

Supplementary data:

Gene coexpression network analysis reveals the role of *SRS* genes in leaf senescence of maize (*Zea mays* L.)

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Table 1. List of significantly correlated genes.

Gene ID	Annotation
AC148152.3_FGT005	bx13 - benzoxazinone synthesis13
AC149829.2_FGT002	Uncharacterized protein
AC155376.2_FGT004	Uncharacterized protein
AC177897.2_FGT002	Putative E3 ubiquitin-protein ligase BAH1-like
AC182482.3_FGT003	Uncharacterized protein
AC186166.3_FGT008	Uncharacterized protein
AC187843.3_FGT006	Uncharacterized protein
AC188757.4_FGT004	Uncharacterized protein
AC190772.4_FGT011	Uncharacterized protein
AC191551.3_FGT003	Uncharacterized protein
AC191654.3_FGT004	Uncharacterized protein
AC193423.3_FGT003	Uncharacterized protein
AC194472.3_FGT001	Uncharacterized protein
AC194485.3_FGT002	Uncharacterized protein
AC194897.4_FGT005	Uncharacterized protein
AC195135.3_FGT002	Uncharacterized protein
AC196779.3_FGT003	Uncharacterized protein
AC196984.3_FGT001	Uncharacterized protein
AC197355.3_FGT001	Uncharacterized protein
AC197705.4_FGT001	pdc1 - pyruvate decarboxylase1
AC198725.4_FGT009	wrky64 - WRKY-transcription factor 64
AC202107.3_FGT001	Uncharacterized protein
AC203430.3_FGT007	Uncharacterized protein
AC203862.4_FGT001	Uncharacterized protein
AC203989.4_FGT001	Uncharacterized protein
AC204530.4_FGT003	Uncharacterized protein
AC204711.3_FGT002	Uncharacterized protein
AC205376.4_FGT008	Uncharacterized protein
AC205413.4_FGT001	Uncharacterized protein
AC205471.4_FGT007	Uncharacterized protein
AC206332.3_FGT005	Uncharacterized protein
AC207206.3_FGT001	Uncharacterized protein

AC208702.3_FGT007	Uncharacterized protein
AC209206.3_FGT014	Uncharacterized protein
AC209374.4_FGT002	mecs2 - methyl erythritol cyclodiphosphate synthase2
AC210013.4_FGT012	Uncharacterized protein
AC210173.4_FGT005	fah1 - ferulic acid 5-hydroxylase1
AC210517.3_FGT003	Uncharacterized protein
AC211164.5_FGT003	Uncharacterized protein
AC212835.3_FGT008	Uncharacterized protein
AC214146.3_FGT007	Uncharacterized protein
AC214438.3_FGT002	Uncharacterized protein
AC214635.3_FGT006	Uncharacterized protein
AC216264.3_FGT001	Uncharacterized protein
AC217370.3_FGT003	Uncharacterized protein
AC217887.3_FGT004	Uncharacterized protein
AC217901.3_FGT004	Uncharacterized protein
AC232238.2_FGT004	Liguleless2-like protein
AC233850.1_FGT003	Uncharacterized protein
AC233851.1_FGT010	Uncharacterized protein
AC233863.1_FGT001	Uncharacterized protein
AC233955.1_FGT002	Uncharacterized protein
AC233955.1_FGT009	Uncharacterized protein
AC234190.1_FGT001	Uncharacterized protein
AF546187.1_FGT012	Uncharacterized protein
GRMZM2G000278	Stress-induced protein kinase1
GRMZM2G000453	Uncharacterized protein
GRMZM2G000752	Uncharacterized protein
GRMZM2G001139	Floral homeotic protein APETALA 3 (MADS transcription factor) (MADS-box transcription factor 32)
GRMZM2G001221	Calcineurin B-like protein 4 (Calcineurin B-like2)
GRMZM2G001288	PLASMODESMATA CALLOSE-BINDING PROTEIN 5
GRMZM2G001296	Maternal effect embryo arrest 18
GRMZM2G001457	Nonphototropic hypocotyl 1
GRMZM2G001991	NAD(P)-binding Rossmann-fold superfamily protein
GRMZM2G002124	Protein kinase superfamily protein
GRMZM2G002391	Equilibrative nucleotide transporter 1
GRMZM2G002396	CASP-like protein
GRMZM2G003090	Uncharacterized protein
GRMZM2G003506	Cytochrome b561 and DOMON domain-containing protein
GRMZM2G003692	NAD(P)-binding Rossmann-fold superfamily protein
GRMZM2G003715	NAC domain-containing protein 14 (Protein NTM1-like 9)
GRMZM2G003947	Uncharacterized protein
GRMZM2G004138	Caffeoyl-CoA O-methyltransferase 1
GRMZM2G004435	Pectin lyase-like superfamily protein (Polygalacturonase)
GRMZM2G004590	Shikimate kinase 1 chloroplastic

GRMZM2G004690	Protein ULTRAPETALA 1
GRMZM2G004703	Calmodulin
GRMZM2G004795	CCCH transcription factor
GRMZM2G004847	Grx_C3-glutaredoxin subgroup I
GRMZM2G004856	Glycosyl hydrolase family 10 protein / carbohydrate-binding domain-containing protein
GRMZM2G005298	Starch branching enzyme III
GRMZM2G005557	Putative calcium-binding protein CML20
GRMZM2G005562	Pectate lyase (EC 4.2.2.2)
GRMZM2G005622	F-box protein
GRMZM2G005633	Chitinase B1 (Endochitinase B)
GRMZM2G005939	Transcription factor bHLH68
GRMZM2G006197	Uncharacterized protein
GRMZM2G006507	Lysine ketoglutarate reductase trans-splicing protein
GRMZM2G006565	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G006853	Osmotin-like protein OSM34
GRMZM2G006973	E3 ubiquitin-protein ligase XBAT33
GRMZM2G007120	Gamma-glutamylcyclotransferase (EC 4.3.2.9)
GRMZM2G007130	Cyclin-D5-1
GRMZM2G007151	Plasma membrane-associated cation-binding protein 1
GRMZM2G007157	Lecithin-cholesterol acyltransferase-like 4
GRMZM2G007721	Putative glycosyl transferase family 28 protein
GRMZM2G007867	Plant Tudor-like RNA-binding protein
GRMZM2G008216	Putative cytidine deaminase
GRMZM2G008607	Uncharacterized protein
GRMZM2G008792	Cytokinin dehydrogenase 12 (EC 1.5.99.12) (Cytokinin oxidase12)
GRMZM2G008919	Vesicle-associated membrane protein 722 (Vesicle-associated membrane protein 725)
GRMZM2G008972	PPPDE peptidase domain-containing protein 2
GRMZM2G009080	OSJNBa0013K16.15-like protein
GRMZM2G009144	Uncharacterized protein
GRMZM2G009166	G-type lectin S-receptor-like serine/threonine-protein kinase
GRMZM2G009478	Transcription factor BIM3
GRMZM2G009892	NAC domain-containing protein 79
GRMZM2G010048	Osmotin-like protein OSM34
GRMZM2G010290	Dof zinc finger protein DOF2.5
GRMZM2G010298	Protein phosphatase 2C isoform epsilon
GRMZM2G010328	LL-diaminopimelate aminotransferase chloroplastic (Putative LL-diaminopimelate aminotransferase, chloroplastic) (Transaminase/transferase)
GRMZM2G010333	Uncharacterized protein
GRMZM2G010406	Argininosuccinate synthase chloroplastic (Argininosuccinate synthase, chloroplastic)
GRMZM2G010435	Putative cysteine protease RD21B
GRMZM2G010545	PLAC8 family protein
GRMZM2G010714	Protein trichome birefringence-like 13
GRMZM2G010783	Hypoxia-responsive family protein
GRMZM2G011513	DNA binding activity3

GRMZM2G011620	Uncharacterized protein
GRMZM2G011878	Methyltransferase-related protein
GRMZM2G012160	Cysteine proteinase inhibitor
GRMZM2G012233	Uncharacterized protein
GRMZM2G012530	Germin-like protein 8-5
GRMZM2G012841	Uncharacterized protein
GRMZM2G013236	Non-specific serine/threonine protein kinase (EC 2.7.11.1)
GRMZM2G013448	1-aminocyclopropane-1-carboxylate oxidase 1
GRMZM2G013465	Serine/threonine protein phosphatase 2A regulatory subunit
GRMZM2G013695	Monothiol glutaredoxin-S14 chloroplastic
GRMZM2G013704	Uncharacterized protein
GRMZM2G013790	LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like 1.1
GRMZM2G013957	cAMP-regulated phosphoprotein 19-related protein
GRMZM2G014452	Protein HESO1
GRMZM2G014723	Putative O-Glycosyl hydrolase superfamily protein
GRMZM2G014975	Autophagy-related protein
GRMZM2G015753	E3 ubiquitin-protein ligase ATL6
GRMZM2G015844	Steroid nuclear receptor ligand-binding
GRMZM2G015912	EF hand family protein
GRMZM2G016039	Uncharacterized protein
GRMZM2G016150	BZIP transcription factor (Opaque2 heterodimerizing protein 1) (Fragment)
GRMZM2G016254	Alpha-humulene/(-)-(E)-beta-caryophyllene synthase
GRMZM2G016290	Pirin-like protein 2
GRMZM2G016434	Ethylene-responsive transcription factor ERF115
GRMZM2G016637	Trihelix transcription factor GT-3a (Trihelix transcription factor GT-3b)
GRMZM2G016668	Ring zinc finger protein
GRMZM2G017186	Exhydrolase II
GRMZM2G017334	p-loop NTPase domain-containing protein LPA1 homolog 1
GRMZM2G017882	PLATZ transcription factor family protein
GRMZM2G018436	NAC domain-containing protein 77
GRMZM2G018553	NAC domain-containing protein 2
GRMZM2G018873	Uncharacterized protein
GRMZM2G018984	AP2-EREBP transcription factor (Ethylene-responsive transcription factor RAP2-3) (Root abundant factor)
GRMZM2G019185	Lichenase-2
GRMZM2G019411	Pectinesterase 31 (Pectinesterase-1)
GRMZM2G019446	Basic leucine zipper 25
GRMZM2G019578	Uncharacterized protein
GRMZM2G019621	p-loop containing nucleoside triphosphate hydrolase superfamily protein
GRMZM2G020002	Dihydropyrimidinase
GRMZM2G020091	Tetraspanin-3
GRMZM2G020146	Carboxypeptidase (EC 3.4.16.-)
GRMZM2G020254	Putative WRKY DNA-binding domain superfamily protein

GRMZM2G020281	La-related protein 6C
GRMZM2G020320	Glycerol-3-phosphate 2-O-acyltransferase 6 (Glycerol-3-phosphate acyltransferase 8)
GRMZM2G020484	Protein NRT1/ PTR FAMILY 8.1
GRMZM2G020840	Uncharacterized protein
GRMZM2G020986	Putative STRUBBELIG family receptor protein kinase
GRMZM2G021095	LOB domain protein 11 (LOB domain-containing protein 1)
GRMZM2G021277	Tyrosine decarboxylase 1
GRMZM2G021388	Tyrosine decarboxylase 1
GRMZM2G021433	Glycine-rich protein family
GRMZM2G021459	Uncharacterized protein
GRMZM2G021480	RING/U-box superfamily protein
GRMZM2G021610	Orphans transcription factor
GRMZM2G021784	Uncharacterized protein
GRMZM2G022054	Putative carbohydrate esterase (Receptor protein kinase-like protein)
GRMZM2G022252	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino] imidazole-4-carboxamide isomerase, chloroplastic (EC 5.3.1.16)
GRMZM2G022403	Ribosome associated membrane protein RAMP4
GRMZM2G022642	Amino-acid permease BAT1
GRMZM2G022659	Serine carboxypeptidase-like 33
GRMZM2G022710	Uncharacterized protein
GRMZM2G022740	Peroxidase (EC 1.11.1.7)
GRMZM2G022799	Putative metacaspase family protein
GRMZM2G023204	Serine/threonine-protein kinase OXI1
GRMZM2G023346	BTB/POZ domain-containing protein
GRMZM2G023444	Putative serine/threonine-protein kinase WNK11
GRMZM2G023520	DUF538 family protein
GRMZM2G023683	Uncharacterized protein
GRMZM2G023791	RNA-binding (RRM/RBD/RNP motifs) family protein
GRMZM2G023847	Cupredoxin superfamily protein
GRMZM2G023921	DNA-binding WRKY
GRMZM2G024395	Cysteine proteinases superfamily protein (OTU domain-containing protein 6B)
GRMZM2G025190	Glutathione S-transferase GSTU6 (Glutathione transferase42)
GRMZM2G025281	Serine/arginine-rich splicing factor SC35
GRMZM2G025366	Isocitrate dehydrogenase [NAD] regulatory subunit 1, mitochondrial
GRMZM2G026229	Uncharacterized protein
GRMZM2G026715	Putative clathrin assembly protein
GRMZM2G026881	Protein IRX15-LIKE
GRMZM2G026922	Uncharacterized conserved protein (UCP012943)
GRMZM2G026926	AP2-EREBP transcription factor (Ethylene-responsive transcription factor ERF053) (Fragment)
GRMZM2G026980	Xyloglucan endotransglucosylase/hydrolase (EC 2.4.1.207)
GRMZM2G027193	YGL010w
GRMZM2G027198	Uclacyanin-3
GRMZM2G027632	Uncharacterized protein
GRMZM2G027851	Sodium/hydrogen exchanger

GRMZM2G028129	AAA-ATPase ASD mitochondrial
GRMZM2G028393	Protease inhibitor (Proteinase inhibitor) (Subtilin /chymotrypsin-like inhibitor) (Subtilisin-chymotrypsin inhibitor CI-1B)
GRMZM2G028413	GDSL esterase/lipase
GRMZM2G028677	Trans-cinnamate 4-monooxygenase
GRMZM2G029243	Alpha-xylosidase 1
GRMZM2G029547	NAD(P)-binding Rossmann-fold superfamily protein
GRMZM2G029692	Protein kinase superfamily protein
GRMZM2G029856	GDP-L-fucose synthase 1
GRMZM2G030080	Uncharacterized protein
GRMZM2G030099	Heptahelical transmembrane protein 2
GRMZM2G030138	Guanylate-binding family protein
GRMZM2G030436	Hydroxycinnamoyltransferase4
GRMZM2G030673	Putative calcium-dependent protein kinase family protein
GRMZM2G030772	Germin-like protein subfamily 1 member 8 (Putative germin-like protein 12-4)
GRMZM2G030794	Uncharacterized protein
GRMZM2G031001	Uncharacterized protein
GRMZM2G031022	Uncharacterized protein
GRMZM2G031200	NAC87 NAC type transcription factor
GRMZM2G031261	Phytosulfokine4
GRMZM2G031280	Putative RING zinc finger domain superfamily protein
GRMZM2G031581	Hexosyltransferase (EC 2.4.1.-)
GRMZM2G032154	Uncharacterized protein
GRMZM2G032160	Glycosyl hydrolase family 81 protein
GRMZM2G032337	Protein kinase protein with adenine nucleotide alpha hydrolase-like domain
GRMZM2G032350	Uncharacterized protein
GRMZM2G032977	Endonuclease 2
GRMZM2G033175	Uncharacterized protein
GRMZM2G033359	Putative indole-3-acetic acid-amido synthetase GH3.1
GRMZM2G033746	Downstream target of AGL15 2
GRMZM2G033787	Haloacid dehalogenase-like hydrolase (HAD) superfamily protein (Phosphatase)
GRMZM2G033937	Rhomboid-like protein (EC 3.4.21.-)
GRMZM2G034534	Lecithin-cholesterol acyltransferase-like 1
GRMZM2G034668	Cytochrome b561 (Transmembrane ascorbate ferrereductase 1)
GRMZM2G034882	WPP domain-interacting protein 2
GRMZM2G035134	Phosphoethanolamine/phosphocholine phosphatase
GRMZM2G035217	UPF0496 protein (UPF0496 protein 1)
GRMZM2G035243	Kelch motif family protein
GRMZM2G035444	CASP-like protein
GRMZM2G035542	Pyrophosphate-energized vacuolar membrane proton pump 1
GRMZM2G035584	Shikimate O-hydroxycinnamoyltransferase
GRMZM2G035595	Uncharacterized protein
GRMZM2G035599	Uncharacterized protein
GRMZM2G035704	Putative RING zinc finger domain superfamily protein

GRMZM2G035755	Cytokinin-O-glucosyltransferase 1
GRMZM2G036186	Ubiquitin carboxyl-terminal hydrolase 3
GRMZM2G036288	Putative tify domain/CCT motif transcription factor family protein (TIFY29) (ZIM transcription factor)
GRMZM2G036464	glutamine synthetase 5 (EC:6.3.1.2)
GRMZM2G036629	Metallothionein-like protein 1
GRMZM2G036826	Putative thaumatin domain family protein
GRMZM2G037265	Putative galactinol--sucrose galactosyltransferase 1
GRMZM2G037411	Pectinesterase (EC 3.1.1.11)
GRMZM2G037452	Uncharacterized protein
GRMZM2G037591	(Z)-3-hexen-1-ol acetyltransferase
GRMZM2G037685	Uncharacterized protein
GRMZM2G037998	Hexosyltransferase (EC 2.4.1.-)
GRMZM2G038075	Triacylglycerol lipase SDP1
GRMZM2G038158	WRKY transcription factor 22
GRMZM2G038217	Uncharacterized protein
GRMZM2G038374	SPOC domain / Transcription elongation factor S-II protein
GRMZM2G038501	Uncharacterized protein
GRMZM2G038855	Protein ESKIMO 1
GRMZM2G038893	WAK-like kinase
GRMZM2G038928	Eukaryotic aspartyl protease family protein
GRMZM2G038991	Uncharacterized protein
GRMZM2G039009	Salicylate/benzoate carboxyl methyltransferase
GRMZM2G039325	Microtubule-associated protein 70-1
GRMZM2G039365	Bidirectional sugar transporter SWEET
GRMZM2G039385	Uncharacterized protein
GRMZM2G039538	Subtilisin2
GRMZM2G039630	Ribosome associated membrane protein RAMP4
GRMZM2G039639	Protein P21
GRMZM2G039683	ATP-dependent DNA helicase (EC 3.6.4.12)
GRMZM2G039961	Uncharacterized protein
GRMZM2G040094	Serine/threonine protein phosphatase 2A regulatory subunit B"alpha
GRMZM2G040559	Tubulin alpha-6 chain
GRMZM2G040843	Alkaline/neutral invertase (Alkaline/neutral invertase E chloroplastic) (Neutral/alkaline invertase 3, chloroplastic)
GRMZM2G040890	Protein SUPPRESSOR OF MAX2 1
GRMZM2G040920	Core-2/I-branching beta-16-N-acetylglucosaminyltransferase family protein
GRMZM2G041068	Uncharacterized protein
GRMZM2G041175	Senescence associated protein (Senescence-associated protein DH) (Tetraspanin-7)
GRMZM2G041258	DUF538 family protein
GRMZM2G041493	Uncharacterized protein
GRMZM2G041699	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G041761	OFP transcription factor (Transcription repressor OFP6)
GRMZM2G041885	Signal peptide peptidase-like 1 (Signal peptide peptidase-like 3)

GRMZM2G041930	Pentatricopeptide repeat-containing protein
GRMZM2G041959	F-box/kelch-repeat protein SKIP11
GRMZM2G042179	UDP-glucuronate 4-epimerase 1
GRMZM2G042364	WAT1-related protein
GRMZM2G042639	Safener induced1
GRMZM2G042893	Basic helix-loop-helix (BHLH) DNA-binding superfamily protein
GRMZM2G043602	3-oxoacyl-[acyl-carrier-protein] reductase 1, chloroplastic (3-oxoacyl-[acyl-carrier-protein] reductase chloroplastic)
GRMZM2G044457	Endoplasmic reticulum vesicle transporter protein
GRMZM2G044773	Putative RING zinc finger domain superfamily protein
GRMZM2G044775	Nudix hydrolase 11
GRMZM2G045155	B12D protein
GRMZM2G045249	Putative methyltransferase PMT23
GRMZM2G045331	Cell differentiation Rcd1-like protein (Cell differentiation protein RCD1) (Rcd1-like transcription factor)
GRMZM2G045398	Putative RING finger protein P4H10.07 (RING-H2 finger protein ATL2L)
GRMZM2G045638	Uncharacterized protein
GRMZM2G045686	UDP-galactose/UDP-glucose transporter 3
GRMZM2G045720	Eukaryotic peptide chain release factor subunit 1-1
GRMZM2G045809	Germin-like protein 8-12 (Germin-like protein subfamily 1 member 17) (Germin-like protein subfamily 1 member 8)
GRMZM2G045977	Uncharacterized protein
GRMZM2G046101	Glucan endo-1,3-beta-glucosidase7
GRMZM2G046474	BTB/POZ domain-containing protein
GRMZM2G046824	Histone deacetylase 8
GRMZM2G046861	VIN3-like protein 2
GRMZM2G047002	Tetratricopeptide repeat (TPR)-like superfamily protein
GRMZM2G047319	Putative subtilase family protein (Subtilisin-like protease SBT1.4)
GRMZM2G047412	Uncharacterized protein
GRMZM2G047456	Peroxidase (EC 1.11.1.7)
GRMZM2G047476	IQ-domain 20
GRMZM2G047533	Triacylglycerol lipase 2
GRMZM2G047684	Cytochrome P450 734A1 (Cytochrome P450 734A4)
GRMZM2G047875	Cation/H(+) antiporter 19
GRMZM2G047956	Uncharacterized protein
GRMZM2G047961	CASP-like protein 4U1
GRMZM2G047969	Protein JASON
GRMZM2G048150	Protein LIKE COV 2
GRMZM2G048450	WRKY transcription factor 22
GRMZM2G048549	Calcium-binding EF-hand family protein
GRMZM2G048763	Annexin D8
GRMZM2G049930	Putative germin-like protein 12-4
GRMZM2G049950	GW2
GRMZM2G050159	Cytochrome b561 and DOMON domain-containing protein

GRMZM2G050234	Protein DMR6-LIKE OXYGENASE 2
GRMZM2G050412	Dirigent protein
GRMZM2G050556	Clathrin assembly protein
GRMZM2G050561	Heptahelical transmembrane protein 5
GRMZM2G050768	Bowman-Birk type trypsin inhibitor
GRMZM2G050937	Amidase family protein
GRMZM2G051785	Scarecrow-like protein 6
GRMZM2G051921	Endochitinase EP3
GRMZM2G051943	Endochitinase A
GRMZM2G052034	E3 ubiquitin-protein ligase MIEL1
GRMZM2G052296	Uncharacterized protein
GRMZM2G052546	Phosphoglucan phosphatase DSP4 chloroplastic
GRMZM2G052855	Protein LIKE COV 2
GRMZM2G053206	Eukaryotic aspartyl protease family protein
GRMZM2G053458	Ferredoxin 3 (fdx3),
GRMZM2G053503	AP2-EREBP transcription factor (Ethylene-responsive factor-like protein 1)
GRMZM2G053669	Asparagine synthetase 3
GRMZM2G053898	Small ubiquitin-related modifier (SUMO)
GRMZM2G053908	Mitochondrial substrate carrier family protein
GRMZM2G053916	Electron transfer flavoprotein subunit alpha mitochondrial
GRMZM2G054224	Putative prolyl 4-hydroxylase 12
GRMZM2G054277	Uncharacterized protein
GRMZM2G054354	Survival motor neuron protein
GRMZM2G054470	GPI transamidase component family protein / Gaa1-like family protein
GRMZM2G054588	Uncharacterized protein
GRMZM2G054663	Katanin p60 ATPase-containing subunit A1 (Katanin p60 subunit A1) (EC 3.6.4.3) (p60 katanin)
GRMZM2G054715	Katanin p60 ATPase-containing subunit A1
GRMZM2G054870	Vacuole membrane protein KMS1
GRMZM2G054969	Major facilitator superfamily protein
GRMZM2G055101	Glycosyl hydrolase family 10 protein
GRMZM2G055107	Uncharacterized protein
GRMZM2G055116	RING/U-box superfamily protein
GRMZM2G055238	Ureide permease 5
GRMZM2G055320	Putative AMP-dependent synthetase and ligase superfamily protein
GRMZM2G055469	Pirin-like protein 2
GRMZM2G055826	F-box domain containing protein
GRMZM2G056068	Uncharacterized protein
GRMZM2G056469	Tyrosine decarboxylase 1
GRMZM2G057031	Replication factor C subunit 3
GRMZM2G057067	Auxin-responsive protein
GRMZM2G057129	Haloacid dehalogenase-like hydrolase (HAD) superfamily protein
GRMZM2G057173	Uncharacterized protein
GRMZM2G057674	Alpha/beta-Hydrolases superfamily protein
GRMZM2G057690	Uncharacterized protein

GRMZM2G057733	Putative GABA transporter 2
GRMZM2G057766	Chitinase 1
GRMZM2G058032	Circumsporozoite protein
GRMZM2G058095	3-hydroxy-3-methylglutaryl coenzyme A reductase (HMG-CoA reductase) (EC 1.1.1.34)
GRMZM2G058197	Protein indeterminate-domain 11
GRMZM2G058470	Uncharacterized protein
GRMZM2G058518	ANAC010 (NAC domain-containing protein 73)
GRMZM2G058568	Retrovirus-related Pol polyprotein from transposon TNT 1-94
GRMZM2G059064	VQ motif family protein
GRMZM2G059381	AMP-binding protein
GRMZM2G059517	Phosphoglycerate mutase-like protein AT74H
GRMZM2G059526	Uncharacterized protein
GRMZM2G059582	Uncharacterized protein
GRMZM2G059693	Triacylglycerol lipase-like 1
GRMZM2G059785	Expansin-B4 (Expansin-B6)
GRMZM2G059799	Ethylene-responsive protein
GRMZM2G060148	Regulator of Vps4 activity in the MVB pathway protein
GRMZM2G060160	Tetratricopeptide repeat (TPR)-like superfamily protein
GRMZM2G060210	HXXXD-type acyl-transferase family protein
GRMZM2G060290	BZIP transcription factor family protein
GRMZM2G060467	Hydroxyproline-rich glycoprotein family protein
GRMZM2G060544	LOB domain-containing protein 42 (LOB transcription factor)
GRMZM2G060647	Uncharacterized protein
GRMZM2G060659	Sucrose synthase (EC 2.4.1.13)
GRMZM2G060669	Histone deacetylase complex subunit SAP18
GRMZM2G060702	Actin depolymerizing factor3
GRMZM2G060837	Xyloglucan endotransglucosylase/hydrolase (EC 2.4.1.207)
GRMZM2G060866	Anther-specific proline-rich protein APG
GRMZM2G060993	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G061156	Protein FREE1
GRMZM2G061206	Antiporter/ drug transporter/ transporter
GRMZM2G061232	Uncharacterized protein
GRMZM2G061303	Protein NRT1/ PTR FAMILY 7.1 (Protein NRT1/ PTR FAMILY 7.3)
GRMZM2G061314	Outer arm dynein light chain 1 protein (Protein binding protein)
GRMZM2G061450	Uncharacterized protein
GRMZM2G061527	Putative LRR receptor-like serine/threonine-protein kinase
GRMZM2G061702	Cyclase family protein
GRMZM2G061806	Hydroxycinnamoyltransferase1
GRMZM2G061906	BHLH transcription factor (Transcription factor bHLH104)
GRMZM2G061932	Embryo-specific protein ATS3A (Seed gene 3)
GRMZM2G062218	CCT motif family protein
GRMZM2G062390	Peroxidase (EC 1.11.1.7)
GRMZM2G062600	Putative O-Glycosyl hydrolase superfamily protein
GRMZM2G062673	Calmodulin-like protein 2

GRMZM2G062724	CHY-type/CTCHY-type/RING-type Zinc finger protein
GRMZM2G063126	ferredoxin-6
GRMZM2G063151	Initiator binding protein1
GRMZM2G063203	Putative homeodomain-like transcription factor superfamily protein isoform 1 (Trihelix transcription factor GT-2)
GRMZM2G063216	Putative WRKY transcription factor 30 (WRKY transcription factor 55) (WRKY46-superfamily of TFs having WRKY and zinc finger domains)
GRMZM2G063287	Embryonic protein DC-8
GRMZM2G063390	WAT1-related protein
GRMZM2G063492	Sodium/hydrogen exchanger
GRMZM2G063533	Serine/threonine-protein kinase NAK
GRMZM2G063566	Xyloglucan endotransglucosylase/hydrolase (EC 2.4.1.207)
GRMZM2G063672	AAA-ATPase (Protein HYPER-SENSITIVITY-RELATED 4)
GRMZM2G063875	HSP20-like chaperones superfamily protein
GRMZM2G063942	DNA-binding protein BIN4
GRMZM2G064212	Cysteine protease (EC 3.4.22.-)
GRMZM2G064366	Lung seven transmembrane receptor family protein
GRMZM2G064382	Zinc transporter 4
GRMZM2G064521	Uncharacterized protein
GRMZM2G064594	Triacylglycerol lipase 1
GRMZM2G064605	Pathogenesis-related thaumatin superfamily protein
GRMZM2G064853	S-acyltransferase (EC 2.3.1.225) (Palmitoyltransferase)
GRMZM2G064903	DNA-binding WRKY
GRMZM2G064960	Uncharacterized protein
GRMZM2G064969	HXXXD-type acyl-transferase family protein (Putative acetyltransferase)
GRMZM2G065471	Putative carboxylesterase 15
GRMZM2G065757	Aspartic proteinase A1
GRMZM2G065888	Receptor-like protein kinase-like
GRMZM2G066426	Putative AMP-dependent synthetase and ligase superfamily protein
GRMZM2G066432	Putative serine/threonine-protein kinase PBL26 (Receptor-like kinase LIP2)
GRMZM2G066441	Cytochrome P450 family 704 subfamily A polypeptide 2
GRMZM2G066448	IQ-domain 3
GRMZM2G066602	Importin subunit beta-1
GRMZM2G066612	Thioredoxin
GRMZM2G067049	Oxysterol-binding protein-related protein 4B
GRMZM2G067225	Allene oxide synthase1
GRMZM2G067402	Hemoglobin1
GRMZM2G067575	Uncharacterized protein
GRMZM2G067646	Replication termination factor 2
GRMZM2G067865	Putative RING zinc finger domain superfamily protein
GRMZM2G068220	Adenine/guanine permease AZG2
GRMZM2G068350	Glycosyltransferases (EC 2.4.-.-)
GRMZM2G068465	Sterol 14-demethylase
GRMZM2G068566	Uncharacterized protein

GRMZM2G068710	C2H2 transcription factor (Protein SENSITIVE TO PROTON RHIZOTOXICITY 1) (TRANSPARENT TESTA 1 protein)
GRMZM2G069102	Polyadenylate-binding protein-interacting protein 10
GRMZM2G069174	RNA-binding protein-like
GRMZM2G069195	Fructose-bisphosphate aldolase, EC 4.1.2.13
GRMZM2G069203	Serine acetyltransferase1
GRMZM2G070013	DUF679 domain membrane protein 7
GRMZM2G070304	Glycerol-3-phosphate acyltransferase 3 (Putative glycerol-3-phosphate acyltransferase 2)
GRMZM2G070849	Myb domain protein 112
GRMZM2G070912	Metallothionein-like protein 2C
GRMZM2G071087	2C-type protein phosphatase protein (Protein phosphatase 2C)
GRMZM2G071390	Germin-like protein 12-2
GRMZM2G071475	Uncharacterized protein
GRMZM2G071478	Putative lysM-domain receptor-like protein kinase family protein
GRMZM2G072029	Mitochondrial arginine transporter BAC2
GRMZM2G072089	Rho GDP-dissociation inhibitor 1
GRMZM2G072350	Wall-associated receptor kinase 3
GRMZM2G072612	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein
GRMZM2G072682	Proteasome assembly chaperone 2
GRMZM2G072965	Germin-like protein subfamily 1 member 8 (Putative germin-like protein 12-4)
GRMZM2G073059	Cyclase
GRMZM2G073079	Alpha/beta-Hydrolases superfamily protein
GRMZM2G073465	Cysteine protease 1
GRMZM2G073584	Beta-galactosidase 9
GRMZM2G073693	Protein PHLOEM PROTEIN 2-LIKE A2
GRMZM2G074423	Plant-specific domain TIGR01589 family protein
GRMZM2G074743	Ubiquinol oxidase (EC 1.10.3.11)
GRMZM2G074781	Alpha-amylase (EC 3.2.1.1) (1,4-alpha-D-glucan glucanohydrolase)
GRMZM2G075002	Non-specific serine/threonine protein kinase (EC 2.7.11.1)
GRMZM2G075019	Putative RING zinc finger and VWF domain family protein
GRMZM2G075148	Uncharacterized protein
GRMZM2G075244	Cytochrome P450 CYP709C14
GRMZM2G075245	Uncharacterized protein
GRMZM2G075262	Uncharacterized protein
GRMZM2G075283	Pathogenesis-related protein 10 (Pathogenesis-related protein STH-21)
GRMZM2G075315	Bowman-Birk type trypsin inhibitor (Putative Bowman-Birk serine protease inhibitor)
GRMZM2G075461	Cytochrome P450 709B2
GRMZM2G075828	Protein DETOXIFICATION (Multidrug and toxic compound extrusion protein)
GRMZM2G075901	Uncharacterized protein
GRMZM2G076343	Uncharacterized protein
GRMZM2G076499	Uncharacterized protein
GRMZM2G076826	Autophagy-related protein
GRMZM2G077040	Uncharacterized protein
GRMZM2G077069	F-box protein PP2-A13

GRMZM2G077293	Reversion-to-ethylene sensitivity1 like2
GRMZM2G077307	CHY-type/CTCHY-type/RING-type Zinc finger protein
GRMZM2G077316	Allene oxide cyclase (Allene oxide cyclase, chloroplastic) (Allene oxide cyclase1)
GRMZM2G077498	Protein NRT1/ PTR FAMILY 5.10
GRMZM2G077535	Nuclear transport factor 2 (NTF2) family protein
GRMZM2G077607	DUF1639 family protein
GRMZM2G077837	Peroxisomal membrane protein 11C
GRMZM2G078465	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G078500	extradiol ring-cleavage dioxygenase
GRMZM2G079440	Dehydrin DHN1 (RAB17 protein)
GRMZM2G079470	GRAS transcription factor (Scarecrow-like protein 6) (Fragment)
GRMZM2G079484	Putative cytochrome P450 superfamily protein
GRMZM2G079490	Eukaryotic aspartyl protease family protein
GRMZM2G080079	NEP1-interacting protein-like 2
GRMZM2G080083	Serine/threonine protein phosphatase 2A regulatory subunit B"alpha
GRMZM2G080111	Basic leucine-zipper 58
GRMZM2G080183	Peroxidase 16
GRMZM2G080199	Splicing factor Prp18 family protein
GRMZM2G080839	Berberine bridge enzyme-like 18 (Putative FAD-binding Berberine family protein)
GRMZM2G081502	Alpha-amylase 1
GRMZM2G081652	Patellin-1
GRMZM2G081671	G2-like transcription factor (Putative MYB DNA-binding domain superfamily protein)
GRMZM2G081812	Protein SUPPRESSOR OF FRI 4
GRMZM2G081822	HSP20-like chaperones superfamily protein
GRMZM2G081907	CLIP-associated protein
GRMZM2G081915	Serine/threonine-protein kinase SRK2E
GRMZM2G081930	NAC domain-containing protein 21/22
GRMZM2G082191	Putative leucine-rich repeat receptor-like protein kinase
GRMZM2G082836	ADP-ribosylation factor-related protein 1 (ARF-related protein) (GTP-binding protein 1)
GRMZM2G082924	Cytidine/deoxycytidylate deaminase family protein (Putative cytidine deaminase)
GRMZM2G082943	ARGOS9 (Auxin regulated gene involved in organ size 9)
GRMZM2G082959	Putative carboxylesterase 17
GRMZM2G083012	Cell cycle regulated microtubule associated protein
GRMZM2G083328	DCD (Development and Cell Death) domain protein
GRMZM2G083350	Putative WRKY DNA-binding domain superfamily protein
GRMZM2G083526	Protein ECERIFERUM 3
GRMZM2G083749	Transcription factor bHLH133
GRMZM2G083797	LRR protein WM1.10
GRMZM2G083847	ACT domain-containing protein ACR9
GRMZM2G084389	Outer envelope pore protein 16-2 chloroplastic
GRMZM2G084496	Alpha-humulene/(-)-(E)-beta-caryophyllene synthase
GRMZM2G084779	Potassium transporter
GRMZM2G085049	Rho GDP-dissociation inhibitor 1
GRMZM2G085176	Histone-lysine N-methyltransferase (EC 2.1.1.43)

GRMZM2G085402	Mono-/di-acylglycerol lipase N-terminal
GRMZM2G085845	Flavonoid 3'-monooxygenase (Putative cytochrome P450 superfamily protein)
GRMZM2G086496	Protein NRT1/ PTR FAMILY 6.3
GRMZM2G086573	AP2-like ethylene-responsive transcription factor AIL5
GRMZM2G086856	Pheromone receptor
GRMZM2G087059	Uncharacterized protein(ERF)
GRMZM2G087081	DUF1230 family protein
GRMZM2G087111	Germin-like protein 8-5 (Germin-like protein subfamily 1 member 11)
GRMZM2G087146	Choline/ethanolamine kinase (Putative choline kinase 2)
GRMZM2G087186	Pyruvate decarboxylase (Pyruvate decarboxylase 2) (Pyruvate decarboxylase isozyme 2) (Pyruvate decarboxylase isozyme 3)
GRMZM2G087245	PLAT domain-containing protein 2 (Wound/stress protein)
GRMZM2G087291	Uncharacterized protein
GRMZM2G087462	GDSL esterase/lipase
GRMZM2G087600	Uncharacterized protein
GRMZM2G087612	Triacylglycerol lipase SDP1
GRMZM2G087824	Uncharacterized protein
GRMZM2G087827	Esterase
GRMZM2G087875	Cytochrome P450 CYP81A1 (Cytochrome P450 family 81 subfamily D polypeptide 8)
GRMZM2G088005	Uncharacterized protein
GRMZM2G088053	WAT1-related protein
GRMZM2G088064	alanine aminotransferase
GRMZM2G088212	Catalase (EC 1.11.1.6)
GRMZM2G088443	BHLH transcription factor (Transcription factor bHLH51)
GRMZM2G088565	Uncharacterized protein
GRMZM2G088613	Uncharacterized protein
GRMZM2G089086	Magnesium transporter CorA-like family protein
GRMZM2G089400	Lipid binding protein
GRMZM2G089767	Adenosine kinase 2
GRMZM2G089854	Prolyl oligopeptidase family protein (Protease 2)
GRMZM2G090245	Putative aldehyde dehydrogenase (Putative aldehyde dehydrogenase MIS1)
GRMZM2G090609	Putative peroxygenase 4
GRMZM2G090675	CBS domain-containing protein CBSX1 chloroplastic
GRMZM2G090747	Glycerol-3-phosphate dehydrogenase [NAD(+)] (EC 1.1.1.8)
GRMZM2G090971	Uncharacterized protein
GRMZM2G091839	Uncharacterized protein
GRMZM2G092101	F-box/kelch-repeat protein SKIP11
GRMZM2G092112	Beclin 1 protein (Beclin-1-like protein)
GRMZM2G092146	Uncharacterized protein
GRMZM2G092338	Early nodulin-like protein 1
GRMZM2G092474	Osmotin-like protein OSM34
GRMZM2G092669	NEP-interacting protein 1
GRMZM2G092718	Copper transport protein family
GRMZM2G092719	40S ribosomal protein SA

GRMZM2G092743	Uncharacterized protein
GRMZM2G092817	4,5-DOPA dioxygenase extradiol
GRMZM2G092867	Metal ion binding protein
GRMZM2G092925	Protein HVA22
GRMZM2G092945	Amino acid permease 6
GRMZM2G092991	Probable magnesium transporter
GRMZM2G093076	Germin-like protein subfamily 1 member 8
GRMZM2G093606	Germin-like protein subfamily 1 member 8
GRMZM2G093622	Germin-like protein subfamily 1 member 8
GRMZM2G093858	Calcium/calmodulin-regulated receptor-like kinase 1
GRMZM2G093951	NDR1/HIN1-like 25
GRMZM2G094375	Laccase (EC 1.10.3.2) (Benzenediol:oxygen oxidoreductase) (Diphenol oxidase) (Urishiol oxidase)
GRMZM2G094497	Vacuolar ATP synthase subunit B isoform 1 (Vacuolar proton pump2)
GRMZM2G094510	Uncharacterized protein
GRMZM2G094602	Protein binding protein
GRMZM2G094712	Aspartate aminotransferase (EC 2.6.1.1)
GRMZM2G095280	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G095464	Uncharacterized protein
GRMZM2G095695	Mitochondrial import inner membrane translocase subunit TIM44-2
GRMZM2G095778	Fatty-acid-binding protein 2
GRMZM2G096211	RING/U-box superfamily protein
GRMZM2G096228	Caltractin
GRMZM2G096403	Uncharacterized protein
GRMZM2G096454	ZCF37
GRMZM2G096464	Uncharacterized protein
GRMZM2G096475	Late embryogenesis abundant protein, group 3
GRMZM2G097059	Developmental protein SEPALLATA 2 (MADS transcription factor)
GRMZM2G097277	Alpha-L-arabinofuranosidase 1
GRMZM2G097395	Nodulin-like protein
GRMZM2G097502	Uncharacterized protein
GRMZM2G097505	Potassium transporter
GRMZM2G097509	Fatty acid desaturase 4, chloroplastic
GRMZM2G097878	Protein kinase superfamily protein
GRMZM2G098182	DUF679 domain membrane protein 7
GRMZM2G098279	Uncharacterized protein
GRMZM2G098875	Glutamate decarboxylase (EC 4.1.1.15)
GRMZM2G099238	Uncharacterized protein
GRMZM2G099324	Putative S-locus-like receptor protein kinase family protein (S-locus lectin protein kinase)
GRMZM2G099420	Cinnamoyl-CoA reductase 1
GRMZM2G099425	Calcium-dependent protein kinase 7
GRMZM2G099619	ABC transporter G family member 6
GRMZM2G100380	Ankyrin repeat-containing protein ITN1 (Protein ACCELERATED CELL DEATH 6)
GRMZM2G100456	GEM-like protein 1 (GLABRA2 expression modulator)

GRMZM2G100727	Putative AP2/EREBP transcription factor superfamily protein
GRMZM2G100750	Protein LURP-one-related 6
GRMZM2G101080	Plant calmodulin-binding protein-related
GRMZM2G101105	RNase II-like 1
GRMZM2G101116	Pirin-like protein 2
GRMZM2G101217	Protein arginine methyltransferase NDUFAF7 (EC 2.1.1.320)
GRMZM2G101547	Protein FLUORESCENT IN BLUE LIGHT chloroplastic
GRMZM2G101613	Cyclin-dependent kinase inhibitor 2
GRMZM2G102056	ARM repeat superfamily protein
GRMZM2G102421	NEDD8-conjugating enzyme Ubc12
GRMZM2G102550	Geranylgeranyl pyrophosphate synthase2
GRMZM2G102674	UPA23
GRMZM2G102770	FON2 SPARE1
GRMZM2G102802	Uncharacterized protein
GRMZM2G102863	O-methyltransferase ZRP4
GRMZM2G102933	aspartic proteinase oryzasin-1
GRMZM2G103013	Uncharacterized protein
GRMZM2G103055	Alpha-amylase (EC 3.2.1.1) (1,4-alpha-D-glucan glucanohydrolase)
GRMZM2G103059	60S ribosomal protein L36a
GRMZM2G103079	Uncharacterized protein
GRMZM2G103137	Hydrolase-like protein family
GRMZM2G103258	Signal peptide peptidase-like 1 (Signal peptide peptidase-like 3)
GRMZM2G103287	Glucose-6-phosphate 1-epimerase (EC 5.1.3.15)
GRMZM2G103342	Peroxidase (EC 1.11.1.7)
GRMZM2G103546	Aldehyde dehydrogenase
GRMZM2G103617	B12D protein
GRMZM2G103721	Phosphatidylinositol 3-kinase VPS34
GRMZM2G103755	PIT1
GRMZM2G103785	Putative DUF604-domain containing/glycosyltransferase-related family protein
GRMZM2G103900	Uncharacterized protein
GRMZM2G104088	Uncharacterized protein
GRMZM2G104220	Uncharacterized protein
GRMZM2G104332	Plant/MUD21-2 protein
GRMZM2G104390	GATA transcription factor 16
GRMZM2G104456	Nucleolin
GRMZM2G104468	Remorin family protein
GRMZM2G104534	Protein SCAR2
GRMZM2G104829	Glycosyltransferase family 61 protein
GRMZM2G104876	Glycine-rich protein A3
GRMZM2G104999	Nucleoside N-ribohydrolase 3 (EC 3.2.2.-) (Pyrimidine-specific ribonucleoside hydrolase rihB)
GRMZM2G105173	Uncharacterized protein
GRMZM2G105224	C2H2 zinc finger protein (MRP interacting2) (Nucleic acid binding protein)
GRMZM2G105283	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein
GRMZM2G105321	Uncharacterized protein

GRMZM2G105787	Squalene monooxygenase
GRMZM2G105909	GW2 (Protein SIP5)
GRMZM2G105940	Germin-like protein subfamily 1 member 8
GRMZM2G105987	NHL25
GRMZM2G106026	Zinc finger protein AZF2
GRMZM2G106092	Uncharacterized protein
GRMZM2G106283	Yos1-like protein
GRMZM2G106363	Adagio protein 3
GRMZM2G106560	Putative WRKY transcription factor 75
GRMZM2G106703	Mitochondrial carrier protein MTM1
GRMZM2G106950	Indole-3-glycerol phosphate synthase chloroplastic
GRMZM2G107073	Pectin lyase-like superfamily protein (Putative polygalacturonase)
GRMZM2G107196	Pyruvate dehydrogenase (Lipoamide) kinase1
GRMZM2G107377	Cyclin-D3-2 (Cyclin10)
GRMZM2G107395	14-3-3-like protein GF14 omega
GRMZM2G107570	Oil body-associated protein 2B
GRMZM2G107620	Regulatory protein RecX family protein
GRMZM2G107956	Protein with potential galactosyl transferase activity
GRMZM2G108514	Tyrosine decarboxylase 1 (Tyrosine/DOPA decarboxylase 1)
GRMZM2G108537	Nodulin protein
GRMZM2G108677	KH domain-containing protein SPIN1
GRMZM2G108780	Profilin
GRMZM2G108847	Putative serine type endopeptidase inhibitor
GRMZM2G108997	Uncharacterized protein
GRMZM2G109130	Lipoxygenase
GRMZM2G109142	14-dihydroxy-2-naphthoyl-CoA thioesterase 1
GRMZM2G109425	T-complex protein 1 subunit zeta
GRMZM2G109627	Putative NAC domain transcription factor superfamily protein
GRMZM2G109668	OSJNBa0043L24.15-like protein
GRMZM2G109812	Uncharacterized protein
GRMZM2G109869	GRAS transcription factor (Fragment)
GRMZM2G110057	Receptor-like kinase-like
GRMZM2G110309	Initiator-binding protein 2 (Telomere repeat-binding protein 5)
GRMZM2G110330	Receptor-like kinase-like
GRMZM2G110333	Ethylene-responsive transcription factor RAP2-3
GRMZM2G110739	MLO-like protein
GRMZM2G110913	LOB domain-containing protein 31
GRMZM2G111112	Uncharacterized protein
GRMZM2G111143	Glycosyl hydrolase superfamily protein
GRMZM2G111201	Formin-like protein 5
GRMZM2G111415	Ethylene-responsive transcription factor ERF003 (Putative AP2/EREBP transcription factor superfamily protein)
GRMZM2G111672	BSD domain-containing protein (BSD domain-containing protein 1)
GRMZM2G111711	Putative WRKY DNA-binding domain superfamily protein (WRKY transcription factor)

GRMZM2G111987	Uncharacterized protein
GRMZM2G112165	Heat shock protein 81-3 (Heat shock protein 90-2)
GRMZM2G112488	Pathogenesis-related protein 10
GRMZM2G112538	Pathogenesis-related protein 10
GRMZM2G112799	Zinc finger protein ZAT11
GRMZM2G112894	Putative membrane lipoprotein
GRMZM2G112951	Uncharacterized protein
GRMZM2G113036	Tetratricopeptide repeat (TPR)-like superfamily protein
GRMZM2G113127	Nuclear transcription factor Y subunit C-2
GRMZM2G113159	Cp protein
GRMZM2G113177	RING/FYVE/PHD zinc finger superfamily protein
GRMZM2G113191	Carbonic anhydrase (EC:4.2.1.1)
GRMZM2G113203	Multidrug resistance protein associated1
GRMZM2G113355	Cupin, RmlC-type (Plant cysteine oxidase 2)
GRMZM2G114093	Protein kinase superfamily protein
GRMZM2G114119	GDU1
GRMZM2G114220	Ubiquitin fusion degradation protein 1
GRMZM2G114706	Ankyrin protein kinase-like (Putative methyltransferase PMT2)
GRMZM2G114873	BHLH-transcription factor 132
GRMZM2G114918	Hydroxycinnamoyltransferase2
GRMZM2G115070	MYB_related
GRMZM2G115131	Uncharacterized protein
GRMZM2G115342	Cytoplasmic membrane protein
GRMZM2G115491	Germin-like protein subfamily 3 member 2
GRMZM2G116079	Putative zinc finger protein30
GRMZM2G116140	Pectin methylesterase inhibitor 1
GRMZM2G116434	UPF0183 protein
GRMZM2G116520	Bowman-Birk type trypsin inhibitor
GRMZM2G116646	C2C2-YABBY transcription factor (Putative axial regulator YABBY 2)
GRMZM2G117057	ZCN11
GRMZM2G117064	Long chain acyl-CoA synthetase 9 chloroplastic
GRMZM2G117365	Peroxidase (EC 1.11.1.7)
GRMZM2G117378	Patatin (EC 3.1.1.-)
GRMZM2G117999	Pectin acetylesterase (EC 3.1.1.-)
GRMZM2G118265	Copine (Calcium-dependent phospholipid-binding protein) family
GRMZM2G118636	Bzip transcription factor-like
GRMZM2G118637	Polyubiquitin 10 (Polyubiquitin containing 7 ubiquitin monomers) (Putative ubiquitin family protein) (Ubiquitin)
GRMZM2G119168	AT-hook motif nuclear-localized protein
GRMZM2G119203	Uncharacterized protein
GRMZM2G119578	Apospory-associated protein (Galactose mutarotase-like superfamily protein)
GRMZM2G119583	Putative acetylornithine/succinylornithine aminotransferase family protein
GRMZM2G119894	ABC transporter B family member 21
GRMZM2G120069	LOL3 (Metacaspase-1)

GRMZM2G120202	Serine/threonine-protein phosphatase (EC 3.1.3.16)
GRMZM2G120839	Putative CRINKLY4-like receptor protein kinase family protein
GRMZM2G121458	Major facilitator superfamily protein
GRMZM2G121605	Putative polyphenol oxidase family protein
GRMZM2G122228	2C-type protein phosphatase protein (Protein phosphatase homolog8)
GRMZM2G122231	Trehalose-6-phosphate synthase11
GRMZM2G122302	Blue copper protein
GRMZM2G122335	Mitogen-activated protein kinase (EC 2.7.11.24)
GRMZM2G122607	Autophagy-related protein 18a (WD repeat-containing protein domain phosphoinositide-interacting protein 3)
GRMZM2G122654	Ent-cassadiene C2-hydroxylase
GRMZM2G122983	Vacuolar protein sorting-associated protein 20 homolog 2
GRMZM2G123550	CCT motif family protein
GRMZM2G123660	E3 ubiquitin-protein ligase listerin
GRMZM2G123764	Patatin (EC 3.1.1.-)
GRMZM2G124229	Putative carboxylesterase 15
GRMZM2G124477	Uncharacterized protein
GRMZM2G124524	WRI1 transcription factor1
GRMZM2G124540	DNA binding protein (G2-like transcription factor)
GRMZM2G124593	Pyruvate kinase (EC 2.7.1.40)
GRMZM2G124638	AT-hook motif nuclear-localized protein 10
GRMZM2G124684	Aspartyl protease AED1
GRMZM2G124791	Uncharacterized protein
GRMZM2G125032	Beta-1,3-glucanase (EC 3.2.1.58)
GRMZM2G125034	RING-type E3 ubiquitin transferase (EC 2.3.2.27)
GRMZM2G125531	KH domain-containing protein
GRMZM2G125775	AN17
GRMZM2G125943	Histidine kinase6 (Putative histidine kinase family protein)
GRMZM2G125991	Endoglucanase (EC 3.2.1.4)
GRMZM2G126002	Putative oxidoreductase, aldo/keto reductase family protein
GRMZM2G126507	Protein TIFY 6B (TIFY24)
GRMZM2G126582	Aquaporin NIP-type (Aquaporin NIP1-3)
GRMZM2G126732	1-aminocyclopropane-1-carboxylate oxidase20 (Acc oxidase)
GRMZM2G126900	Inositol oxygenase 2
GRMZM2G127117	Glucan endo-13-beta-glucosidase 14
GRMZM2G127418	Benzoxazinone synthesis14 (O-methyltransferase ZRP4)
GRMZM2G127648	Ras-related protein RIC2
GRMZM2G127650	Serine/threonine-protein kinase
GRMZM2G127687	Putative inactive receptor-like protein kinase
GRMZM2G127812	Uncharacterized protein
GRMZM2G127911	Phosphopantothenoylcysteine decarboxylase (Putative phosphopantothenoylcysteine decarboxylase)
GRMZM2G127990	Putative leucine-rich repeat receptor-like protein kinase family protein
GRMZM2G128491	Uncharacterized protein

GRMZM2G128608	Putative FYVE zinc finger containing actin-binding-domain protein family (SH3 domain-containing protein PJ696.02)
GRMZM2G128693	Uncharacterized protein
GRMZM2G128929	L-lactate dehydrogenase (Lactate dehydrogenase1)
GRMZM2G129034	MADS27
GRMZM2G129114	Nucleotide-diphospho-sugar transferase family protein
GRMZM2G129189	Endochitinase PR4 (Endochitinase4)
GRMZM2G129246	Glycolate oxidase1
GRMZM2G129300	Uncharacterized protein
GRMZM2G129674	AP2-EREBP transcription factor
GRMZM2G129675	Autophagy-related protein 13a
GRMZM2G130119	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G130173	Metallothionein-like protein 2C (Metallothionein-like protein type 2)
GRMZM2G130224	Restriction endonuclease type II-like superfamily protein
GRMZM2G130678	Actin-depolymerizing factor 6
GRMZM2G130950	SNF1-related protein kinase regulatory subunit beta-1
GRMZM2G131249	NifU-like protein 4 mitochondrial
GRMZM2G131281	AP2-EREBP transcription factor (Ethylene-responsive transcription factor ERF112) (Fragment)
GRMZM2G131421	Early nodulin 93
GRMZM2G131529	Type III polyketide synthase B
GRMZM2G132032	Subtilisin-like protease SBT3.9
GRMZM2G133023	Heat stress transcription factor A-6b
GRMZM2G133029	Eukaryotic aspartyl protease family protein
GRMZM2G133097	Mediator of RNA polymerase II transcription subunit 11
GRMZM2G133407	Soluble epoxide hydrolase
GRMZM2G133613	Hexosyltransferase (EC 2.4.1.-)
GRMZM2G133716	FHA domain-containing protein PS1
GRMZM2G134045	ADP-ribosylation factor GTPase-activating protein 3 (ADP-ribosylation factor GTPase-activating protein AGD10) (Putative ADP-ribosylation factor GTPase-activating protein AGD8)
GRMZM2G134073	NAC domain containing protein 84 (NAC domain-containing protein 68)
GRMZM2G134308	Putative beta-14-xylosyltransferase IRX10L
GRMZM2G134329	Rhodopsin-like receptor
GRMZM2G134613	Autophagy-related protein
GRMZM2G134717	Putative NAC domain transcription factor superfamily protein
GRMZM2G134903	Exonuclease (UTP-glucose-P-uridyltransferase-like protein)
GRMZM2G134951	CBF1 interacting corepressor
GRMZM2G135044	WAT1-related protein
GRMZM2G135244	AM3
GRMZM2G135387	Cytochrome P450 71B10
GRMZM2G135444	Protein phosphatase 2C ABI1
GRMZM2G135743	UDP-glucuronate:xylan alpha-glucuronosyltransferase 1
GRMZM2G135746	Ureide permease 5
GRMZM2G135790	Protein FLX-like 1
GRMZM2G136300	Amino acid permease 6

GRMZM2G136372	Osmotin-like protein OSM34
GRMZM2G136455	Ras-related protein RABD1
GRMZM2G136508	Amino acid permease
GRMZM2G136750	Uncharacterized protein
GRMZM2G136854	ALBINO3-like protein 1 chloroplastic
GRMZM2G137421	Protein NRT1/ PTR FAMILY 4.6
GRMZM2G137535	Lichenase-2
GRMZM2G137673	Groundhog protein 7
GRMZM2G137954	Bidirectional sugar transporter SWEET
GRMZM2G138259	DUF1262 family protein
GRMZM2G138330	Transcription regulator
GRMZM2G138410	UDP-glucose 4-epimerase 4
GRMZM2G138516	Putative clathrin assembly protein
GRMZM2G138624	Nicotinamidase 1
GRMZM2G138800	Minor allergen Alt a 7 (NAD(P)H dehydrogenase (Quinone) FQR1)
GRMZM2G138888	Putative 3-deoxy-D-manno-octulosonic acid transferase mitochondrial
GRMZM2G138896	THAUMATIN-LIKE PROTEIN 1
GRMZM2G139175	Uncharacterized protein
GRMZM2G139223	Protein kinase superfamily protein
GRMZM2G139293	Uncharacterized protein
GRMZM2G139300	Beta-fructofuranosidase, cell wall isozyme
GRMZM2G139396	Pectate lyase (EC 4.2.2.2)
GRMZM2G139574	Glycosyltransferase family 61 protein
GRMZM2G139650	Phytoene dehydrogenase-like
GRMZM2G140160	Protein binding protein
GRMZM2G140443	Synaptotagmin-3
GRMZM2G140674	Uncharacterized protein
GRMZM2G140893	Putative pectin methyltransferase QUA2
GRMZM2G140901	NAC domain-containing protein 79 (Putative NAC domain transcription factor superfamily protein)
GRMZM2G141216	Putative RING zinc finger domain superfamily protein
GRMZM2G141379	E3 ubiquitin protein ligase DRIP2
GRMZM2G142409	Reticulon-like protein
GRMZM2G142709	Hexosyltransferase (EC 2.4.1.-)
GRMZM2G142779	Formin-like protein
GRMZM2G143187	UDP-galactose/UDP-glucose transporter 4
GRMZM2G143211	Autophagy-related protein 18c
GRMZM2G143238	Putative LRR receptor-like serine/threonine-protein kinase
GRMZM2G143397	Uncharacterized protein
GRMZM2G143535	DNA-3-methyladenine glycosylase
GRMZM2G143591	Phosphatidylinositol N-acetylglucosaminyltransferase subunit P-related
GRMZM2G143640	Putative MYB DNA-binding domain superfamily protein
GRMZM2G143703	Catalytic/ hydrolase
GRMZM2G143883	Long-chain-alcohol oxidase (EC 1.1.3.20)

GRMZM2G143955	Acyl-[acyl-carrier-protein] hydrolase (EC 3.1.2.-)
GRMZM2G144153	Glutathione peroxidase
GRMZM2G144275	Transcription factor bHLH62
GRMZM2G144653	Thioredoxin
GRMZM2G144707	HVA22-like protein
GRMZM2G144782	CHY-type/CTCHY-type/RING-type Zinc finger protein
GRMZM2G145065	MADS box interactor-like
GRMZM2G145396	ATOZ11
GRMZM2G145552	Cupredoxin superfamily protein
GRMZM2G145775	Peroxisome biogenesis protein 22
GRMZM2G145814	Alpha/beta-Hydrolases superfamily protein
GRMZM2G146163	Chaperone protein dnaJ 20
GRMZM2G146280	Autophagy-related protein 18a (WD-repeat domain phosphoinositide-interacting protein 3)
GRMZM2G146337	Putative purine permease 11
GRMZM2G146380	NAC30 NAC type transcription factor
GRMZM2G146463	Alpha-galactosidase (EC 3.2.1.22) (Melibiase)
GRMZM2G146486	DNA-binding protein SMUBP-2 (p-loop containing nucleoside triphosphate hydrolase superfamily protein)
GRMZM2G146540	Expansin
GRMZM2G146644	Cytokinin oxidase1
GRMZM2G146866	Putative L-type lectin-domain containing receptor kinase S.5
GRMZM2G146951	Transmembrane 9 superfamily member
GRMZM2G147245	Trans-cinnamate 4-monooxygenase
GRMZM2G147268	Putative low-specificity L-threonine aldolase 1
GRMZM2G147346	MYB transcription factor (Myb domain protein 15) (Transcription factor MYB15)
GRMZM2G147399	Early nodulin-related
GRMZM2G147534	S-adenosyl-L-methionine-dependent methyltransferase superfamily protein
GRMZM2G147775	Actin-depolymerizing factor 5
GRMZM2G148176	Beta-glucosidase 26 (Beta-glucosidase 44)
GRMZM2G148333	AP2-EREBP transcription factor (Ethylene response factor) (Ethylene-responsive transcription factor RAP2-2)
GRMZM2G148387	Grx_C2.1-glutaredoxin subgroup I
GRMZM2G148561	Putative WRKY DNA-binding domain superfamily protein
GRMZM2G148855	DUF936 family protein
GRMZM2G148969	Putative cytochrome P450 superfamily protein
GRMZM2G149093	Alpha/beta-Hydrolases superfamily protein
GRMZM2G149286	CDC2+/CDC28-related protein kinase R2
GRMZM2G149636	3-ketoacyl-CoA synthase (EC 2.3.1.-)
GRMZM2G149662	COV1-like protein (Protein LIKE COV 2)
GRMZM2G149700	Uncharacterized protein
GRMZM2G149714	Germin-like protein subfamily 1 member 8 (Putative germin-like protein 12-4)
GRMZM2G149775	Histone H2A
GRMZM2G149843	Putative vesicle-associated membrane protein family protein
GRMZM2G149903	Inositol-tetrakisphosphate 1-kinase (EC 2.7.1.134)

GRMZM2G149969	Core-2/I-branching beta-16-N-acetylglucosaminyltransferase family protein
GRMZM2G150014	Adenylate kinase 1 chloroplastic
GRMZM2G150187	Alpha-L-fucosidase 2
GRMZM2G150264	Glycosyltransferases (EC 2.4.-.-)
GRMZM2G150543	Protein DETOXIFICATION (Multidrug and toxic compound extrusion protein)
GRMZM2G150648	ATG8-interacting protein 1
GRMZM2G150729	Transcription factor bHLH112
GRMZM2G150859	Uncharacterized protein
GRMZM2G150893	Peroxidase (EC 1.11.1.7)
GRMZM2G150925	UPF0496 protein
GRMZM2G151204	RING-type E3 ubiquitin transferase (EC 2.3.2.27)
GRMZM2G151237	Uncharacterized protein
GRMZM2G151249	Germin-like protein subfamily T member 1
GRMZM2G151406	Copper-transporting ATPase RAN1
GRMZM2G151418	WPP domain-interacting protein 2
GRMZM2G151553	(Z)-3-hexen-1-ol acetyltransferase
GRMZM2G151738	Leucine-rich repeat extensin-like protein 3
GRMZM2G151807	Uncharacterized protein
GRMZM2G151992	Catalytic/ hydrolase
GRMZM2G151997	Protein LURP-one-related 14 (Protein LURP-one-related 15)
GRMZM2G152056	DNL zinc finger family protein
GRMZM2G152175	Dihydroflavonol 4-reductase
GRMZM2G152189	Hydroxyproline-rich glycoprotein family protein
GRMZM2G152354	Gibberellin 2-beta-dioxygenase 1 (Gibberellin 2-oxidase9)
GRMZM2G152432	Calmodulin
GRMZM2G152796	Auxin-responsive protein
GRMZM2G152862	MADS transcription factor (MADS29)
GRMZM2G152901	Protein kinase superfamily protein
GRMZM2G152929	ADP-ribosylation factor B1B
GRMZM2G152955	Ribosomal protein L31
GRMZM2G153206	RALF
GRMZM2G153292	Tubulin alpha-1 chain (Alpha-1-tubulin)
GRMZM2G153536	Branched-chain-amino-acid aminotransferase (EC 2.6.1.42)
GRMZM2G153683	SNAP25 homologous protein SNAP33
GRMZM2G153887	Uncharacterized protein
GRMZM2G153977	aspartic proteinase oryzasin-1
GRMZM2G154007	Alcohol dehydrogenase-like 2
GRMZM2G154056	Uncharacterized protein
GRMZM2G154124	Rhamnogalacturonate lyase family protein
GRMZM2G154229	Protein MEI2-like 5
GRMZM2G154317	SAUR-like auxin-responsive protein family
GRMZM2G154394	Uncharacterized protein
GRMZM2G154578	Auxin-responsive family protein
GRMZM2G154687	Phospholipase A1-II 7 (Phospholipase A1-IIgamma)

GRMZM2G154752	Cytochrome P450 family 76 subfamily C polypeptide 7
GRMZM2G155058	Putative serine/threonine protein phosphatase superfamily protein
GRMZM2G155837	Putative leucine-rich repeat receptor-like protein kinase family protein
GRMZM2G155991	Uncharacterized protein
GRMZM2G155998	ARM repeat superfamily protein
GRMZM2G156054	Uncharacterized protein
GRMZM2G156238	Calcium-dependent lipid-binding (CaLB domain) family protein
GRMZM2G156310	Putative carboxylesterase 2
GRMZM2G156575	U6 snRNA phosphodiesterase (EC 3.1.4.-)
GRMZM2G156632	wip1 wound induced protein 1
GRMZM2G156638	Uncharacterized protein
GRMZM2G156881	Protein NEN4
GRMZM2G156956	Protein MEI2-like 1
GRMZM2G157027	Purple acid phosphatase (EC 3.1.3.2)
GRMZM2G157127	Uncharacterized protein
GRMZM2G157132	Uncharacterized protein
GRMZM2G157298	Germin-like protein subfamily 1 member 8
GRMZM2G157510	Cyclin-dependent kinase inhibitor
GRMZM2G157536	Non-specific lipid transfer protein GPI-anchored 2
GRMZM2G157675	Bidirectional sugar transporter SWEET
GRMZM2G157982	Zinc ion binding protein
GRMZM2G158300	UPF0496 protein
GRMZM2G158384	Uncharacterized protein
GRMZM2G158807	Protein NRT1/ PTR FAMILY 1.2
GRMZM2G158848	Uncharacterized protein
GRMZM2G158972	Putative inositol polyphosphate phosphatase (Synaptogenin-like) family protein
GRMZM2G159028	RNA-binding (RRM/RBD/RNP motifs) family protein
GRMZM2G159353	Cytochrome P450 71B10
GRMZM2G159500	GRAB2 protein
GRMZM2G159587	Glyoxylate reductase
GRMZM2G159643	NAD(P)H dehydrogenase (Quinone) FQR1
GRMZM2G159691	Hypoxia induced protein conserved region containing protein
GRMZM2G159700	RmlC-like cupins superfamily protein
GRMZM2G159759	GDSL esterase/lipase
GRMZM2G160175	WAT1-related protein
GRMZM2G160417	3-ketoacyl-CoA synthase (EC 2.3.1.-)
GRMZM2G160430	Sugar transporter ERD6-like 6
GRMZM2G160473	Dicer-like 103
GRMZM2G160504	Sugar transporter ERD6-like 6
GRMZM2G160506	Mannose-1-phosphate guanylyltransferase 1
GRMZM2G160523	UDP-glycosyltransferase 89B1
GRMZM2G160560	GDT1-like protein 4
GRMZM2G160611	Uncharacterized protein
GRMZM2G160619	Putative LRR receptor-like serine/threonine-protein kinase

GRMZM2G160838	Transcription repressor MYB6
GRMZM2G160840	R2R3MYB-domain protein
GRMZM2G161274	Ribonuclease 1 (Ribonuclease 3)
GRMZM2G161299	Mitochondrial carrier protein CoAc2
GRMZM2G161641	Putative amino acid permease 7
GRMZM2G162238	Beta-galactosidase (EC 3.2.1.23)
GRMZM2G162250	ARGOS6
GRMZM2G162284	Uncharacterized protein
GRMZM2G162359	Acidic endochitinase
GRMZM2G162388	Peptidyl-prolyl cis-trans isomerase (PPIase) (EC 5.2.1.8)
GRMZM2G162396	Uncharacterized protein
GRMZM2G162798	DNA-directed RNA polymerase II protein
GRMZM2G163008	Sphinganine C4-monooxygenase 1
GRMZM2G163095	Disease resistance protein RPM1
GRMZM2G163283	DUF538 family protein
GRMZM2G163406	Dirigent protein
GRMZM2G163717	S-acyltransferase (EC 2.3.1.225) (Palmitoyltransferase)
GRMZM2G163726	Tubby-like F-box protein
GRMZM2G164090	Gibberellin-regulated protein 2
GRMZM2G164242	Serine/threonine-protein kinase STY46
GRMZM2G164304	Uncharacterized protein
GRMZM2G164405	1-aminocyclopropane-1-carboxylate synthase2 (Acc synthase)
GRMZM2G164426	NEP1-interacting protein-like 1
GRMZM2G165769	Clavamate synthase-like protein
GRMZM2G165778	Putative homeodomain-like transcription factor superfamily protein
GRMZM2G165839	Germin-like protein subfamily 1 member 8
GRMZM2G165987	Pirin-like protein 2
GRMZM2G166141	Germin-like protein subfamily 1 member 8
GRMZM2G166616	1-aminocyclopropane-1-carboxylate oxidase3
GRMZM2G166642	Putative HLH DNA-binding domain superfamily protein
GRMZM2G166870	Senescence-specific cysteine protease SAG12
GRMZM2G166940	Hexosyltransferase (EC 2.4.1.-)
GRMZM2G167138	Protein NRT1/ PTR FAMILY 8.3
GRMZM2G167356	RNA-binding (RRM/RBD/RNP motifs) family protein
GRMZM2G167387	Uncharacterized protein
GRMZM2G167584	Uncharacterized protein
GRMZM2G167649	Uncharacterized protein
GRMZM2G167673	Cytochrome P450 714D1 (Gibberellin 1617-oxidase1)
GRMZM2G167758	Nuclear transport factor 2 (NTF2) family protein
GRMZM2G167766	Protein COFACTOR ASSEMBLY OF COMPLEX C SUBUNIT B CCB3 chloroplastic
GRMZM2G168365	Bidirectional sugar transporter SWEET
GRMZM2G168474	Cis-zeatin O-glucosyltransferase 1 (cisZOG1) (EC 2.4.1.215)
GRMZM2G168681	Farnesyl pyrophosphate synthase1

GRMZM2G168744	Endonuclease 1
GRMZM2G168833	Lipid binding protein
GRMZM2G168888	Sulfurtransferase (Thiosulfate/3-mercaptopyruvate sulfurtransferase 1 mitochondrial)
GRMZM2G168890	Uncharacterized protein
GRMZM2G169033	Laccase (EC 1.10.3.2) (Benzenediol:oxygen oxidoreductase) (Diphenol oxidase) (Urishiol oxidase)
GRMZM2G169451	Protein yippee-like
GRMZM2G169580	GT-2-like 1
GRMZM2G169966	Putative WRKY DNA-binding domain superfamily protein
GRMZM2G170016	Membrane steroid-binding protein 1
GRMZM2G170017	(+)-neomenthol dehydrogenase (Carbonyl reductase 1)
GRMZM2G170047	Cytochrome P450 71A26
GRMZM2G170167	ROTUNDIFOLIA like 12
GRMZM2G170281	Transmembrane 9 superfamily member
GRMZM2G170509	Acyl-acyl carrier protein thioesterase ATL3 chloroplastic
GRMZM2G170727	Protein AE7-like 1
GRMZM2G170734	Chlorophyllase1
GRMZM2G170805	AIG2-like protein (AIG2-like protein D)
GRMZM2G170829	Germin-like protein subfamily 1 member 8
GRMZM2G170857	Germin-like protein subfamily 1 member 8
GRMZM2G171022	F-box protein
GRMZM2G171254	Uncharacterized protein
GRMZM2G171387	Histone H3
GRMZM2G171559	Uncharacterized protein
GRMZM2G171934	platz4 - PLATZ-transcription factor 4
GRMZM2G172429	LRR receptor-like serine/threonine-protein kinase GSO1
GRMZM2G172448	Uncharacterized protein
GRMZM2G172695	Uncharacterized protein
GRMZM2G172829	CLP protease regulatory subunit CLPX3 mitochondrial
GRMZM2G173063	Cytidine/deoxycytidylate deaminase family protein
GRMZM2G173119	AMSH-like ubiquitin thioesterase 3
GRMZM2G173195	Glycerol-3-phosphate dehydrogenase [NAD(+)] (EC 1.1.1.8)
GRMZM2G173429	Uncharacterized protein
GRMZM2G173669	Bidirectional sugar transporter SWEET
GRMZM2G173682	Cysteine protease (EC 3.4.22.-)
GRMZM2G173684	Anthocyanin-related membrane protein 1 (Anm1)-like
GRMZM2G173878	Ras-related protein Rab-2-B
GRMZM2G173962	Uncharacterized protein
GRMZM2G174147	Uncharacterized protein
GRMZM2G174192	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G174240	Uncharacterized protein
GRMZM2G174286	Tobamovirus multiplication protein 3
GRMZM2G174315	Alpha/beta-Hydrolases superfamily protein (Calmodulin-binding heat-shock protein)
GRMZM2G174621	NAD(P)H dehydrogenase (Quinone) FQR1

GRMZM2G174671	Arginase
GRMZM2G174719	Adhesive/proline-rich protein
GRMZM2G174938	ENTH/VHS family protein
GRMZM2G175000	C2H2 transcription factor (Putative zinc finger protein) (WREBP-2 protein)
GRMZM2G175164	Root-specific kinase 1
GRMZM2G175236	Exonuclease
GRMZM2G175396	Pyridoxal phosphate (PLP)-dependent transferase superfamily protein
GRMZM2G175406	Pro-resilin
GRMZM2G175444	Lachrymatory-factor synthase
GRMZM2G175812	Type III polyketide synthase B
GRMZM2G175927	Eukaryotic aspartyl protease family protein
GRMZM2G176304	Myosin heavy chain-related protein
GRMZM2G176327	Myb domain protein 112
GRMZM2G176375	Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein
GRMZM2G176394	Leucine-rich repeat extensin-like protein 6 (Receptor protein kinase CLAVATA1)
GRMZM2G176430	Tonoplast dicarboxylate transporter
GRMZM2G176630	Hydroxyproline O-galactosyltransferase GALT4
GRMZM2G176660	Uncharacterized protein
GRMZM2G177412	Glutamyl-tRNA reductase (EC 1.2.1.70)
GRMZM2G177878	Putative inactive poly [ADP-ribose] polymerase SRO1
GRMZM2G177947	pyruvate kinase
GRMZM2G178817	Putative germin-like protein 12-4
GRMZM2G178880	Putative mannan synthase 7
GRMZM2G178906	Cysteine proteinases superfamily protein
GRMZM2G179106	Major facilitator superfamily protein
GRMZM2G179349	Bidirectional sugar transporter SWEET
GRMZM2G179351	C2 and GRAM domain-containing protein
GRMZM2G179473	Inositol-tetrakisphosphate 1-kinase (EC 2.7.1.134)
GRMZM2G179662	Protein kinase family protein / WD-40 repeat family protein
GRMZM2G179685	NAD(P)-binding Rossmann-fold superfamily protein
GRMZM2G179703	Acyltransferase (Hydroxycinnamoyltransferase12)
GRMZM2G179792	Phospholipase D (EC 3.1.4.4)
GRMZM2G179797	Threonine synthase 1 chloroplastic (Threonine synthase, chloroplastic)
GRMZM2G180044	Calcium uniporter protein 2, mitochondrial (Calcium uniporter protein 4 mitochondrial)
GRMZM2G180060	Uncharacterized protein
GRMZM2G180328	NAC domain containing protein 32 (NAC protein) (NAC transcription factor)
GRMZM2G180596	HVA22-like protein
GRMZM2G180620	Uncharacterized protein
GRMZM2G180720	Glucose-6-phosphate/phosphate translocator 2
GRMZM2G180732	Neutral/alkaline non-lysosomal ceramidase
GRMZM2G181081	CBL-interacting kinase
GRMZM2G181135	Tryptophan aminotransferase-related protein 4
GRMZM2G181236	Cytochrome P450 family 87 subfamily A polypeptide 6
GRMZM2G181566	UPF0496 protein

GRMZM2G181605	NAC transcription factor (Fragment)
GRMZM2G300125	2C-type protein phosphatase protein (Protein phosphatase 2C 37)
GRMZM2G301355	Serine/threonine-protein kinase-like protein CCR4
GRMZM2G301909	Ubiquitin-specific protease family C19-related protein
GRMZM2G303044	Grx_A2-glutaredoxin subgroup III (Monothiol glutaredoxin-S2)
GRMZM2G303915	Putative RNA-binding protein ARP1
GRMZM2G303965	L-type lectin-domain containing receptor kinase V.9
GRMZM2G303993	Uncharacterized protein
GRMZM2G304108	CASP-like protein
GRMZM2G304573	Putative WRKY DNA-binding domain superfamily protein
GRMZM2G304712	Glycosyltransferase (EC 2.4.1.-)
GRMZM2G306094	Restriction endonuclease type II-like superfamily protein
GRMZM2G306851	Alpha/beta-Hydrolases superfamily protein
GRMZM2G308422	Uncharacterized protein
GRMZM2G308615	2C-type protein phosphatase protein (Protein phosphatase homolog6)
GRMZM2G309258	Cysteine-rich receptor-like protein kinase 25
GRMZM2G309479	Uncharacterized protein
GRMZM2G309747	Indole-3-acetic acid-induced protein ARG7 (SAUR-like auxin-responsive protein family)
GRMZM2G309950	Uncharacterized protein
GRMZM2G311011	HVA22-like protein
GRMZM2G311036	5-pentadecatrienyl resorcinol O-methyltransferase (Benzoxazinone synthesis10)
GRMZM2G311500	Uncharacterized protein
GRMZM2G311680	Aspartic proteinase nepenthesin-2 (Protein ASPARTIC PROTEASE IN GUARD CELL 1)
GRMZM2G312661	Calcium-binding protein CML42
GRMZM2G312877	Lactoylglutathione lyase / glyoxalase I family protein
GRMZM2G313529	DUF679 domain membrane protein 2
GRMZM2G314064	WUSCHEL-related homeobox 11
GRMZM2G314110	Protein LURP-one-related 6
GRMZM2G314652	Shikimate biosynthesis protein aroDE
GRMZM2G314679	Coatomer subunit zeta-2
GRMZM2G316007	Putative SWIM zinc finger family protein
GRMZM2G316033	VQ motif-containing protein
GRMZM2G317386	Metalloendoproteinase 1-MMP
GRMZM2G318033	PLAC8 family protein
GRMZM2G318213	Grx_C15-glutaredoxin subgroup III
GRMZM2G319537	Uncharacterized protein
GRMZM2G320786	Laccase (EC 1.10.3.2) (Benzenediol:oxygen oxidoreductase) (Diphenol oxidase) (Urishiol oxidase)
GRMZM2G321010	Uncharacterized protein
GRMZM2G322001	PRA1 family protein
GRMZM2G322728	Receptor-like serine/threonine-protein kinase SD1-8
GRMZM2G322953	Fructose-16-bisphosphatase cytosolic
GRMZM2G323943	Uncharacterized protein
GRMZM2G325783	Protein TPX2

GRMZM2G326222	Peroxidase (EC 1.11.1.7)
GRMZM2G327189	Cyclic dof factor 2
GRMZM2G328171	Xylanase inhibitor protein 1
GRMZM2G328341	Uncharacterized protein
GRMZM2G329069	Uncharacterized protein
GRMZM2G330229	ATP-dependent DNA helicase (EC 3.6.4.12)
GRMZM2G332390	Auxin responsive protein (SAUR16-auxin-responsive SAUR family member)
GRMZM2G332562	Sodium-coupled neutral amino acid transporter 1 (Transmembrane amino acid transporter family protein)
GRMZM2G332821	L-type lectin-domain containing receptor kinase IX.1
GRMZM2G334165	Protein kinase superfamily protein
GRMZM2G334181	Protein kinase (Putative DUF26 domain family protein)
GRMZM2G334336	UDP-glycosyltransferase 74B1
GRMZM2G334514	Ripening-related protein 3
GRMZM2G334574	UPA23
GRMZM2G335407	Uncharacterized protein
GRMZM2G336766	Ocs element-binding factor 1
GRMZM2G336824	Benzoxazinone synthesis11
GRMZM2G339523	Monooxygenase 1
GRMZM2G340656	Stachyose synthase
GRMZM2G341271	E3 ubiquitin-protein ligase BRE1-like 2
GRMZM2G341499	Glutamate receptor
GRMZM2G341732	NSP (Nuclear shuttle protein)-interacting GTPase
GRMZM2G342685	Caleosin
GRMZM2G343157	TIFY1 (ZIM motif family protein) (ZIM transcription factor)
GRMZM2G343828	Putative O-Glycosyl hydrolase superfamily protein
GRMZM2G346132	PTI1-like tyrosine-protein kinase 3
GRMZM2G346312	Uncharacterized protein
GRMZM2G346837	Protein MKS1
GRMZM2G347541	Vacuolar-sorting receptor 1
GRMZM2G348125	Ricin B-like lectin R40G3 (Stress responsive protein)
GRMZM2G348257	Uncharacterized protein
GRMZM2G349428	Pectin acetyltransferase (EC 3.1.1.-)
GRMZM2G349665	BRASSINOSTEROID INSENSITIVE 1-associated receptor kinase 1
GRMZM2G349749	Patatin (EC 3.1.1.-)
GRMZM2G349996	Eukaryotic translation initiation factor 1A (Nucleic acid-binding OB-fold-like protein)
GRMZM2G351330	HB transcription factor (Homeobox-leucine zipper protein ATHB-12) (Fragment)
GRMZM2G351832	Uncharacterized protein
GRMZM2G352310	Uncharacterized protein
GRMZM2G352678	Chemocyanin
GRMZM2G353076	Mini zinc finger protein 2 (ZHD9 ZF-HD type transcription factor)
GRMZM2G353313	Uncharacterized protein
GRMZM2G353485	Uncharacterized protein
GRMZM2G353921	Uncharacterized protein

GRMZM2G354209	Auxin-responsive protein SAUR71
GRMZM2G354558	Omega-3 fatty acid desaturase
GRMZM2G354909	(+)-neomenthol dehydrogenase
GRMZM2G355906	Glutamate decarboxylase (EC 4.1.1.15)
GRMZM2G356076	Putative LRR receptor-like serine/threonine-protein kinase
GRMZM2G356439	Uncharacterized protein
GRMZM2G358153	Chitinase 1 (Chitinase 2)
GRMZM2G358791	Adenine/guanine permease AZG2
GRMZM2G358830	Proline-rich receptor-like protein kinase PERK1 (Proline-rich receptor-like protein kinase PERK15)
GRMZM2G359664	Rop guanine nucleotide exchange factor 9
GRMZM2G359799	Expansin
GRMZM2G360429	Catalytic/ oxidoreductase, acting on NADH or NADPH
GRMZM2G361513	Uncharacterized protein
GRMZM2G361968	Sec1/munc18-like (SM) proteins superfamily
GRMZM2G362693	Glutaredoxin family protein
GRMZM2G363229	Protein DETOXIFICATION (Multidrug and toxic compound extrusion protein)
GRMZM2G363474	Vacuolar import/degradation Vid27-related protein
GRMZM2G363813	HIPL1 protein
GRMZM2G363926	Senescence-specific cysteine protease SAG12
GRMZM2G364208	Uncharacterized protein
GRMZM2G364566	DUF724 domain-containing protein 2
GRMZM2G364977	LRR receptor-like serine/threonine-protein kinase GSO2 (Leucine-rich repeat receptor protein kinase EMS1)
GRMZM2G366935	Serine/threonine-protein kinase AFC3
GRMZM2G368388	Serine/threonine-protein kinase-like protein
GRMZM2G368886	Expansin
GRMZM2G369391	Uncharacterized protein
GRMZM2G369469	Uncharacterized protein
GRMZM2G369481	Uncharacterized protein
GRMZM2G370155	Uncharacterized protein
GRMZM2G370405	Uncharacterized protein
GRMZM2G370510	WAT1-related protein
GRMZM2G372475	Lipid binding protein
GRMZM2G373554	Uncharacterized protein
GRMZM2G374088	Mitogen-activated protein kinase 17
GRMZM2G376061	Zinc finger protein ZAT11
GRMZM2G376743	Uncharacterized protein
GRMZM2G377215	COBRA-like protein 7 (Roothairless 3)
GRMZM2G377303	Eukaryotic translation initiation factor 3 subunit E
GRMZM2G378452	Protein kinase superfamily protein
GRMZM2G378762	Uncharacterized protein
GRMZM2G379005	GATA transcription factor 8 (Putative GATA transcription factor family protein isoform 1)
GRMZM2G380088	Cytidine deaminase

GRMZM2G380319	Myb-like transcription factor family protein (Transcription factor MYBS3)
GRMZM2G380438	Aldehyde dehydrogenase family 2 member C4
GRMZM2G381576	AAA-ATPase (Cell Division Protein AAA ATPase family)
GRMZM2G381782	Glycosyl hydrolase family 81 protein
GRMZM2G382534	Beta-carotene hydroxylase (Hydroxylase5)
GRMZM2G382673	Retrovirus-related Pol polyprotein LINE-1
GRMZM2G383833	Putative E3 ubiquitin-protein ligase RING1a
GRMZM2G386987	Uncharacterized protein
GRMZM2G386998	Purple acid phosphatase (EC 3.1.3.2)
GRMZM2G388045	Protein GAMETE EXPRESSED 1
GRMZM2G388778	Pentatricopeptide repeat-containing protein (Pentatricopeptide repeat-containing protein mitochondrial)
GRMZM2G390150	Uncharacterized protein
GRMZM2G391696	Uncharacterized protein
GRMZM2G391815	ABC transporter G family member 34
GRMZM2G392168	Trihelix transcription factor ASIL2
GRMZM2G392345	uncharacterized
GRMZM2G392791	Alpha/beta-Hydrolases superfamily protein (Epoxide hydrolase 2)
GRMZM2G392863	Flower-specific gamma-thionin
GRMZM2G394450	Beta-fructofuranosidase 1
GRMZM2G394500	Peroxidase (EC 1.11.1.7)
GRMZM2G395128	Uncharacterized protein
GRMZM2G395236	Uncharacterized protein
GRMZM2G395244	Calmodulin-7
GRMZM2G396527	Putative homeobox DNA-binding and leucine zipper domain family protein
GRMZM2G396951	Uncharacterized protein
GRMZM2G397044	Peptidyl-prolyl cis-trans isomerase (PPIase) (EC 5.2.1.8)
GRMZM2G397261	Uncharacterized protein
GRMZM2G397684	Putative RING zinc finger domain superfamily protein
GRMZM2G399677	RING/FYVE/PHD zinc finger superfamily protein
GRMZM2G399901	E3 ubiquitin-protein ligase makorin
GRMZM2G399921	Uncharacterized protein
GRMZM2G399952	Rhodanese-like domain-containing protein 11 chloroplastic
GRMZM2G400596	Uncharacterized protein
GRMZM2G400707	Uncharacterized protein
GRMZM2G400965	Uncharacterized protein
GRMZM2G403076	Putative FAD-binding Berberine family protein
GRMZM2G403121	OSJNBb0004G23.8-like protein
GRMZM2G403719	Cysteine-rich receptor-like protein kinase 10
GRMZM2G404056	DNA repair metallo-beta-lactamase family protein
GRMZM2G404897	Ran BP2/NZF zinc finger-like superfamily protein
GRMZM2G405094	Putative MYB DNA-binding domain superfamily protein
GRMZM2G406099	Uncharacterized protein
GRMZM2G406108	CASP-like protein

GRMZM2G406196	UPF0496 protein
GRMZM2G407146	Uncharacterized protein
GRMZM2G407969	Auxin responsive protein
GRMZM2G408706	Violaxanthin de-epoxidase3
GRMZM2G408967	Uncharacterized protein
GRMZM2G409101	Uncharacterized protein
GRMZM2G409722	Syringolide-induced protein 14-1-1
GRMZM2G409753	Uncharacterized protein
GRMZM2G410766	Stress responsive protein
GRMZM2G413263	Uncharacterized protein
GRMZM2G413422	Uncharacterized protein
GRMZM2G413460	Uncharacterized protein
GRMZM2G414159	Trihelix transcription factor GT-2
GRMZM2G414727	SAUR56-auxin-responsive SAUR family member
GRMZM2G415229	Trihelix transcription factor GT-3a (Trihelix transcription factor GT-3b)
GRMZM2G416184	BTB/POZ domain-containing protein NPY1 (Orphans transcription factor) (Fragment)
GRMZM2G416625	Purine permease 3
GRMZM2G416632	Glutathione transferase23 (gst23), mRNA
GRMZM2G416817	Alpha/beta-Hydrolases superfamily protein
GRMZM2G416965	Bidirectional sugar transporter SWEET
GRMZM2G418415	Alpha/beta-Hydrolases superfamily protein
GRMZM2G419455	Uncharacterized protein
GRMZM2G419694	Autophagy-related protein
GRMZM2G419891	Polyubiquitin protein (Ubiquitin1) (Ubiquitin2)
GRMZM2G419953	Peroxidase 3
GRMZM2G420882	Serine/threonine-protein kinase
GRMZM2G420883	Uncharacterized protein
GRMZM2G420988	ADP/ATP carrier protein 1 mitochondrial
GRMZM2G421126	Nucleotide-diphospho-sugar transferase family protein
GRMZM2G421491	Glutathione transporter1
GRMZM2G422631	Pectinesterase (EC 3.1.1.11)
GRMZM2G422649	Cleavage and polyadenylation specificity factor subunit 3-I
GRMZM2G422670	Non-specific phospholipase C4
GRMZM2G422671	Uncharacterized protein
GRMZM2G423643	Hydroxyproline-rich glycoprotein family protein
GRMZM2G425427	MYB transcription factor (Putative MYB DNA-binding domain superfamily protein)
GRMZM2G425719	Flavin-containing monooxygenase (EC 1.-.-.-)
GRMZM2G425729	Uncharacterized protein
GRMZM2G425798	Putative AP2/EREBP transcription factor superfamily protein
GRMZM2G426917	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5
GRMZM2G428040	Transcription activator-related
GRMZM2G428370	Putative leucine-rich repeat receptor-like protein kinase family protein
GRMZM2G429035	Uncharacterized protein
GRMZM2G429617	Plant viral-response family protein-like

GRMZM2G430623	Uncharacterized protein
GRMZM2G431856	Pectinesterase (EC 3.1.1.11)
GRMZM2G432722	Putative receptor-like protein kinase family protein
GRMZM2G433959	Uncharacterized protein
GRMZM2G434170	probable purple acid phosphatase 20
GRMZM2G434715	Acyl-CoA N-acyltransferase with RING/FYVE/PHD-type zinc finger domain
GRMZM2G434935	Oligopeptide transporter-like protein
GRMZM2G436084	Thioredoxin H-type 5
GRMZM2G438121	Uncharacterized protein
GRMZM2G438299	Uncharacterized protein
GRMZM2G438301	Uncharacterized protein
GRMZM2G438871	L-type lectin-domain containing receptor kinase V.9
GRMZM2G438960	Potassium transporter
GRMZM2G439246	Putative UPF0496 protein 2 (UPF0496 protein)
GRMZM2G440003	Methylesterase 3
GRMZM2G440614	SUN domain protein2 (Sad1/unc-84-like protein 2)
GRMZM2G440866	NEP1-interacting protein-like 1 (RING-H2 finger protein ATL2B)
GRMZM2G440925	Myosin heavy chain-related protein
GRMZM2G441541	Respiratory burst oxidase4
GRMZM2G441903	Zinc finger A20 and AN1 domain-containing stress-associated protein 5
GRMZM2G442546	Sugar transport protein 5
GRMZM2G442658	Alcohol dehydrogenase 1
GRMZM2G443495	Fatty acid amide hydrolase
GRMZM2G443548	BTB/POZ domain-containing protein
GRMZM2G445261	Putative carboxylesterase 15
GRMZM2G447551	Calmodulin-binding transcription activator 2
GRMZM2G447795	Xylanase inhibitor protein 1
GRMZM2G448627	Seed maturation protein
GRMZM2G448925	WW domain-binding protein 11
GRMZM2G449094	NDR1/HIN1-like 25
GRMZM2G449163	Phosphatidylinositol-3-phosphatase myotubularin-1
GRMZM2G449177	Phosphatidylinositol-3-phosphatase myotubularin-1
GRMZM2G449987	Uncharacterized protein
GRMZM2G450048	Uncharacterized protein
GRMZM2G450498	Uncharacterized protein
GRMZM2G451716	Protein MEI2-like 1
GRMZM2G453805	Chitinase chem5
GRMZM2G455440	Uncharacterized protein
GRMZM2G456000	Calcium permeable stress-gated cation channel 1
GRMZM2G456059	Serine/threonine-protein kinase Nek1
GRMZM2G456217	Vignain
GRMZM2G457346	Seed maturation protein PM41
GRMZM2G457562	Ethylene-responsive transcription factor ABR1
GRMZM2G460078	Long-chain-fatty-acid-CoA ligase-like protein

GRMZM2G460958	RING-H2 finger protein ATL3
GRMZM2G461666	Methyl esterase 10 (Putative esterase PIR7A)
GRMZM2G462924	Uncharacterized protein
GRMZM2G463415	ENTH/VHS family protein
GRMZM2G465226	Pathogenesis related protein4
GRMZM2G465680	Uncharacterized protein
GRMZM2G466460	Uncharacterized protein
GRMZM2G466545	Phosphate transporter2
GRMZM2G467123	Protein NUCLEAR FUSION DEFECTIVE 4
GRMZM2G467520	Uncharacterized protein
GRMZM2G467682	Uncharacterized protein
GRMZM2G467934	Uncharacterized protein
GRMZM2G468111	Uncharacterized protein
GRMZM2G468479	Protein ALWAYS EARLY 3
GRMZM2G468657	Aspartic proteinase nepenthesin-1
GRMZM2G469175	L-type lectin-domain containing receptor kinase V.9
GRMZM2G470882	Uncharacterized protein
GRMZM2G471039	Uncharacterized protein
GRMZM2G471065	Putative endo-1,4-beta-mannosidase family protein
GRMZM2G471970	AT-hook motif nuclear-localized protein 16
GRMZM2G472248	Protein induced upon tuberization
GRMZM2G473016	Putative RING zinc finger domain superfamily protein
GRMZM2G473976	Putative isoprenylcysteine alpha-carbonyl methylesterase IC MEL2
GRMZM2G474113	Uncharacterized protein
GRMZM2G474555	Uncharacterized protein
GRMZM2G474575	Kunitz trypsin inhibitor 1
GRMZM2G475293	Haloacid dehalogenase-like hydrolase domain-containing protein Sgpp
GRMZM2G475952	Uncharacterized protein
GRMZM2G475984	Putative WRKY transcription factor 50
GRMZM2G477063	Methionyl-tRNA synthetase
GRMZM2G477205	E3 ubiquitin ligase BIG BROTHER-related
GRMZM2G477872	ABC transporter G family member 34
GRMZM2G478370	Methyl-CpG-binding domain-containing protein 13
GRMZM2G478568	Nicotianamine synthase 3
GRMZM2G478779	Actin-7
GRMZM2G479112	Non-specific phospholipase C2
GRMZM2G479442	Uncharacterized protein
GRMZM2G479906	ABC transporter G family member 40
GRMZM2G480698	Leucine-rich repeat extensin-like protein 6
GRMZM2G512469	Uncharacterized protein
GRMZM2G516421	CASP-like protein
GRMZM2G521967	Uncharacterized protein
GRMZM2G532387	Adenine nucleotide alpha hydrolase-like superfamily protein
GRMZM2G541448	Uncharacterized protein

GRMZM2G542272	Uncharacterized protein
GRMZM2G547723	Sterile alpha motif (SAM) domain-containing protein
GRMZM2G570109	Uncharacterized protein
GRMZM2G578659	Uncharacterized protein
GRMZM2G581155	NifS-like protein
GRMZM2G700200	Uncharacterized protein
GRMZM2G700291	Putative symbiosis receptor-like kinase
GRMZM2G700806	Uncharacterized protein
GRMZM2G701801	NADPH:quinone oxidoreductase
GRMZM2G701807	Uncharacterized protein
GRMZM2G702244	Uncharacterized protein
GRMZM2G702564	Uncharacterized protein
GRMZM2G703370	Uncharacterized protein
GRMZM2G703688	Uncharacterized protein
GRMZM2G703858	RPM1-interacting protein 4
GRMZM5G800751	Thylakoidal processing peptidase 1 chloroplastic
GRMZM5G801436	UMP-CMP kinase (EC 2.7.4.14) (Deoxycytidylate kinase) (CK) (dCMP kinase) (Uridine monophosphate/cytidine monophosphate kinase) (UMP/CMP kinase) (UMP/CMPK)
GRMZM5G801953	Uncharacterized protein
GRMZM5G803318	Saposin B domain-containing protein
GRMZM5G804658	Fes1B
GRMZM5G805609	Glucan endo-13-beta-glucosidase 14
GRMZM5G808756	Uncharacterized protein
GRMZM5G809178	Uncharacterized protein
GRMZM5G809195	Auxin-responsive protein
GRMZM5G811593	low affinity nitrate transporter
GRMZM5G812126	DUF679 domain membrane protein 7
GRMZM5G812228	ACS-like protein
GRMZM5G812272	Putative WRKY transcription factor 28 (Putative WRKY transcription factor 71)
GRMZM5G812326	DUF679 domain membrane protein 7
GRMZM5G813007	Putative amino-acid acetyltransferase NAGS1 chloroplastic
GRMZM5G813363	Uncharacterized protein
GRMZM5G814101	Uncharacterized protein
GRMZM5G817403	Uncharacterized protein
GRMZM5G818643	BHLH transcription factor (Transcription factor bHLH76) (Fragment)
GRMZM5G822593	Lipoxygenase (EC 1.13.11.-)
GRMZM5G825226	TRAM LAG1 and CLN8 (TLC) lipid-sensing domain containing protein
GRMZM5G825321	Scarecrow-like protein 6
GRMZM5G825978	Uncharacterized protein
GRMZM5G826174	Uncharacterized protein
GRMZM5G827365	F-box domain containing protein
GRMZM5G828630	Alanine aminotransferase 2 mitochondrial
GRMZM5G829831	Uncharacterized protein
GRMZM5G830457	Uncharacterized protein

GRMZM5G830545	Amino acid permease 6
GRMZM5G831224	Uncharacterized protein
GRMZM5G832772	Multidrug resistance associated protein2
GRMZM5G833066	Uncharacterized protein
GRMZM5G833332	DUF1997 family protein
GRMZM5G837969	Binding
GRMZM5G838098	Protein TIFY 10B
GRMZM5G841619	Indole-3-glycerol phosphate lyase (Tryptophan synthase alpha subunit1)
GRMZM5G842071	Laccase (EC 1.10.3.2) (Benzenediol:oxygen oxidoreductase) (Diphenol oxidase) (Urishiol oxidase)
GRMZM5G842877	Uncharacterized protein
GRMZM5G846405	Oxidative stress 3
GRMZM5G847159	Putative cytochrome P450 superfamily protein
GRMZM5G851490	Putative WRKY DNA-binding domain superfamily protein
GRMZM5G851734	Uncharacterized protein
GRMZM5G851815	Lycopene beta/epsilon cyclase protein
GRMZM5G852378	Protein QUIRKY
GRMZM5G852663	Cytochrome P450 734A1 (Cytochrome P450 734A4)
GRMZM5G852833	Uncharacterized protein
GRMZM5G856306	E3 ubiquitin-protein ligase
GRMZM5G856366	DEXH-box ATP-dependent RNA helicase DEXH16 mitochondrial
GRMZM5G857641	O-fucosyltransferase family protein
GRMZM5G857701	NAC domain containing protein 74
GRMZM5G859099	Auxin efflux carrier component
GRMZM5G860137	Putative acetyl-CoA acetyltransferase cytosolic 2
GRMZM5G860214	RING-H2 finger protein ATL7
GRMZM5G860632	Uncharacterized protein
GRMZM5G863602	Senescence-associated protein DH (Tetraspanin-8)
GRMZM5G864735	Histone H3.2
GRMZM5G864815	Thiamin diphosphokinase2
GRMZM5G865508	F-box protein (MYND finger family protein)
GRMZM5G865811	Patatin (EC 3.1.1.-)
GRMZM5G868168	Protein TRIGALACTOSYLDIACYLGLYCEROL 3 chloroplastic
GRMZM5G868296	Uncharacterized protein
GRMZM5G868664	Cobalt ion binding (DNA repair RAD52-like protein 2, chloroplastic) (SnRK1-interacting protein 1)
GRMZM5G869350	Sterile alpha motif (SAM) domain-containing protein
GRMZM5G870446	Plastid-lipid-associated protein 2 (Putative plastid-lipid-associated protein 2 chloroplastic)
GRMZM5G870932	Phosphoenolpyruvate carboxykinase homolog 2 [Zeamays]
GRMZM5G871154	Uncharacterized protein
GRMZM5G872279	Uncharacterized protein
GRMZM5G872392	Bidirectional sugar transporter SWEET
GRMZM5G872499	PHO1-2b (Phosphate transporter3)
GRMZM5G872934	Aldehyde oxidase/xanthine dehydrogenase molybdopterin binding protein
GRMZM5G873277	Putative serine/threonine-protein kinase

GRMZM5G874578	Uncharacterized protein
GRMZM5G874955	ABC transporter G family member 40
GRMZM5G875732	Putative cytochrome P450 superfamily protein
GRMZM5G875864	Glycosyltransferase family 61 protein
GRMZM5G876773	Plasma membrane
GRMZM5G877489	Uncharacterized protein
GRMZM5G877788	Major facilitator superfamily defense2
GRMZM5G878139	Phospholipid synthesis2
GRMZM5G879178	Uncharacterized protein
GRMZM5G881180	Uncharacterized protein
GRMZM5G882364	Copper transport protein family
GRMZM5G882986	Uncharacterized protein
GRMZM5G884972	Protein kinase
GRMZM5G885766	Uncharacterized protein
GRMZM5G886913	Uncharacterized protein
GRMZM5G888502	Uncharacterized protein
GRMZM5G888999	Uncharacterized protein
GRMZM5G889052	Uncharacterized protein
GRMZM5G891425	Uncharacterized protein
GRMZM5G892675	ABC transporter G family member 40
GRMZM5G894233	Proline transporter 2
GRMZM5G894568	Putative WRKY transcription factor 9
GRMZM5G897988	Ataxin-3 (Ataxin-3-like protein)
GRMZM5G898290	NAC domain-containing protein 79 (NAC transcription factor)
GRMZM5G898740	Haloacid dehalogenase-like hydrolase (HAD) superfamily protein (Rhythmically expressed protein)
GRMZM6G040576	Uncharacterized protein
GRMZM6G198866	Metallothionein-like protein 2C
GRMZM6G218160	Uncharacterized protein
GRMZM6G257110	NAC
GRMZM6G303298	Dof zinc finger protein DOF2.5
GRMZM6G310687	Homocysteine S-methyltransferase 1 (EC 2.1.1.10)
GRMZM6G332242	Trihelix transcription factor GT-2
GRMZM6G441368	Uncharacterized protein
GRMZM6G508461	Protein THYLAKOID FORMATION 1 chloroplastic
GRMZM6G570512	Uncharacterized protein
GRMZM6G698196	Uncharacterized protein
GRMZM6G699895	Uncharacterized protein
GRMZM6G765233	Receptor-like serine/threonine-protein kinase

Table 2. List of significant GO terms.

GO term	Ontology	Description	<i>P</i> value	FDR
GO:0009737	P	Response to abscisic acid stimulus	1.20E-05	1.90E-02
GO:0005975	P	Carbohydrate metabolic process	1.60E-05	1.90E-02
GO:0050896	P	Response to stimulus	3.50E-05	2.90E-02
GO:0030145	F	Manganese ion binding	4.50E-11	4.00E-08
GO:0045735	F	Nutrient reservoir activity	1.10E-08	4.90E-06
GO:0004553	F	Hydrolase activity, hydrolyzing O-glycosyl compounds	9.50E-07	2.80E-04
GO:0016798	F	Hydrolase activity, acting on glycosyl bonds	2.20E-06	4.90E-04
GO:0016298	F	Lipase activity	7.20E-05	1.30E-02
GO:0070279	F	Vitamin B6 binding	2.10E-04	2.00E-02
GO:0030170	F	Pyridoxal phosphate binding	2.10E-04	2.00E-02
GO:0030246	F	Carbohydrate binding	2.60E-04	2.00E-02
GO:0046872	F	Metal ion binding	2.40E-04	2.00E-02
GO:0043167	F	Ion binding	2.10E-04	2.00E-02
GO:0019842	F	Vitamin binding	2.50E-04	2.00E-02
GO:0043169	F	Cation binding	2.10E-04	2.00E-02
GO:0003824	F	Catalytic activity	4.00E-04	2.70E-02
GO:0048046	C	Apoplast	4.80E-09	1.30E-06
GO:0005576	C	Extracellular region	7.10E-09	1.30E-06
GO:0009505	C	Plant-type cell wall	2.80E-05	3.40E-03
GO:0030312	C	External encapsulating structure	4.10E-04	2.40E-02
GO:0005618	C	Cell wall	3.80E-04	2.40E-02
GO:0005886	C	Plasma membrane	3.10E-04	2.40E-02

P, biological process; F, molecular function; C, cellular component.