

Table S1. Statistical differences in gene expression levels of various genes between samples using the Mann-Whitney U test. The upper table presents the p-values obtained using individual buds. The lower table shows the number of experiments with significant differences after pooling S3 samples using different p-values as cut-offs.

#### INDIVIDUAL BUDS

Comparations	<i>PpeDAM1</i>	<i>PpeDAM3</i>	<i>PpeDAM4</i>	<i>PpeDAM5</i>	<i>PpeDAM6</i>	<i>PpeSAP1</i>	<i>TIP-like</i>	<i>TOR-like</i>	<i>SWEET15-like</i>	<i>AOC-like 1</i>	<i>AOC-like 2</i>	<i>LOX-like</i>	<i>PpeFT</i>
S1 vs S2	0,0115	0,8534	4,3E-05	0,0232	0,4359	0,0232	0,5288	0,0052	0,0015	0,0052	0,1431	0,0015	1,3E-04
S1 vs S3	4,4E-05	1,3E-04	4,1E-06	9,5E-06	8,2E-07	1,5E-05	0,0127	0,0009	8,1E-05	0,0017	0,0590	0,5903	0,1178
S1 vs S4	1,1E-05	0,0288	1,8E-04	1,1E-05	1,1E-05	1,1E-05	3,2E-04	0,1051	1,1E-05	7,6E-05	0,0089	1,1E-05	0,9118
S2 vs S3	0,0084	1,2E-04	0,0098	6,5E-07	1,0E-06	0,0060	4,7E-05	0,7143	0,1704	0,6204	0,6824	1,0E-04	8,8E-05
S2 vs S4	2,1E-04	0,0007	0,0046	1,1E-05	1,1E-05	0,0115	1,1E-05	0,0892	1,1E-05	4,9E-04	4,3E-05	1,1E-05	2,1E-04
S3 vs S4	0,6719	1,2E-05	0,9362	1,7E-04	1,2E-06	0,3696	2,2E-04	0,0286	3,6E-07	9,7E-05	8,3E-06	7,6E-07	0,0636

$p < 0,05$
$p < 0,01$
$p < 0,001$

#### ARTIFICIAL POOLED BUDS

Comparations	<i>PpeDAM1</i>	<i>PpeDAM3</i>	<i>PpeDAM4</i>	<i>PpeDAM5</i>	<i>PpeDAM6</i>	<i>PpeSAP1</i>	<i>TIP-like</i>	<i>TOR-like</i>	<i>SWEET15-like</i>	<i>AOC-like 1</i>	<i>AOC-like 2</i>	<i>LOX-like</i>	<i>PpeFT</i>
S1 vs pool S3	999	1000	1000	1000	1000	1000	998	1000	1000	1000	0	0	999
S2 vs pool S3	979	1000	941	1000	1000	999	1000	0	973	17	241	1000	1000
pool S3 vs S4	958	1000	4	1000	1000	1	976	982	1000	997	989	1000	993

Table S2. Hartigan's test for assessing bimodality in S3 samples using the R package 'dipTest'. The p value associated to the Hartigan's test for each gene is shown.

Genes	Hartigans' dip test p-value
<i>PpeDAM1</i>	0.9908
<i>PpeDAM3</i>	0.8038
<i>PpeDAM4</i>	0.9612
<i>PpeDAM5</i>	0.8157
<i>PpeDAM6</i>	0.988
<i>PpeSAP1</i>	0.9902
<i>TIP-like</i>	0.9819
<i>TOR-like</i>	0.9461
<i>SWEET15-like</i>	0.9868
<i>AOC-like 1</i>	0.9858
<i>AOC-like 2</i>	0.9686
<i>LOX-like</i>	0.9831
<i>PpeFT</i>	0.9228

Table S3. Primers used in this study.

Gene	forward	reverse	Reference
<i>SAND-like</i>	TCGTGGGTACCAGGAAAACGACAT	CCTGCTAGCTTGTGTCATCTCCA	[37]
<i>PpeDAM1</i>	GGGGACGATGAAAATGACGAGGGAG	GTGGTGGAGGTAGCAGATTCAGAT	[60]
<i>PpeDAM3</i>	ACCAGCTAAGGCAGACGATGA	GAGGGAGAGAGACTGAGAGCA	[60]
<i>PpeDAM4</i>	TGTGGCACTTGAGAAAAAGGGA	CAGGTTACTTTCCCCAGGCCAC	[60]
<i>PpeDAM5</i>	CCCCGAAACCCACGAACGAAGATG	CAGCACTGTTGCAGGTGGTG	[60]
<i>PpeDAM6</i>	CCAACAACCAGTTAAGGCAGAAGA	GGAAGCCCCAGTTTGAGAGA	[24]
<i>PpeSAP1</i>	ACACAGGCTTCCTCTACTCCATCTTT	GAACCCCTCATTCCGAGACATTATCAG	[37]
<i>TIP-like</i>	AGTTGTTGCTTGCTTGCTACTCAAG	GCACCAACAATCAAACCAATTGCGA	[37]
<i>TOR-like</i>	GCAGTACCAAAGAAGATTGGGCAGA	GCAAAATACTCGCGCCCAACAAAT	[37]
<i>SWEET15-like</i>	TTCCAATCGGTGCCATATCTGGTAG	GAAGAGCCCCACGTTTCATAAAACCA	[60]
<i>AOC-like 1</i>	ACAAGATCTACTCTGGGGACTTGG	AAGCTGTAGACTGCCTCGTACCTG	This work
<i>AOC-like 2</i>	GTTAATCTCTTGAAGACCTCGTC	GAAGCTGTAAATAGCCTCATATCG	This work
<i>LOX-like</i>	CAGTGTCACGGTGACCACAA	CGCTAACAAGCTCCAAAAGAAGTG	This work
<i>PpeFT</i>	GGAGGTTAACAATGGTTGCGAG	TCCTTAAGGTTGGGGTCACTTG	This work