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| **Supplemental Table 2. Summary of the *EDR1-like*genes in different plant species** |
| Species | Gene Name | Locus | Number ofEDR1s | Species | Gene Name | Locus | Number ofEDR1s |
| Arabidopsis | *AtEDR1-1* | At1g08720.1 | 12 | Tobacco | *NtEDR1-1A* | —— | 19 |
| *AtEDR1-2* | At5g11850.1 | *NtEDR1-1B* | —— |
| *AtEDR1-3* | At1g73660.1 | *NtEDR1-2* | —— |
| *AtEDR1-4* | At1g18160.1 | *NtEDR1-3* | —— |
| *AtEDR1-5* | At5g03730.1 | *NtEDR1-4* | —— |
| *AtEDR1-6* | At5g03730.2 | *NtEDR1-5* | —— |
| *AtEDR1-7* | At4g24480.1 | *NtEDR1-6* | —— |
| *AtEDR1-8* | At2g31010.2 | *NtEDR1-7* | —— |
| *AtEDR1-9* | At2g31010.1 | *NtEDR1-8* | —— |
| *AtEDR1-10* | At3g58640.2 | *NtEDR1-9* | —— |
| *AtEDR1-11* | At3g58640.1 | *NtEDR1-10* | —— |
| *AtEDR1-12* | At2g42640.1 | *NtEDR1-11* | —— |
| Rice | *OsEDR1-1* | Os03g06410.1 | 14 | *NtEDR1-12* | —— |
| *OsEDR1-2* | Os06g12590.1 | *NtEDR1-13* | —— |
| *OsEDR1-3* | Os02g50970.1 | *NtEDR1-14* | —— |
| *OsEDR1-4* | Os10g29540.1 | *NtEDR1-15* | —— |
| *OsEDR1-5* | Os02g12810.1 | *NtEDR1-16* | —— |
| *OsEDR1-6* | Os02g32610.3 | *NtEDR1-17* | —— |
| *OsEDR1-7* | Os02g32610.2 | *NtEDR1-18* | —— |
| *OsEDR1-8* | Os04g52140.1 | Tomato | *SlEDR1-1* | Solyc01g097980.3.1 | 8 |
| *OsEDR1-9* | Os09g39320.1 | *SlEDR1-2* | Solyc08g065250.3.1 |
| *OsEDR1-10* | Os02g14530.1 | *SlEDR1-3* | Solyc10g083610.2.1 |
| *OsEDR1-11* | Os02g12810.3 | *SlEDR1-4* | Solyc10g085570.3.1 |
| *OsEDR1-12* | Os02g12810.2 | *SlEDR1-5* | Solyc09g009090.3.1 |
| *OsEDR1-13* | Os01g48330.1 | *SlEDR1-6* | Solyc04g076480.3.1 |
| *OsEDR1-14* | Os02g32610.4 | *SlEDR1-7* | Solyc07g055130.3.1 |
|  |  |  |  | *SlEDR1-8* | Solyc02g076780.3.1 |

The protein sequences of *EDR1-like*genes in each species is presented in Supplementary Materials (Arabidopsis in Supplementary file 1; tobacco in Supplementary file 2; tomato in Supplementary file 3; and rice in Supplementary file 4).