Supplementary table

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|  | Table S1. Gene expression analysis studies performed on sunflower during 2004-2022 |
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| No. | Experiment type | Tissue | Treatment | No. of target gene evaluated | No of Genotypes for real-time PCR | Reference gene | Reference |
| 1 | RNAseq-Field condition | Leaf | Anthesis and 12 days after anthesis | 16 | one | *EF-1α* |  (1) |
| 2 | Field experiment | Leaves n. 10 and 20 | With accumulation of degree days from emergence (°Cd) between 432 to 861 and 670 to 1180, for leaves 10 and 20 respectively | 12 | 1 | *EF-1α* |  (2) |
| 3 | RNAseq-Green house | root | Inoculation with Verticillium vs Control | 18 | one | *18S rRNA* | (3) |
| 4 | RNAseq-Field condition | Disc florets and bracts | Inoculation with Sclerotinia vs control | 47 | three | *Actin* | (4) |
|  |  |  |  |  |  |  |  |
| 5 | Greenhouse | leaves | Salt stress | 1 | 2 | *Actin* | (5) |
| 6 | RNAseq-Greenhouse | leaves and roots | under drought stress | 5 | 1 | *Actin* | (6) |
| 7 | cDNA microarray-Greenhouse | Whole plant | Drought and salt tolerance | 9 | 3 | No reference gene-used | (7) |
| 8 | cDNA microarray-Greenhouse | Leaves and stem at two- and four-leaf stages | Cold stress | 11 | 2 | *b-Actin* | (8) |
| 9 | Field experiment | Seed | Developmental stages | 8 | 1 | *β-tubulin* | (9) |
| 10 | Green house | sprouts | Different germination time points and tissues. | 5 | 1 | *ETIF5A* and *Actin 7* |  (10) et al., 2019 |
| 11 | Normal conditions | Pistil-stamen-leaves root-seed | Developmental stages | 8 | 1 | Actin7 | (11) |
| 12 | Greenhouse | Leaves | Dehydration stress | 3 | 2 | NA | (12) |
| 13 | Green house | Leaves | Salt and drought stress | 55 | 1 | *Actin* | (13) |
| 14 | Greenhouse | Cotyledons | - | 1 | 1 | *Actin* | (14) |
| 15 | RNAseq-greenhouse | root, young leaf, mature leaf, shoot, stamen, pistil, seed, ligule | Drought stress, Salt stress-GA3-ABA | 13 | 1 | *Actin* | (15) |
| 16 | Greenhous | Leaves | UV-Heavy metal stresses | 1 | 1 | *Actin* | (16) |
| 17 | Greenhouse | Leaves | Gene transformation | 4 | 1 | *Actin2/8* |  (17) |
| 18 | Greenhouse | leaves | Drought-Crowding. Simulated herbivory | 23 | 1 | *Actin* and *60S* *ribosomal RNA*  | (18) |
| 19 | Greenhouse | Leaves | Water stress | 4 | 6 | *Actin* | (19) |
| 20 | Greenhouse | Leaves | Inoculation with sclerotinia | 1 | 2 | *Actin* |  (20) |
| 21 | Greenhouse-RNAseq | Leaves | Salinity stress | 1 | 11 | *Actin* | (21) |
| 22 | RNAseq | root | arbuscular mycorrhizal fungi | 2 | 1 | E3 ubiquitin-ligase BRE1-like 1mitochondrial ubiquitin ligase activator of NFKB 1 | (22) |

Rafarances

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