Supplementary Material

# Supplementary Data

The entire shotgun MS dataset is available online (MS\_dataset; web address to be added).

# Supplementary Table

**Table S1**. List of proteins with significantly different expression levels in *G. lamblia* WBC6 trophozoites (WT) and *E. coli* glucuronidase A-transfected trophozoites (GusA). The respective accession numbers and annotations in the GiardiaDB are given.

|  |  |
| --- | --- |
| **Higher in WT** | **Higher in GusA** |
| **Accession N°** | **Annotation** | **Accession N°** | **Annotation** |
| GL50803\_102455 | Kinesin-6 | GL50803\_101168 | Protein 21.1 |
| GL50803\_103164 | H-SHIPPO 1 | GL50803\_10161 | hypothetical protein |
| GL50803\_10522 | hypothetical protein | GL50803\_101765 | VSP |
| GL50803\_113788 | hypothetical protein | GL50803\_101832 | High cysteine protein (VSP4A1) |
| GL50803\_115066 | High cysteine membrane protein VSP-like | GL50803\_102248 | Coiled-coil protein |
| GL50803\_13616 | Glycine-rich protein | GL50803\_103838 | Kinase |
| GL50803\_13945 | hypothetical protein | GL50803\_103888 | hypothetical protein |
| GL50803\_14098 | ATP-dependent RNA helicase | GL50803\_103992 | VSP |
| GL50803\_14507 | hypothetical protein | GL50803\_10569 | hypothetical protein |
| GL50803\_14967 | hypothetical protein | GL50803\_10679 | hypothetical protein |
| GL50803\_15139 | hypothetical protein | GL50803\_10765 | MCM7 |
| GL50803\_15472 | hypothetical protein | GL50803\_11040 | Kinase |
| GL50803\_16269 | FAD synthetase | GL50803\_112113 | VSP |
| GL50803\_17043 | Glyceraldehyde 3-phosphate dehydrogenase | GL50803\_112408 | hypothetical protein |
| GL50803\_17531 | hypothetical protein | GL50803\_112801 | VSP |
| GL50803\_22385 | Protein 21.1 | GL50803\_113357 | VSP |
| GL50803\_25035 | Protein tyrosine phosphatase | GL50803\_113450 | VSP with INR |
| GL50803\_25816 | High cysteine membrane protein Group 1 | GL50803\_113797 | VSP with INR |
| GL50803\_2732 | Hypothetical protein | GL50803\_114674 | Hypothetical protein |
| GL50803\_2796 | Kinase | GL50803\_11470 | VSP with INR |
| GL50803\_2864 | hypothetical protein | GL50803\_11497 | hypothetical protein |
| GL50803\_30233 | hypothetical protein | GL50803\_11521 | VSP |
| GL50803\_33030 | hypothetical protein | GL50803\_11566 | hypothetical protein |
| GL50803\_41619 | hypothetical protein | GL50803\_12215 | S-adenosylmethionine-dep. methyltransferase |
| GL50803\_4323 | hypothetical protein | GL50803\_136004 | VSP |
| GL50803\_4369 | Dual specificity phosphatase Cdc25 | GL50803\_13809 | hypothetical protein |
| GL50803\_4587 | hypothetical protein | GL50803\_13988 | hypothetical protein |
| GL50803\_4653 | Serpin 1 | GL50803\_14216 | Kinase |
| GL50803\_7018 | hypothetical protein | GL50803\_14539 | Protein 21.1 |
| GL50803\_7706 | hypothetical protein | GL50803\_14573 | Tenascin-X |
| GL50803\_7800 | hypothetical protein | GL50803\_14586 | VSP with INR |
| GL50803\_7865 | L-asparaginase | GL50803\_14602 | hypothetical protein |
| GL50803\_8058 | hypothetical protein | GL50803\_14843 | Chaperone protein dnaJ |
| GL50803\_8616 | hypothetical protein | GL50803\_14906 | hypothetical protein |
| GL50803\_8725 | hypothetical protein | GL50803\_14940 | hypothetical protein |
| GL50803\_87261 | hypothetical protein | GL50803\_14997 | hypothetical protein |
| GL50803\_89315 | VSP | GL50803\_15204 | ERP3 |
| GL50803\_90665 | hypothetical protein | GL50803\_15515 | hypothetical protein |
| GL50803\_91476 | hypothetical protein | GL50803\_15930 | RNA helicase |
|  |  | GL50803\_15958 | Ser/Thr protein kinase |
|  |  | GL50803\_15987 | hypothetical protein |
|  |  | GL50803\_16157 | hypothetical protein |
|  |  | GL50803\_16199 | Coiled-coil protein |
|  |  | GL50803\_16230 | Hypothetical protein |
|  |  | GL50803\_16415 | hypothetical protein |
|  |  | GL50803\_16460 | Kinase |
|  |  | GL50803\_16484 | hypothetical protein |
|  |  | GL50803\_16534 | Protein 21.1 |
|  |  | GL50803\_16944 | hypothetical protein |
|  |  | GL50803\_16985 | hypothetical protein |
|  |  | GL50803\_16986 | Kinase |
|  |  | GL50803\_17025 | Nuclear ATP/GTP-binding protein |
|  |  | GL50803\_17123 | hypothetical protein |
|  |  | GL50803\_17198 | Leucine-rich repeat protein |
|  |  | GL50803\_17283 | hypothetical protein |
|  |  | GL50803\_17389 | SUA5 protein |
|  |  | GL50803\_17412 | hypothetical protein |
|  |  | GL50803\_17574 | Coiled-coil protein |
|  |  | GL50803\_1770 | DRL1 protein |
|  |  | GL50803\_2082 | Kinase |
|  |  | GL50803\_21110 | hypothetical protein |
|  |  | GL50803\_23357 | NYD-SP28 protein |
|  |  | GL50803\_23447 | hypothetical protein |
|  |  | GL50803\_23767 | hypothetical protein |
|  |  | GL50803\_24453 | hypothetical protein |
|  |  | GL50803\_32571 | hypothetical protein |
|  |  | GL50803\_32681 | hypothetical protein |
|  |  | GL50803\_33989 | hypothetical protein |
|  |  | GL50803\_3491 | hypothetical protein |
|  |  | GL50803\_37093 | VSP |
|  |  | GL50803\_3920 | hypothetical protein |
|  |  | GL50803\_4017 | hypothetical protein |
|  |  | GL50803\_40244 | P24 |
|  |  | GL50803\_41472 | VSP |
|  |  | GL50803\_4192 | ARL2 |
|  |  | GL50803\_4711 | hypothetical protein |
|  |  | GL50803\_5374 | Tubulin specific chaperone B |
|  |  | GL50803\_5949 | Tetratricopeptide repeat protein |
|  |  | GL50803\_7126 | hypothetical protein |
|  |  | GL50803\_7747 | hypothetical protein |
|  |  | GL50803\_7797 | Alpha-5 giardin |
|  |  | GL50803\_8140 | GTP-binding protein ARD-1 |
|  |  | GL50803\_8157 | RNA polymerase II subunit Rpb5b |
|  |  | GL50803\_8456 | Tubulin tyrosine ligase |
|  |  | GL50803\_8464 | hypothetical protein |
|  |  | GL50803\_86440 | Peptidyl-tRNA hydrolase |
|  |  | GL50803\_86934 | Kinase |
|  |  | GL50803\_8708 | Eukaryotic translation initiation factor 1A |
|  |  | GL50803\_8741 | Dipeptidyl-peptidase I precursor |
|  |  | GL50803\_9077 | Inositol 5-phosphatase 4 |
|  |  | GL50803\_9134 | hypothetical protein |
|  |  | GL50803\_91911 | Translation initiation factor eIF-2B alpha SU |
|  |  | GL50803\_9741 | ABC transporter |

****