

Table S1. Gene IDs, FPKM values and description of studied tomato genes

| Gene name | gene_id | EF11_fpk | EF12_fpk | EF13_fpk | TS11_fpk | TS12_fpk | TS13_fpk | gene_description |
|-----------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| SISOD1 | Solyc01g067740.3 | 448.56751 | 446.59430 | 463.43330 | 331.48452 | 347.65204 | 342.52133 | Superoxide dismutase [Cu-Zn] |
| SISOD2 | Solyc03g062890.3 | 29.01893 | 27.90811 | 26.16470 | 24.70896 | 22.47509 | 22.37868 | Superoxide dismutase [Cu-Zn] |
| SISOD3 | Solyc11g066390.2 | 9.08400 | 7.91218 | 10.72026 | 7.11807 | 6.09904 | 5.81553 | Superoxide dismutase [Cu-Zn] |
| SISOD4 | Solyc06g049080.3 | 6.50419 | 4.90908 | 5.89756 | 5.01548 | 5.91226 | 4.92984 | Superoxide dismutase |
| SISOD5 | Solyc02g021140.3 | 6.15503 | 6.50376 | 5.05900 | 5.15732 | 4.42608 | 5.83149 | Superoxide dismutase |
| SIPOD1 | Solyc02g094180.3 | 48.72335 | 36.97092 | 36.50255 | 76.79540 | 60.64533 | 59.68233 | Peroxidase |
| SIPOD2 | Solyc03g006700.3 | 218.56448 | 239.24662 | 285.84045 | 86.86441 | 89.11802 | 90.69898 | Peroxidase |
| SIPOD3 | Solyc01g105070.3 | 126.74108 | 114.17754 | 121.28762 | 185.09615 | 176.65271 | 216.84451 | Peroxidase |
| SIPOD4 | Solyc02g092580.3 | 64.64953 | 95.06073 | 145.87857 | 27.93424 | 36.77283 | 43.29667 | Peroxidase |
| SIPOD5 | Solyc02g080530.3 | 17.96198 | 14.62106 | 12.64441 | 41.91736 | 39.17786 | 30.16424 | Peroxidase |
| SIPOD6 | Solyc06g050440.3 | 36.22965 | 22.18126 | 35.64250 | 25.87795 | 20.57830 | 17.13083 | Peroxidase |
| SIPOD7 | Solyc01g105080.3 | 21.83308 | 21.79012 | 15.14909 | 6.21236 | 8.26636 | 9.52840 | Peroxidase |
| SIPOD8 | Solyc05g046010.3 | 26.21871 | 22.74811 | 25.32185 | 3.26562 | 1.11619 | 1.47700 | Peroxidase |
| SIPOD9 | Solyc04g080330.3 | 0.49917 | 0.74384 | 0.50972 | 1.61568 | 1.22281 | 1.70741 | Peroxidase |
| SIPOD10 | Solyc08g013930.3 | 9.54189 | 5.05332 | 3.33519 | 2.56233 | 2.47582 | 0.61511 | Peroxidase |
| SIPOD11 | Solyc11g010120.2 | 0.37292 | 0.38701 | 0.24083 | 2.07349 | 2.14531 | 1.82663 | Peroxidase |
| SIPOD12 | Solyc02g090450.3 | 1.50368 | 1.04570 | 0.60067 | 0.51250 | 0.39812 | 0.61392 | Peroxidase |
| SIPOD13 | Solyc01g006310.3 | 6.98712 | 5.36468 | 2.50683 | 0.05691 | 0.23342 | 0.23681 | Peroxidase |
| SIPOD14 | Solyc12g017870.2 | 5.33645 | 1.31860 | 0.77496 | 0.55160 | 0.47859 | 0.83864 | Peroxidase |
| SIPOD15 | Solyc05g055320.3 | 2.67875 | 0.34750 | 0.31800 | 0.11840 | 0.02023 | 0.26686 | Peroxidase |
| SIPOD16 | Solyc08g007150.1 | 0.37350 | 0.45221 | 0.26801 | 2.18275 | 2.74977 | 3.24377 | Peroxidase |
| SICAT1 | Solyc12g094620.2 | 186.28040 | 320.63482 | 258.48509 | 79.61381 | 81.75255 | 88.24423 | Catalase |
| SICAT2 | Solyc02g082760.3 | 55.97176 | 38.87128 | 33.74296 | 58.31213 | 49.42587 | 46.31250 | Catalase |
| SICAT3 | Solyc04g082460.3 | 5.14081 | 4.37003 | 5.79763 | 5.44910 | 4.83048 | 4.99193 | Catalase |
| SICAT4 | Solyc01g100630.2 | 4.64309 | 5.44163 | 4.43746 | 13.71431 | 12.13003 | 12.68132 | Catalase |
| SICAT5 | Solyc01g100640.3 | 5.49826 | 7.85749 | 5.33588 | 12.91309 | 15.92629 | 13.33907 | Catalase |
| SICAT6 | Solyc01g099420.2 | 7.00994 | 3.63742 | 6.60192 | 14.04569 | 13.68230 | 13.69801 | Catalase |
| SIAPX1 | Solyc06g005160.3 | 375.41020 | 350.60266 | 374.24378 | 232.24362 | 233.82625 | 247.79291 | Cytosolic ascorbate peroxidase 1 |
| SIAPX2 | Solyc06g005150.3 | 144.03762 | 127.37989 | 135.74180 | 115.09925 | 116.21231 | 119.78593 | Ascorbate peroxidase |
| SIAPX3 | Solyc08g059760.3 | 3.56607 | 3.54500 | 2.26257 | 3.98630 | 3.74049 | 3.63823 | Putative L-ascorbate peroxidase 6 |
| SIAPX4 | Solyc02g083630.3 | 1.61150 | 1.25430 | 1.50325 | 3.04058 | 2.95225 | 2.15532 | L-ascorbate peroxidase 5 |
| SIGR1 | Solyc09g065900.3 | 3.69941 | 4.60705 | 4.93132 | 5.78741 | 5.87593 | 5.21968 | Glutathione reductase |
| SIACC1 | Solyc02g091990.3 | 15.29206 | 14.73305 | 16.96472 | 80.76707 | 86.53897 | 70.17891 | 1-aminocyclopropane-1-carboxylate synthase 3 |
| SIACC2 | Solyc07g049530.3 | 71.55908 | 75.63396 | 99.19927 | 26.81789 | 25.50894 | 29.15183 | 1-aminocyclopropane-1-carboxylate oxidase 1 |
| SIACC3 | Solyc01g095080.3 | 17.69407 | 22.01771 | 30.05312 | 13.63371 | 21.41859 | 16.41428 | 1-aminocyclopropane-1-carboxylate synthase 2 |
| SIACC4 | Solyc08g081540.3 | 9.76631 | 6.55051 | 5.88121 | 24.22476 | 25.38842 | 21.10919 | 1-amino-cyclopropane-1-carboxylate synthase |
| SIACC5 | Solyc07g026650.3 | 6.35554 | 23.31401 | 13.44387 | 0.53060 | 0.54408 | 0.45997 | 1-aminocyclopropane-1-carboxylate oxidase |
| SIACC6 | Solyc07g049550.3 | 9.72104 | 14.96987 | 11.95783 | 0.85272 | 0.92039 | 0.70030 | 1-aminocyclopropane-1-carboxylate oxidase 4 |
| SIACC7 | Solyc02g036350.3 | 0.67052 | 0.95680 | 0.40596 | 0.12595 | 0.12915 | 0.34940 | 1-aminocyclopropane-1-carboxylate oxidase |
| SICesA1 | Solyc12g056580.2 | 214.76295 | 250.79047 | 275.55819 | 316.97277 | 323.27324 | 316.53304 | Cellulose synthase |
| SICesA2 | Solyc04g071650.3 | 224.51724 | 256.21490 | 353.52309 | 157.23050 | 184.18652 | 170.80330 | Cellulose synthase |
| SICesA3 | Solyc01g087210.3 | 170.87477 | 211.30855 | 248.50783 | 232.48734 | 231.56319 | 219.85547 | Cellulose synthase |
| SICesA4 | Solyc08g061100.3 | 187.61640 | 234.18387 | 250.79615 | 158.01920 | 174.42114 | 166.91438 | Cellulose synthase |
| SICesA5 | Solyc02g072240.3 | 3.47553 | 4.68892 | 4.65526 | 4.33306 | 6.02994 | 3.58187 | Cellulose synthase |
| SICesA6 | Solyc07g005840.2 | 0.46450 | 0.85286 | 0.82685 | 0.69803 | 1.17458 | 0.78199 | Cellulose synthase |