**Table S1. Peptide sequences for differentially expressed proteins identified at the 2-week sampling time**. The 13 and 25 unique proteins over-expressed after two weeks by samples of the control (C) and high temperature (H) treatments, respectively, were included. Additional details of the sequenced proteins can be found in the main text (Table 2). The compartment of origin has been mentioned next to the spot number except when it could not be determined. Sym=*Symbiodinium*.

| **Spot(s)** | **Protein** | **Sequence** | **Function** | **Notes** |
| --- | --- | --- | --- | --- |
| C1-host | pentraxin | YADQDLPSDGLFHHFCFTWSNTNGDYKFWIDGEVVGSGSDLYKGGTIEKGGTVVIGQDQDEVGGDFDPR | immunity | 4 sequenced peptides overlapped |
| C1-host | uncharacterized transcription factor | SGRHWHEDEHRRDRHAQPIDERPRYQERRDER | transcription factor | 2 sequenced peptides overlapped |
| C1-Sym | protein kinase UbiB | PPDAEDQDKHLPDGLQLVDLTKESK | protein kinase |  |
|  |  | GRGKGKGKGARNFKRVRDRLKK |  |  |
| C1-Sym | STI1-like protein | DAYLDPTKGEEHREKGNEFFKEKKYAEAKAEYDEGIKRNPK | stress response | 2 sequenced peptides overlapped |
| C1-Sym | myosin-6 | KYCADLENLLETLNTCHLHYI | actin-based motility |  |
|  |  | LFLKAGQLKALEDMRTEGAEADPER |  |  |
| C2-host | WSC domain | DRHRNPRPLPNYLMNDRDVFHK | unknown |  |
|  |  | LKLRQLVASMRCEMIELWAKKSTTKWTHPAQCLR |  |  |
| C2-host | hormone receptor domain | EKSSDNHEGDDDVEDDEKQTSHRGNTHKK | receptor/signaling |  |
|  |  | VYNADNDDDDQYYGGEGNQEYQGRNHYK |  |  |
| C2-Sym | pre-mRNA splicing factor SLU7-A | RDRWNGFQPDDYKQVIEDWERVEAERR | gene expression/splicing | 2 sequenced peptides overlapped |
| C3-host | hypothetical protein | RRKIIIIKKLLYNYVEHIKLLIALRVK | unknown | 2 sequenced peptides overlapped |
|  |  | YTDGQAQAKRLCKGVTKENTNLRK |  |
| C3-host | Pao retrotransposon peptidase | AINCENVQSIEERKK | unknown/various |  |
|  |  | ANDCKSRNTCKICDGKHHTSICDRKER |  |  |
| C3-host | spectrin alpha chain | SYIPPPTPTFEKDRIRALKNERINSQKK | cytoskeleton | 2 sequenced peptides overlapped |
|  |  | VLVKRKVKKKVKIQKQR |  |
| C3-Sym | adenylate kinase | WAIFDRAMEETTESLRER | protein kinase |  |
|  |  | EEFLKGCALPSDLKEMTEK |  |  |
| C3 | hypothetical protein | KKKRLRKKIKKKSRKKKRKRKK | unknown | 2 sequenced peptides overlapped |
| H1-host | hypothetical protein | KKKKKKRRRKKKRKKKEKKK | unknown | 2 sequenced peptides overlapped |
| H1-host | low-density lipoprotein receptor-related protein 4 | CVSNDFLCDMEDDCGDR | receptor/transport |  |
|  | CDGNDDCGDESDERNCQTTSVCKANEFR |  |  |
| H1-host | serine/arginine repetitive matrix protein 1 | SRASRRSPSSSPEREVKPRSRAAKQSSPASPETR | gene expression/splicing | 2 sequenced peptides overlapped |
| H1-Sym | Rec10 / Red1 | KAKKVKKAKKVKKAKKSKKDDSDKKGKKKHSK | meiosis | 2 sequenced peptides overlapped |
| H1-bacteria | VWA domain-containing protein | VLILTFEPSSGGKCCDEEDDDDDDDDDDRKR | unknown | 2 sequenced peptides overlapped |
| H2-host | GPI-anchored adhesin-like protein PGA55 isoform X1 | TQLLLEVEEQLNERCPCGNCGMFDRDR | unknown |  |
|  | ELRKLVGLHHDVQLLCLELHVKQFVGERLLPLLEK |  |  |
| H2-host | histone-lysine N-methyltransferase SETD1B-like | DDNAKTTNKLIESFRRESMRTSSPPSKSR | gene expression | 2 sequenced peptides overlapped |
| H2-Sym | ribulose-1,5-bisphosphate carboxylase/oxygenase | GTTNGGLVVGTIIKPK | photosynthesis |  |
|  | GYTAFVHTK |  |  |
|  |  | LPAFFENLGHSNVILTAGGGSFGHK |  |  |
|  |  | AGQFGNISLSDGVIEYAK |  |  |
|  |  | GAFLTFQK |  |  |
| H2-Sym | DNAJ and WW domains | KKKKKDKKKKKKKKKSKK | stress response | 2 sequenced peptides overlapped |
| H2 | hypothetical protein | KVMRRRKRSIKRRRRIRRKKMMAIKNKRKKRSQKRRK | unknown | 2 sequenced peptides overlapped |
| H3-host | golgin subfamily B member 1 | TIEGLMDRLDAQKRLIDSR | unknown |  |
|  |  | DELSKANSELEKVKSVNERLK |  |  |
| H3-Sym | peptidylprolyl isomerase D | EKEEELERKQKEEAQKRR | stress response | 2 sequenced peptides overlapped |
| H3 | hypothetical protein | KKKRKGKIVHIPLRRLRAILLVRVKIIKLR | unknown | 2 sequenced peptides overlapped |
| H3 | hypothetical protein | ESRGAEERSRDRDNRKKERREK | unknown |  |
|  |  | RSPRRSRSRKRSRSRPKASRRDSRARK |  |  |
| H4-Sym | E3 ubiquitin protein ligase | DNEDDCDHIFCSNPECR | stress response |  |
|  |  | KVVEVHGNHHHKPKCPYYFEFK |  |  |
| H4 | hypothetical protein | QQELIQKQKEELKQVKEQK | unknown | 2 sequenced peptides overlapped |
| H4 | hypothetical protein | IRRRRLRRLPRIRRRVRRVRRIRR | unknown | 2 sequenced peptides overlapped |
| H5-host | beta-gamma crystallin | ADVTSGTWIFYTHANNNDKEAGAGPSNYK | stress response |  |
|  |  | GEGVSSAIVLSK |  |  |
|  |  | FAIFTKPNYQGLQQQLEPDTR |  |  |
| H5-host | sacsin | LLQMFLEGAESLLLFSQNILRVGIYNLPR | stress response |  |
|  |  | LYKFCRFEEISNAQRRNREDR |  |  |
| H5 | hypothetical protein | ERSERQRATQLCKAQDEELKRRER | unknown | 2 sequenced peptides overlapped |
| H6-Sym | ribosome biogenesis protein NSA2-like | EPKKISKTARKLRGIKAKLFTKKRYTEKATMKKTIKAHQEKDAK | ribosome | 2 sequenced peptides overlapped |
| H6-Sym | pentatricopeptide repeat-containing protein | MWWDALLEVFEMKNK | unknown |  |
|  | YTSIVFNALACCLRCDAEKVSACQLLQR |  |  |
| H6-Sym | voltage-dependent T-type calcium channel subunit α-1H | NCYANKCSHCKNLRSFTRPSFTIEELAMRSTTLTRNFRYQK | transport | 2 sequenced peptides overlapped |
| H6-Sym | nucleolar protein of 40 kDa | AVMEEVKRMKKESKLKKKFLKLENKRKKKLQKKLKK | unknown | 3 sequenced peptides overlapped |
| H6-Sym | peptidylprolyl isomerase D | RRSHARPGFRGNRGMVADRVQAERR | stress response | 2 sequenced peptides overlapped |