**Table S2. Peptide sequences for the differentially expressed proteins (DEPs) identified at the 4-week sampling time**. The 8 and 4 proteins over-expressed after four 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 3). No unique DEPs were identified from spots H5 and H6. The compartment of origin has been included next to the spot number. Sym=*Symbiodinium*.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Spot(s)** | **Protein** | **Sequence** | **Function** | **Notes** |
| C1-host | pentraxina | FWIDGEVVGSGSDLYK | immunity | 2 sequenced peptides overlapped |
|  |  | GGTVVIGQDQDEVGGDFDPR |  |
| C1-host | trichohyalinb | RRRRRRRRRRRRKLRRYGRRRPRRGRRRRRGRRGRR | structural | 2 sequenced peptides overlapped |
| C1-host | plexin | LCQEDEVYSSYMELPLDCK | signal tranduction/ reception |  |
|  |  | FFCDFSMEHSQEFDGDSALQELYDYVR |  |
| C2-host | avidin | GLYANGAPGSEVLLEK | reproduction |  |
|  |  | DVPATLGFVVNFEGGK |  |  |
| C2-host | hypothetical protein | FCDLEDRVFEKQQSRK | unknown |  |
|  |  | MRPSTCPTSSS RWNR |  |  |
| C3-Sym | chloroplast oxygen-evolving enhancer | SFAVEIDTDNGKEFATTK | photosynthesis |  |
|  |  | VNQELGEIGGVFVSK |  |
| C4-host | actin | FEQEMATAAASTSLEKSYELPDGQVITIGNER | cytoskeleton | 2 sequenced peptides overlapped |
| C4-host | actin (different from previous paralog) | AVFPSIVGR | cytoskeleton | 2 sequenced peptides overlapped |
|  |  | VAPEEHPVLLTEAPLNPK |  |
|  |  | GYSFTTTAER |  |
|  |  | FTTTAER |  |  |
| H7-host | RNA-directed DNA polymerase from mobile element jockey-like | WLRHRNVVLVGDFNSDYFR | gene expression/splicing |  |
|  | GHSTELLLVKITDDWR |  |  |
| H7-Sym | peridinin-chlorophyll A binding protein | KLGDASYSFAK | photosynthesis | multiple peptide |
|  |  | LLKDAAEAHHKAIGSISGPNGVTSR |  | sequences  |
|  |  | SLVNGPDAEKAYQGFLEFKDVVEKNQVATASAPAVVPSGDKIGEAAKALSDASYPFIK | overlapped | overlapped |
|  |  | AIGSIDATGVTSAADYEAVNAAIGR |  |  |
|  |  | VNPLDAVAAAK |  |  |
| H8-host | NF-kappa-B inhibitor-like protein 1 isoform X2 | EELEAERKERWHKEHEEK | immunity |  |
|  | ETYDEWADRITYERRQK |  |  |
| H8-host | hypothetical proteina | KKKKKKRRRKKKRKKKEKKK | unknown | 2 sequenced peptides overlapped |

aAlso identified at the 2-week sampling time. bAlso identified at the 8-week sampling time.