

**Table: Nuclear encoded genes potentially targeted to the apicoplast**

Gene identifier	Functional name	SP <sup>a</sup>	Pathway <sup>b</sup>	PlasmoAP <sup>c</sup>	ApicoAP <sup>d</sup>
BEWA_045000	farnesyl pyrophosphate synthetase, putative	-	+	-	-
BEWA_051900	4-hydroxybenzoate octaprenyltransferase	-	+	+	-
BEWA_053100	LytB protein	+	+	-	+
BEWA_053830	1-deoxy-D-xylulose 5-phosphate synthase family protein	-	+	-	+
BEWA_016520	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	+	+	-	+
BEWA_017980	1-deoxy-D-xylulose 5-phosphate reductoisomerase family protein	+	+	-	+
BEWA_024900	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase (gcpE protein)	+	+	-	+
BEWA_014460	2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase, putative	+	+	-	+
BEWA_021220	<i>tRNA pseudouridine synthase B, putative</i>	+	-	+	+
BEWA_017600	conserved hypothetical protein	-	-	+	-
BEWA_033110	MAC/perforin domain containing protein	+	-	+	-
BEWA_006100	tyrosyl-tRNA synthetase, putative	-	-	+	-
BEWA_034310	50S ribosomal protein L33	-	-	+	+
BEWA_001330	tRNA modification GTPase TrmE , putative	+	-	-	+
BEWA_020470	apurinic endonuclease (APN1) family protein	-	-	+	-
BEWA_033610	S-adenosyl methyltransferase, putative	+	-	-	+
BEWA_051550	Der1-like family, putative	+	-	-	+
BEWA_047980	methionyl-tRNA synthetase, putative	-	-	+	-
BEWA_045740	signal peptide containing protein	+	-	+	-
BEWA_046200	signal peptide containing protein	+	-	+	-
BEWA_046980	signal peptide containing protein	+	-	+	-
BEWA_048900	signal peptide containing protein	+	-	+	-
BEWA_052050	conserved hypothetical protein	+	-	+	+
BEWA_000400	hypothetical protein	+	-	+	-
BEWA_001070	hypothetical protein	+	-	+	-
BEWA_001870	signal peptide containing protein	+	-	+	-
BEWA_003060	signal peptide containing protein	+	-	+	-
BEWA_005200	elongation factor ts, putative	+	-	+	+
BEWA_006040	conserved hypothetical protein	+	-	+	-
BEWA_007250	hypothetical protein	+	-	+	+
BEWA_009480	DnaJ domain containing protein	+	-	+	-
BEWA_010380	conserved hypothetical protein	+	-	+	+
BEWA_011990	signal peptide containing protein	+	-	+	+
BEWA_014290	conserved hypothetical protein	+	-	+	+
BEWA_014980	conserved hypothetical protein	+	-	+	+
BEWA_015950	hypothetical protein	+	-	+	+
BEWA_016540	cathepsin E, putative	+	-	+	-
BEWA_016810	signal peptide containing protein	+	-	+	+
BEWA_018700	ubiquitin family member protein	+	-	+	+

BEWA_020210	GroES chaperonin family member protein	+	-	+	+
BEWA_020440	ubiquitinactivating enzyme E1, putative	+	-	+	+
BEWA_020490	conserved hypothetical protein	+	-	+	-
BEWA_021270	conserved hypothetical protein	+	-	+	+
BEWA_023800	membrane protein, putative	+	-	+	+
BEWA_024510	50S ribosomal protein L17e, putative	+	-	+	+
BEWA_028400	signal peptide containing protein	+	-	+	-
BEWA_028650	hypothetical protein	+	-	+	+
BEWA_030550	ribosomal protein L35 family member protein	+	-	+	+
BEWA_030690	signal peptide containing protein	+	-	+	-
BEWA_031340	signal peptide containing protein	+	-	+	-
BEWA_031440	hypothetical protein	+	-	+	-
BEWA_031930	signal peptide containing protein	+	-	+	-
BEWA_032530	40S ribosomal protein S11, putative	+	-	+	+
BEWA_033440	signal peptide containing protein	+	-	+	+
BEWA_033570	conserved hypothetical protein	+	-	+	+
BEWA_034480	tRNA dihydrouridine synthase, putative	+	-	+	+
BEWA_034580	signal peptide containing protein	+	-	+	+
BEWA_038170	signal peptide containing protein	+	-	+	+
BEWA_038950	hypothetical protein	+	-	+	-
BEWA_040440	signal peptide containing protein	+	-	+	+
BEWA_041450	ABC transporter, ATPbinding protein domain containing protein	+	-	+	-
BEWA_042770	methioninetRNA synthetase, putative	+	-	+	+
BEWA_043320	signal peptide containing protein	+	-	+	+
BEWA_024880	1-acyl-sn-glycerol-3-phosphate acyltransferase, putative	+	-	-	+
BEWA_011110	30S ribosomal protein S10, putative	+	-	-	+
BEWA_017280	50S ribosomal protein L15, putative	+	-	-	+
BEWA_017270	50S ribosomal protein L17, putative	+	-	-	+
BEWA_043470	50S ribosomal protein L1p, putative	+	-	-	+
BEWA_011860	50S ribosomal protein L3, putative	+	-	-	+
BEWA_023010	5'-3' exonuclease, putative	+	-	-	+
BEWA_031270	60S ribosomal protein L10, putative	+	-	-	+
BEWA_024760	60S ribosomal protein L28, putative	+	-	-	+
BEWA_026070	ABC transporter, ATP-binding protein family member protein	+	-	-	+
BEWA_017820	actin, putative	+	-	-	+
BEWA_007700	ADP-ribosylation factor family member protein	+	-	-	+
BEWA_029100	aspartate carbamoyltransferase, putative	+	-	-	+
BEWA_010630	ATP-dependent Clp protease ATP-binding subunit, putative	+	-	-	+
BEWA_042560	ATP-dependent Clp protease proteolytic subunit, putative	+	-	-	+
BEWA_014020	BT1 folate/biopterin transporter family protein	+	-	-	+
BEWA_012280	cell division cycle protein 48, putative	+	-	-	+

BEWA_020900	chaperone protein DnaJ, putative	+	-	-	+
BEWA_050490	chaperonin 60 kDa, putative	+	-	-	+
BEWA_047350	conserved hypothetical protein	+	-	-	+
BEWA_047410	conserved hypothetical protein	+	-	-	+
BEWA_048580	conserved hypothetical protein	+	-	-	+
BEWA_048970	conserved hypothetical protein	+	-	-	+
BEWA_049030	conserved hypothetical protein	+	-	-	+
BEWA_050370	conserved hypothetical protein	+	-	-	+
BEWA_051110	conserved hypothetical protein	+	-	-	+
BEWA_051580	conserved hypothetical protein	+	-	-	+
BEWA_051950	conserved hypothetical protein	+	-	-	+
BEWA_052240	conserved hypothetical protein	+	-	-	+
BEWA_053110	conserved hypothetical protein	+	-	-	+
BEWA_053270	conserved hypothetical protein	+	-	-	+
BEWA_053420	conserved hypothetical protein	+	-	-	+
BEWA_054200	conserved hypothetical protein	+	-	-	+
BEWA_054640	conserved hypothetical protein	+	-	-	+
BEWA_001080	conserved hypothetical protein	+	-	-	+
BEWA_004280	conserved hypothetical protein	+	-	-	+
BEWA_004550	conserved hypothetical protein	+	-	-	+
BEWA_005390	conserved hypothetical protein	+	-	-	+
BEWA_005470	conserved hypothetical protein	+	-	-	+
BEWA_005690	conserved hypothetical protein	+	-	-	+
BEWA_006630	conserved hypothetical protein	+	-	-	+
BEWA_006760	conserved hypothetical protein	+	-	-	+
BEWA_007380	conserved hypothetical protein	+	-	-	+
BEWA_007450	conserved hypothetical protein	+	-	-	+
BEWA_007970	conserved hypothetical protein	+	-	-	+
BEWA_008040	conserved hypothetical protein	+	-	-	+
BEWA_008120	conserved hypothetical protein	+	-	-	+
BEWA_009860	conserved hypothetical protein	+	-	-	+
BEWA_010320	conserved hypothetical protein	+	-	-	+
BEWA_012210	conserved hypothetical protein	+	-	-	+
BEWA_012720	conserved hypothetical protein	+	-	-	+
BEWA_012960	conserved hypothetical protein	+	-	-	+
BEWA_014720	conserved hypothetical protein	+	-	-	+
BEWA_014840	conserved hypothetical protein	+	-	-	+
BEWA_015080	conserved hypothetical protein	+	-	-	+
BEWA_015120	conserved hypothetical protein	+	-	-	+
BEWA_015330	conserved hypothetical protein	+	-	-	+
BEWA_015350	conserved hypothetical protein	+	-	-	+

BEWA_016040	conserved hypothetical protein	+	-	-	+
BEWA_016530	conserved hypothetical protein	+	-	-	+
BEWA_017230	conserved hypothetical protein	+	-	-	+
BEWA_019400	conserved hypothetical protein	+	-	-	+
BEWA_019720	conserved hypothetical protein	+	-	-	+
BEWA_019760	conserved hypothetical protein	+	-	-	+
BEWA_019770	conserved hypothetical protein	+	-	-	+
BEWA_020110	conserved hypothetical protein	+	-	-	+
BEWA_020130	conserved hypothetical protein	+	-	-	+
BEWA_020400	conserved hypothetical protein	+	-	-	+
BEWA_022270	conserved hypothetical protein	+	-	-	+
BEWA_022440	conserved hypothetical protein	+	-	-	+
BEWA_023520	conserved hypothetical protein	+	-	-	+
BEWA_023850	conserved hypothetical protein	+	-	-	+
BEWA_024070	conserved hypothetical protein	+	-	-	+
BEWA_024360	conserved hypothetical protein	+	-	-	+
BEWA_024580	conserved hypothetical protein	+	-	-	+
BEWA_024630	conserved hypothetical protein	+	-	-	+
BEWA_024820	conserved hypothetical protein	+	-	-	+
BEWA_024830	conserved hypothetical protein	+	-	-	+
BEWA_024840	conserved hypothetical protein	+	-	-	+
BEWA_025000	conserved hypothetical protein	+	-	-	+
BEWA_025940	conserved hypothetical protein	+	-	-	+
BEWA_027610	conserved hypothetical protein	+	-	-	+
BEWA_028810	conserved hypothetical protein	+	-	-	+
BEWA_028970	conserved hypothetical protein	+	-	-	+
BEWA_030310	conserved hypothetical protein	+	-	-	+
BEWA_030930	conserved hypothetical protein	+	-	-	+
BEWA_031970	conserved hypothetical protein	+	-	-	+
BEWA_032010	conserved hypothetical protein	+	-	-	+
BEWA_032430	conserved hypothetical protein	+	-	-	+
BEWA_032650	conserved hypothetical protein	+	-	-	+
BEWA_032970	conserved hypothetical protein	+	-	-	+
BEWA_033340	conserved hypothetical protein	+	-	-	+
BEWA_033780	conserved hypothetical protein	+	-	-	+
BEWA_034240	conserved hypothetical protein	+	-	-	+
BEWA_034270	conserved hypothetical protein	+	-	-	+
BEWA_034610	conserved hypothetical protein	+	-	-	+
BEWA_035080	conserved hypothetical protein	+	-	-	+
BEWA_035950	conserved hypothetical protein	+	-	-	+
BEWA_036090	conserved hypothetical protein	+	-	-	+

BEWA_036720	conserved hypothetical protein	+	-	-	+
BEWA_036740	conserved hypothetical protein	+	-	-	+
BEWA_037940	conserved hypothetical protein	+	-	-	+
BEWA_038180	conserved hypothetical protein	+	-	-	+
BEWA_039070	conserved hypothetical protein	+	-	-	+
BEWA_039500	conserved hypothetical protein	+	-	-	+
BEWA_039620	conserved hypothetical protein	+	-	-	+
BEWA_039890	conserved hypothetical protein	+	-	-	+
BEWA_040170	conserved hypothetical protein	+	-	-	+
BEWA_041300	conserved hypothetical protein	+	-	-	+
BEWA_042150	conserved hypothetical protein	+	-	-	+
BEWA_042370	conserved hypothetical protein	+	-	-	+
BEWA_042380	conserved hypothetical protein	+	-	-	+
BEWA_043230	conserved hypothetical protein	+	-	-	+
BEWA_045020	conserved hypothetical protein	+	-	-	+
BEWA_045290	conserved hypothetical protein	+	-	-	+
BEWA_032100	cyclophilin 1, putative	+	-	-	+
BEWA_043760	cysteine desulfurase, putative	+	-	-	+
BEWA_036120	cysteinyl-tRNA synthetase, putative	+	-	-	+
BEWA_051670	DEAD box ATP-dependent RNA helicase family member protein	+	-	-	+
BEWA_032820	DEAD box ATP-dependent RNA helicase family member protein	+	-	-	+
BEWA_039080	dephospho-CoA kinase, putative	+	-	-	+
BEWA_026820	DNA gyrase subunit A, putative	+	-	-	+
BEWA_043420	DNA gyrase subunit B, putative	+	-	-	+
BEWA_050400	DNA polymerase family B member protein	+	-	-	+
BEWA_028330	DNA replication licensing factor MCM3, putative	+	-	-	+
BEWA_050230	DNA-directed RNA polymerase, alpha subunit, N terminal domain containing protein	+	-	-	+
BEWA_033490	DNA-directed RNA polymerase, subunit alpha, putative	+	-	-	+
BEWA_019850	DnaJ domain containing protein	+	-	-	+
BEWA_029080	DnaK family member protein	+	-	-	+
BEWA_007810	DNA-repair protein xp-G, putative	+	-	-	+
BEWA_042590	Elongation factor Tu GTP binding domain containing protein	+	-	-	+
BEWA_010820	er lumen protein retaining receptor, putative	+	-	-	+
BEWA_009220	eukaryotic protein of unknown function DUF862 domain containing protein	+	-	-	+
BEWA_000920	ferredoxin, putative	+	-	-	+
BEWA_053120	ferredoxin reductase-like protein, putative	+	-	-	+
BEWA_011100	glycoprotein endopeptidase, putative	+	-	-	+
BEWA_003890	Got1-like family member protein	+	-	-	+
BEWA_001130	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+
BEWA_012170	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+
BEWA_016590	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+

BEWA_025780	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+
BEWA_035330	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+
BEWA_039640	haloacid dehalogenase-like hydrolase family member protein	+	-	-	+
BEWA_048520	hexose transporter, putative	+	-	-	+
BEWA_021740	histidyl-tRNA synthetase, putative	+	-	-	+
BEWA_046130	hypothetical protein	+	-	-	+
BEWA_046140	hypothetical protein	+	-	-	+
BEWA_047130	hypothetical protein	+	-	-	+
BEWA_047640	hypothetical protein	+	-	-	+
BEWA_047930	hypothetical protein	+	-	-	+
BEWA_048040	hypothetical protein	+	-	-	+
BEWA_048260	hypothetical protein	+	-	-	+
BEWA_048400	hypothetical protein	+	-	-	+
BEWA_049200	hypothetical protein	+	-	-	+
BEWA_049280	hypothetical protein	+	-	-	+
BEWA_049970	hypothetical protein	+	-	-	+
BEWA_050000	hypothetical protein	+	-	-	+
BEWA_050250	hypothetical protein	+	-	-	+
BEWA_051120	hypothetical protein	+	-	-	+
BEWA_051800	hypothetical protein	+	-	-	+
BEWA_052720	hypothetical protein	+	-	-	+
BEWA_053760	hypothetical protein	+	-	-	+
BEWA_054180	hypothetical protein	+	-	-	+
BEWA_054380	hypothetical protein	+	-	-	+
BEWA_054760	hypothetical protein	+	-	-	+
BEWA_054920	hypothetical protein	+	-	-	+
BEWA_000540	hypothetical protein	+	-	-	+
BEWA_000660	hypothetical protein	+	-	-	+
BEWA_000710	hypothetical protein	+	-	-	+
BEWA_001020	hypothetical protein	+	-	-	+
BEWA_001450	hypothetical protein	+	-	-	+
BEWA_001550	hypothetical protein	+	-	-	+
BEWA_002070	hypothetical protein	+	-	-	+
BEWA_002850	hypothetical protein	+	-	-	+
BEWA_003450	hypothetical protein	+	-	-	+
BEWA_003530	hypothetical protein	+	-	-	+
BEWA_004220	hypothetical protein	+	-	-	+
BEWA_004410	hypothetical protein	+	-	-	+
BEWA_007150	hypothetical protein	+	-	-	+
BEWA_007310	hypothetical protein	+	-	-	+
BEWA_009180	hypothetical protein	+	-	-	+

BEWA_009270	hypothetical protein	+	-	-	+
BEWA_011510	hypothetical protein	+	-	-	+
BEWA_013390	hypothetical protein	+	-	-	+
BEWA_013770	hypothetical protein	+	-	-	+
BEWA_013890	hypothetical protein	+	-	-	+
BEWA_014550	hypothetical protein	+	-	-	+
BEWA_014670	hypothetical protein	+	-	-	+
BEWA_014950	hypothetical protein	+	-	-	+
BEWA_015920	hypothetical protein	+	-	-	+
BEWA_016570	hypothetical protein	+	-	-	+
BEWA_016930	hypothetical protein	+	-	-	+
BEWA_017110	hypothetical protein	+	-	-	+
BEWA_017960	hypothetical protein	+	-	-	+
BEWA_019640	hypothetical protein	+	-	-	+
BEWA_020980	hypothetical protein	+	-	-	+
BEWA_022750	hypothetical protein	+	-	-	+
BEWA_023030	hypothetical protein	+	-	-	+
BEWA_023470	hypothetical protein	+	-	-	+
BEWA_025650	hypothetical protein	+	-	-	+
BEWA_026060	hypothetical protein	+	-	-	+
BEWA_026390	hypothetical protein	+	-	-	+
BEWA_026630	hypothetical protein	+	-	-	+
BEWA_028310	hypothetical protein	+	-	-	+
BEWA_028490	hypothetical protein	+	-	-	+
BEWA_029570	hypothetical protein	+	-	-	+
BEWA_029710	hypothetical protein	+	-	-	+
BEWA_030170	hypothetical protein	+	-	-	+
BEWA_030230	hypothetical protein	+	-	-	+
BEWA_032670	hypothetical protein	+	-	-	+
BEWA_032830	hypothetical protein	+	-	-	+
BEWA_032900	hypothetical protein	+	-	-	+
BEWA_033300	hypothetical protein	+	-	-	+
BEWA_033270	hypothetical protein	+	-	-	+
BEWA_035200	hypothetical protein	+	-	-	+
BEWA_035260	hypothetical protein	+	-	-	+
BEWA_035480	hypothetical protein	+	-	-	+
BEWA_035590	hypothetical protein	+	-	-	+
BEWA_035640	hypothetical protein	+	-	-	+
BEWA_035660	hypothetical protein	+	-	-	+
BEWA_036500	hypothetical protein	+	-	-	+
BEWA_036530	hypothetical protein	+	-	-	+

BEWA_036950	hypothetical protein	+	-	-	+
BEWA_037130	hypothetical protein	+	-	-	+
BEWA_037270	hypothetical protein	+	-	-	+
BEWA_038740	hypothetical protein	+	-	-	+
BEWA_040750	hypothetical protein	+	-	-	+
BEWA_040820	hypothetical protein	+	-	-	+
BEWA_042660	hypothetical protein	+	-	-	+
BEWA_043110	hypothetical protein	+	-	-	+
BEWA_043330	hypothetical protein	+	-	-	+
BEWA_045600	hypothetical protein	+	-	-	+
BEWA_045950	hypothetical protein	+	-	-	+
BEWA_034150	kelch domain containing protein	+	-	-	+
BEWA_013850	leucyl-tRNA synthetase, putative	+	-	-	+
BEWA_051840	MAC/Perforin domain containing protein	+	-	-	+
BEWA_051910	MAC/Perforin domain containing protein	+	-	-	+
BEWA_018870	MAC/Perforin domain containing protein	+	-	-	+
BEWA_046430	membrane protein, putative	+	-	-	+
BEWA_052620	membrane protein, putative	+	-	-	+
BEWA_000210	membrane protein, putative	+	-	-	+
BEWA_024770	membrane protein, putative	+	-	-	+
BEWA_027080	membrane protein, putative	+	-	-	+
BEWA_031350	membrane protein, putative	+	-	-	+
BEWA_037120	membrane protein, putative	+	-	-	+
BEWA_041210	membrane protein, putative	+	-	-	+
BEWA_000030	membrane protein, putative	+	-	-	+
BEWA_012880	methionine aminopeptidase, putative	+	-	-	+
BEWA_042890	oxidoreductase NAD-binding domain containing protein	+	-	-	+
BEWA_051360	oxidoreductase, aldo/keto reductase family member protein	+	-	-	+
BEWA_030140	peptide chain release factor 1, putative	+	-	-	+
BEWA_022530	phosphate transporter, putative	+	-	-	+
BEWA_000950	phosphatidate cytidyltransferase, putative	+	-	-	+
BEWA_040010	phosphatidylinositol 4-kinase family protein	+	-	-	+
BEWA_014000	prohibitin, putative	+	-	-	+
BEWA_017540	prolyl-tRNA synthetase, putative	+	-	-	+
BEWA_009910	protein of unknown function DUF1620 domain containing protein	+	-	-	+
BEWA_018620	pyruvate kinase, putative	+	-	-	+
BEWA_037600	rhoptry-associated protein, putative	+	-	-	+
BEWA_050140	ribosomal protein L21 family member protein	+	-	-	+
BEWA_006670	ribosomal protein S15 domain containing protein	+	-	-	+
BEWA_020710	ribosomal protein S9 family member protein	+	-	-	+
BEWA_007260	RNA modification enzyme, MiaB family domain containing protein	+	-	-	+



BEWA_030580	serine hydroxymethyltransferase, putative	+	-	-	+
BEWA_033130	seryl-tRNA synthetase, putative	+	-	-	+
BEWA_041640	signal peptidase I family member protein	+	-	-	+
BEWA_046070	signal peptide containing protein	+	-	-	+
BEWA_046370	signal peptide containing protein	+	-	-	+
BEWA_046470	signal peptide containing protein	+	-	-	+
BEWA_046490	signal peptide containing protein	+	-	-	+
BEWA_046690	signal peptide containing protein	+	-	-	+
BEWA_046730	signal peptide containing protein	+	-	-	+
BEWA_046860	signal peptide containing protein	+	-	-	+
BEWA_046940	signal peptide containing protein	+	-	-	+
BEWA_047000	signal peptide containing protein	+	-	-	+
BEWA_047090	signal peptide containing protein	+	-	-	+
BEWA_047340	signal peptide containing protein	+	-	-	+
BEWA_047400	signal peptide containing protein	+	-	-	+
BEWA_047530	signal peptide containing protein	+	-	-	+
BEWA_047790	signal peptide containing protein	+	-	-	+
BEWA_047810	signal peptide containing protein	+	-	-	+
BEWA_047830	signal peptide containing protein	+	-	-	+
BEWA_047950	signal peptide containing protein	+	-	-	+
BEWA_048420	signal peptide containing protein	+	-	-	+
BEWA_048540	signal peptide containing protein	+	-	-	+
BEWA_048620	signal peptide containing protein	+	-	-	+
BEWA_048800	signal peptide containing protein	+	-	-	+
BEWA_048840	signal peptide containing protein	+	-	-	+
BEWA_049130	signal peptide containing protein	+	-	-	+
BEWA_049310	signal peptide containing protein	+	-	-	+
BEWA_049470	signal peptide containing protein	+	-	-	+
BEWA_049550	signal peptide containing protein	+	-	-	+
BEWA_049640	signal peptide containing protein	+	-	-	+
BEWA_049890	signal peptide containing protein	+	-	-	+
BEWA_050300	signal peptide containing protein	+	-	-	+
BEWA_050550	signal peptide containing protein	+	-	-	+
BEWA_050700	signal peptide containing protein	+	-	-	+
BEWA_051340	signal peptide containing protein	+	-	-	+
BEWA_051890	signal peptide containing protein	+	-	-	+
BEWA_052230	signal peptide containing protein	+	-	-	+
BEWA_052330	signal peptide containing protein	+	-	-	+
BEWA_053680	signal peptide containing protein	+	-	-	+
BEWA_053880	signal peptide containing protein	+	-	-	+
BEWA_053930	signal peptide containing protein	+	-	-	+

BEWA_053940	signal peptide containing protein	+	-	-	+
BEWA_053980	signal peptide containing protein	+	-	-	+
BEWA_054220	signal peptide containing protein	+	-	-	+
BEWA_054590	signal peptide containing protein	+	-	-	+
BEWA_000280	signal peptide containing protein	+	-	-	+
BEWA_000340	signal peptide containing protein	+	-	-	+
BEWA_000500	signal peptide containing protein	+	-	-	+
BEWA_000510	signal peptide containing protein	+	-	-	+
BEWA_000670	signal peptide containing protein	+	-	-	+
BEWA_000800	signal peptide containing protein	+	-	-	+
BEWA_000810	signal peptide containing protein	+	-	-	+
BEWA_000850	signal peptide containing protein	+	-	-	+
BEWA_000900	signal peptide containing protein	+	-	-	+
BEWA_000910	signal peptide containing protein	+	-	-	+
BEWA_001010	signal peptide containing protein	+	-	-	+
BEWA_001670	signal peptide containing protein	+	-	-	+
BEWA_001890	signal peptide containing protein	+	-	-	+
BEWA_001950	signal peptide containing protein	+	-	-	+
BEWA_002120	signal peptide containing protein	+	-	-	+
BEWA_002390	signal peptide containing protein	+	-	-	+
BEWA_002570	signal peptide containing protein	+	-	-	+
BEWA_002770	signal peptide containing protein	+	-	-	+
BEWA_002940	signal peptide containing protein	+	-	-	+
BEWA_003120	signal peptide containing protein	+	-	-	+
BEWA_003440	signal peptide containing protein	+	-	-	+
BEWA_003540	signal peptide containing protein	+	-	-	+
BEWA_003650	signal peptide containing protein	+	-	-	+
BEWA_003760	signal peptide containing protein	+	-	-	+
BEWA_003830	signal peptide containing protein	+	-	-	+
BEWA_003900	signal peptide containing protein	+	-	-	+
BEWA_004140	signal peptide containing protein	+	-	-	+
BEWA_004210	signal peptide containing protein	+	-	-	+
BEWA_004480	signal peptide containing protein	+	-	-	+
BEWA_005720	signal peptide containing protein	+	-	-	+
BEWA_006750	signal peptide containing protein	+	-	-	+
BEWA_007290	signal peptide containing protein	+	-	-	+
BEWA_007300	signal peptide containing protein	+	-	-	+
BEWA_008870	signal peptide containing protein	+	-	-	+
BEWA_009040	signal peptide containing protein	+	-	-	+
BEWA_012250	signal peptide containing protein	+	-	-	+
BEWA_012590	signal peptide containing protein	+	-	-	+

BEWA_012810	signal peptide containing protein	+	-	-	+
BEWA_012860	signal peptide containing protein	+	-	-	+
BEWA_012900	signal peptide containing protein	+	-	-	+
BEWA_013050	signal peptide containing protein	+	-	-	+
BEWA_013410	signal peptide containing protein	+	-	-	+
BEWA_013460	signal peptide containing protein	+	-	-	+
BEWA_013910	signal peptide containing protein	+	-	-	+
BEWA_015040	signal peptide containing protein	+	-	-	+
BEWA_015770	signal peptide containing protein	+	-	-	+
BEWA_015820	signal peptide containing protein	+	-	-	+
BEWA_015860	signal peptide containing protein	+	-	-	+
BEWA_016310	signal peptide containing protein	+	-	-	+
BEWA_016480	signal peptide containing protein	+	-	-	+
BEWA_017060	signal peptide containing protein	+	-	-	+
BEWA_017170	signal peptide containing protein	+	-	-	+
BEWA_017180	signal peptide containing protein	+	-	-	+
BEWA_017330	signal peptide containing protein	+	-	-	+
BEWA_019310	signal peptide containing protein	+	-	-	+
BEWA_020850	signal peptide containing protein	+	-	-	+
BEWA_022100	signal peptide containing protein	+	-	-	+
BEWA_022160	signal peptide containing protein	+	-	-	+
BEWA_023080	signal peptide containing protein	+	-	-	+
BEWA_023600	signal peptide containing protein	+	-	-	+
BEWA_023750	signal peptide containing protein	+	-	-	+
BEWA_024350	signal peptide containing protein	+	-	-	+
BEWA_025140	signal peptide containing protein	+	-	-	+
BEWA_025340	signal peptide containing protein	+	-	-	+
BEWA_025540	signal peptide containing protein	+	-	-	+
BEWA_025600	signal peptide containing protein	+	-	-	+
BEWA_025700	signal peptide containing protein	+	-	-	+
BEWA_025770	signal peptide containing protein	+	-	-	+
BEWA_025840	signal peptide containing protein	+	-	-	+
BEWA_025900	signal peptide containing protein	+	-	-	+
BEWA_026410	signal peptide containing protein	+	-	-	+
BEWA_027420	signal peptide containing protein	+	-	-	+
BEWA_027440	signal peptide containing protein	+	-	-	+
BEWA_027480	signal peptide containing protein	+	-	-	+
BEWA_027540	signal peptide containing protein	+	-	-	+
BEWA_027900	signal peptide containing protein	+	-	-	+
BEWA_028050	signal peptide containing protein	+	-	-	+
BEWA_028140	signal peptide containing protein	+	-	-	+

BEWA_028220	signal peptide containing protein	+	-	-	+
BEWA_028250	signal peptide containing protein	+	-	-	+
BEWA_028260	signal peptide containing protein	+	-	-	+
BEWA_028630	signal peptide containing protein	+	-	-	+
BEWA_028780	signal peptide containing protein	+	-	-	+
BEWA_029050	signal peptide containing protein	+	-	-	+
BEWA_029330	signal peptide containing protein	+	-	-	+
BEWA_029340	signal peptide containing protein	+	-	-	+
BEWA_029380	signal peptide containing protein	+	-	-	+
BEWA_029430	signal peptide containing protein	+	-	-	+
BEWA_029460	signal peptide containing protein	+	-	-	+
BEWA_029510	signal peptide containing protein	+	-	-	+
BEWA_029630	signal peptide containing protein	+	-	-	+
BEWA_029960	signal peptide containing protein	+	-	-	+
BEWA_030020	signal peptide containing protein	+	-	-	+
BEWA_030190	signal peptide containing protein	+	-	-	+
BEWA_031110	signal peptide containing protein	+	-	-	+
BEWA_031310	signal peptide containing protein	+	-	-	+
BEWA_031700	signal peptide containing protein	+	-	-	+
BEWA_031770	signal peptide containing protein	+	-	-	+
BEWA_032220	signal peptide containing protein	+	-	-	+
BEWA_032290	signal peptide containing protein	+	-	-	+
BEWA_034030	signal peptide containing protein	+	-	-	+
BEWA_034140	signal peptide containing protein	+	-	-	+
BEWA_034520	signal peptide containing protein	+	-	-	+
BEWA_035300	signal peptide containing protein	+	-	-	+
BEWA_035650	signal peptide containing protein	+	-	-	+
BEWA_035670	signal peptide containing protein	+	-	-	+
BEWA_035710	signal peptide containing protein	+	-	-	+
BEWA_035840	signal peptide containing protein	+	-	-	+
BEWA_035860	signal peptide containing protein	+	-	-	+
BEWA_035870	signal peptide containing protein	+	-	-	+
BEWA_035970	signal peptide containing protein	+	-	-	+
BEWA_036210	signal peptide containing protein	+	-	-	+
BEWA_036380	signal peptide containing protein	+	-	-	+
BEWA_036520	signal peptide containing protein	+	-	-	+
BEWA_036840	signal peptide containing protein	+	-	-	+
BEWA_037460	signal peptide containing protein	+	-	-	+
BEWA_037470	signal peptide containing protein	+	-	-	+
BEWA_038380	signal peptide containing protein	+	-	-	+
BEWA_038570	signal peptide containing protein	+	-	-	+

BEWA_039180	signal peptide containing protein	+	-	-	+
BEWA_039270	signal peptide containing protein	+	-	-	+
BEWA_039440	signal peptide containing protein	+	-	-	+
BEWA_039790	signal peptide containing protein	+	-	-	+
BEWA_040050	signal peptide containing protein	+	-	-	+
BEWA_040090	signal peptide containing protein	+	-	-	+
BEWA_041360	signal peptide containing protein	+	-	-	+
BEWA_041380	signal peptide containing protein	+	-	-	+
BEWA_041710	signal peptide containing protein	+	-	-	+
BEWA_041870	signal peptide containing protein	+	-	-	+
BEWA_044370	signal peptide containing protein	+	-	-	+
BEWA_044530	signal peptide containing protein	+	-	-	+
BEWA_000040	signal peptide containing protein	+	-	-	+
BEWA_045420	signal peptide containing protein	+	-	-	+
BEWA_045700	signal peptide containing protein	+	-	-	+
BEWA_020540	tRNA 5-methylaminomethyl-2-thiouridylate-methyltransferase, putative	+	-	-	+
BEWA_005420	tRNA-pseudouridine synthase I, putative	+	-	-	+
BEWA_038330	tyrosyl-tRNA synthetase, putative	+	-	-	+
BEWA_054010	zinc finger protein DHHC domain containing protein	+	-	-	+
BEWA_026980	zinc finger protein DHHC domain containing protein	+	-	-	+

- <sup>a</sup> Has a signal peptide as predicted by SignalP, Philius or Phobius.  
<sup>b</sup> Belongs to a pathway predicted to be in the apicoplast  
<sup>c</sup> Contains an apicoplast targeting domain as predicted by PlasmAP  
<sup>d</sup> Contains an apicoplast targeting domain as predicted by ApicoAP