

Supplementary data

Differential expression of antioxidant proteins in the drought-tolerant cyanobacterium *Nostoc flagelliforme* under desiccation

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Supplementary Data Table S1. The sequence of the identified peptides of antioxidant proteins in *Nostoc flagelliforme*.

| Spot No. ^a | Accession No. ^b | Matched peptide sequences (m/z) ^c |
|-----------------------|----------------------------|---|
| 1 | gi 17232133 | GLFIIDK(805.48) SVDETLR(819.42) YEEFKK(843.42) TMTDPVK(904.44) SGGVGDLNYPLVSDIK(1633.84) DGIIQHATINNLAFGR(1739.91) SGGVGDLNYPLVSDIKK(1761.93) VGQQAPDFTATAVVDQEFK(2051.01) GLFIIDKDGIIQHATINNLAFGR(2526.38) |
| 2 | gi 23127951 | MFFHK (725.41) STLFAVR (793.54) ANVAEAGAR (929.58) QTYEELIK (1023.63) GPWNSEPTFK (1162.67) EISHTQMFVK (1283.69) GTQETLVHLLTR (1367.89) EPIHAVNVSEPNPR (1558.94) KEPIHAVNVSEPNPR (1687.05) LATDKGTQETLVHLLTR (1896.23) DMLQDIAIEEFSHLEMVGK (2237.27) GIGPHFLDSQGNWATASYLNEGGDVVR (2860.67) LTDPPFGNIKPDETVALYYNLSTNGNGQDER (3489.04) |
| 3 | gi 23126633 | LKPEFDK (876.58) NFDELLR (906.57) SVFVIDPNK (1018.65) LKPEFDKR (1032.69) SVFVIDPNKK (1146.77) LSFTYPPSTGR (1225.76) GYEEIKPYLR (1267.81) AIALSVDDVESHK (1383.86) DGEDVVIVPSLKDPEVLK (1952.28) VADLYDMIHPNANAAVTVR (2086.29) VIDSLQLTDNYSVATPADWK (2236.36) GWVGDIEETQSTTLNYPILADADR (2664.58) GWVGDIEETQSTTLNYPILADADR (2792.71) |
| 4 | gi 56182538 | DFGSFDK(815.35) SLEEVIK(817.46) TSFNDSSK(885.39) NARPAFIK(916.53) AYVDNLNK(936.47) IDKDFGSFDK(1171.56) |

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|---|--------------|--------------------------------|
| | | AETFYHYGK(1244.55) |
| | | TPNAENPLAHGK(1248.63) |
| | | AETFYHYGKHHK(1646.77) |
| 5 | gi 186463002 | LTLNIDALAER(1228.68) |
| | | SFIEGESLGPDGR(1363.64) |
| | | YHWDVVGPQFR(1403.68) |
| | | KYHWDVVGPQFR(1531.78) |
| | | ALGGYPVGTMEGFLK(1539.78) |
| | | SLHQLWEEHYEK(1598.75) |
| | | VRALGGYPVGTMEGFLK(1794.95) |
| | | QGVINLLNKDLADAYLLLVK(2213.29) |
| 6 | gi 186463002 | SFIEGESLGPDGR(1363.64) |
| | | YHWDVVGPQFR(1403.68) |
| | | KYHWDVVGPQFR(1531.78) |
| | | ALGGYPVGTMEGFLK(1539.78) |
| | | QGVINLLNKDLADAYLLLVK(2213.29) |
| 7 | gi 186463002 | LTLNIDALAER(1228.68) |
| | | SFIEGESLGPDGR(1363.64) |
| | | YHWDVVGPQFR(1403.68) |
| | | KYHWDVVGPQFR(1531.78) |
| | | ALGGYPVGTMEGFLK(1539.78) |
| | | QGVINLLNKDLADAYLLLVK(2213.29) |
| | | EHAGNVPTATGMVANLVEDHEQVIR(2687 |
| | | .32) |
| 8 | gi 23126626 | DFGSFDK(815.35) |
| | | NARPAFIK(916.53) |
| | | AYVDNLNK(936.47) |
| | | IDKDFGSFDK(1171.56) |
| | | AETFYHYGK(1244.55) |
| | | TPNAENPLAHGK(1248.63) |
| | | ALLTLDVWEHAYYIDYR(2141.07) |
| | | NALEPNGMKAETFYHYGK(2215.01) |

Putative protein identification and accession number of the closest match in NCBI database are indicated.

^a Number of each protein spot of 2DE, as indicated in Fig. 1 and Fig. 2.

^b Accession number was recorded as a reference for the identification in NCBI database.

^c The sequences of all the identified peptides with the corresponding m/z ratio in brackets.