

Supplementary Table 1. Genes found to be more highly expressed in phagocytic compared to non-phagocytic *E. histolytica*. Fold increase is in log(2) format and all results have an adjusted p-value < 0.05.

Affymetrix ID	GenBank ID	AmoebaDB ID	Protein Name (AmoebaDB annotation)	logF C	adj.p.valu e
248.m00071_at	XM_644990	EHI_029600	hypothetical protein, conserved	3.759	7.23E-03
42.m00168_at	XM_649772	EHI_124620	hypothetical protein	2.705	7.10E-03
145.m00077_at	XM_646732	EHI_082590	glutamic acid-rich protein precursor, putative	2.565	8.24E-03
19.m00283_at	XM_650928	EHI_098440	hypothetical protein, conserved	2.483	8.24E-03
29.m00230_at	XM_650321	EHI_088070	ribosomal RNA methyltransferase, putative	2.439	8.24E-03
5.m00428_at	XM_651936	EHI_110180	myosin heavy chain	2.426	2.04E-02
60.m00141_at	XM_649110	EHI_140720	myosin heavy chain	2.389	1.42E-02
47.m00161_at	XM_649577	EHI_009570	gelsolin repeat protein, putative	2.302	9.17E-03
156.m00107_at	XM_646504	EHI_184220	hypothetical protein	2.219	1.81E-02
181.m00057_at	XM_646043	EHI_066720	hypothetical protein, conserved	2.212	8.24E-03
10.m00342_at	XM_651489	EHI_050790	structural maintenance of chromosomes protein	2.200	2.38E-02
298.m00063_at	XM_644386	EHI_113950	hypothetical protein, conserved	2.154	1.19E-02
528.m00021_at	XM_643074	EHI_183900	snoRNA binding protein, putative	2.124	1.40E-02
30.m00245_at	XM_650273	EHI_021260	villidin, putative	2.123	8.24E-03
219.m00091_at	XM_645357	EHI_105670	plastin-2, putative	2.118	9.39E-03
78.m00180_at	XM_648500	EHI_045540	hypothetical protein	2.110	8.24E-03
59.m00163_at	XM_649122	EHI_122900	hypothetical protein, conserved	2.107	3.39E-02
208.m00084_at	XM_645523	EHI_175400	hypothetical protein, conserved	2.102	1.14E-02
99.m00176_at	XM_647855	EHI_025370	hypothetical protein, conserved	2.085	8.24E-03
80.m00149_at	XM_648419	EHI_016340	hypothetical protein	2.081	8.24E-03
853.m00011_at	XM_642801	EHI_071210	hypothetical protein	2.059	1.35E-02
43.m00200_at	XM_649716	EHI_007480	villin, putative	2.052	1.94E-02
187.m00069_at	XM_645914	EHI_189500	calponin homology domain protein, putative	2.048	7.23E-03
80.m00150_at	XM_648420	EHI_016350	hypothetical protein, conserved	1.972	1.87E-02
1.m00661_at	XM_652483	EHI_148910	interaptin, putative	1.967	8.24E-03
104.m00170_at	XM_647724	EHI_177190	hypothetical protein, conserved	1.953	1.14E-02
92.m00169_at	XM_648060	EHI_197120	protein phosphatase, putative	1.942	8.24E-03

55.m00175_at	XM_649286	EHI_008020	hypothetical protein, conserved	1.918	1.56E-02
233.m00112_at	XM_645163	EHI_189540	hypothetical protein	1.903	4.40E-02
54.m00221_at	XM_649330	EHI_083620	hypothetical protein	1.892	1.56E-02
123.m00109_at	XM_647214	EHI_127340	translation initiation factor IF-2, putative	1.880	2.52E-02
101.m00127_at	XM_647793	EHI_059690	hypothetical protein, conserved	1.853	2.38E-02
13.m00295_at	XM_651257	EHI_153770	phosphatidylinositol-4-phosphate 5-kinase, putative	1.849	2.25E-02
199.m00088_at	XM_645694	EHI_017690	hypothetical protein	1.844	1.50E-02
310.m00064_at	XM_644295	EHI_095890	DNA-directed RNA polymerase I largest subunit, putative	1.834	1.14E-02
5.m00472_at	XM_651915	EHI_106280	RecF/RecN/SMC domain containing protein	1.825	1.47E-02
263.m00053_at	XM_644795	EHI_146100	hypothetical protein	1.823	2.43E-02
27.m00265_at	XM_650441	EHI_131230	actin, putative	1.821	8.24E-03
24.m00313_at	XM_650625	EHI_145970	hypothetical protein	1.814	1.42E-02
121.m00118_at	XM_647263	EHI_143620	hypothetical protein, conserved	1.814	1.40E-02
13.m00303_at	XM_651265	EHI_153670	U1 small nuclear ribonucleoprotein subunit, putative	1.796	1.78E-02
469.m00053_at	XM_643273	EHI_155290	actinin-like protein, putative	1.757	2.53E-02
3.m00637_at	XM_652110	EHI_044930	eukaryotic translation initiation factor 4 gamma, putative	1.732	1.93E-02
3.m00570_at	XM_652193	EHI_093860	MIT domain protein	1.720	2.18E-02
1.m00665_at	XM_652487	EHI_148870	hypothetical protein	1.707	1.06E-02
16.m00351_at	XM_651077	EHI_185240	long-chain-fatty-acid--CoA ligase, putative	1.692	4.40E-02
56.m00155_at	XM_649260	EHI_121060	hypothetical protein, conserved	1.684	8.24E-03
59.m00173_at	XM_649132	EHI_122800	actin-binding protein, putative	1.678	8.94E-03
8.m00387_at	XM_651681	EHI_067970	chorein, putative	1.674	4.40E-02
50.m00193_at	XM_649447	EHI_092290	hypothetical protein, conserved	1.670	1.78E-02
114.m00147_at	XM_647453	EHI_008630	hypothetical protein	1.670	8.24E-03
48.m00200_at	XM_649547	EHI_141900	chromodomain-helicase-DNA-binding protein, putative	1.652	3.61E-02
370.m00045_at	XM_643820	EHI_003930	I/LWEQ domain protein	1.648	1.50E-02
73.m00145_at	XM_648669	EHI_039330	hypothetical protein, conserved	1.648	1.81E-02
44.m00158_at	XM_649685	EHI_167130	filopodin, putative	1.645	2.45E-02
211.m00077_at	XM_645473	EHI_091100	TPR repeat protein	1.633	8.94E-03
30.m00246_at	XM_650274	EHI_021270	villidin, putative	1.631	1.53E-02

219.m00077_at	XM_645343	EHI_154180	zinc finger domain containing protein	1.611	8.24E-03
234.m00049_at	XM_645146	EHI_063040	hypothetical protein	1.611	1.14E-02
22.m00287_at	XM_650730	EHI_150430	villidin, putative	1.597	9.39E-03
91.m00203_at	XM_648086	EHI_000780	chromodomain-helicase-DNA-binding protein, putative	1.587	1.28E-02
78.m00175_at	XM_648505	EHI_045590	hypothetical protein	1.578	9.39E-03
1.m00694_at	XM_652390	EHI_148570	hypothetical protein	1.550	2.34E-02
43.m00194_at	XM_649710	EHI_007640	hypothetical protein, conserved	1.540	1.81E-02
81.m00164_at	XM_648396	EHI_022940	DNA-directed RNA polymerase subunit, putative	1.531	1.85E-02
18.m00327_at	XM_650959	EHI_118050	coatomer alpha subunit, putative	1.529	3.61E-02
58.m00163_at	XM_649180	EHI_110740	hypothetical protein	1.504	3.38E-02
107.m00116_at	XM_647635	EHI_048630	actin, putative	1.503	1.78E-02
155.m00097_at	XM_646521	EHI_159750	hypothetical protein	1.485	2.78E-02
300.m00062_at	XM_644362	EHI_103580	hypothetical protein	1.476	2.97E-02
83.m00198_at	XM_648323	EHI_005910	Rho guanine nucleotide exchange factor, putative	1.467	2.43E-02
100.m00131_at	XM_647829	EHI_156330	hypothetical protein	1.465	1.65E-02
85.m00147_at	XM_648260	EHI_103840	DNA repair protein, putative	1.464	1.14E-02
153.m00105_at	XM_646576	EHI_134980	hypothetical protein	1.456	2.70E-02
173.m00119_at	XM_646183	EHI_099780	hypothetical protein	1.432	1.87E-02
87.m00174_at	XM_648204	EHI_199130	hypothetical protein, conserved	1.428	2.69E-02
47.m00159_at	XM_649575	EHI_009540	hypothetical protein, conserved	1.428	1.69E-02
3.m00546_at	XM_652115	EHI_044890	helicase, putative	1.426	8.24E-03
131.m00141_at	XM_647036	EHI_134780	hypothetical protein, conserved	1.409	1.14E-02
24.m00300_at	XM_650612	EHI_152940	hypothetical protein	1.406	4.51E-02
476.m00024_at	XM_643242	EHI_194870	hypothetical protein, conserved	1.401	3.57E-02
11.m00378_at	XM_651422	EHI_125650	PIWI, putative	1.391	1.61E-02
12.m00287_at	XM_651366	EHI_187280	transcription initiation factor SPT5, putative	1.383	1.29E-02
163.m00096_at	XM_646384	EHI_119550	CCR4/NOT transcription complex subunit 3, putative	1.381	2.82E-02
50.m00166_at	XM_649484	EHI_092080	hypothetical protein, conserved	1.367	2.23E-02
77.m00153_at	XM_648516	EHI_098360	glycogen debranching enzyme, putative	1.346	4.83E-02
98.m00137_at	XM_647879	EHI_008710	TPR repeat protein	1.345	4.12E-02
56.m00169_at	XM_649232	EHI_183520	hypothetical protein	1.324	2.82E-02

231.m00078_at	XM_645182	EHI_007320	hypothetical protein, conserved	1.322	1.94E-02
102.m00081_at	XM_647783	EHI_079960	hypothetical protein, conserved	1.321	1.94E-02
31.m00182_at	XM_650227	EHI_012590	hypothetical protein	1.319	9.90E-03
77.m00164_at	XM_648527	EHI_098300	U2 snRNP auxiliary factor large subunit, putative	1.281	2.08E-02
3.m00580_at	XM_652203	EHI_093770	bromodomain-containing protein	1.245	2.40E-02
29.m00207_at	XM_650324	EHI_133920	TPR repeat protein	1.242	2.14E-02
4.m00642_at	XM_652061	EHI_067560	hypothetical protein	1.237	1.28E-02
31.m00193_at	XM_650239	EHI_012470	helicase domain-containing protein	1.236	2.09E-02
2.m00554_at	XM_652281	EHI_151520	DNA polymerase alpha catalytic subunit, putative	1.221	3.87E-02
19.m00290_at	XM_650935	EHI_098510	hypothetical protein	1.206	1.78E-02
141.m00080_at	XM_646818	EHI_081930	ATPase, AAA family protein	1.198	2.38E-02
3.m00571_at	XM_652194	EHI_093850	Viral A-type inclusion protein repeat, putative	1.173	2.68E-02
18.m00335_at	XM_650967	EHI_117970	DNA replication licensing factor	1.170	2.07E-02
151.m00098_at	XM_646614	EHI_100290	Rap/Ran GTPase-activating protein, putative	1.156	2.53E-02
68.m00224_at	XM_648842	EHI_105240	BAR/SH3 domain containing protein	1.146	2.52E-02
344.m00051_at	XM_643998	EHI_056700	hypothetical protein	1.146	1.78E-02
151.m00103_at	XM_646619	EHI_100140	Rho guanine nucleotide exchange factor, putative	1.141	2.00E-02
26.m00308_at	XM_650468	EHI_167710	hypothetical protein, conserved	1.141	2.09E-02
206.m00083_at	XM_645551	EHI_033720	DEAD/DEAH box helicase, putative	1.137	4.30E-02
92.m00180_at	XM_648052	EHI_197040	hypothetical protein	1.136	4.94E-02
545.m00019_at	XM_643045	EHI_167940	hypothetical protein	1.127	2.32E-02
64.m00149_at	XM_648945	EHI_137680	protein with RhoGEF and ArfGAP domains	1.124	1.94E-02
45.m00158_at	XM_649656	EHI_199700	SMC4 protein, putative	1.121	1.51E-02
414.m00041_at	XM_643563	EHI_125170	DEAD/DEAH box helicase, putative	1.118	3.86E-02
121.m00125_at	XM_647270	EHI_143550	hypothetical protein, conserved	1.115	4.51E-02
26.m00311_at	XM_650472	EHI_180030	hypothetical protein	1.104	1.39E-02
69.m00175_at	XM_648792	EHI_192460	formin homology 2 family protein	1.097	1.78E-02
128.m00124_at	XM_647116	EHI_109860	chromatin-specific transcription elongation factor, putative	1.089	1.78E-02
259.m00045_at	XM_644837	EHI_119920	DEAD/DEAH box helicase, putative	1.077	1.64E-02
71.m00152_at	XM_648719	EHI_180420	hypothetical protein, conserved	1.061	4.32E-02
882.m00006_at	XM_642784	EHI_090640	hypothetical protein, conserved	1.053	3.32E-02

3.m00567_at	XM_652190	EHI_093890	hypothetical protein, conserved	1.020	4.83E-02
133.m00148_at	XM_646985	EHI_054800	hypothetical protein	1.016	2.80E-02