Table 2 The physicochemical characteristics of the 16 CnHsp70 family members

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Gene name | Gene ID | Length(aa) | Isoelectric point（pI） | Molecular weight  (kDa) | Instability index | Sub-cellular localization |
| Hsp70-1 | TRINITY\_DN10529\_c1\_g2\_i3 | 483 | 6.47 | 53.17 | 32.20 | Cytoplasmic |
| Hsp70-2 | TRINITY\_DN10613\_c1\_g1\_i2 | 493 | 6.84 | 55.68 | 39.82 | Cytoplasmic |
| Hsp70-3 | TRINITY\_DN10917\_c0\_g1\_i7 | 675 | 6.02 | 72.15 | 36.56 | Mitochondrial |
| Hsp70-4 | TRINITY\_DN152347\_c0\_g1\_i2 | 614 | 5.24 | 66.81 | 35.86 | Chloroplast |
| Hsp70-5 | TRINITY\_DN152347\_c0\_g2\_i1 | 352 | 6.42 | 39.02 | 30.19 | Chloroplast |
| Hsp70-6 | TRINITY\_DN16204\_c0\_g1\_i1 | 335 | 5.13 | 36.57 | 31.48 | Extracellular space |
| Hsp70-7 | TRINITY\_DN1712\_c11\_g1\_i2 | 265 | 8.44 | 29.47 | 41.39 | Chloroplast |
| Hsp70-8 | TRINITY\_DN1712\_c1\_g1\_i6 | 585 | 5.11 | 64.35 | 33.28 | Cytoplasmic |
| Hsp70-9 | TRINITY\_DN190619\_c0\_g1\_i1 | 631 | 8.71 | 70.59 | 50.64 | Chloroplast |
| Hsp70-10 | TRINITY\_DN3151\_c0\_g1\_i18 | 443 | 6.63 | 48.35 | 37.93 | Cytoplasmic |
| Hsp70-11 | TRINITY\_DN46341\_c0\_g1\_i3 | 654 | 5.44 | 71.27 | 37.13 | Cytoplasmic |
| Hsp70-12 | TRINITY\_DN5040\_c0\_g1\_i23 | 864 | 5.41 | 96.54 | 39.62 | Plasma membrane |
| Hsp70-13 | TRINITY\_DN548\_c0\_g1\_i14 | 832 | 5.20 | 92.09 | 42.99 | Cytoplasmic |
| Hsp70-14 | TRINITY\_DN56386\_c0\_g1\_i1 | 645 | 5.13 | 70.51 | 37.19 | Cytoplasmic |
| Hsp70-15 | TRINITY\_DN57700\_c0\_g2\_i1 | 314 | 8.09 | 35.75 | 33.13 | Cytoplasmic |
| Hsp70-16 | TRINITY\_DN756\_c0\_g1\_i18 | 714 | 6.31 | 81.08 | 42.41 | Cytoplasmic |