Table S1: P-values of Turkey’s HSD test to compare plant traits among GL-3 and transgenic plants exposed to control and long-term drought stress conditions.

|                      | Plant height | Root hydraulic conductivity | Shoot hydraulic conductivity | Leaf area | Thickness of leaf | Water holding capacity | δ¹³C ‰ |
|----------------------|--------------|-----------------------------|-------------------------------|-----------|-------------------|------------------------|-------|
| Treatment            | <0.001       | <0.001                      | <0.001                        | 0.023     | <0.001            | 0.001                  | <0.001|
| Transgenic plants    | <0.001       | <0.001                      | <0.001                        | <0.001    | <0.001            | <0.001                 | <0.001|
| Treatment × Transgenic plants | 0.045 | 0.009                      | 0.020                         | 0.024     | 0.041             | 0.048                  | 0.027 |

|                      | Internode length of shoots | Dry weight of shoots | Net photosynthesis rate | Transpiration rate | Stomatal conductance | Dry weight of roots | ABA content |
|----------------------|---------------------------|---------------------|------------------------|-------------------|---------------------|---------------------|-------------|
| Treatment            | <0.001                    | <0.001              | <0.001                 | <0.001            | <0.001              | <0.001              | <0.001      |
| Transgenic plants    | <0.001                    | <0.001              | <0.001                 | <0.001            | <0.001              | <0.001              | <0.001      |
| Treatment × Transgenic plants | 0.026 | <0.001                      | 0.045                   | 0.047             | 0.044               | 0.044               | 0.041       |