

Supplementary Table 4. Coexpression of gene families.

Average of Pearson correlation coefficients (PCC) and number of members of families shown in Fig. 5b.

Gene family (above 95 th percentile)	# Genes	PCC
2-oxoglutarate/malate translocator precursor-like	3	0.68878
60S ribosomal L19 proteins	3	0.84566
AAAP family	39	0.11361
AAA-type ATPases	3	0.59611
ABC Superfamily: ATH subfamily	16	0.12377
ABC superfamily: MRP subfamily	12	0.20237
ABC Superfamily: SMC subfamily	4	0.82877
ABC transporter-like	24	0.07917
ACA	13	0.11736
ACBP60s	7	0.20314
Acetyl-CoA carboxylase	4	0.68750
Acyl-CoA Oxidase	6	0.41159
Adenine phosphoribosyltransferase 1 APRT family	3	0.46421
AGC Family: AGC1 subfamily	17	0.14706
Amino acid permease family	23	0.07933
Arabidopsis ARIADNE gene family	13	0.33223
AS2 family	26	0.08986
AtCBLs (Calcineurin B-like Calcium Sensor Proteins)	9	0.18554
AtCIPKs	25	0.23833
ATP Citrate Lyase subunit B	2	0.79335
AtStr	18	0.18219
AUX1 family	4	0.44482
axi 1-like family	6	0.21492
Beta-hydroxyacyl-ACP dehydratase family	2	0.87756
beta-keto-Coa synthase family	14	0.13955
Ca ²⁺ -transporting ATPase-like protein family	11	0.11306
Calcium Dependent Protein Kinase	32	0.09901
Caleosin	6	0.35082
Calnexin homolog family	2	0.76830
Carbohydrate Esterase Family 13	11	0.15808
Carbohydrate Esterase Family 8	52	0.06846
Cation-chloride co-transporter family	2	0.78255
CDPKs	32	0.09901
Cell division protein FtsH-like protein family	14	0.16016
Chlorophyll a/b-binding protein family	13	0.85047
Class III peroxidase	66	0.25959
CMP-sialic acid transporter-like protein family	2	0.88042
Core Cell Cycle Genes: CDKs	11	0.29787
Core Cell Cycle Genes: cyclins	27	0.59289
Core Cell Cycle Genes: DEL	2	0.68202
CRKs	3	0.39357
Cysteine synthase AtcysC1 family	3	0.46986
Cytochrome b-561 family	4	0.39614
Cytochrome P450	207	0.06176
Cytochromes b5	6	0.35260

Delta tonoplast integral protein family	29	0.07905
EICBPs	6	0.33364
eIF1 - eukaryotic initiation factor 1	4	0.32756
eIF2 - eIF2alpha eukaryotic initiation factor 2alpha	2	0.78261
eIF2C - eukaryotic initiation factor 2C	2	0.79545
eIF3d - eukaryotic initiation factor 3d	2	0.87194
eIF3g - eukaryotic initiation factor 3g	2	0.85850
eIF4A - eukaryotic initiation factor 4A	5	0.65693
eIF4B - eukaryotic initiation factor 4B	3	0.47112
Endoplasmic reticulum-type Ca-ATPase (ECA) family	3	0.56212
Fatty Acid Multifunctional Protein	2	0.63402
Fe(II) transporter isolog family	11	0.20179
Globulin-like protein family	2	0.84058
Glucan Synthase-like; AtGsl	7	0.24026
Glycine-rich protein family	3	0.96799
Glycoside Hydrolase Family 13	7	0.44074
Glycoside Hydrolase Family 16	27	0.14279
Glycoside Hydrolase Family 18	8	0.26576
Glycoside Hydrolase Family 19	13	0.24011
Glycoside Hydrolase Family 28	45	0.09509
Glycoside Hydrolase Family 32	7	0.23392
Glycoside Hydrolase Family 77	2	0.83818
Glycoside Hydrolase Family 9	21	0.11395
Glycosyltransferase- Family 1	75	0.05470
Glycosyltransferase- Family 17	5	0.25917
Glycosyltransferase Family- 31	27	0.08433
Glycosyltransferase Family- 35	2	0.87277
Glycosyltransferase Family- 48	10	0.28659
Glycosyltransferase- Family 5	4	0.55921
Heat Stress Transcription Factor (Hsf) family	21	0.16547
High affinity nitrate transporter family	7	0.18701
Inorganic phosphate transporter family	7	0.36605
Ketoacyl-CoA Synthase	20	0.16337
KEULE Gene Family	2	0.72608
Kinesin-like proteins	59	0.33636
Lateral Organ Boundaries Gene Family	26	0.08986
LeOPT1 family	49	0.09435
Lipase proteins	2	0.99186
Lipid transfer protein family	64	0.04193
Lysophospholipase	9	0.25629
MADS	5	0.77070
MADS Type I	32	0.51346
MAPKKK: Raf subfamily	47	0.06716
MAPKKKK	10	0.13555
MIP family	33	0.07104
Mitochondrial Acyl Carrier Protein	3	0.65669
MLO proteins	15	0.10140
Monosaccharide (hexoses / pentoses)-H ⁺ symporter family (plasma membrane)	14	0.12304
MTN3-like protein family	16	0.11039
MYB3R- and R2R3- type MYB- encoding genes	125	0.04906
Myotubularin-like Phosphoinositide 3-Phosphatase	2	0.79972
Nodulin-like protein family	55	0.09484
NPSN Gene Family	3	0.44400

Nuclear envelope membrane protein-like family	2	0.84913
Oleosins	13	0.49787
Oligosaccharyl transferase STT3-like family	2	0.95156
Permease 1-like family	11	0.14118
Phospholipase D	12	0.23594
Phospholipase D beta	2	0.66492
Phospholipase D: C2-PLD subfamily	10	0.19499
Plant defensins family 1	4	0.37166
Plant defensins family 3	2	0.65958
Plant U-box protein (PUB) Class II	25	0.09442
Plant U-box protein (PUB) Class III	11	0.22895
Plant U-box protein (PUB) Class IV	8	0.16559
Plant U-box protein (PUB) Class V	6	0.21819
Plant U-box protein (PUB) Class VI	2	0.78015
Plastid Lipid-associated Protein	2	0.71293
Plastidial Dihydroliipoamide Acetyltransferase; pyruvate DH complex	4	0.55291
Plastidial Hydroxyacyl-ACP Dehydrase	2	0.87756
Plastidial Lipoxygenase	4	0.48401
Plastidial Pyruvate Dehydrogenase E1 beta subunit	2	0.81061
Pollen-surface Oleosin	6	0.94996
Polysaccharide Lyase Family 1	22	0.10806
Putative endosomal protein family	12	0.61652
Putative ER lumen protein retaining receptor family	6	0.23053
Putative ligand-gated ion channel subunit family	19	0.10844
Putative monosaccharide transporter family (ERD-group = induced by early dehydration)	16	0.10867
Putative Na ⁺ /H ⁺ antiporter family	26	0.41198
Putative phosphate/phosphoenolpyruvate translocator protein family	15	0.17514
Putative phosphatidate cytidyltransferase family	2	0.72411
Putative P-type ATPase family	14	0.12719
Putative ribophorin I family	2	0.83363
Putative sugar transporter family	45	0.05258
Putative sulfate transporter family	13	0.15495
Putative tetracycline transporter protein family	3	0.39739
Receptor kinase-like protein family	288	0.04760
Respiratory burst oxidase family	10	0.32432
Response Regulator: A- Type	11	0.14574
Sac domain-containing Phosphoinositide 5-Phosphatase	9	0.32911
SAURs	5	0.29257
Stearoyl-ACP Desaturase	6	0.31581
Syntaxin	25	0.15458
TGA3-like	4	0.63874
Triacylglycerol Lipase	4	0.48576
Ubiquitin conjugating enzyme-like family	4	0.42717
UDP-galactose transporter related protein-like family	2	0.74113
Vacuolar proton-ATPase 16 kDa proteolipid family	6	0.58059
V-Type ATPase	20	0.29381
WRKY Transcription Factor	59	0.14471

Gene family (below 95 th percentile)	# Genes	PCC
14-3-3 proteins	12	0.05813
3-hydroxy-3-methylglutaryl-CoA reductase family	2	0.08970
3-hydroxyisobutyryl-coenzyme A hydrolase family	3	0.29645

4CL (4-coumarate:CoA ligase)	13	0.01970
ABC Superfamily: GCN subfamily	5	-0.02468
ABC Superfamily: MDR subfamily	17	-0.02098
ABC superfamily: NAP subfamily	14	0.07109
ABC Superfamily: RLI subfamily	2	0.14143
ABC Superfamily: TAP subfamily	2	0.38340
ABC Superfamily: WBC subfamily	28	0.04630
Acetyl-CoA Synthetase	3	-0.08005
Actin	8	0.11357
Acyl Lipid Metabolism Family: Translocase	12	0.10700
Acyl-ACP Thioesterase	3	-0.01066
Acyl-Ceramide Synthase	2	-0.66866
Acyl-CoA : Diacylglycerol Acyltransferase	2	0.02701
Acyl-CoA Binding Protein	4	-0.05987
Acyl-CoA Desaturase-like	6	0.07793
Acyl-CoA Thioesterase	3	0.24201
Adenylate translocator (brittle-1)-like family	11	0.04117
α -Dioxygenase-Peroxidase (involved in FA α -oxidation)	2	0.37725
ADP-ATP carrier-like Protein family	4	0.00445
AGC Family: AGC2 subfamily	6	-0.06147
AGC family: NDR subfamily	8	0.02461
AGC Family: S6K subfamily	2	0.22847
Alcohol-forming Fatty Acyl-Coenzyme A Reductase	8	0.07491
Aldehyde dehydrogenase (ALDH) superfamily	14	0.08111
Aldose 1-epimerase - like family	2	-0.14526
Allene Oxide Cyclase	3	0.05021
Alpha/beta hydrolase family	4	0.20187
Alpha-Expansin Gene Family	23	0.04514
α -Ketoacid Decarboxylase E1 α subunit; branched chain α -ketoacid dehydrogenase complex	2	0.18834
α -Ketoacid Decarboxylase E1 β subunit; branched chain α -ketoacid dehydrogenase complex	2	0.40762
Alternative oxidase family	5	0.14133
Amino acid transport protein family	3	0.11754
Aminoalcoholphosphotransferase family	2	-0.62121
Ammonium transporter family	5	0.16855
AMP-binding protein; putative family	2	0.33056
Anion channel protein family	5	0.18669
Ankyrin-like protein family	11	0.07724
Arabidopsis COBRA	11	-0.01637
AtMRS2	9	0.12106
ATP Citrate Lyase subunit A	3	0.20781
AtRER1C family	4	0.13829
AtTPS trehalose-6-phosphate synthase	10	0.09985
Auxin transport protein family	8	-0.00887
Bax inhibitor-1 / TEGT protein homolog family	8	-0.04821
Beta-1,3-glucanase family	5	-0.11972
Beta-carotene hydroxylase family	2	0.53890
BETA-EXPANSINS	5	0.02752
Bifunctional Wax Ester Synthase / DAGAT	5	-0.01716
Blue copper binding protein family	21	0.03340
C3H (p-Coumarate 3-hydroxylase); Cytochrome P450	3	0.26136
CAD (Cinnamyl alcohol dehydrogenase)	8	-0.02428
Cadmium-transporting ATPase-like family	2	0.22282

Calmodulin-binding heat-shock - like family	3	0.09874
Carbohydrate Esterase Family 10	12	0.05749
Carnitine racemase like family	2	-0.40512
Cationic amino acid transporter 1 family	5	-0.12528
CB-HSPs	3	0.09874
CCoAOMT (Caffeoyl-CoA 3-O-methyltransferase)	7	0.04334
CCR (Cinnamoyl CoA reductase)	2	0.46843
CCR-like	5	-0.07593
Cellulose Synthase	22	0.05881
CER1 Protein involved in wax synthesis	5	0.01297
CER2 family	3	0.16045
Choline Kinase	4	0.22544
Cinnamyl alcohol dehydrogenase family	3	0.22887
CNGCs	19	0.06001
COMT-like	12	0.05459
Copper transport protein-like family	5	-0.02854
Core Cell Cycle Genes: CKS	2	0.43540
Core Cell Cycle Genes: DP	2	0.30348
Core Cell Cycle Genes: E2F	3	0.33882
Core Cell Cycle Genes: KRP	6	0.05162
CTP	3	-0.05553
Cyclic nucleotide gated channel family	19	0.06001
Cyclopropane Fatty Acid Synthase	2	0.04227
Cytochrome c putative family	2	0.61235
Cytosolic Lipoxygenase	2	0.21785
Cytosolic Phospholipase A2	2	-0.34747
DAD1-like Acylhydrolase	12	0.07489
Delta 9 desaturase family	7	0.08928
Diacylglycerol Kinase	8	0.07458
Digalactosyldiacylglycerol Synthase	2	0.22348
Disease resistance protein family	11	0.10447
EF1Balpha - elongation factor 1Balpha	2	0.58689
eIF1A - eukaryotic initiation factor 1A	2	0.03856
eIF2Balpha - eukaryotic initiation factor 2Balpha	3	-0.12140
eIF2Bdelta - eukaryotic initiation factor 2Bdelta	2	0.39819
eIF2Bepsilon; g - eukaryotic initiation factor 2Bepsilon; 2Bgamma	3	-0.06083
eIF2beta - eukaryotic initiation factor 2beta	3	0.12008
eIF2gamma - eukaryotic initiation factor 2gamma	3	-0.07928
eIF3c - eukaryotic initiation factor 3c	2	-0.16737
eIF4E - eukaryotic initiation factor 4E	2	0.28289
eIF4G - eukaryotic initiation factor 4G	3	-0.03543
eIF5 - eukaryotic initiation factor 5	2	0.13256
eIF5A - eukaryotic initiation factor 5A	3	-0.21617
eIF5B - eukaryotic initiation factor 5B	2	-0.25923
eIF6 - eukaryotic initiation factor 6	2	0.31571
eIFiso4G - eukaryotic initiation factor 4G; isozyme form	2	-0.03646
ELO-like Elongase	3	0.11024
Epoxide Hydrolase	5	0.02175
ER 2-Lysophosphatidate Acyltransferase (LPAAT)	12	-0.00310
ER CDP-Diacylglycerol Synthetase	2	0.11908
ER Dihydroxyacetone-Phosphate Reductase	4	-0.04532
Ethylene-regulated nuclear protein ERT2-like family	2	0.46200
EXPANSIN-LIKE	5	0.19238

Fatty Acid Alcohol Oxidase	4	-0.02207
Fatty Acid Amide Hydrolase	3	-0.18894
Fatty acid desaturase family	2	0.07239
Fatty acid hydroxylase-like family	2	0.49459
Fatty Acid omega Hydroxylase	8	0.02606
F-Box Protein Subfamily	3	0.29709
FRO1-like protein; NADPH oxidase-like family	3	0.37246
Fructose-bisphosphate aldolase family	2	-0.27962
GAD	3	0.23458
Gamma-glutamyltransferase-like family	3	-0.22642
Germin-like protein family	5	0.03709
Glucosyltransferase like protein family	2	0.11185
Glycerol-3-phosphate permease like protein family	5	0.22029
Glycerophosphoryl Diester Phosphodiesterase	2	0.06719
Glycoside Hydrolase Family 1	38	0.03594
Glycoside Hydrolase Family 10	8	0.06872
Glycoside Hydrolase Family 14	8	0.11878
Glycoside Hydrolase Family 17	39	0.01395
Glycoside Hydrolase Family 20	2	0.16659
Glycoside Hydrolase Family 27	3	-0.04059
Glycoside Hydrolase Family 3	10	0.03258
Glycoside Hydrolase Family 31	5	0.02036
Glycoside Hydrolase Family 35	12	0.02153
Glycoside Hydrolase Family 36	3	-0.08460
Glycoside Hydrolase Family 38	3	-0.15669
Glycoside Hydrolase Family 47	4	-0.04863
Glycoside Hydrolase Family 5	10	0.11405
Glycoside Hydrolase Family 51	2	0.59740
Glycoside Hydrolase Family 85	2	0.12124
Glycosyltransferase- Family 10	3	0.02705
Glycosyltransferase- Family 14	9	0.07049
Glycosyltransferase- Family 2	32	0.00201
Glycosyltransferase- Family 20	10	0.06542
Glycosyltransferase Family- 28	3	0.15128
Glycosyltransferase Family- 32	3	-0.06200
Glycosyltransferase Family- 34	5	0.17151
Glycosyltransferase Family- 37	7	-0.07716
Glycosyltransferase- Family 4	17	0.00843
Glycosyltransferase Family- 41	2	0.29368
Glycosyltransferase Family- 43	3	0.34860
Glycosyltransferase Family- 47	3	-0.09214
Glycosyltransferase- Family 8	32	0.04416
GOS1 Gene Family	2	-0.04644
GPI-specific Phospholipase C	2	0.60081
Histidine Kinase	11	0.07521
Histidine Phosphotransfer Proteins	6	0.14636
Homology to DNAJ heatshock protein family	3	0.28351
HSP70s	6	0.09491
Hydroxyisobutyryl-CoA Hydrolase	3	-0.18878
Hypothetical proteins 1	3	0.21944
INDETERMINATE1-like zinc finger protein IDZ family	11	0.03028
Inner mitochondrial membrane family	3	0.02246
IRE subfamily	3	0.10785

KCO5 protein family	4	0.24322
Ketoacyl-CoA Reductase	2	0.48610
Ketoacyl-CoA thiolase	3	0.08036
Ketosphinganine Reductase	2	0.35736
Lipid Acylhydrolase-like	15	0.03139
Lipophosphoglycan biosynthetic protein - like family	2	0.43621
Long-Chain Acyl-CoA Synthetase (other than plastidial or peroxisomal)	6	-0.06024
Longin Group	13	0.03065
Low affinity calcium antiporter CAX2 family	5	0.22594
Magnesium Transporters	9	0.12106
Mandelonitrile lyase-like protein family	3	-0.15052
MAP Kinase	20	0.02909
MAP Kinase Kinase	10	0.00591
MAPKKK: MEKK subfamily	19	0.07081
MAPKKK: ZIK subfamily	10	0.06713
Membrin Gene Family	2	0.56408
Metal-transporting P-type ATPase family	3	-0.15921
Mitochondrial carrier protein family	2	-0.00738
Mitochondrial carrier protein-Ribes nigrum family	3	0.03989
Mitochondrial Dihydrolipoamide Dehydrogenase; branched chain alpha-ketoacid dehydrogenase complex	2	-0.14323
Mitochondrial Enoyl-CoA Hydratase	2	0.51300
Mitochondrial Glycerol-Phosphate Acyltransferase	3	0.13336
Mitochondrial phosphate transporter family	3	0.10276
Mitochondrial Protein Translocase (MPT) Family	6	0.03006
Monoacylglycerol Lipase	13	-0.01111
Monogalactosyldiacylglycerol Synthase	3	0.09142
Monoxygenase family	2	0.56942
Myosin-like proteins	17	0.07589
Na ⁺ /H ⁺ antiporter-Putative family	2	-0.57232
Na ⁺ -dependent inorganic phosphate cotransporter-like protein family	5	-0.07873
NADPH P450 reductases	3	0.00171
Non specific Phospholipase C	5	-0.10009
Nramp2 family	6	0.09208
Nucellin; putative family	2	-0.06396
Nucleotide sugar epimerase -like family	4	0.09238
Omega-3 fatty acid desaturase family	3	0.09933
Oxo-Phytodienoic Acid Reductase (OPR)	4	0.21905
PABP - poly(A) binding protein	9	0.06839
PAL (Phenylalanine ammonia lyase)	4	0.08511
Patatin-like Acyl-Hydrolase	11	0.09220
PCBPs	3	-0.23983
PDK-1 subfamily	2	0.38130
PDR subfamily	10	0.05330
Peroxisomal Enoyl-CoA Hydratase	2	-0.29598
Peroxisomal Long-Chain Acyl-CoA Synthetase	2	0.52754
Peroxisomal membrane protein family	2	-0.22519
P-glycoprotein-2	23	0.00140
Phosphate/triose-phosphate translocator family	7	-0.03275
Phosphatidylcholine : Diacylglycerol Acyltransferase	3	-0.28827
Phosphatidylglycerophosphate synthase-like protein family	2	0.33286
Phosphatidylinositol Phosphate Kinase type I/II A	2	0.54036
Phosphatidylinositol Phosphate Kinase type I/II B	9	0.05562

Phosphatidylinositol Phosphate Kinase type III	4	0.23936
Phosphatidylinositol Synthase	2	-0.16687
Phosphatidylinositol synthase family	2	-0.16687
Phosphatidylinositol-4-Kinase g	6	0.16274
Phosphatidylserine Decarboxylase	3	-0.14048
Phosphoethanolamine N-Methyltransferase	3	0.20907
Phospholipase D alpha	4	-0.05103
Phosphoribosylanthranilate transferase family	15	0.01807
Phytochromes	5	0.20001
Pirin-like proteins	3	-0.01578
PI-specific Phospholipase C	7	0.15902
Plant defensins family 2	6	0.08298
Plasma membrane H ⁺ -ATPase family	12	0.05068
Plastidial Acyl Carrier Protein	4	0.17225
Plastidial CDP-Diacylglycerol Synthetase	3	-0.00695
Plastidial Dihydrolipoamide Dehydrogenase; pyruvate DH complex	2	0.50022
Plastidial Ketoacyl-ACP Reductase	4	-0.05862
Plastidial Long-Chain Acyl-CoA Synthetase	3	0.08434
Plastidial Pyruvate Dehydrogenase E1 alpha subunit	2	-0.20045
PMP subfamily	2	-0.14492
Polysaccharide Lyase Family 4	4	0.06772
Potassium-dependent sodium-calcium exchanger like-family	3	-0.14664
PPI	2	0.20979
PPT1-like Thioesterase	7	0.11096
Profilin	4	0.00617
Protein N-Myristoyltransferase	2	0.31471
PTEN-like Phosphoinositide 3-Phosphatase	3	0.21021
Purine permease family	10	0.00885
Purple acid phosphatase family	2	0.20670
Putative ABC transporter	38	0.03054
Putative acyl-CoA:1-acylglycerol-3-phosphate acyltransferase family	4	-0.17273
Putative anion exchange protein family	6	-0.09719
Putative b-keto acyl reductase family	2	0.48610
Putative C-4 sterol methyl oxidase family	4	0.08999
Putative cationic amino acid transporter family	8	0.00836
Putative CDP-diacylglycerol synthetase family	3	-0.17470
Putative ethylene receptor; ERS2 family	5	0.21939
Putative expansin family	3	0.26155
Putative glucosyltransferase family	13	0.07702
Putative glutamate-/aspartate-binding peptide family	4	0.13938
Putative glutaredoxin family	4	0.25638
Putative glutathione transferase family	2	0.57730
Putative kinesin heavy chain family	3	0.38014
Putative lipase family	2	0.55111
Putative mitochondrial carrier protein family	3	-0.08252
Putative monosaccharide transporter family (homology to bacterial xylose transporters)	3	0.17767
Putative monosaccharide transporter family (large central loop)	3	-0.26832
Putative monosaccharide transporter family (plastidic localization)	4	0.00475
Putative Na ⁺ dependent ileal bile acid transporter family	5	0.11768
Putative NADH dehydrogenase family	3	-0.12496
Putative nucleoside transporter family	4	0.06855
Putative nucleotide-sugar transporter family	2	0.07744
Putative obtusifoliol 14-alpha demethylase family	2	-0.20778

Putative oligopeptide transporter ISP4-like family	9	0.00907
Putative phosphatidic acid phosphatase family	4	-0.23405
Putative polyol (cyclic)-H ⁺ symporter family (tonoplast membrane ?)	4	0.19683
Putative polyol (linear)-H ⁺ symporter family (plasma membrane ?)	5	0.00521
Putative potassium proton antiporter family	3	0.25388
Putative potassium transporter family	16	0.03943
Putative presenilin homolog family	2	0.54302
Putative protein transport protein SEC61 alpha subunit family	3	0.19271
Putative receptor protein kinase family	2	0.55283
putative RING zinc finger protein family	3	-0.28762
Putative sensory transduction histidine kinase family	2	-0.14352
Putative sterol-C5-desaturase family	2	0.25891
Putative tropinone reductase family	8	0.06808
Putative ubiquitin carboxyl terminal hydrolase family	2	-0.11961
Putative vacuolar proton-ATPase subunit 1 family	3	0.13648
Putative zinc transporter ZIP2 - like family	2	-0.00278
Receptor protein kinase-like family	4	0.23809
Receptor protein kinase-like protein family	2	-0.25491
Resistance-Nodulation-Cell Division (RND) Superfamily	2	-0.02896
Response Regulator: B- Type	10	-0.02861
Response Regulator: Pseudo	8	0.06232
Reticuline oxidase-like family	3	0.03285
RF1 - release factor 1	2	-0.60022
Sec14-like Protein	2	0.61911
Secretory carrier membrane protein family	4	-0.02344
Senescence-associated protein homolog family	11	0.05140
Signal recognition particle receptor beta subunit-like family	2	0.50250
Single gene-encoded CBPs	11	0.09583
Single Myb Histone (SMH)	5	0.07356
SNAP33 Gene Family	3	-0.07825
SNAREs: VTI1 Gene Family	3	0.07530
SNF1 related protein kinase family	3	-0.08542
Sodium proton exchanger family	4	-0.06299
Sphingolipid delta 8 Desaturase	2	0.07239
Sphingolipid Fatty Acid Hydroxylase	2	0.49459
Sphingolipid Hydroxylase	2	0.23803
Sphingosine Transfer Protein	2	0.59666
Squalene epoxidase - like family	6	-0.02200
Stelar K ⁺ outward rectifying channel (SKOR) family	9	0.03006
Subtilisin-like Serine Proteases	53	0.02014
Sucrose-H ⁺ symporters	9	0.10969
Sucrose-proton symporter family	9	0.10969
Sugar transporter family	9	0.05761
Synaptobrevin -like protein family	8	0.04583
Triticum ABA induced membrane protein family	3	-0.03890
Type II Phosphoinositide 5-Phosphatase	4	0.14566
Ubiquinol-cytochrome C reductase complex ubiquinone-binding protein (QP-C)-like family	2	0.52620
UDP-GlcNAc:dolichol phosphate N-acetylglucosamine-1-phosphate transferase-like protein family	2	-0.27305
Uncoupling protein family	4	0.22136
Vacuolar H ⁺ -pyrophosphatase family	3	0.31216
Vacuolar sorting receptor family	6	0.11566
Wax Synthase	11	0.08455

WOX gene family	9	0.02730
Xyloglucan fucosyltransferase family	3	-0.09392
Zinc transporter (ZAT) family	4	0.16244