

Table S4. The list of proteins detected from phagosomes only in this study, but not in our previous study (32).

ID number	Function
Rab_Vesicular trafficking, other small	GTPase, and effectors
EHL_040310	EAL43520 Rab family GTPase
EHL_046390	EAL43948 Rab family GTPase
EHL_082230	EAL46537 Rab family GTPase
EHL_177520	EAL50536 Rab family GTPase
EHL_004380	EAL46866 Rab family GTPase
EHL_005460	EAL42562 Rab family GTPase
EHL_042250	EAL51150 Rab family GTPase
EHL_068230	EAL46354 Rab family GTPase
EHL_067850	EAL51401 Rab family GTPase
EHL_056100	EAL47212 Rab family GTPase
EHL_117960	EAL50676 Rab family GTPase
EHL_012380	EAL49954 Rab family GTPase
EHL_073440	EAL51294 small GTPase ArfB1
EHL_164900	EAL49821 small GTPase EhRabD2
EHL_059670	small GTPase RabD1
	AAA29114 Ras-like GTP-binding protein RHO1
EHL_180430	EAL48426 Rho family GTPase
EHL_178680	EAL50872 Rho family GTPase
EHL_013260	EAL50915 Rho family GTPase
EHL_005910	EAL48058 Rho guanine nucleotide exchange factor
EHL_182930	EAL49773 RhoGAP domain containing protein
EHL_180430	EAL48426 Rho family GTPase
EHL_013260	EAL50915 Rho family GTPase
EHL_051820	EAL48002 protein with RhoGEF and ArfGAP domains
EHL_140140	EAL51357 gtpase activating protein
EHL_194500	EAL49302 ADP-ribosylation factor
EHL_148190	EAL52137 Ran family GTPase
	XP_001913620 Ras-1
EHL_004860	EAL45317 Ras family GTPase
EHL_137700	EAL48653 Ras family GTPase
EHL_196530	EAL43536 Ras family GTPase
EHL_035800	EAL50768 Ras GTPase activating protein
EHL_139030	EAL43134 Ayrntaxin
EHL_093130	EAL42694 Ayrntaxin binding protein
EHL_013040	EDS89698 Alpha_adaptin beta subunit isoform b
EHL_196890	EAL44666 Alpha_adaptin gamma subunit isoform 1
EHL_093860	EAL51906 MIT domain protein
EHL_170040	EAL50601 Longin-type vesicle-associated membrane protein
EHL_052740	EAL46248 Dynamin-like protein
EHL_140350	EAL48350 Guanine nucleotide-binding protein alpha-16 subunit [Entamoeba dispar SAW760]
EHL_000240	EAL47361 Guanine nucleotide-binding protein subunit beta
EHL_064680	EAL45804 alpha-soluble NSF attachment protein
EHL_152680	EAL50295 EH-domain containing protein
EHL_069950	EAL43400 C2 domain containing protein
EHL_060380	EAL47854 Grainin
	EDS89207 Grainin
EHL_167300	EAL44984 Grainin 1
EHL_167310	EAL44970 Grainin 2
EHL_169820	EAL50624 SNF7 family protein
EHL_194400	EAL49310 SNF7 family protein
EHL_038590	EAL51498 EhEmp24D
EHL_067870	EAL51399 Ras GTPase-activating protein
EHL_137920	EAL48673 MIG-14 Wnt-binding factor
EHL_139040	EAL43129 MIG-14 Wnt-binding factor
EHL_105210	EAL48544 The F-BAR domain containing protein
Enzymes	
EHL_150490	EAL46914 Alcohol dehydrogenase
EHL_198760	EAL49788 Alcohol dehydrogenase
EHL_125950	EAL45033 Alcohol dehydrogenase
EHL_152880	EAL50314 Alpha-amylase family protein
EHL_192590	EAL48510 Beta-amylase
EHL_012010	EAL50824 Beta-N-acetylhexosaminidase
EHL_039610	EAL43609 Cysteine proteinase
EHL_182720	EAL43030 Dipeptidyl-peptidase
EHL_087570	EAL45971 Endoribonuclease L-PSP
EHL_044370	EAL46995 Gamma-amylase
EHL_169300	EAL45818 Ribonuclease
EHL_127160	EAL48792 Ribonuclease
EHL_176820	EAL44451 N-acetylmuraminidase
EHL_098570	EAL44987 Fructose-1
EHL_052770	EAL46247 Glucosidase II alpha subunit
EHL_187020	EAL48973 Glycerdehyde-3-phosphate dehydrogenase
EHL_165070	EAL46832 Short chain dehydrogenase family protein
EHL_185280	EAL43285 Phosphoglucomutase/phosphomannomutase family protein
EHL_076870	EAL49536 Steroid 5-alpha reductase
EHL_037190	EAL43602 Serine carboxypeptidase (S28) family protein
EHL_096280	EAL51525 Endo-1,4-beta-xylanase
EHL_101240	EAL51626 Nuclease domain-containing protein
EHL_114320	EAL43471 Phospholipase B
EHL_130700	EAL43773 Enolase
EHL_158240	EAL44771 Fatty acid elongase
EHL_163540	EAL44582 beta-Keto acyl reductase
EHL_026340	EAL49998 Thioredoxin
EHL_021560	EAL44614 Thioredoxin
EHL_110350	EAL51634 Thioredoxin
EHL_170420	EAL45646 Thioredoxin
EHL_061980	EAL43136 Peroxiredoxin
EHL_056480	EAL45339 Triosephosphate isomerase
EHL_165350	EAL44379 Malate dehydrogenase
EHL_044970	EAL43201 Malic enzyme
EHL_128100	EAL42895 Peptidyl-prolyl cis-trans isomerase
EHL_071590	EAL45264 Protein disulfide isomerase
EHL_009530	EAL51884 Pyruvate phosphate dikinase
EHL_051060	EAL51636 Pyruvate:ferredoxin oxidoreductase
EHL_099180	EAL48899 Lecithin:cholesterol acyltransferase
EHL_020250	EAL43804 Lecithin:cholesterol acyltransferase domain-containing protein
EHL_151800	EAL52013 Ganglioside gm2 activator protein
EHL_178960	EAL50904 Acetyl-CoA synthetase
EHL_096710	EAL51565 Type A flavoprotein
EHL_098800	EAL47130 NAD-dependent epimerase/dehydratase family protein
Cytoskeletal proteins	
EHL_008780	EAL47592 Actin
EHL_104390	EAL49631 Actin binding protein
EHL_168340	EAL45540 Actin binding protein
	AF208390 Actinin-like protein
EHL_111050	EAL52203 Actin-like protein

EHI_045000	EAL51874	Actin-related protein 2/3 complex subunit 1A
EHI_198930	EAL42484	Actin-related protein 3
EHI_152660	EAL43181	ARP2/3 complex 20 kDa subunit
EHI_174910	EAL47955	ARP2/3 complex 21 kDa subunit
EHI_091250	EAL45183	ARP2/3 complex 34 kDa subunit
EHI_110180	EAL51645	Myosin heavy chain
EHI_005020	EAL47477	F-actin capping protein beta subunit
EHI_197480	EAL46302	Actophorin
EHI_140260	EAL51366	Copine
EHI_137110	EAL47201	Copine
EHI_103430	EAL47035	Cortaxillin II
EHI_104630	EAL51888	Filamin 2
EHI_167130	EAL49391	Filopodin
EHI_025450	EAL47570	LIM zinc finger domain containing protein
EHI_007640	EAL49416	alpha-actinin
EHI_107030	EAL45274	WASH complex subunit 7-like
Lectins and surface proteins		
EHI_077500	EAL50029	Galactose-specific adhesin 170kD subunit
EHI_042370	EDS88899	Galactose-specific adhesin 170kD subunit
EHI_049690	EDS89794	Galactose-specific adhesin 35kD subunit
EHI_181220	EAL47615	Adhesin 112 (EhADH112)
EHI_057670	EAL46708	20 kDa antigen
EHI_199000	EAL47897	Calponin homology domain protein
EHI_012330	EAL50843	Serine-threonine-isoleucine rich protein
EHI_025700	EAL43982	Serine-threonine-isoleucine rich protein
	EDS89625	Serine-threonine-isoleucine rich protein
EHI_073580	EAL48580	Leucine-rich repeat containing protein
EHI_177990	EAL46102	Leucine-rich repeat containing protein
Transporter proteins		
EHI_092600	EAL45296	Vacuolar ATP synthase subunit C
EHI_106350	EAL46129	Vacuolar ATP synthase subunit d
EHI_074020	EAL48176	Vacuolar proton ATPase subunit
EHI_118900	EAL48719	Vacuolar sorting protein VPS4
EHI_004640	EAL51407	Vesicle-fusing ATPase
EHI_189850	EAL50652	V-type ATPase
EHI_043010	EAL47239	V-type ATPase
EHI_054830	EAL45901	Putative plasma membrane calcium ion-transporting ATPase
EHI_168260	EAL45549	Phospholipid-transporting P-type ATPase
EHI_199020	EAL47899	High-affinity potassium uptake transporter
	AAU43735	Sec61 alpha subunit
EHI_156240	EAL47525	Competence protein ComEC
EHI_101230	EAL51212	P-glycoprotein 6
EHI_055400	EDS89128	NAD(P) transhydrogenase (AB-specific), alpha subunit
CPBFs		
EHI_087660	EAL47890	CPBF2
EHI_040440	EAL43975	CPBF7
kinase and phosphatase		
EHI_095940	EAL49497	Protein kinase
EHI_174100	EAL47106	Protein kinase
EHI_118810	EAL48728	Protein kinase domain containing protein
EHI_201080	EAL44647	Protein kinase domain containing protein
EHI_179330	EAL45606	Protein phosphatase family protein
EHI_049430	EAL50487	Protein tyrosine phosphatase
EHI_037140	EAL43605	Receptor protein kinase
EHI_098560	EAL50580	Hexokinase
EHI_186990	EAL51036	Tyrosine kinase
EHI_195050	EAL50563	Tyrosine kinase
EHI_061870	EAL43139	Protein serine/threonine kinase
chaperon		
EHI_136160	EAL49855	Calreticulin
EHI_052860	EAL45068	Heat shock protein 70
EHI_199590	EAL49351	70 kDa heat shock protein
EHI_163480	EAL44584	90 kDa heat shock protein
Translation		
EHI_056380	EAL45348	enhancer binding protein 2 (EBP2)
EHI_182670	EAL43716	enhancer binding protein-2
EHI_073600	EAL44974	40S ribosomal protein S15a
EHI_099790	EAL45900	60S ribosomal protein L38
EHI_068660	EAL49070	60S ribosomal protein L5
EHI_126140	EAL47076	60S ribosomal protein L9
EHI_102170	EAL42972	Elongation factor 1-alpha 1
EHI_189490	EAL45623	Elongation factor 2
EHI_060740	EAL42646	URE3-BP sequence specific DNA binding protein
EHI_118840	EAL48725	Fibrillarin
Signal transduction		
EHI_136150	EAL49854	Adenylyl cyclase-associated protein
	EDS89370	Adenylyl cyclase-associated protein
EHI_167290	EAL44972	Leucine rich repeat / protein phosphatase 2C domain containing protein
EHI_187770	EAL50633	SH3 domain protein
EHI_055350	EDS89126	SH3 domain protein
EHI_006810	EAL49075	14-3-3 protein 3
Cytokinesis		
EHI_118260	EAL50648	Diaphanous protein
	AF238235	Diaphanous protein
EHI_151250	EAL52042	Dedicator of cytokinesis domain containing protein, putative
EHI_170180	EAL50587	Dedicator of cytokinesis domain containing protein
Proteasome		
EHI_083410	EAL44777	Ubiquitin
Multi function		
EHI_044820	EAL51814	Calmodulin
EHI_016120	EAL51029	EF-hand calcium-binding domain containing protein
EHI_118620	EAL48747	HEAT repeat domain containing protein
EHI_168370	EAL45537	WD domain containing protein
EHI_187220	EAL51082	WD domain containing protein
EHI_142190	EAL50656	WD repeat protein
EHI_178560	EAL46658	Lipid-binding START domain
Unknown function protein		
EHI_098210	EAL48243	Lysine and glutamic acid-rich protein 1 (KERP1)
EHI_143820	EAL45040	Hypothetical protein, DUF848 superfamily protein
EHI_057700	EAL46705	Hypothetical protein, DUF1632 superfamily protein
EHI_148020	EAL52155	Protein FAM18B, putative
EHI_001100	EAL44491	Hypothetical protein
EHI_004370	EAL46867	Hypothetical protein
EHI_004880	EAL45315	Hypothetical protein
EHI_005960	EAL48032	Hypothetical protein
EHI_007000	EAL49058	Hypothetical protein
EHI_007010	EAL49057	Hypothetical protein
EHI_010340	EAL49414	Hypothetical protein
EHI_010510	EAL44683	Hypothetical protein
EHI_013240	EAL50928	Hypothetical protein

EHI_014400	EAL49699	Hypothetical protein
EHI_015420	EDS89560	Hypothetical protein
EHI_016410	EAL48132	Hypothetical protein
EHI_017000	EAL45851	Hypothetical protein
EHI_017560	EAL46860	Hypothetical protein
EHI_017690	EAL45400	Hypothetical protein
EHI_020350	EAL49200	Hypothetical protein
EHI_022890	EAL48097	Hypothetical protein
EHI_030410	EAL44431	Hypothetical protein
EHI_031950	EAL43613	Hypothetical protein
EHI_035510	EAL50740	Hypothetical protein
EHI_044360	EAL46996	Hypothetical protein
EHI_047620	EAL47863	Hypothetical protein
EHI_047630	EDS88796	Hypothetical protein
EHI_047800	EAL45215	Hypothetical protein
EHI_049350	EAL50479	Hypothetical protein
EHI_050800	EAL43167	Hypothetical protein
EHI_054480	EAL46698	Hypothetical protein
EHI_056400	EAL45346	Hypothetical protein
EHI_058920	EAL45867	Hypothetical protein
EHI_060440	EDS89309	Hypothetical protein
EHI_066300	EAL46861	Hypothetical protein
EHI_067090	EAL43464	Hypothetical protein
EHI_068480	EAL48772	Hypothetical protein
EHI_068510	EAL48775	Hypothetical protein
EHI_069270	EAL49915	Hypothetical protein
EHI_069510	EAL45499	Hypothetical protein
EHI_073160	EDS88858	Hypothetical protein
EHI_077530	EAL44160	Hypothetical protein
EHI_083100	EDS89284	Hypothetical protein
EHI_083110	EAL42697	Hypothetical protein
EHI_083140	EDS89285	Hypothetical protein
EHI_083600	EAL49028	Hypothetical protein
EHI_085720	EDS88984	Hypothetical protein
EHI_087740	EAL50553	Hypothetical protein
EHI_091090	EAL45178	Hypothetical protein
EHI_092680	EDS89778	Hypothetical protein
EHI_093970	EAL51170	Hypothetical protein
EHI_096410	EAL51539	Hypothetical protein
EHI_097870	EAL47848	Hypothetical protein
EHI_098000	EAL45671	Hypothetical protein
EHI_103860	EAL47964	Hypothetical protein
EHI_104450	EAL49625	Hypothetical protein
EHI_104740	EAL45200	Hypothetical protein
EHI_107090	EAL45280	Hypothetical protein
EHI_107300	EAL47395	Hypothetical protein
EHI_108730	EAL45958	Hypothetical protein
EHI_109990	EAL46810	Hypothetical protein
EHI_116720	EAL44046	Hypothetical protein
EHI_117690	EDS89335	Hypothetical protein
EHI_118070	EAL50665	Hypothetical protein
EHI_120590	EAL46589	Hypothetical protein
EHI_142960	EAL45091	Hypothetical protein
EHI_151280	EAL52048	Hypothetical protein
EHI_151580	EAL51958	Hypothetical protein
EHI_153160	EAL51014	Hypothetical protein
EHI_155310	EAL50374	Hypothetical protein
EHI_155560	EAL50400	Hypothetical protein
EHI_158120	EAL45423	Hypothetical protein
EHI_160980	EAL43848	Hypothetical protein
EHI_161040	EAL44222	Hypothetical protein
EHI_161070	EAL44220	Hypothetical protein
EHI_163600	EAL48332	Hypothetical protein
EHI_165770	EAL48913	Hypothetical protein
EHI_167660	EAL50171	Hypothetical protein
EHI_170000	EAL50606	Hypothetical protein
EHI_173440	EAL43749	Hypothetical protein
EHI_174140	EAL47110	Hypothetical protein
EHI_182570	EAL51316	Hypothetical protein
EHI_182770	EAL50093	Hypothetical protein
EHI_185450	EDS89215	Hypothetical protein
EHI_194490	EAL48303	Hypothetical protein
EHI_195140	EAL48457	Hypothetical protein