Supplementary Table 1. DE results for genes included in the phylogenetic analyses.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Row.names | logFC | logCPM | LR | PValue | FDR | Description | Comparison |
| GeneID:100190617 | 1.086649475 | -1.339459005 | 0.98015725 | 0.322159987 | 0.875064381 | scavenger receptor class B%2C member 2 | Haemoproteus - Negative DE |
| GeneID:100190617 | -0.347782351 | -1.339459005 | 0.099602297 | 0.752307416 | 0.945487808 | scavenger receptor class B%2C member 2 | Plasmodium - Negative DE |
| GeneID:100190617 | -1.434431826 | -1.339459005 | 1.821875032 | 0.177090249 | 0.644434472 | scavenger receptor class B%2C member 2 | Plasmodium - Haemoproteus DE |
| GeneID:100217637 | -3.584512839 | -2.807429298 | 3.047362259 | 0.080868385 | 0.755764121 | interleukin 18 | Haemoproteus - Negative DE |
| GeneID:100217637 | -0.600221242 | -2.807429298 | 0.181091978 | 0.670436486 | 0.928386197 | interleukin 18 | Plasmodium - Negative DE |
| GeneID:100217637 | 2.984291597 | -2.807429298 | 2.296807575 | 0.12964021 | 0.59511598 | interleukin 18 | Plasmodium - Haemoproteus DE |
| GeneID:100219394 | -1.026960532 | -2.489552774 | 0.558479717 | 0.454873437 | 0.920206279 | interferon regulatory factor 8 | Haemoproteus - Negative DE |
| GeneID:100219394 | -0.742151644 | -2.489552774 | 0.391706761 | 0.531403617 | 0.884114317 | interferon regulatory factor 8 | Plasmodium - Negative DE |
| GeneID:100219394 | 0.284808888 | -2.489552774 | 0.047058317 | 0.82826345 | 0.962845018 | interferon regulatory factor 8 | Plasmodium - Haemoproteus DE |
| GeneID:100220158 | 0.605366673 | 0.64430834 | 0.916818139 | 0.338311814 | 0.88163704 | stabilin 1 | Haemoproteus - Negative DE |
| GeneID:100220158 | -0.176945401 | 0.64430834 | 0.080188668 | 0.777041896 | 0.950502473 | stabilin 1 | Plasmodium - Negative DE |
| GeneID:100220158 | -0.782312074 | 0.64430834 | 1.57538652 | 0.209426482 | 0.681237866 | stabilin 1 | Plasmodium - Haemoproteus DE |
| GeneID:100220337 | 3.130863633 | -2.929872622 | 2.787903767 | 0.094978397 | 0.760081072 | X-linked Kx blood group | Haemoproteus - Negative DE |
| GeneID:100220337 | 2.634377186 | -2.929872622 | 2.255898284 | 0.133106198 | 0.649425682 | X-linked Kx blood group | Plasmodium - Negative DE |
| GeneID:100220337 | -0.496486447 | -2.929872622 | 0.13649131 | 0.711794345 | 0.931125213 | X-linked Kx blood group | Plasmodium - Haemoproteus DE |
| GeneID:100220921 | -0.442784047 | 2.517373868 | 0.860175006 | 0.353689722 | 0.886300637 | solute carrier family 4 (anion exchanger)%2C member 1%2C adaptor protein | Haemoproteus - Negative DE |
| GeneID:100220921 | 0.067568787 | 2.517373868 | 0.02093746 | 0.884949458 | 0.979024123 | solute carrier family 4 (anion exchanger)%2C member 1%2C adaptor protein | Plasmodium - Negative DE |
| GeneID:100221639 | -0.191250285 | 4.970744939 | 0.159289218 | 0.689811761 | 0.9679379 | CD36 molecule (thrombospondin receptor) | Haemoproteus - Negative DE |
| GeneID:100221639 | 0.345709563 | 4.970744939 | 0.522702458 | 0.469691162 | 0.857728813 | CD36 molecule (thrombospondin receptor) | Plasmodium - Negative DE |
| GeneID:100221639 | 0.536959847 | 4.970744939 | 1.255113505 | 0.262578068 | 0.708013602 | CD36 molecule (thrombospondin receptor) | Plasmodium - Haemoproteus DE |
| GeneID:100222818 | -0.260269445 | -0.574975218 | 0.110445738 | 0.739637239 | 0.972004319 | scavenger receptor class B%2C member 1 | Haemoproteus - Negative DE |
| GeneID:100222818 | 0.24890778 | -0.574975218 | 0.116039166 | 0.733370682 | 0.939256503 | scavenger receptor class B%2C member 1 | Plasmodium - Negative DE |
| GeneID:100222818 | 0.509177225 | -0.574975218 | 0.456858468 | 0.499095844 | 0.854332536 | scavenger receptor class B%2C member 1 | Plasmodium - Haemoproteus DE |
| GeneID:100224026 | 0.60040082 | 1.091134944 | 0.990409852 | 0.319642224 | 0.875064381 | interleukin 17 receptor A | Haemoproteus - Negative DE |
| GeneID:100224026 | -0.221405196 | 1.091134944 | 0.136720228 | 0.711563568 | 0.933483135 | interleukin 17 receptor A | Plasmodium - Negative DE |
| GeneID:100224026 | -0.821806016 | 1.091134944 | 1.906600901 | 0.167341325 | 0.63608379 | interleukin 17 receptor A | Plasmodium - Haemoproteus DE |
| GeneID:100225426 | 0.00459258 | 0.551365708 | 4.90E-05 | 0.994415499 | 1 | lipopolysaccharide-induced TNF factor | Haemoproteus - Negative DE |
| GeneID:100225426 | 0.615416252 | 0.551365708 | 0.927799879 | 0.335435278 | 0.7965197 | lipopolysaccharide-induced TNF factor | Plasmodium - Negative DE |
| GeneID:100225426 | 0.610823671 | 0.551365708 | 0.897814407 | 0.343368426 | 0.762676726 | lipopolysaccharide-induced TNF factor | Plasmodium - Haemoproteus DE |
| GeneID:100225529 | 0.980435299 | 4.208923022 | 3.944129863 | 0.047035173 | 0.695125751 | interferon induced with helicase C domain 1 | Haemoproteus - Negative DE |
| GeneID:100225529 | 0.826404589 | 4.208923022 | 2.829185404 | 0.0925653 | 0.604501998 | interferon induced with helicase C domain 1 | Plasmodium - Negative DE |
| GeneID:100225529 | -0.15403071 | 4.208923022 | 0.100295705 | 0.751475065 | 0.942211616 | interferon induced with helicase C domain 1 | Plasmodium - Haemoproteus DE |
| GeneID:100226853 | -0.096171657 | 5.989766125 | 0.086593446 | 0.768553395 | 0.976250658 | CD47 molecule%2C transcript variant X1 | Haemoproteus - Negative DE |
| GeneID:100226853 | 0.504942126 | 5.989766125 | 2.392249461 | 0.121938054 | 0.644159469 | CD47 molecule%2C transcript variant X1 | Plasmodium - Negative DE |
| GeneID:100226853 | 0.601113783 | 5.989766125 | 3.377783375 | 0.066080872 | 0.498725649 | CD47 molecule%2C transcript variant X1 | Plasmodium - Haemoproteus DE |
| GeneID:100227522 | -0.654452026 | -1.927231014 | 0.469618089 | 0.493162918 | 0.928760546 | mannose receptor%2C C type 2 | Haemoproteus - Negative DE |
| GeneID:100227522 | -0.468919598 | -1.927231014 | 0.31792175 | 0.572859282 | 0.901421041 | mannose receptor%2C C type 2 | Plasmodium - Negative DE |
| GeneID:100227522 | 0.185532429 | -1.927231014 | 0.039753575 | 0.841963168 | 0.968188289 | mannose receptor%2C C type 2 | Plasmodium - Haemoproteus DE |
| GeneID:100227527 | 0.52197104 | 4.316659656 | 0.78648973 | 0.375163669 | 0.891143965 | DEXH (Asp-Glu-X-His) box polypeptide 58 | Haemoproteus - Negative DE |
| GeneID:100227527 | -0.732152853 | 4.316659656 | 1.545582855 | 0.213788718 | 0.686089769 | DEXH (Asp-Glu-X-His) box polypeptide 58 | Plasmodium - Haemoproteus DE |
| GeneID:100227787 | 0.378915589 | 5.223408917 | 0.830973747 | 0.361991111 | 0.886891479 | interleukin 15%2C transcript variant X2 | Haemoproteus - Negative DE |
| GeneID:100227787 | 0.428826476 | 5.223408917 | 1.068735588 | 0.301231221 | 0.78475781 | interleukin 15%2C transcript variant X2 | Plasmodium - Negative DE |
| GeneID:100227787 | 0.049910887 | 5.223408917 | 0.014544281 | 0.904008128 | 0.985235252 | interleukin 15%2C transcript variant X2 | Plasmodium - Haemoproteus DE |
| GeneID:100228049 | 0.751432517 | 1.54259537 | 1.441597685 | 0.229880975 | 0.859809241 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) | Haemoproteus - Negative DE |
| GeneID:100228049 | 1.216186061 | 1.54259537 | 3.848711733 | 0.049784216 | 0.541373046 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) | Plasmodium - Negative DE |
| GeneID:100228049 | 0.464753544 | 1.54259537 | 0.585851535 | 0.444027803 | 0.822921882 | hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) | Plasmodium - Haemoproteus DE |
| GeneID:100228054 | -0.405094629 | -2.070242744 | 0.088748113 | 0.765774745 | 0.975531371 | interleukin 20 receptor%2C alpha | Haemoproteus - Negative DE |
| GeneID:100228092 | -0.217699394 | 6.513192478 | 0.393607543 | 0.530409194 | 0.934338755 | basigin (Ok blood group) | Haemoproteus - Negative DE |
| GeneID:100228092 | -0.16676037 | 6.513192478 | 0.231800913 | 0.630191682 | 0.919368551 | basigin (Ok blood group) | Plasmodium - Negative DE |
| GeneID:100228092 | 0.050939024 | 6.513192478 | 0.021603389 | 0.883147084 | 0.980416167 | basigin (Ok blood group) | Plasmodium - Haemoproteus DE |
| GeneID:100228175 | 1.296774008 | 0.732355805 | 3.307976002 | 0.068944358 | 0.734004379 | interleukin-1 receptor-associated kinase 2 | Haemoproteus - Negative DE |
| GeneID:100229329 | 0.672330466 | 1.193089907 | 1.556994938 | 0.212105762 | 0.858633169 | phospholipase A2 receptor 1%2C 180kDa | Haemoproteus - Negative DE |
| GeneID:100229329 | 1.094919521 | 1.193089907 | 4.367431441 | 0.03663217 | 0.505119547 | phospholipase A2 receptor 1%2C 180kDa | Plasmodium - Negative DE |
| GeneID:100229329 | 0.422589055 | 1.193089907 | 0.674489594 | 0.411490695 | 0.803572132 | phospholipase A2 receptor 1%2C 180kDa | Plasmodium - Haemoproteus DE |
| GeneID:100230358 | -0.358024697 | 3.443646001 | 0.469080485 | 0.493410493 | 0.851696132 | interferon (alpha%2C beta and omega) receptor 1 | Plasmodium - Haemoproteus DE |
| GeneID:100230419 | 1.685734066 | -2.230404919 | 0.988690975 | 0.320062522 | 0.875064381 | interleukin 1 receptor%2C type II | Haemoproteus - Negative DE |
| GeneID:100230419 | 2.801095217 | -2.230404919 | 3.238837783 | 0.071911634 | 0.579463481 | interleukin 1 receptor%2C type II | Plasmodium - Negative DE |
| GeneID:100230419 | 1.115361151 | -2.230404919 | 0.640757192 | 0.42343674 | 0.81267254 | interleukin 1 receptor%2C type II | Plasmodium - Haemoproteus DE |
| GeneID:100230851 | -0.734512765 | 2.052402047 | 1.529028612 | 0.216258291 | 0.858633169 | interleukin 21 receptor | Haemoproteus - Negative DE |
| GeneID:100230851 | 0.710143704 | 2.052402047 | 1.528410682 | 0.21635113 | 0.723631118 | interleukin 21 receptor | Plasmodium - Negative DE |
| GeneID:100230851 | 1.444656469 | 2.052402047 | 5.935304424 | 0.014840505 | 0.356152064 | interleukin 21 receptor | Plasmodium - Haemoproteus DE |
| GeneID:100230954 | 0.075253548 | -0.699137856 | 0.006561374 | 0.935440118 | 0.989943309 | nitric oxide synthase 2%2C inducible | Haemoproteus - Negative DE |
| GeneID:100230954 | 0.923558888 | -0.699137856 | 1.053114333 | 0.304790917 | 0.787282035 | nitric oxide synthase 2%2C inducible | Plasmodium - Negative DE |
| GeneID:100230954 | 0.84830534 | -0.699137856 | 0.89578907 | 0.343913331 | 0.763128171 | nitric oxide synthase 2%2C inducible | Plasmodium - Haemoproteus DE |
| GeneID:100231177 | 0.209518189 | -0.101320036 | 0.048753543 | 0.825246572 | 0.986513876 | interleukin 16 | Haemoproteus - Negative DE |
| GeneID:100231177 | 0.926183003 | -0.101320036 | 1.003628582 | 0.316434087 | 0.790478211 | interleukin 16 | Plasmodium - Negative DE |
| GeneID:100231177 | 0.716664814 | -0.101320036 | 0.597209614 | 0.43964467 | 0.820924874 | interleukin 16 | Plasmodium - Haemoproteus DE |
| GeneID:100231797 | -0.811917247 | -2.013642 | 0.350939218 | 0.553581942 | 0.942509256 | toll-like receptor 7 | Haemoproteus - Negative DE |
| GeneID:100231797 | 0.42194965 | -2.013642 | 0.120747761 | 0.728224893 | 0.937429497 | toll-like receptor 7 | Plasmodium - Negative DE |
| GeneID:100231797 | 1.233866897 | -2.013642 | 0.874348655 | 0.349754224 | 0.768079076 | toll-like receptor 7 | Plasmodium - Haemoproteus DE |
| GeneID:100232430 | 0.573569073 | 6.029423674 | 1.510971413 | 0.218990917 | 0.858633169 | nuclear factor%2C interleukin 3 regulated | Haemoproteus - Negative DE |
| GeneID:100232430 | 0.48366123 | 6.029423674 | 1.078365944 | 0.299063393 | 0.783832391 | nuclear factor%2C interleukin 3 regulated | Plasmodium - Negative DE |
| GeneID:100232771 | -2.843026284 | -2.818032739 | 1.934689684 | 0.164246282 | 0.817666465 | toll-like receptor 3%2C transcript variant X1 | Haemoproteus - Negative DE |
| GeneID:100232771 | 0.423907755 | -2.818032739 | 0.084228035 | 0.771647427 | 0.948920186 | toll-like receptor 3%2C transcript variant X1 | Plasmodium - Negative DE |
| GeneID:100232771 | 3.266934039 | -2.818032739 | 2.710684466 | 0.099678215 | 0.553464731 | toll-like receptor 3%2C transcript variant X1 | Plasmodium - Haemoproteus DE |
| GeneID:101233025 | -1.171732669 | -2.199888971 | 0.467490724 | 0.494143823 | 0.928962858 | interleukin 31 receptor A | Haemoproteus - Negative DE |
| GeneID:101233025 | 1.460765916 | -2.199888971 | 1.118413076 | 0.290260416 | 0.775323686 | interleukin 31 receptor A | Plasmodium - Negative DE |
| GeneID:101233025 | 2.632498584 | -2.199888971 | 2.779775835 | 0.095461529 | 0.547567722 | interleukin 31 receptor A | Plasmodium - Haemoproteus DE |
| GeneID:101233409 | 0.825018663 | -1.922508444 | 0.397699643 | 0.528279654 | 0.934338755 | complement component 1%2C q subcomponent%2C A chain | Haemoproteus - Negative DE |
| GeneID:101233409 | 1.372181935 | -1.922508444 | 1.250476311 | 0.263461524 | 0.75114857 | complement component 1%2C q subcomponent%2C A chain | Plasmodium - Negative DE |
| GeneID:101233409 | 0.547163272 | -1.922508444 | 0.213099952 | 0.644348467 | 0.907886294 | complement component 1%2C q subcomponent%2C A chain | Plasmodium - Haemoproteus DE |
| GeneID:101233761 | -2.8935346 | -2.872932343 | 1.995017193 | 0.157817275 | 0.816306568 | interleukin 5 receptor%2C alpha | Haemoproteus - Negative DE |
| GeneID:101233761 | 0.089905654 | -2.872932343 | 0.003689643 | 0.951564337 | 0.98929986 | interleukin 5 receptor%2C alpha | Plasmodium - Negative DE |