Supplementary Material

Extremophiles as a Model of a Natural Ecosystem: Transcriptional Coordination of Genes Reveals Distinct Selective Responses of Plants Under Climate Change Scenarios

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**Supplementary Table 4.** Primer pairs used in qRT-PCR reactions for the validation of RNA-seq data analyses.

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| **Tissue** | **Putative homologous gene symbol in the reference species** | **Putative homologous gene name in the reference species** | **Left Primer sequence** | **Right Primer sequence** | **Annealing temperature (°C)**  |
| Leaf | PRS7 | PRS7\_PRUPE - 26S protease regulatory subunit 7 | ATCGCAAGGTTGAGTTTGGG | AGTGGAATTTGGGCAAAGGC | 60 |
| Leaf | PGMC | PGMC\_POPTN - Phosphoglucomutase, cytoplasmic | TTTTCTCTGTGCAGCCGTAC | GAAGCCACGCAAATAACAAGC | 60 |
| Leaf | DSP8 | Putative dual-specificity protein phosphatase DSP8 | AACGGCTCCTGGATGAATCTC | GAGAAGAAAGCTCGCATTGTGG | 60 |
| Leaf | RGAP7 | RGAP7\_ARATH - Rho GTPase-activating protein 7 | AGGTCAGCTATTGCAACGTG | TGCTGTCGCGTCAAGATTAG | 60 |
| Leaf |  4CLL9 |  4CLL9\_ARATH - 4-coumarate--CoA ligase-like 9 | TGCTTCAGATGGATGGCTAAGG | AACAAGGCCTCTAGTTCTGCTG | 60 |
| Root | Sphinganine | Sphinganine C4-monooxygenase 1  | GCACATCCATTCTCTGCATCAC | GGCTCCACCAATTGTATCAAGC | 60 |
| Root | At3g53170 | Pentatricopeptide repeat-containing protein At3g53170 | TGAAGGAAGGAATGCAGCTG | AACCAGGTGGATTTCATGCC | 60 |
| Root | At3g61590 | F-box/kelch-repeat protein At3g61590  | GATGTTTTTGCTGGCAGTGG | TGGGGCACTTTTTGTCACTG | 60 |
| Root | ubiquinone | NADH dehydrogenase [ubiquinone] iron-sulfur protein 2 | AACAAGAAGGCGAGCTGATC | AAGCCTCAAAAAGCGAAGGC | 60 |
| Root |  OGG1 | N-glycosylase/DNA lyase OGG1 | CCCACAGCTTGTTTCCCTTATC | TGTGGCAAGTAAGGAGTCTCAG | 60 |