

**Gene ID**

PBANKA\_0403200 circumsporozoite (CS) protein  
PBANKA\_0910900 sporozoite surface protein essential for liver stage development  
PBANKA\_0921100 tRNA (guanine-N(7)-)-methyltransferase putative  
PBANKA\_1128100 phospholipase  
PBANKA\_1312700 gamete egress and sporozoite traversal protein  
PBANKA\_1349800 thrombospondin-related anonymous protein  
PBANKA\_1355600 sporozoite protein essential for cell traversal  
PBANKA\_1356300 CDT1-like protein putative  
PBANKA\_1411000 conserved Plasmodium protein unknown function  
PBANKA\_1456900 translation initiation factor SUI1 putative  
PBANKA\_0930800 conserved Plasmodium protein unknown function  
PBANKA\_1328000 serine/threonine protein phosphatase UIS2  
PBANKA\_0211300 cysteine desulfurase putative  
PBANKA\_1349700 conserved Plasmodium protein unknown function  
PBANKA\_1022500 surface protein P113  
PBANKA\_1400800 protein UIS3  
PBANKA\_1037400 conserved Plasmodium protein unknown function  
PBANKA\_0303000 conserved Plasmodium protein unknown function  
PBANKA\_1002100 6-cysteine protein P36  
PBANKA\_0712100 DNA helicase putative  
PBANKA\_0719200 mRNA-binding protein PUF2  
PBANKA\_1425200 sporozoite surface protein 3 putative  
PBANKA\_0813000 inhibitor of cysteine proteases  
PBANKA\_1104700 trafficking protein particle complex subunit 8 putative  
PBANKA\_0817300 conserved Plasmodium protein unknown function  
PBANKA\_1230600 conserved oligomeric Golgi complex subunit 4 putative  
PBANKA\_1141700 ubiquitin-60S ribosomal protein L40 putative  
PBANKA\_1233400 WD repeat-containing protein 26 putative  
PBANKA\_0209500 ATP-dependent RNA helicase putative  
PBANKA\_1224000 conserved Plasmodium protein unknown function  
PBANKA\_0815100 conserved Plasmodium protein unknown function  
PBANKA\_0211000 mitochondrial import inner membrane translocase subunit TIM50 putative  
PBANKA\_1424200 conserved protein unknown function  
PBANKA\_1435900 conserved Plasmodium protein unknown function  
PBANKA\_1427800 peptidase family C50 putative  
PBANKA\_1420900 palmitoyltransferase DHHC4 putative  
PBANKA\_1203000 conserved protein unknown function  
PBANKA\_1454900 conserved Plasmodium protein unknown function  
PBANKA\_1449500 conserved Plasmodium protein unknown function  
PBANKA\_0811600 selenide water dikinase putative  
PBANKA\_1226700 AAA family ATPase putative  
PBANKA\_0942900 phenylalanine--tRNA ligase beta subunit putative  
PBANKA\_0802300 E3 ubiquitin-protein ligase putative  
PBANKA\_1017500 lipase putative

PBANKA\_1202600 E3 ubiquitin-protein ligase putative  
PBANKA\_0111400 conserved Plasmodium protein unknown function  
PBANKA\_0501800 myosin essential light chain ELC putative  
PBANKA\_1402600 DNA ligase I putative  
PBANKA\_0711800 conserved Plasmodium protein unknown function  
PBANKA\_1116000 TRAP-like protein  
PBANKA\_1243100 F-actin-capping protein subunit alpha  
PBANKA\_0213200 conserved Plasmodium protein unknown function  
PBANKA\_1414200 tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRM61 putative  
PBANKA\_1008700 conserved Plasmodium protein unknown function  
PBANKA\_0716600 acylated pleckstrin-homology domain-containing protein putative  
PBANKA\_0911500 apical exonemal protein putative  
PBANKA\_1357600 conserved Plasmodium protein unknown function  
PBANKA\_0603800 O-phosphoserine-tRNA(Sec) selenium transferase putative  
PBANKA\_1210900 phosphoglucomutase putative  
PBANKA\_0509700 conserved Plasmodium protein unknown function  
PBANKA\_0603700 conserved protein unknown function  
PBANKA\_1008500 translocon component PTEX150  
PBANKA\_0935000 ATPase putative  
PBANKA\_0409200 valine--tRNA ligase putative  
PBANKA\_1126800 HECT-domain (ubiquitin-transferase) putative  
PBANKA\_1432300 cell traversal protein for ookinetes and sporozoites  
PBANKA\_1036000 transcription elongation factor SPT6 putative  
PBANKA\_1012100 HP12 protein homolog putative  
PBANKA\_0414100 inorganic pyrophosphatase putative  
PBANKA\_0209100 thrombospondin-related sporozoite protein  
PBANKA\_1025500 NOT family protein putative  
PBANKA\_1027500 DNA-directed RNA polymerases I and III subunit RPAC2 putative  
PBANKA\_0312700 DEAD/DEAH box helicase putative  
PBANKA\_0936200 conserved Plasmodium protein unknown function  
PBANKA\_1128500 SET domain protein putative  
PBANKA\_0920400 conserved Plasmodium protein unknown function  
PBANKA\_1231300 major facilitator superfamily domain-containing protein putative  
PBANKA\_1001600 SET domain protein putative  
PBANKA\_0801700 conserved Plasmodium protein unknown function  
PBANKA\_0816500 conserved Plasmodium protein unknown function  
PBANKA\_0717300 cdc2-related protein kinase 3  
PBANKA\_0941900 histone H4 putative  
PBANKA\_1203100 ADP/ATP carrier protein putative  
PBANKA\_0817400 conserved Plasmodium protein unknown function  
PBANKA\_0705600 conserved Plasmodium protein unknown function  
PBANKA\_1304900 cytoplasmic tRNA 2-thiolation protein 2 putative  
PBANKA\_1211500 U3 small nucleolar RNA-associated protein 13 putative  
PBANKA\_0712000 U3 small nucleolar ribonucleoprotein protein IMP4 putative  
PBANKA\_0603200 eukaryotic translation initiation factor 5A putative

PBANKA\_0620800 conserved protein unknown function  
PBANKA\_1013300 mitogen-activated protein kinase 1  
PBANKA\_0501300 DNA polymerase delta catalytic subunit putative  
PBANKA\_0515900 mRNA-decapping enzyme subunit 1 putative  
PBANKA\_0416600 replication protein A1 small fragment  
PBANKA\_1215400 conserved Plasmodium protein unknown function  
PBANKA\_0915000 apical membrane antigen 1  
PBANKA\_0816600 conserved Plasmodium protein unknown function  
PBANKA\_0409300 phosphatidylinositol 3- and 4-kinase putative  
PBANKA\_1432900 GTP-binding protein EngA putative  
PBANKA\_0915200 conserved Plasmodium protein unknown function  
PBANKA\_0833300 palmitoyltransferase DHHC6 putative  
PBANKA\_0106300 conserved Plasmodium protein unknown function  
PBANKA\_0825400 conserved Plasmodium protein unknown function  
PBANKA\_1444700 TBC domain-containing protein putative  
PBANKA\_0923000 DNA-directed RNA polymerase putative  
PBANKA\_1402000 sodium/hydrogen exchanger putative  
PBANKA\_0621300 conserved Plasmodium protein unknown function  
PBANKA\_1409600 meiosis-specific nuclear structural protein 1 putative  
PBANKA\_0417100 conserved protein unknown function  
PBANKA\_0824900 patatin-like phospholipase putative  
PBANKA\_1414300 transcription factor MYB1 putative  
PBANKA\_0212100 eukaryotic translation initiation factor 2 subunit alpha  
PBANKA\_0827400 conserved Plasmodium protein unknown function  
PBANKA\_1441700 parasitophorous vacuolar protein 2  
PBANKA\_1341200 WD repeat-containing protein putative  
PBANKA\_0704500 HECT-like E3 ubiquitin ligase putative  
PBANKA\_1456100 40S ribosomal protein S17 putative  
PBANKA\_1226100 conserved Plasmodium protein unknown function  
PBANKA\_1446100 amino acid transporter putative  
PBANKA\_1241200 conserved Plasmodium protein unknown function  
PBANKA\_0104000 conserved protein unknown function  
PBANKA\_0617400 conserved Plasmodium protein unknown function  
PBANKA\_1421600 calcium/calmodulin-dependent protein kinase putative  
PBANKA\_0602300 TBCC domain-containing protein putative  
PBANKA\_1439300 WD repeat-containing protein putative  
PBANKA\_0208100 heptatricopeptide repeat and RAP domain-containing protein putative  
PBANKA\_1438900 GTP cyclohydrolase 1 putative  
PBANKA\_0102900 AP2 domain transcription factor putative  
PBANKA\_1008000 conserved protein unknown function  
PBANKA\_0710100 2-oxoglutarate dehydrogenase E1 component putative  
PBANKA\_1132000 NLI interacting factor-like phosphatase  
PBANKA\_0823700 conserved Plasmodium protein unknown function  
PBANKA\_0503300 conserved Plasmodium protein unknown function  
PBANKA\_0612400 conserved Plasmodium protein unknown function

PBANKA\_1016800 exosome complex component RRP41 putative  
PBANKA\_0710000 conserved Plasmodium protein unknown function  
PBANKA\_1115200 conserved Plasmodium protein unknown function  
PBANKA\_1403800 translational activator GCN1 putative  
PBANKA\_1201200 DnaJ protein putative  
PBANKA\_1037100 GTPase-activating protein putative  
PBANKA\_1144400 heptatricopeptide repeat-containing protein putative  
PBANKA\_1227700 inositol 5-phosphatase putative  
PBANKA\_1032200 WD repeat-containing protein putative  
PBANKA\_1000700 regulator of chromosome condensation putative  
PBANKA\_0306100 6-cysteine protein P230  
PBANKA\_0308700 pseudouridine synthase putative  
PBANKA\_1335900 DNA-directed RNA polymerase alpha subunit putative  
PBANKA\_0818400 conserved Plasmodium protein unknown function  
PBANKA\_0601300 peptidyl-prolyl cis-trans isomerase putative  
PBANKA\_1221200 60S ribosomal protein L34 putative  
PBANKA\_0613300 LITAF-like zinc finger protein putative  
PBANKA\_1432200 male development gene 1  
PBANKA\_1009200 conserved Plasmodium protein unknown function  
PBANKA\_0314800 conserved protein unknown function  
PBANKA\_1231500 ubiquitin carboxyl-terminal hydrolase 2 putative  
PBANKA\_0416000 high molecular weight rhoptry protein 3 putative  
PBANKA\_1437100 conserved Plasmodium protein unknown function

<b>Pvalue</b>	<b>coef</b>	<b>fdr</b>
0	-5.623041434	0
0	-7.202721256	0
0	-6.387202591	0
0	-6.112756157	0
0	-7.809385529	0
0	-7.545056262	0
0	-6.43747189	0
0	-2.708496955	0
0	-7.042778542	0
2.6568310935	-5.29092083	4.03E-315
1.25E-285	5.832273516	1.74E-284
1.45E-283	-6.077470237	1.86E-282
3.65E-277	-5.472462961	4.36E-276
3.25E-268	-6.415377068	3.62E-267
7.89E-263	-4.81172156	8.24E-262
4.76E-258	-7.900910444	4.67E-257
1.51E-256	-4.10600815	1.41E-255
1.32E-248	4.793134165	1.16E-247
2.34E-248	-4.739115106	1.95E-247
2.37E-243	-4.321922253	1.88E-242
2.62E-243	-4.482640743	1.99E-242
4.77E-233	-4.664786944	3.47E-232
4.06E-223	-4.894720784	2.82E-222
1.08E-210	4.796418845	7.20E-210
1.14E-210	-1.261388989	7.34E-210
2.16E-198	5.388743839	1.34E-197
2.44E-192	-4.314408256	1.45E-191
3.69E-187	-2.608924538	2.13E-186
2.18E-183	-1.727572097	1.21E-182
6.45E-176	-1.654315419	3.48E-175
3.97E-174	-1.896555172	2.07E-173
6.52E-174	-0.885275081	3.30E-173
2.50E-173	5.259484305	1.23E-172
2.30E-167	-4.195692563	1.10E-166
5.34E-161	2.298077941	2.48E-160
1.06E-160	5.230296632	4.79E-160
3.32E-155	3.910661225	1.46E-154
1.00E-151	-3.828467883	4.30E-151
7.63E-132	-3.904221512	3.19E-131
1.23E-131	3.712736125	5.02E-131
3.00E-128	4.189758876	1.19E-127
6.67E-126	2.127705232	2.59E-125
8.92E-124	4.170640311	3.38E-123
1.14E-123	-4.669125057	4.25E-123

1.26E-121	-0.954339308	4.49E-121
9.57E-121	-1.252997769	3.33E-120
1.61E-120	-1.927055013	5.48E-120
1.22E-119	2.749711431	4.07E-119
9.16E-119	-3.622993618	3.00E-118
7.66E-118	-3.823786694	2.46E-117
3.73E-116	-1.349538916	1.18E-115
1.06E-114	1.314402103	3.27E-114
7.45E-113	-0.069358705	2.26E-112
1.31E-110	0.055799209	3.90E-110
8.04E-108	-0.172929756	2.36E-107
1.36E-107	0.579341394	3.93E-107
1.34E-106	-0.7262171	3.79E-106
9.73E-106	2.307693571	2.71E-105
2.01E-105	3.247173344	5.51E-105
3.68E-105	1.304307923	9.91E-105
2.34E-101	4.121382113	6.21E-101
2.50E-101	1.43118898	6.51E-101
2.38E-100	3.308640328	6.11E-100
5.30E-99	2.424079739	1.34E-98
2.30E-98	-2.045239957	5.74E-98
9.68E-97	-2.936223265	2.38E-96
5.20E-94	4.321481243	1.26E-93
2.16E-91	-1.98812686	5.14E-91
1.20E-89	4.608752304	2.82E-89
1.13E-88	-3.920992649	2.60E-88
1.13E-88	0.70415564	2.60E-88
2.41E-88	-0.778952545	5.43E-88
2.42E-87	4.802165797	5.38E-87
2.22E-83	-0.383434358	4.88E-83
6.23E-79	0.451601688	1.33E-78
4.04E-78	0.433549533	8.54E-78
9.13E-78	0.742075126	1.91E-77
1.19E-77	3.828935502	2.46E-77
6.42E-77	1.59374873	1.31E-76
2.16E-76	0.543394214	4.34E-76
2.40E-76	-0.116966297	4.76E-76
8.73E-76	-1.881372625	1.71E-75
1.33E-74	1.675641872	2.59E-74
3.57E-73	-1.073913919	6.77E-73
1.46E-72	0.20400692	2.74E-72
1.52E-71	1.664773449	2.83E-71
1.87E-70	-0.671677535	3.44E-70
3.82E-69	-0.290143089	6.93E-69
3.54E-68	-0.373102966	6.29E-68

4.95E-68	-2.010234866	8.70E-68
5.14E-68	0.351501517	8.94E-68
3.28E-65	-0.057237731	5.65E-65
5.24E-65	-0.167790295	8.93E-65
1.14E-62	1.62100132	1.93E-62
1.65E-62	0.968987576	2.75E-62
2.54E-62	-0.963680337	4.21E-62
2.94E-61	1.037701364	4.81E-61
7.72E-61	0.450046432	1.25E-60
9.73E-61	-0.131884497	1.56E-60
1.55E-60	-0.154760971	2.46E-60
1.95E-58	0.416230674	3.08E-58
1.37E-56	-0.411980999	2.13E-56
4.26E-56	0.972436978	6.59E-56
4.73E-54	0.896932141	7.24E-54
6.95E-54	-0.353811065	1.06E-53
2.65E-51	0.502219212	3.98E-51
4.27E-49	0.410605323	6.36E-49
1.41E-48	1.05195261	2.08E-48
4.41E-48	-0.567326401	6.46E-48
3.13E-47	0.50787983	4.54E-47
4.40E-47	4.583979931	6.33E-47
5.25E-45	-0.164160002	7.49E-45
5.59E-45	0.545330964	7.91E-45
1.18E-44	0.474313604	1.66E-44
3.15E-44	0.368887852	4.39E-44
1.35E-43	-0.871357907	1.87E-43
3.72E-40	-0.307836601	5.05E-40
6.64E-39	-1.229982866	8.94E-39
1.81E-37	0.575185733	2.42E-37
2.92E-37	0.380812976	3.87E-37
5.58E-37	2.3793775	7.34E-37
1.62E-36	-0.588353793	2.11E-36
1.27E-35	0.305758594	1.64E-35
6.52E-35	1.194600239	8.38E-35
4.76E-34	-0.478493084	6.07E-34
5.18E-34	-0.86064268	6.55E-34
5.50E-34	0.278367325	6.91E-34
3.72E-31	0.674817202	4.60E-31
1.26E-28	1.349384971	1.55E-28
2.41E-28	-0.175090042	2.94E-28
3.19E-26	-0.161510796	3.84E-26
1.87E-25	-0.402833207	2.24E-25
2.40E-25	-0.232175467	2.84E-25
6.48E-24	-0.142661569	7.62E-24

9.34E-24	0.197875822	1.09E-23
1.81E-21	-0.174596113	2.10E-21
3.10E-18	-0.145618004	3.57E-18
1.06E-17	0.226756229	1.22E-17
8.57E-17	-0.105136503	9.73E-17
2.14E-15	-0.818010336	2.42E-15
4.74E-15	-0.06168316	5.32E-15
9.05E-15	0.383289531	1.01E-14
1.50E-14	-0.02556683	1.66E-14
1.20E-13	-0.222780602	1.31E-13
1.36E-13	0.065007923	1.48E-13
2.12E-13	1.174138915	2.30E-13
7.54E-13	-0.126076118	8.13E-13
1.10E-10	-0.099180834	1.17E-10
1.21E-10	-0.096215983	1.29E-10
4.91E-10	0.999226311	5.19E-10
8.95E-10	-0.049636633	9.40E-10
2.64E-08	-0.042297804	2.75E-08
1.46E-05	0.031784533	1.51E-05
2.43E-05	-0.032651269	2.50E-05
0.000109532	-0.031635934	0.0001122199
0.00114552	0.007199235	0.0011594051
0.008900697	-0.017589191	0.0089543161