

Supplemental Figure 1  
Dong et al.

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NbMADS4-1      MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIFSNRGKLYEFCST
NbMADS4-2      MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIFSSRGKLYEFCST
NtMADS4        MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIFSSRGKLYEFCST
SlMADS1        MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIFSNRGKLYEFCST
                *****

NbMADS4-1      SSMMKTIEKYQHCSYASSLASQSVTD-TQNNYHEYLRRLKARVELLQRSQRNLLGEDLGTL
NbMADS4-2      SSMMQTSCLKYQCCSYASLDPMQASDHTRNNYHEYLRRLKARVELLQRSQRNLLGEDLGTL
NtMADS4        SSMMQTSCLKYQCCSYASLDPMQASDHTQNNYHEYLRRLKARVELLQRSQRNLLGEDLGTL
SlMADS1        SSMVKTIEKYQRCSYATSLANQSVTD-TQNNYHEYLRRLKARVELLQRSQRNLLGEDLGTL
                ***..*.***.***.*.  ** .* *.*****

NbMADS4-1      STKDSLQSLNQSLSLQKIRSRKTQFMLDQLAELQREQMLAESNHLRRKSLESAAAGIP
NbMADS4-2      NSKESLHSLHQLDSSLKQIRSRKTQNMQLDLADLQKEQMLAEANKQLRRKSLESAAARVP
NtMADS4        NSGESLHSLHQLDSSLKQIRSRKTQNMQLDLADLQKEQMLAEANKQLRRKSLESAAARVP
SlMADS1        SSKDSLQSLNQSLSLQKIRSRKTQFMLDQLADLQKEQMLAESNRLRRKSLESVAGFP
                . .*.***..*.***** *****.***.***.*. ***** * *

NbMADS4-1      LRLCWEDG---TQAMQVNRLPQTEGFFQPLGLTSS-PQFGYN-HVGTDEVNGGASAHNMN
NbMADS4-2      LRLSWDNGG-QTMQHNRQLPPQTEGFFQPLGLNSS-PQFGYSTPMGGNEVNAAATANNMN
NtMADS4        LRLSWDNGG-QTMQHNRQLPPQTEGFFQPLGLNSS-PQFGYS-PMGGNEVNAAATANNMN
SlMADS1        LRLCWEDGGDQLMHQQRNRLPNTTEGFFQPLGLHSSSPHFGYN-PVNTDEVNAAATAHNMN
                ***.*. * . . *.***** ** *.*. * . . *** *.***

NbMADS4-1      GFIPGWML
NbMADS4-2      GFIPGWML
NtMADS4        GFIPGWML
SlMADS1        GFIPGWML
                *** ****
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Supplemental Figure 3  
Dong et al.

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NbMADS4-1F1      --GGGAAGAGGAAGAGTTGAACTAAAGAGAATAGAGAACAAAATAAACAGGCAAGTTACT
NbMADS4-2F1      ATGGGAAGAGGAAGAGTTGAACTAAAGAGGATAGAGAACAAAATAAACAGGCAAGTTACT
                  *****
NbMADS4-1F1      TTTGCTAAGAGAAGAAATGGACTTCTCAAGAAAGCCTATGAACTTTCTGTTCTCTGCGAT
NbMADS4-2F1      TTTGCAAAGAGAAGAAATGGACTTCTCAAAAAGCTTATGAACTTTCAGTTTATGTGAT
                  *****
NbMADS4-1F1      GCTGAGGTTGCTCTTATCATCTTCTCTAATCGTGGTAACTATATGAGTTCTGCAGTACT
NbMADS4-2F1      GCTGAAGTTGCTCTTATCATCTTCTCTAGCCGTGGCAAACCTATGAATTTGCAGCACT
                  *****
NbMADS4-1F1      TCAAGCATGATGAAAACAATTGAAAAATATCAACATTGTAGCTATGCTTCTTGGGAAGCC
NbMADS4-2F1      TCTAGCATGATGCAAACACTTGAAAAGTATCAACAATGCAGCTACGCCTTTGGACCCA
                  *****
NbMADS4-1F1      AGCCAATCAGTFACTGAT---ACTCAGAACAAC TACCACGAGTATTTGAGGCTAAAAGCT
NbMADS4-2F1      ATGCAATCAGCTAGCGATCATACTCGGAACAATTACCATGAGTATCTGAGGCTAAAAGCT
                  *
NbMADS4-1F1      AGAGTCGAGCTCCTACAGCGATCTCAGAGAAACCTTCTTGGGGAAGATTTGGGGACATTA
NbMADS4-2F1      AGAGTTGAGCTTCTTCAACGATCTCAGAGAAATCTTCTTGGGAGGACTTGGGCACAC--
                  *****
NbMADS4-1F1      AGTACCAAGGACCTCGAGCAGCTTGAGAATCAATTAGAGGCGTCTTAAAGCAAATCAGG
NbMADS4-2F1      -----

NbMADS4-1F1      TCAAGGAAG
NbMADS4-2F1      -----
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**Supplemental Table1.** Primers used to generate *N. benthamiana* cDNA fragments by RT-PCR for VIGS.

Gene	Strand	Primer sequences
<i>MAP3K</i>	F	CGACGACAAGACCCTGGAGGGGCAGCTTCTACTGATG
	R	GAGGAGAAGAGCCCTCCATTTCCGCAGCTTGCTCCTG
<i>Agamous-like</i>	F	CGACGACAAGACCCTCTGTGCTCTGTGATGCTGAGGTTG
	R	GAGGAGAAGAGCCCTCGAGTATCAAATTGATGAGGTGGAGGC
<i>NbMADS4</i>	F	CGACGACAAGACCCTGGGAAGAGGAAGAGTTGAACTTAAG
	R	GAGGAGAAGAGCCCTCTTCCTTGACCTGATTTGCTTCAAGG
<i>Ribosomal protein L11-like</i>	F	CGACGACAAGACCCTGCTCGTTCTCAACATCTCTGTCCG
	R	GAGGAGAAGAGCCCTGGTATCCTGGGCGTTCTAGGACAAC
<i>Phosphatase 2A</i>	F	CGACGACAAGACCCTCCAGCTATTGTTGAGCTGGCAGAG
	R	GAGGAGAAGAGCCCTGCGAACATCAACATCAGGGTCTTC
<i>Alpha-tubulin</i>	F	CGACGACAAGACCCTGAGAGTGCATTTCAATCCACATTGGCCAG
	R	GAGGAGAAGAGCCCTGTGATCCAAGGCCAGAACCAGTGCC
<i>Phloem transcription factor M1</i>	F	CGACGACAAGACCCTCTGGTCAGAGACAGGGGCAGCCTG
	R	GAGGAGAAGAGCCCTCCTGTGATTGTTGCAACGGAATC
<i>RuBisCO small subunit 3A/3C</i>	F	CGACGACAAGACCCTGCTAACATGGTTGCACCTTCTACTG
	R	GAGGAGAAGAGCCCTCTTCGCCTCTTCTACCTCAGCC
<i>Cyclin-dependent protein kinase p34cdc2</i>	F	CGACGACAAGACCCTGGTGAAGGAACGTACGGCGTAGTG
	R	GAGGAGAAGAGCCCTGAGTAGTGGCGTGATCCTAGCAG
<i>Expressed protein</i>	F	CGACGACAAGACCCTGCTGTCAGTGGAGAACTTGAG
	R	GAGGAGAAGAGCCCTGCCTGGAGGCGCTTCCCTAGTTG
<i>HSP70</i>	F	CGACGACAAGACCCTGGCGATCGGAATCGATCTCGGAAC
	R	GAGGAGAAGAGCCCTCTGTTCTCAATCTTCTAAGGGCTC
<i>Geranylgeranyl reductase</i>	F	CGACGACAAGACCCTCACCGCCTCCGTCAATCCTCGCC
	R	GAGGAGAAGAGCCCTGCGACACGGGAATTTGCACCGTC
<i>Polyubiquitin</i>	F	CGACGACAAGACCCTGAAGGAATCCCACCGGACCAGC
	R	GAGGAGAAGAGCCCTGCTAGGGTTCGGCCATCTTCCAAC
<i>Plastidic aldolase NPALDP1</i>	F	CGACGACAAGACCCTCTCGCTATGCTGCAATTTCTCAGGAC
	R	GAGGAGAAGAGCCCTAACATTCCCTTCTTGGCCTCCTCAG

**Supplemental Table 2.** Primers for semi-quantitative RT-PCR.

Gene	Strand	Primer sequences
<i>MAP3K</i>	F	GCAGAGGTTTCTGGACGTGGAAGG
	R	CAAGCCCACCATGAGCGCGAAGCTG
<i>Agamous-like</i>	F	CTCTCCACAAAGGAAACTGGGAAGAG
	R	GACTAGTTGAAGAGATGGTTGGTC
<i>NbMADS4</i>	F	CGACGACAAGACCCTGAAGATTTGGGGACATTAAGTAC
	R	GAGGAGAAGAGCCCTCACCCATGGGACTATATCCAAATTGAGG
<i>Ribosomal protein L11-like</i>	F	CCGATGAGGGAGATTAAGTCCAG
	R	CACCTTCATATTTGACCTGGAACCAC
<i>Phosphatase 2A</i>	F	CGACTATTGCACGTGCCCTTGGTGAG
	R	CTAGTGGGCTCAGGCCCTACAGCTTCAC
<i>Alpha-tubulin</i>	F	CAGGCGCTCACTGGACATTGAGC
	R	CTTCAGCACCAACCTCCTCATAATCC
<i>Phloem transcription factor M1</i>	F	CAGCGAACATGCCTCTATCTCAACAG
	R	GCTGCTGCATTTGCGGAATCTGCTG
<i>RuBisCO small subunit 3A/3C</i>	F	GGCTTCCTCAGTTCTTTCCTCTGC
	R	GTAGCCTTCTGGCTTGTAGGCGATG
<i>Cyclin-dependent protein kinase p34cdc2</i>	F	GTGAGGTTGCAGGATGTTGTGCACAG
	R	CTGGCAGTGATTCTCTTGCTGGGATC
<i>Expressed protein</i>	F	CCTAAACTGGACGTCCGCTCACTG
	R	GGAGTAGACTGTAAAAGCACCCGGAG
<i>HSP70</i>	F	CGTGCCAGATTTGAGGAGTTGAAC
	R	CTGTGATCTGTGGCACACCCCTAGGTG
<i>Geranylgeranyl reductase</i>	F	CGGTGACTACGAGTACGCTATTGC
	R	GTACGTTGGCCAATAAGTCTTGTCC
<i>Polyubiquitin</i>	F	GACCATAACCCTTGAGGTTGAAAGCTCC
	R	CTCTGCTGGTCCGGTGGGAATACCTTC
<i>Plastidic aldolase NPALDP1</i>	F	CAGCATCTCTCCTCAAGACATCAC
	R	CGAGGCAAGCCATCAAGACCTTGG

### Supplementary Table 3. List of tomato ESTs cloned into TRV-LIC vector

SGN=Solanaceae Genome Network; <http://www.sgn.cornell.edu/>

TIGR=The Institute for Genomic Research; <http://www.tigr.org/>

SGN ID	TIGR ID	Annotation
SGN-U215591	TC117284	adenylate kinase
SGN-U215524	TC117120	Avr9/Cf-9 rapidly elicited protein 216; similar to AtCIPK11
SGN-U219948	TC119729	calcium-dependent protein kinase
SGN-U253789	TC129944	calcium-dependent protein kinase, putative
SGN-U215111	TC117613/128413	casein kinase -related
SGN-U237058	TC117686	casein kinase -related
SGN-U216818	TC122424	CDK-activating kinase
SGN-U218632	TC118413	cell division protein kinase, putative
SGN-U215180	TC125828	cyclin-dependent protein kinase p34cdc2
SGN-U213290	TC115894	guanylate kinase
SGN-U227901		hexokinase - like protein
SGN-U214512	TC116753	histidine kinase -related
SGN-U224568	TC130115	kinase family
SGN-U230347		lectin-like protein kinase
SGN-U221811	TC128145	MAP3K epsilon protein kinase
SGN-U227773	TC122065	MAP3K-like protein kinase
SGN-U216183	TC125769	mitogen-activated protein kinase
SGN-U219275	TC117642	mitogen-activated protein kinase
SGN-U222587	TC127497	mitogen-activated protein kinase
SGN-U215877	TC117232	mitogen-activated protein kinase 3 [Lycopersicon]
SGN-U216124	TC125944/128977	probable serine/threonine-specific protein kinase
SGN-U227044	TC128546	Protein kinase
SGN-U215442	TC126113	protein kinase - related
SGN-U216895	TC118017	protein kinase family
SGN-U222547	TC120359	protein kinase family
SGN-U222742	TC120530	protein kinase family
SGN-U236987	AI897667	protein kinase family
SGN-U215376	TC117597	protein kinase family
SGN-U221687	TC118839	protein kinase family
SGN-U217316	TC127126	protein kinase family

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U218092	TC126439	protein kinase putative
SGN-U222019	TC128481	protein kinase, putative
SGN-U212907	TC127333	protein kinase-like
SGN-U224686	TC128618	protein kinase-like
SGN-U216039	TC119561/130626	protein kinase-like
SGN-U223335	TC122315	protein kinase-related
SGN-U219959	TC119066	putative choline kinase
SGN-U223517	TC129136	putative leucine rich repeat containing protein kinase
SGN-U214229	TC117937/118317	putative protein kinase
SGN-U215637	TC125399	putative protein kinase
SGN-U223027	TC120306	putative protein kinase
SGN-U218650	TC129215	putative receptor protein kinase
SGN-U219091	AW035166	putative receptor ser/thr protein kinase
SGN-U230845	TC130439	putative receptor-like kinase
SGN-U213787	TC117285	putative receptor-like serine-threonine protein kinase
SGN-U219487	TC118370	putative serine/threonine kinase
SGN-U220166	TC127203	pyruvate kinase, putative
SGN-U230817		Pyruvate,phosphate dikinase, chloroplast precursor
SGN-U221648	TC122980	receptor kinase -related
SGN-U215435	TC117205	receptor protein kinase-like
SGN-U221567	TC120194	receptor protein kinase-like
SGN-U219921	TC119198	receptor-like kinase
SGN-U218475	TC117777	receptor-like protein kinase
SGN-U219031	TC127343	receptor-like protein kinase
SGN-U217267	TC117825	receptor-like protein kinase
SGN-U226221	AI486932	receptor-like protein kinase
SGN-U213789	TC125303	receptor-like serine-threonine protein kinase
SGN-U230206	AW930866	receptor-related protein kinase
SGN-U213441	TC118172/129395	serine/threonine protein kinase
SGN-U216277	TC122634/125534	serine/threonine protein kinase, NPH 1-like
SGN-U226750	TC131008	serine/threonine/tyrosine kinase
SGN-U216101	TC125905/126860	Shaggy-like kinase
SGN-U213450	TC116248	shaggy-related protein kinase alpha
SGN-U216573	TC125552	shikimate kinase family
SGN-U222627	TC119157	similar to Arabidopsis CBL-interacting protein kinase 8



<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U224768	TC122804	wee1-like CDK tyrosine kinase
SGN-U231230	TC130936	cytokinin receptor CRE1a
SGN-U227032		pyrophosphate-dependent phosphofructo-1-kinase
SGN-U212887	TC123856	ribose phosphate pyrophosphokinase -related
SGN-U215788	TC125240	ribose-phosphate pyrophosphokinase 2
SGN-U213890	TC125928	phosphoenolpyruvate carboxylase kinase
SGN-U226571	AW650614	hydroxyethylthiazole kinase -related
SGN-U214118	TC126027/126679	protein phosphatase
SGN-U225194	TC126484	protein phosphatase
SGN-U217392	TC119223	protein phosphatase 2A B'kappa subunit [
SGN-U214825	TC124599/130329	protein phosphatase 2A catalytic subunit
SGN-U215467	TC119627	protein phosphatase 2A regulatory subunit B-related
SGN-U247460	AI771367	protein phosphatase 2AB regulatory subunit-like
SGN-U226314	TC118222	protein phosphatase 2C
SGN-U225548	TC123716	protein phosphatase 2C (PP2C), putative
SGN-U238504	TC121915	protein phosphatase 2C (PP2C), putative
SGN-U221533	TC128991	protein phosphatase 2C (PP2C), putative
SGN-U222730	TC128133	protein phosphatase 2C homolog
SGN-U221904	TC119829/119830	protein phosphatase 2C -related
SGN-U212680	TC124499/124501	protein tyrosine phosphatase
SGN-U225991	TC123367	acid phosphatase-related protein
SGN-U231334	TC168083	dual specificity protein phosphatase family protein
SGN-U231700	BF113002	kinase associated protein phosphatase
SGN-U216137	TC117670	MAP kinase phosphatase
SGN-U219796	TC159340	phosphatase 2C family protein
SGN-U215815	TC121642	phosphatidic acid phosphatase (PAP2) family
SGN-U215813	TC119839	phosphatidic acid phosphatase alpha
SGN-U222920	TC130180	phosphoinositide phosphatase family protein
SGN-U217400	TC126828	probable inorganic diphosphatase
SGN-U215067	TC124735	probable inositol-1,4,5-trisphosphate 5-phosphatase
SGN-U215019	TC116990	putative acid phosphatase
SGN-U215885	TC130575	putative inositol polyphosphate 5-phosphatase
SGN-U223124	TC120352	putative protein phosphatase-2C
SGN-U214209	TC125061	Ser/Thr specific protein phosphatase 2A
SGN-U213418	TC124217/124218	serine/threonine protein phosphatase 2A

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U218431	TC117638	type 5 protein serine/threonine phosphatase
SGN-U234495	TC126857	putative inorganic pyrophosphatase
SGN-U213604	TC116459/116460	inorganic pyrophosphatase
SGN-U213462	TC116345/126721	inorganic pyrophosphatase - like protein
SGN-U219020	TC120802	AP2 domain transcription factor, putative
	AW032093	AtbZIP transcription factor
SGN-U216842	TC117426	AT-hook DNA-binding protein, putative
SGN-U214345	TC124798	bZIP DNA-binding protein HBF-1
SGN-U220052	TC128363	bZIP family transcription factor
SGN-U220290	TC129045	bZIP family transcription factor
SGN-U215425	TC125280	bZIP family transcription factor
SGN-U222417	TC127481	bZIP family transcription factor (TGA1)
SGN-U214344	TC124797	bZIP transcription factor
SGN-U227506	AW032093	bZIP transcription factor
SGN-U217064	TC126049	CCAAT-box binding transcription factor subunit B
SGN-U220073	TC128155	c-myc binding protein -related
SGN-U220234	TC119295	GATA transcription factor
SGN-U216318	TC116102	GATA zinc finger protein
SGN-U218025	TC118250/131152	GATA-type zinc finger protein
SGN-U218523	TC129513/129874	heat shock factor protein, putative (HSF6)
SGN-U225155	TC131560	heat shock transcription factor family
SGN-U224034		homeobox-leucine zipper protein
SGN-U221990		homeobox-leucine zipper protein ATHB-7 like
SGN-U213729	TC124451	homeodomain protein
SGN-U213417	TC124192	homeotic protein VAHOX1 - tomato homeobox
SGN-U217280	TC118590	MADS box protein
SGN-U215919	TC117238	MADS box protein TDR6
SGN-U220567	TC118874	MADS-box JOINTLESS protein
SGN-U215918	TC117238	MADs-box protein
SGN-U216564	TC116540/125359/125360	MADS-box protein 1 [ <i>Lycopersicon esculentum</i> ]
SGN-U217082	AI486089	MADS-box transcription factor
SGN-U215971	TC118308	myb-related protein
SGN-U233378		myb-related protein
SGN-U217803	TC120027	myb-related transcription factor
SGN-U217873	TC119661	myb-related transcription factor

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U217437	TC118608	myb-related transcription factor LBM1
SGN-U217157	TC130887	PHAVOLUTA-like HD-ZIPIII protein
SGN-U217966	TC122820	probable MADS box transcription factor
SGN-U223167	TC128630	squamosa-promoter binding protein -related
SGN-U229667		TCP family transcription factor, putative
SGN-U213659	TC125305/126125	TDR4 transcription factor
SGN-U213644	TC124207/124208	transcription factor JERF1
SGN-U213429	TC116186	WRKY DNA-binding protein
SGN-U215122	TC122662	WRKY family transcription factor
SGN-U215123	TC125516	WRKY family transcription factor
SGN-U218504	TC118316	WRKY family transcription factor
SGN-U215688	TC117853	WRKY family transcription factor
SGN-U214107	TC124512/131075	WRKY family transcription factor
SGN-U213244	TC124157	WRKY transcription factor
SGN-U216251	TC125410	YABBY-like transcription factor
SGN-U223009	TC128710	ethylene responsive element binding factor 2 (EREBP-2)
SGN-U220756	TC128476	putative helicase-like transcription factor
SGN-U222941	TC130182	putative myb-related DNA-binding protein
SGN-U215004	TC124766	Floral homeotic protein AGAMOUS (TAG1)
SGN-U214883	TC116955	JERF3
SGN-U214154	TC116559/116560	expressed protein
SGN-U215511	TC116768	Expressed protein
SGN-U221167	TC120210	expressed protein
SGN-U234728		expressed protein
SGN-U234775		expressed protein
SGN-U214634	TC116610	expressed protein
SGN-U215076	TC117374	expressed protein
SGN-U217715	TC125842	expressed protein
SGN-U218349	TC118233	expressed protein
SGN-U216875	TC117838	expressed protein
SGN-U218828	TC118402/118403	Expressed protein
SGN-U219364	TC128759	expressed protein
SGN-U224538	TC127975	expressed protein
SGN-U227068	TC122318	expressed protein
SGN-U222357	TC130539	Expressed protein

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U226365	TC121689	Expressed protein
SGN-U216485	TC122859/125958	expressed protein
SGN-U213810	TC124440	expressed protein
SGN-U213693	TC124313	expressed protein
SGN-U226511	TC122344	expressed protein [Arabidopsis thaliana] SGS3
SGN-U215756	TC124922	hypothetical protein
SGN-U219679	TC127051	hypothetical protein
SGN-U220306	TC118208	hypothetical protein
SGN-U216537	TC116047	hypothetical protein
SGN-U217849	TC126893	hypothetical protein
SGN-U214336	TC116571/116572	unknown
SGN-U214730	TC116684	unknown
SGN-U213837	TC117234	Unknown protein
SGN-U216904	TC125792	unknown protein
SGN-U220552	TC119175	unknown protein
SGN-U223487	TC122006	unknown protein
SGN-U227099		unknown protein
SGN-U215593	TC125030	unknown protein
SGN-U219371	TC126694	unknown protein
SGN-U219503	TC119604/122282	unknown protein
SGN-U233493	TC122308	unknown protein
SGN-U214498	TC117076	unknown protein
SGN-U221570	TC128400	ECR1 Ubiquitin activating enzyme E1 like protein
SGN-U214579	TC116861	Pto-responsive gene 1 protein
SGN-U212779	TC124023/124026	AAA-type ATPase family
SGN-U226307	TC129714	ABC transporter family
SGN-U215402	TC125035	alpha subunit of F-actin capping protein
SGN-U218999	TC119044	calcium-binding EF-hand family protein
SGN-U247494	TC119996	Calmodulin
SGN-U215407	TC117148	chaperonin 21 precursor
SGN-U212651	TC115953/115957	60S RIBOSOMAL PROTEIN L10
SGN-U232644	TC117483	60S ribosomal protein L37
SGN-U225020		acetyl-CoA synthetase
SGN-U213329	TC115867/115870	adenine phosphoribosyltransferase 1, APRT
SGN-U212944	TC124201	aldo/keto reductase family

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U225806	TC131519	alpha-mannosidase, putative
SGN-U212885	TC123957/123958	chloroplast thiazole biosynthetic protein, putative
SGN-U218890	TC118740	clathrin coat assembly like protein
SGN-U214024	TC124426	dehydration-induced protein ERD15
SGN-U212894	TC124476; 124477	disulfide isomerase precursor, putative
SGN-U212838	TC123771; 123775; 123780; 1237	Elongation factor 1-alpha
SGN-U212827	TC123803	Glucan endo-1,3-beta-glucosidase B precursor
SGN-U213190	TC124101	glucosyltransferase
SGN-U217313	TC125669/125670	glutathione S-conjugate ABC transporter
SGN-U223655	TC130531	lipase class 3 family protein
SGN-U213641	TC125673	lipid transfer protein LTP1 precursor
SGN-U215011	TC116781	methylenetetrahydrofolate reductase -related
SGN-U215409	TC117045	NADH-cytochrome b5 reductase
SGN-U214426	TC124503	NADPH:protochlorophyllide oxidoreductase
SGN-U222641	TC130040	P450 monooxygenase
SGN-U224981	TC128317	plastidic cysteine synthase 1
SGN-U215171	TC116557	pyruvate dehydrogenase
SGN-U226206	TC130830	SCARECROW gene regulator, putative
SGN-U228015		self-incompatibility protein S3 precursor
SGN-U223774	TC123115	serine carboxypeptidase, putative
SGN-U221642	TC128983	short-chain dehydrogenase/reductase family protein
SGN-U216281		short-chain dehydrogenase/reductase family protein
SGN-U231528	TC122303	SNF2 domain-containing protein
SGN-U213714	TC123777	spermidine synthase -related
SGN-U215017	TC123835	sterol 24-C-methyltransferase, putative
SGN-U230582		thromboxane-A synthase, putative /cyto P450 family
SGN-U218547	TC128309	transducin / WD-40 repeat protein family
SGN-U244010	TC126162	VDAC2.1
SGN-U214124	TC117869	vesicle transport protein SEC22, putative
SGN-U222752	TC128115	wound-induced protein, putative
SGN-U215153	TC125606	xyloglucan endotransglycosylase LeXET2
SGN-U214357	TC124660	not annotated
SGN-U214905	TC116857	not annotated
SGN-U220498	TC129657	not annotated
SGN-U227487		not annotated

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U245860	TC113304	not annotated
SGN-U215350	TC125341	clathrin adaptor medium chain protein MU1B -related
SGN-U227329	TC129711	DNA nick sensor -related
SGN-U213616	TC116203; 116204	dormancy-associated protein -related
SGN-U220468	TC128307	Protein farnesyltransferase alpha subuni
SGN-U225351	TC120352	putative chloroplast nucleoid DNA binding protein
SGN-U212555	TC116160	ribosomal protein L11-like
SGN-U268205	TC125984	S-adenosyl-L-homocysteinase -related
SGN-U215861	TC117244	AAA-type ATPase family
SGN-U212648	TC115769/115782/124722	alpha-tubulin
SGN-U217341	TC124626	cytochrome b5
SGN-U233728	TC119161	dihydroflavonol 4-reductase family
SGN-U214114	TC117227	epoxide hydrolase
SGN-U227713		flavin-containing monooxygenase (FMO) family
SGN-U220010	TC127270	GAL83 protein
SGN-U225773	TC120567	membrane located receptor-like protein
SGN-U227174	TC131629	pectinesterase family
SGN-U219990	TC128979	putative HSP70
SGN-U213318	TC116053	transcription factor BTF3-related
SGN-U229262		UMUC-like DNA repair family protein
SGN-U215106	TC125008	F-box protein family
SGN-U212676	TC123805	polyubiquitin
SGN-U216384	TC119137	protease-related
SGN-U228406	TC119715	putative nucellin-like aspartic protease
SGN-U218253	TC120170	calcineurin-like phosphoesterase family
SGN-U218823	TC130888	aldehyde dehydrogenase
SGN-U213653	TC124331	aldehyde dehydrogenase 1 precursor
SGN-U220004	TC126840	DnaJ domain-containing protein
SGN-U229703	TC117852	EIL2 [ <i>Lycopersicon esculentum</i> ]
SGN-U226325	TC128894	EIN3-like protein
SGN-U225539	TC116564/123709/123733/123748	glucose-1-phosphate adenylyltransferase small chain
SGN-U217524	TC119394/128000	glycosyl hydrolase family
SGN-U215960	TC126549	MATE efflux protein - related
SGN-U230103		N-acetylglucosaminyltransferase family
SGN-U213372	TC124141	oxidoreductase, 2OG-Fe(II) oxygenase family protein

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U225036	TC127359	pectinesterase - related
SGN-U205878	CK640721	photosystem II protein psbK precursor
SGN-U212702	TC123875	plastidic aldolase NPALDP1 [Nicotiana paniculata]
SGN-U212748	TC124031/124033	Probable glutathione S-transferase
SGN-U216898	TC118371	putative 9-cis-epoxycarotenoid dioxygenase
SGN-U228466		putative pentatricopeptide (PPR) repeat-containing protein
SGN-U218863	TC128352	putative thaumatin-like protein
SGN-U217236	TC125572	replication protein, putative
SGN-U218065	TC126964	thylakoid lumenal 16.5 kDa protein, chloroplast precursor
SGN-U213317	TC116051	transcription factor BTF3-related
SGN-U214637	TC125656/125657	Vacuolar ATP synthase
SGN-U224525		not annotated
SGN-U216730	TC125570	not annotated
SGN-U220888	TC120073	Expressed protein
SGN-U233493	TC122308	Expressed protein
SGN-U216993	TC118300/130314	unknown protein
SGN-U227186		Unknown protein
SGN-U212765	TC123883/123885	Alcohol dehydrogenase
SGN-U221394	TC127962	metal-nicotianamine transporter
SGN-U220416	TC127512	TPR-containing protein
SGN-U223560	TC122540	not annotated
SGN-U315653	TC116955	AP2 domain-containing protein
SGN-U313507	TC124201	aldo/keto reductase family protein
SGN-U315434	TC117873	serine carboxypeptidase S10 family
SGN-U338898		NADH-cytochrome b5 reductase
SGN-U318876	TC117426	DNA-binding family protein
SGN-U321995		clathrin adaptor complexes
SGN-U315857	TC116861	Pto-responsive gene 1 protein
SGN-U325281	TC128630	squamosa promoter-binding protein-like 6
SGN-U326222	TC120735	putative ABC transporter
SGN-U327816		not annotated
SGN-U313367	TC124440	iron-deficiency-responsive protein, putative
SGN-U328237		putative serine carboxypeptidase
SGN-U316612	TC119393	protease-related
SGN-U312660	TC123958	putative chloroplast thiazole biosynthetic protein

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U323440	TC128983	short-chain dehydrogenase/reductase
SGN-U316320	TC116857	not annotated
SGN-U315857	TC116861	Pto-responsive gene 1
SGN-U314192	TC124503	protochlorophyllide reductase
SGN-U315547	TC124661	not annotated
SGN-U316320	TC116857	not annotated
SGN-U312675	TC124476	protein disulfide isomerase-like (PDIL) protein
SGN-U320370	TC128309	WD-40 repeat family protein
SGN-U313041	TC117483	60S ribosomal protein L37
SGN-U322305	TC119295	GATA transcription factor
SGN-U318913	TC125669	glutathione S-conjugate ABC transporter
SGN-U315344	TC117148	chaperonin, chloroplast
SGN-U324705		not annotated
SGN-U319701	TC128400	ubiquitin activating enzyme, putative
SGN-U321958	TC120210	expressed protein
SGN-U320847	TC128115	wound-responsive protein, putative
SGN-U315256	TC125606	xyloglucan:xyloglucosyl transferase
SGN-U318366	TC118299	ethylene-responsive transcriptional coactivator, putative
SGN-U318919	TC118590	MADS-box protein (AGL11)
SGN-U313675	TC125673	nonspecific lipid transfer protein
SGN-U328442		S3 self-incompatibility protein
SGN-U313507	TC124201	aldo/keto reductase family protein
SGN-U312947	TC124101	UDP-glucuronosyl/UDP-glucosyl transferase family
SGN-U317701	TC127517	acyl-activating enzyme
SGN-U316682	TC117238	floral homeotic protein APETALA3
SGN-U333186		kinase family protein
SGN-U312374	TC115953	60S ribosomal protein L10
SGN-U314314	TC117076	expressed protein
SGN-U317074	TC119044	calcium-binding EF hand family
SGN-U322842	TC119175	Putative phosphatase 2A inhibitor
SGN-U318429	TC125792	expressed protein
SGN-U328442		S3 self-incompatibility protein
SGN-U320310	TC118208	methyltransferase-related
SGN-U323071	TC130531	lipase class 3 family
SGN-U317701	TC127517	similar to acyl-activating enzyme



<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U315729		not annotated
SGN-U315087	TC117869	vesicle transport protein SEC22, putative
SGN-U313507	TC124201	aldo/keto reductase family
SGN-U312944	TC123803	glycosyl hydrolase family
SGN-U314886	TC123779	spermidine synthase 1
SGN-U320310	TC118208	methyltransferase-related
SGN-U333346		similarity to thromboxane-A synthase
SGN-U313941	TC123835	S-adenosyl-methionine-sterol-C-methyltransferase
SGN-U315029	TC116560	Drm3-like protein
SGN-U318153		short-chain dehydrogenase/reductase
SGN-U314915	TC116044/116045	Adenosylhomocysteinase
SGN-U321060	TC128307	Protein farnesyltransferase alpha subunit
SGN-U322124	TC128476	helicase-like transcription factor
SGN-U319263	TC119161	dihydroflavonol 4-reductase
SGN-U344705		pectinesterase family
SGN-U344705		pectinesterase family
SGN-U313521	TC116186	sweet potato SPF1 protein
SGN-U317390	TC124626	cytochrome b5 - common tobacco
SGN-U313082	TC124722/115782	alpha-tubulin
SGN-U329724		N-acetylglucosaminyltransferase
SGN-U31867	TC115877	phloem transcription factor M1
SGN-U319244	TC119394/128000	alpha-glucosidase
SGN-U318109	TC127270	GAL83 protein
SGN-U314706	TC123748/123753/116564/123733	RuBisCO small subunit 3A/3C
SGN-U314706	TC123748/123753/116564/123733	RuBisCO small subunit 3A/3C
SGN-U315008	TC125828	cyclin-dependent protein kinase p34cdc2
SGN-U314543		protein phosphatase type 2C
SGN-U326515	TC127359	pectinesterase - related
SGN-U326515	TC127359	pectinesterase - related
SGN-U318109	TC127270	GAL83 protein
SGN-U327452		HSP70
SGN-U317140	TC126549/130883	MATE efflux protein - related
SGN-U318460	TC122424	cdk-activating kinase 1
SGN-U318109	TC127270	GAL83 protein
SGN-U313800	TC124331	aldehyde dehydrogenase

<b>SGN ID</b>	<b>TIGR ID</b>	<b>Annotation</b>
SGN-U313860	TC125656/125657	V-type ATPase
SGN-U319616	TC119223	Bgamma - like protein
SGN-U313084	TC124033/124031	Probable glutathione S-transferase
SGN-U329173		photosystem II protein
SGN-U320503	TC126964	chloroplast thylakoid lumen protein
SGN-U313450	TC124431	geranylgeranyl reductase
SGN-U313263	TC124140/124141	oxygenase family
SGN-U313084	TC124033/124031	glutathione S-transferase
SGN-U313051	TC116167	hin1-like protein
SGN-U313145	TC123805	polyubiquitin
SGN-U317465	TC125359/125360116540	MADS-box protein 1
SGN-U317465	TC125359/125360116540	MADS-box protein 1
SGN-U314706	TC123748/123753/116564/123733	Ribulose bisphosphate carboxylase small chain 3A/3C
SGN-U313495	TC126748	plastocyanin-like domain containing protein
SGN-U319270	TC125572	replication protein, putative
SGN-U339624		DnaJ domain-containing protein
SGN-U312608	TC123875	plastidic aldolase NPALDP1
SGN-U315008	TC125828	cyclin-dependent protein kinase p34cdc2
SGN-U313800	TC124331	aldehyde dehydrogenase 1 precursor [Lotus corniculatus]
SGN-U317289	TC128352	thaumatin-like protein