Tab. S5. Putative genes corresponding to key enzymes in sucrose and starch metabolism

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Enzymes | Number of genes | Homologue ID | Gene ID | FPKM value |
| Formation stage | Initial swelling stage | Rapid swelling stage | Maturation stage |
| β-Amylase | 2 | β-AMY1β-AMY2 | ***c62599.graph\_c1***c62599.graph\_c0 | 1.420 | 0.400 | 10.22 | 0.780.62 |
| Invertase | 6 | INV1INV2INV3INV4INV5INV6 | c97994.graph\_c3***c87855.graph\_c0***c103826.graph\_c0c101131.graph\_c0c44649.graph\_c0c61341.graph\_c0 | 14.595.711.104.140.440.57 | 14.228.360.875.3000 | 59.3946.682.3717.3600 | 26.9515.584.315.8100.28 |
| Sucrose phosphate synthase | 10 | SPS1SPS2SPS3SPS4SPS5SPS6SPS7SPS8SPS9SPS10 | ***c91035.graph\_c1***c84397.graph\_c1c163996.graph\_c0c101027.graph\_c0c78039.graph\_c0c91035.graph\_c0c84397.graph\_c2c103258.graph\_c0c66639.graph\_c0c102171.graph\_c0 | 0.873.29040.743.230.364.8342.5200.82 | 1.274.800.3099.573.210.924.5192.640.346.31 | 0.395.45041.633.240.286.1976.5303.47 | 2.198.750.26144.25.761.674.73184.2014.88 |
| Sucrose synthase | 1 | SuSy | ***c93394.graph\_c2*** | 55.73 | 132.8 | 44.37 | 67.68 |
| Starch branching enzyme | 10 | SBE1SBE2SBE3SBE4SBE5SBE6SBE7SBE8SBE9SBE10 | c94559.graph\_c0c164483.graph\_c0c130587.graph\_c0***c78179.graph\_c0***c141987.graph\_c0c101693.graph\_c0c168688.graph\_c0c101577.graph\_c0c123622.graph\_c0c177432.graph\_c0 | 35.1701.0600410.5903.3900.26 | 33.360.8800.060361.50.849.6500 | 32.340000.14238.706.810.40 | 38.89003.33090.3107.600 |
| ADPG pyrophosphorylase | 8 | APGase1APGase2APGase3APGase4APGase5APGase6APGase7APGase8 | c163904.graph\_c0c87667.graph\_c1c173485.graph\_c0c74641.graph\_c0***c93923.graph\_c0***c91512.graph\_c0c75933.graph\_c0c74834.graph\_c0 | 0.471.430.371.79188.08791.121.193.64 | 02.1700.2218.1538.40.091.51 | 02.6900.13530.4613510.072.16 | 02.2700.12297.8536.20.622.19 |

Note: Genes in bold and italic were selected for qRT-PCR.