	reiske iron-sulfur protein precursor, putative	3,296	2,613	5,840	2,235	0.29	0.29	-1.67	0.00
LmxM.26.0010	brix domain containing-like protein	266	191	534	217	0.26	0.31	-1.71	0.00
LmxM.05.0140	nucleolar RNA helicase II, putative	657	501	1,516	533	0.28	0.27	-1.76	0.00
LmxM.36.2360	tyrosine aminotransferase, putative	1,882	1,576	5,875	1,883	0.31	0.24	-1.77	0.00
LmxM.08_29.0030	ribosomal protein L3-like protein	11	9	62	20	0.30	0.25	-1.86	0.00
LmxM.07.0040	hypothetical protein, conserved	65	37	80	30	0.21	0.29	-1.97	0.00
LmxM.07.0800	flavoprotein subunit-like protein	190	138	517	141	0.27	0.21	-1.98	0.00
LmxM.25.0920	hypothetical protein, conserved	275	115	230	98	0.15	0.32	-2.24	0.00
LmxM.14.0080	hypothetical protein, conserved	36	14	32	12	0.14	0.29	-2.32	0.00
LmxM.32.1140	hypothetical protein, conserved	8,979	5,067	19,944	3,804	0.21	0.15	-2.38	0.00
LmxM.08.0290	iron superoxide dismutase	320	105	564	175	0.12	0.24	-2.48	0.00

**Table S2.** SL RNA-seq analysis of *L. amazonensis* promastigotes cultured with or without iron (*Continued*)

Gene ID	Product description	Rep 1		Rep 2		Fold change			P-value
		Fe <sup>+</sup>	Fe <sup>-</sup>	Fe <sup>+</sup>	Fe <sup>-</sup>	Rep 1	Rep 2	log <sub>2</sub>	
LmxM.30.1200	hypothetical protein, unknown function	1,347	644	3,783	661	0.18	0.13	-2.60	0.00
LmxM.36.4520	hypothetical protein, conserved	66	21	33	14	0.12	0.32	-2.60	0.00
LmxM.02.0460	hypothetical protein, conserved	788	124	1,078	196	0.06	0.14	-3.45	0.00
LmxM.34.3890	calmodulin-like protein, EF hand containing protein	170	24	37	14	0.05	0.29	-3.71	0.00
LmxM.18.0510	aconitase, putative	976	102	309	121	0.04	0.30	-3.81	0.00
LmxM.05.1030	hypothetical protein, conserved	348	21	52	19	0.02	0.28	-4.68	0.00

The Gene ID and product description are from TriTrypDB version 4.0, with additional annotation added in brackets, e.g. [LIT1]. Genes in bold encode proteins discussed throughout the paper. The columns labeled Rep 1 and Rep 2 contain the raw number of reads mapped to each gene for replicate-independent cultures of promastigotes grown in medium with (Fe<sup>+</sup>) or without (Fe<sup>-</sup>) iron. The fold change columns numbers for Rep 1 and Rep 2 represent the median-normalized ratio of reads from the Fe<sup>+</sup>/Fe<sup>-</sup> libraries. The log<sub>2</sub> fold change and p-values were calculated by edgeR. The first 11 rows show all genes with threefold or greater up-regulation in both replicates, whereas the bottom 20 rows show those with threefold or greater down-regulation. Genes in the middle were selected from those that showed less consistent up-regulation but were confirmed by qPCR.