**Supplementary Table 1.** Annotations of genes/proteins that were significantly differentially expressed in both the transcriptome and proteome.

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| --- | --- | --- | --- | --- | --- |
| **Co-expressed Annotations (down)** | **Tery ID\*** | **Uniprot ID** | **Co-expressed Annotations (up)**  | **Tery ID\*** | **Uniprot ID** |
| 5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase  | metE | Q117R7 | 4-hydroxybenzoyl-CoA thioesterase  | Tery\_4502  | Q10W86 |
| 50S ribosomal protein L1  | rplA | Q119S7 | 5'-nucleotidase / 3'-nucleotidase / exopolyphosphatase  | Tery\_1774  | Q114P0 |
| 50S ribosomal protein L11  | rplK | Q119S6 | Acetylornithine aminotransferase  |  argD  | Q111I1 |
| Adenine phosphoribosyltransferase  | apt | Q119D0 | Adenylyl-sulfate kinase  |  cysC  | Q113Z6 |
| Adenylosuccinate synthetase  | purA | Q10ZD0 | Alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen  | Tery\_0235  | Q119V1 |
| ATP-dependent Clp protease adapter protein ClpS  | clpS | Q10Y18 | Glycerophosphoryl diester phosphodiesterase  | Tery\_2777  | Q110W5 |
| Bifunctional protein PyrR  | pyrR | Q114G0 | HAD superfamily (Subfamily IA) | Tery\_3452  | Q10YY0 |
| Carbamoyl-phosphate synthase large chain  | carB | Q110M4 | Heme oxygenase (Decyclizing) | Tery\_0335  | Q119L5 |
| Ferredoxin (2Fe-2S) | Tery\_0914 | Q117L1 | Hemolysin-type calcium-binding region  | Tery\_3467  | Q10YW6 |
| Glutathione S-transferase-like  | Tery\_4017 | Q10XI9 | L-threonine synthase  | Tery\_4348  | Q10WN4 |
| Methyl-accepting chemotaxis sensory transducer  | Tery\_4229 | Q10WZ4 | Methyltransferase type 12  | Tery\_1776  | Q114N9 |
| Na-Ca exchanger/integrin-beta4  | Tery\_0599 | Q118N1 | Nitrogenase cofactor biosynthesis protein NifB  | Tery\_4133  | Q10X83 |
| Nucleotidyl transferase  | Tery\_1143 | Q116R9 | Nitrogenase iron protein  |  nifH  | O34106 |
| Photosystem I protein PsaD  | Tery\_3791 | Q10Y37 | PBS lyase HEAT-like repeat  | Tery\_0995  | Q117F1 |
| Phycobilisome linker polypeptide  | Tery\_0985 | Q117F9 | Phosphonate ABC transporter, periplasmic phosphonate-binding protein  | Tery\_4993  | Q10V17 |
| Phycobilisome protein  | Tery\_0996 | Q117F0 | Phycobilisome protein  | Tery\_0983  | Q117G1 |
| Phycobilisome protein  | Tery\_0998 | Q117E8 | Putative signal transduction protein with Nacht domain  | Tery\_2496  | Q111X1 |
| Signal recognition particle protein  | ffh | Q111T7 | Ribulose 1,5-bisphosphate carboxylase small subunit  | Tery\_4408  | Q10WH8 |
| Transcriptional regulator AbrB  | Tery\_1859 | Q114F9 | Ribulose bisphosphate carboxylase large chain  |  cbbL  | Q10WH8 |
| Uncharacterized protein  | Tery\_0741 | Q118A2 | Shikimate kinase  |  aroK  | Q115N2 |
| Uncharacterized protein  | Tery\_0766 | Q117Y1 | Twitching motility protein  | Tery\_1747  | Q114R7 |
| Uncharacterized protein  | Tery\_1805 | Q114L2 | Uncharacterized protein  | Tery\_3106  | Q10ZT5 |
| Uncharacterized protein  | Tery\_3933 | Q10XR0 | Uncharacterized protein  | Tery\_3845  | Q10XY7 |
|  |  |  | Uncharacterized protein  | Tery\_3895  | Q10XU4 |
|  |  |  | WD-40 repeat  | Tery\_4625  | Q10VX7 |