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| **Supplemental Table 3.**  **Prediction of NLS sequences and the existence of transmembrane helices of the tobacco EDR1-like proteins** |
| Name | Bipartite NLS | Monopartite NLS | Transmembrane helices |
| NtEDR1-1A | ISKRPSSSNQVDWTSPLAIGTSLYKGGRGPRPPAPMMWKNRYAHNEVPWKNDSDSEALFPKKSCGS | —— | —— |
| NtEDR1-1B | ISKRPSSSNQVDWTSPLAIGTSLYKGGRGPRPPAPMMWKNRYAHNEVPWKNDSDSEALFPKKNCGS | —— | —— |
| NtEDR1-2 | FLKKLHIGSNQSEDSEGSTSSSKSKRLSD | RIMKRLRHPNVVLF | √ |
| NtEDR1-3 | FLKKLHIGSNQSEDSEGSTSSSKSKRLSD | RIMKRLRHPNVVLF | √ |
| NtEDR1-4 | LLKKLHLVPNESVDSEGSTSSAKTKRLSDTAERRSRFRESSTENASPSSSNNSEKQIKAEERRSRFRESSTENASPSSSNNSEKQIKAEKG | RIMKRLRHPNVVLF | √ |
| NtEDR1-5 | —— | —— | —— |
| NtEDR1-6 | —— | —— | —— |
| NtEDR1-7 | —— | —— | —— |
| NtEDR1-8 | —— | —— | —— |
| NtEDR1-9 | —— | —— | —— |
| NtEDR1-10 | SGRRSSYTLLNQIPDDNFVLPPPPKFSAGFRGKRLDIPSDLNPQVATIIEACWAKCVACT | —— | —— |
| NtEDR1-11 | GQKKRLSWQKRLNMLRDICRGLMCLHRMKI |  | —— |
| NtEDR1-12 | —— | MGAVTKRPHLS | —— |
| NtEDR1-13 | SKFSRIDSGEAPSKRQRV | GEAPSKRQRVALE | —— |
| NtEDR1-14 | —— | —— | —— |
| NtEDR1-15 | SGRRSSYTLLNQIPDDNFVLPPPPKFSAGFRGKRLDIPSDLNPQVATIIEACWAKCVACT | —— | —— |
| NtEDR1-16 | KKLVEQAMLASGEPMLLQECRSTKRLGGS | MGAVTKRPHLS | —— |
| NtEDR1-17 | GQKKRLSWQKRLNMLRDICRGLMCLHRMKI | —— | √ |
| NtEDR1-18 | LLKKLHLMPNESVDSEGSTSSAKTKRLSDTAERRSRFRESSTGNESPSSSNNSEKQIKAEERRSRFRESSTGNESPSSSNNSEKQIKAEKG | —— | —— |

“√” represents protein has transmembrane helices.