**S1 Table. ALDH family members identified in plants.** Tomato ALDH members of the different families have been compared to ALDH families previously identified in seventeen species of plants (monocots and dicots), algae, and mosses.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Specie** | **Common name** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** | **21** | **22** | **23** | **24** | **ALDH number** | **Reference** |
| *Solanum lycopersicum* | Tomato | 8 | 5 | - | 2 | 1 | 2 | - | - | 2 | 4 | 1 | - | - | - | - | - | 2 | 1 | - | - | 1 | - | - | 29 | Current study |
| *Arabidopsis thaliana* | Thale cress | 3 | 3 | - | 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 16 | [11] |
| *Oryza sativa* | Asian rice | 5 | 5 | - | 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 20 | [8] |
| *Zea mays* | Maize | 6 | 5 | - | 2 | 1 | 1 | - | - | 3 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 23 | [14] |
| *Glycine max* | Soybean | 5 | 1 | - | - | - | 4 | - | - | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | [15] |
| *Setaria italica* | Foxtail Millet | 6 | 4 |  | 1 | 1 | 1 |  |  | 2 | 1 | 1 |  |  |  |  |  | 2 |  |  |  | 1 |  |  | 20 | [49] |
| *Chlamydomonas reinhardtii* | Unicellular green algae | 1 | - | - | 1 | 1 | - | - | - | 1 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 | 9 | [12] |
| *Physcomitrella patens* | Moss | 2 | 5 | - | 2 | 1 | 1 | - | - | 1 | 5 | 1 | - | - | - | - | - | 1 | - | - | 1 |  | 1 | - | 21 | [12] |
| *Populus trichocarpa* | Black cottonwood | 4 | 6 | - | 1 | 4 | 2 | - | - | 2 | 3 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 26 | [25] |
| *Selaginella moellendorffii* | Gemmiferous Spikemoss | 6 | 2 | - | 1 | 1 | 1 | - | - | 1 | 6 | 1 | - | - | - | - | - | 1 | - | - | 1 | 1 | 2 | - | 24 | [10] |
| *Sorghum bicolor* | Sorghum | 5 | 4 | - | 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 19 | [59] |
| *Gossypium raimondii* | New World Cotton | 8 | 6 | - | 1 | 3 | 1 | - | - | 2 | 3 | 1 | - | - | - | - | - | 4 | - | - | - | 1 | - | - | 30 | [60] |
| *Malus domestica* | Apple | 13 | 7 | - | 2 | 2 | 2 | - | - | 2 | 3 | 2 | - | - | - | - | - | 4 | - | - | - | 2 | - | - | 39 | [17] |
| *Eutrema parvulum* | Algae | 3 | 3 | - | 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 16 | [7] |
| *Eutrema salsugineum* | Algae | 3 | 4 | - | 1 | 1 | 1 | - | - | 2 | 1 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 16 | [7] |
| *Vitis vinifera* | Common wine grape  | 5 | 4 | - | 3 | 3 | 2 | - | - | 2 | 2 | 1 | - | - | - | - | - | 2 | - | - | - | 1 | - | - | 25 | [16] |
| *Volvox carteri* | Colonial green algae | 1 | - | - | - | 1 | - | - | - | 1 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | 1 | - | - | 7 | [61] |
| *Ostreococcus tauri* | Unicellular green algae | - | 1 | - | 1 | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | 6 | [12] |

**S1 Table References**

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