

## APPENDIX

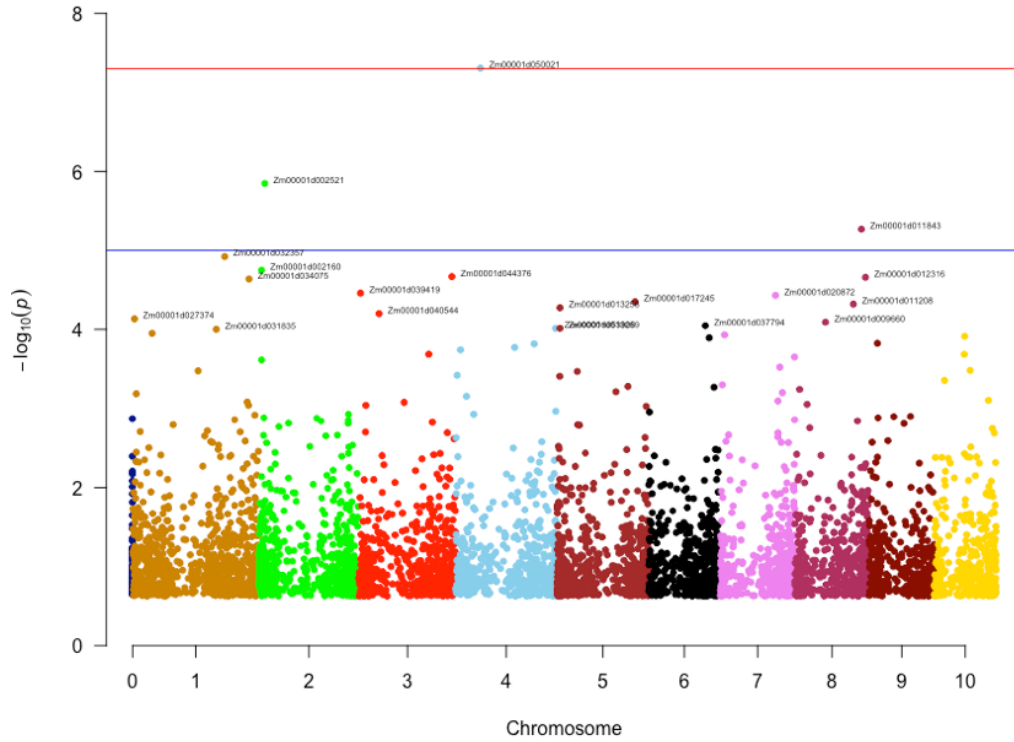


Figure 5.1 Manhattan plot of differentially expressed genes in Oh7b when inoculated and not inoculated in greenhouse. The plot shows the genes that are differentially expressed and with a P value < 0.001. (Group2)

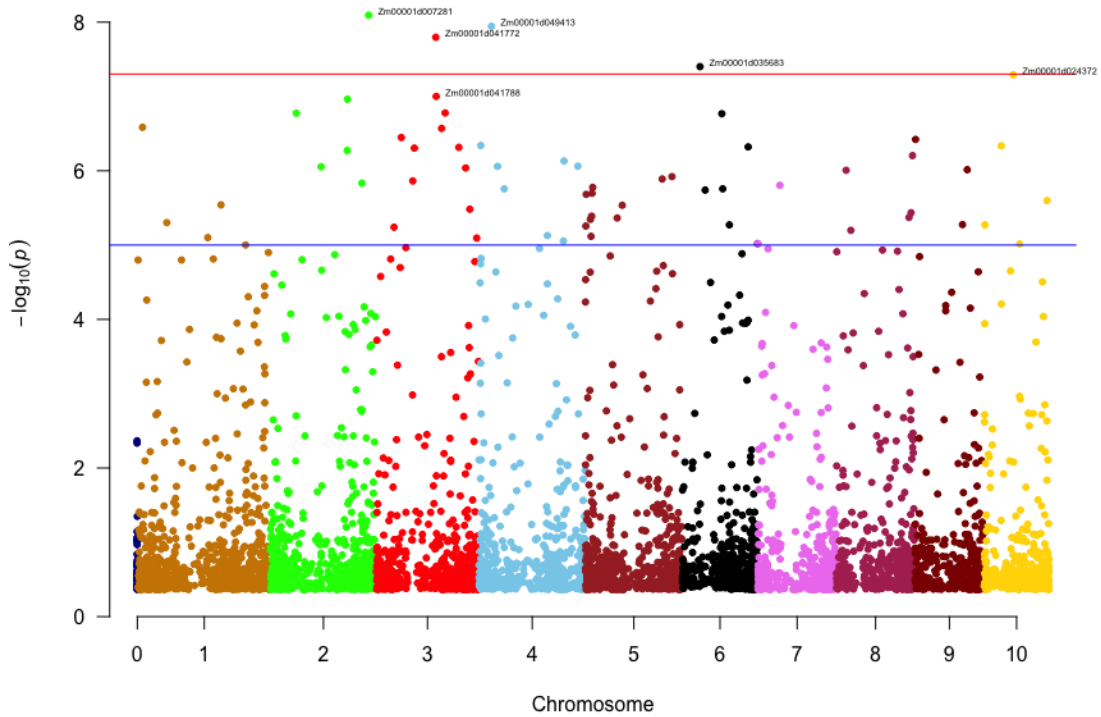


Figure 5.2 Manhattan plot of differentially expressed genes in NY22613 when inoculated and not inoculated in field. The plot shows the genes that are differentially expressed and with a P value < 0.001. (Group 3)

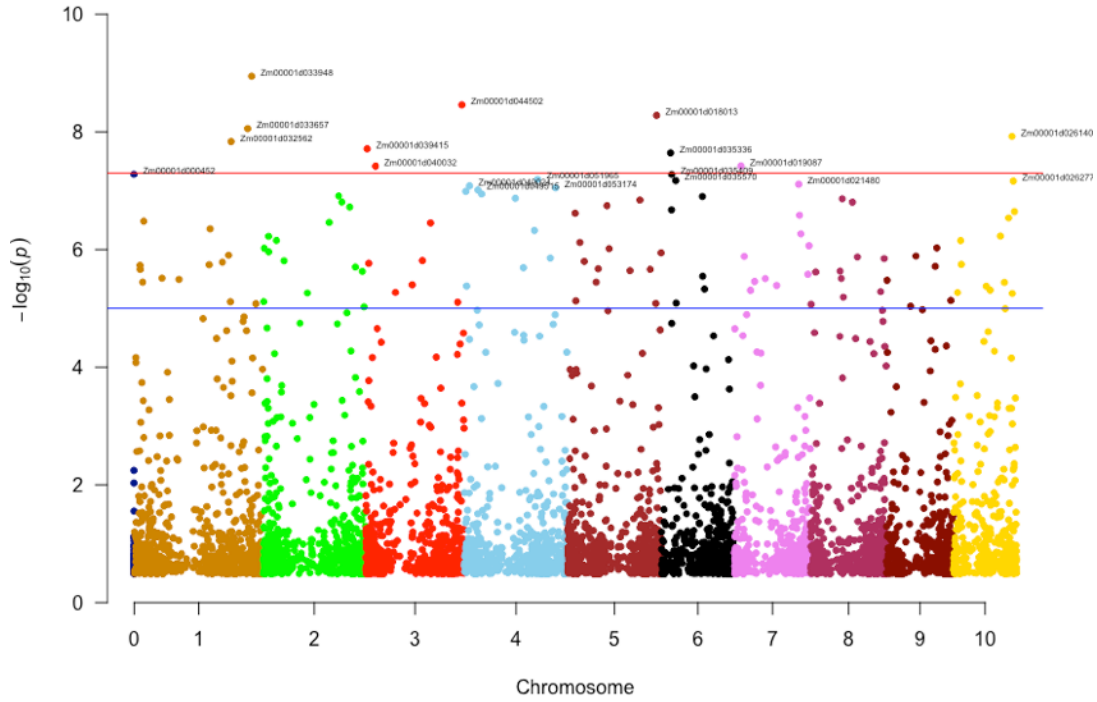


Figure 5.3 Manhattan plot of differentially expressed genes in Oh7b when inoculated and not inoculated in field. The plot shows the genes that are differentially expressed and with a P value < 0.001. (Group 4)

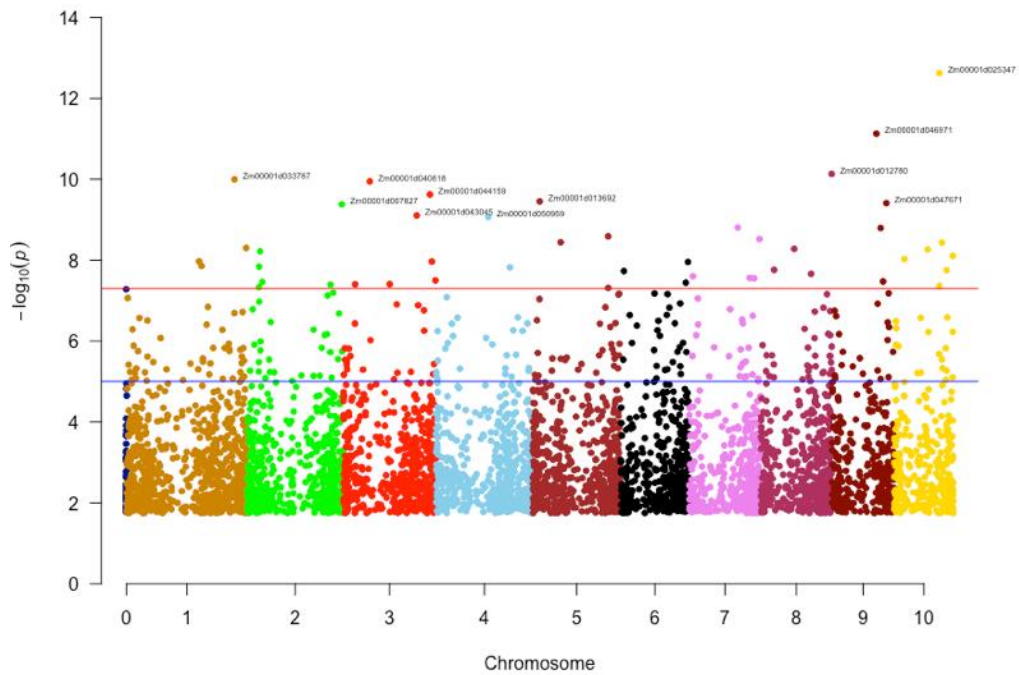


Figure 5.4 Manhattan plot of differentially expressed genes in NY22613 when inoculated in field and greenhouse conditions. The plot shows the genes that are differentially expressed and with a P value < 0.001. (Group 5)

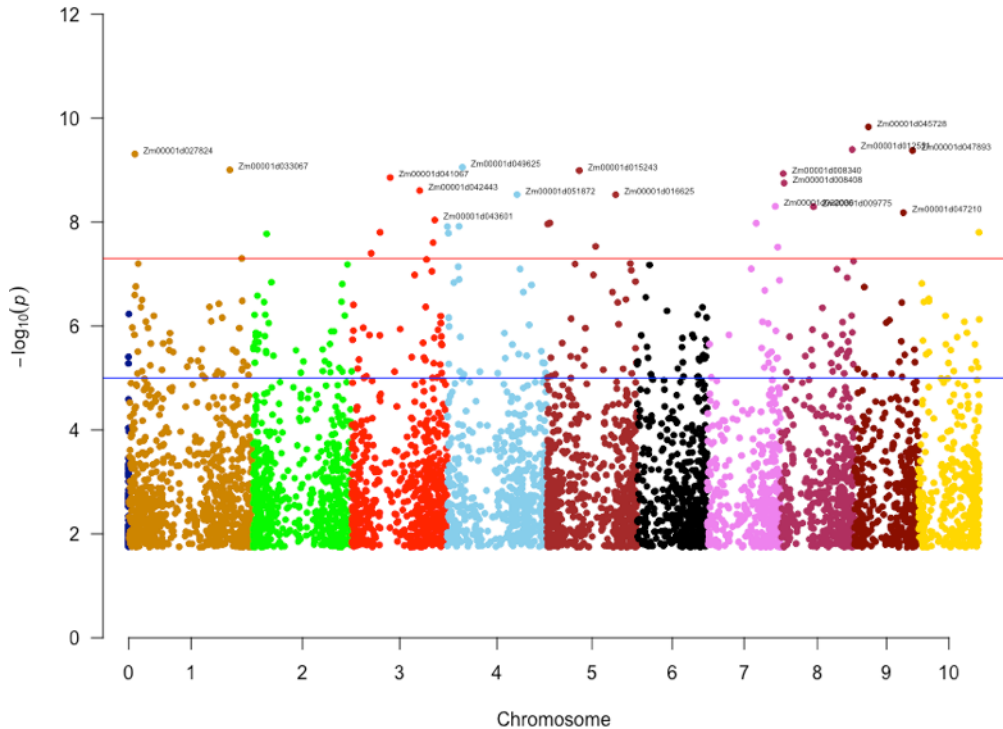


Figure 5.5 Manhattan plot of differentially expressed genes in Oh7b when inoculated in field and greenhouse conditions. The plot shows the genes that are differentially expressed and with a P value < 0.001. (Group 6)

**Library Preparation Protocol:**

**TruSeq sRNA library with NEB adapter**

sRNA 5' linker (IDT RNA oligo, HPLC purify)

5' GUUCAGAGUUCUACAGUCCGACGAUC 3'

sRNA 3' linker (NEB, S1315S, dilute to 10 uM)

5' rApp-CTGTAGGCACCATCAAT-Amine 3'

**RT primer**

5' Amine- GACGTGTGCTCTTCCGATCT ATTGATGGTGCCTACA \*G 3'

**sRNA PCR.1**

AATGATACGGCGACCACCGAGA TCTACAC GACAG GTTCAGAGTCTACAGTCCGACCGAT \*C

**sRNA PCR2**

the same as Truseq PCR 2 oligos

**Extract sRNA.**

Use Sigma "mirPremier microRNA isolation Kit, Cat.# SNC50" to isolated sRNA from plant tissue. Run a 3% agarose gel along with 50bp marker to check the sRNA.

### **3' linker ligation**

1. Heat around 200 ng sRNA (top up to 10 uL) and 1.0ul uL 3' linker (**separately!**) to 65°C for 1 min., immediately chill on ice.
2. Prepare the reaction on ice:

sRNA	10µl
sRNA 3' linker (10 uM)	1.0ul
10X T4 RNA Ligase Buffer w/o ATP	2µl
T4 RNA ligase 2 truncated (NEB)	1µl
RNasin plus	0.5µl
50% PEG(final 15%)	6µl
3. Incubate the reaction mix at 22°C for at least 4h or 18°C overnight.
4. Add 1.5ul RT primer (10uM) to the 3' linker ligation product, incubate at 75°C for 5 min. and 37°C for 30 min., 25°C for 15min.

### **5' linker ligation**

5. Heat the sample and 5' linker (**separately!**) to 65°C for 1min., immediately chill on ice.
6. Prepare the reaction on ice:

3' ligated sRNA sample	20.5µl
sRNA 5' linker (10 uM)	0.5 µl
10X T4 Ligase Buffer	0.5 uL
ATP	2 µl
T4 RNA ligase 1 (NEB)	1 µl
RNasin plus	0.5 µl
7. Incubate the reaction mix at 22°C for 4h or 18°C overnight.

### **Reverse Transcription**

8. Prepare the RT reaction as follow:

sRNA ligation mix	25 µL
dNTP (10 mM)	1.5 uL
DTT	3 uL
PhotoscriptII buffer 5x	8 uL
PhotoscriptII	0.5 uL
RNasin plus	0.5 µl
H <sub>2</sub> O	1.5 uL
9. Perform RT reaction at 42°C for 1 h, heat inactivate at 70°C for 15 min.

### **Pool indexed libraries and PCR enrichment**

10. Use 10 uL out of the 40ul RT product for PCR

RT product	10 uL
Primer 1 (10 uM)	1 uL
Primer 2 (10 uM)	1 uL
5x Phusion HF Buffer	6 uL
10 mM dNTP	1 uL
H <sub>2</sub> O	10.5 uL
Phusion II	0.5 uL

11. PCR 12-15 cycles, if the library is over-amplified or not amplified, used the remaining RT product and adjust PCR cycles accordingly.

94 °C	2 min
98°C	12 sec (4 cycles)
56°C	30 sec
68°C	30 sec
98°C	12 sec (8-15 cycles)
68°C	30 sec
68°C	2 min
4°C	hold

### **Purify sRNA library using 1XTBE agarose gel**

12. Prepare 2% agarose gel with SYBR safe (Invitrogen S33102) using 1x LB buffer.

13. Electrophoresis at 100 V, monitor the gel under blue light illumination.

14. Cut the sRNA library (170bp), purify using Qiagen minielute, elute in 10 uL TE.

15. Measure concentration using picogreen and Qubit (Invitrogen, P7589, Q32866).

16. Mix 5 ng (or 10 ng) of each barcode library and send for sequencing.

### **Reagents and materials**

T4 RNA ligase 1 (Enzymatics or NEB)

T4 RNA ligase 2 truncated (NEB)

Phusion II (NEB)

PhotoscriptII (NEB)

RNaseIN Plus RNase Inhibitor (Promega)

SYBR-Gold and SYBR-safe dyes (Invitrogen)

PicoGreen dye and Qubit (Invitrogen)

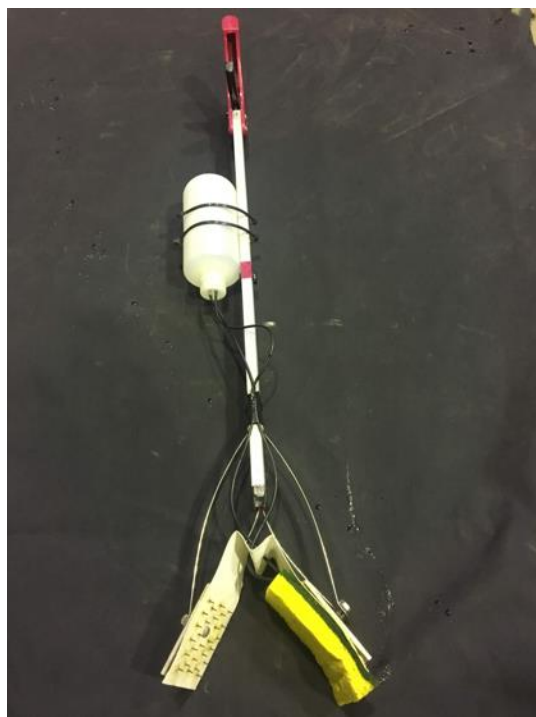


Figure 5.6 Stewart's Wilt inoculator designed at the corn project in Cornell University (Keith Payne 2019)

**Table 5.1** Unique genes that are located in the NLB resistance QTLs.

Gene stable ID	Chr	Gene description	Gene start (bp)	Gene end (bp)
<i>Zm00001d001887</i>	2	Adenylate kinase 1 chloroplastic	2472648	2482331
<i>Zm00001d001888</i>	2		2482827	2482899
<i>Zm00001d001889</i>	2		2483126	2483198
<i>Zm00001d001890</i>	2		2483438	2483510
<i>Zm00001d001891</i>	2		2483735	2483807
<i>Zm00001d001892</i>	2		2484047	2484119
<i>ENSRNA049444234</i>	2	tRNA-Ala for anticodon CGC	2484047	2484119
<i>Zm00001d001893</i>	2		2487785	2487857
<i>Zm00001d001894</i>	2	hydroxyproline-rich glycoprotein family protein	2491277	2493876
<i>Zm00001d003584</i>	2	12-oxo-phytodienoic acid reductase5	49052848	49056045
<i>Zm00001d052276</i>	4	RNA-processing Lsm domain	185636179	185645200
<i>Zm00001d050294</i>	4	VQ motif-containing protein	79210012	79211052
<i>Zm00001d026840</i>	4		79277218	79277703
<i>Zm00001d050295</i>	4		79407612	79412327
<i>Zm00001d050296</i>	4	U-box domain-containing protein 37	79412293	79413137

<i>Zm00001d018153</i>	5		215596858	215600746
<i>Zm00001d018151</i>	5	Protein CHROMATIN REMODELING 25	215569988	215588200
<i>Zm00001d018154</i>	5	Beta-adaptin-like protein C	215609881	215612833
<i>Zm00001d018152</i>	5	Protein SUPPRESSOR OF GENE SILENCING 3	215594980	215596255
<i>Zm00001d012320</i>	8	Cell division control protein 6 homolog B	172365657	172369913
<i>Zm00001d024008</i>	10	Auxin-responsive protein IAA27	36379483	36384610

**Table 5.2** Unique genes that are located in the GLS resistance QTLs

<i>Gene stable ID</i>	Chr	Gene description	Gene start (bp)	Gene end (bp)
<i>Zm00001d024008</i>	10	Auxin-responsive protein IAA27	36379483	36384610
<i>Zm00001d008449</i>	8	–	8878669	8879223
<i>Zm00001d012267</i>	8	NPL4-like protein 1	171610394	171615563
<i>Zm00001d038799</i>	6	–	164652743	164653636
<i>Zm00001d035247</i>	6	–	17131320	17132878
<i>Zm00001d035248</i>	6	–	17132580	17132939
<i>Zm00001d001678</i>	5	–	165737274	165737921
<i>Zm00001d016519</i>	5	–	165895167	165900404
<i>Zm00001d016518</i>	5	Calmodulin-binding transcription activator 2	165882713	165895935
<i>Zm00001d016516</i>	5	Protein ROS1	165762152	165792842
<i>Zm00001d016520</i>	5	Heat stress transcription factor A-5	165944432	165950570
<i>zma-MIR396g</i>	5	–	220222148	220222261
<i>zma-MIR171b</i>	5	–	223360741	223360825
<i>zma-MIR172b</i>	5	–	221721349	221721474
<i>zma-MIR166m</i>	5	–	216484037	216484192
<i>zma-MIR166k</i>	5	–	216483766	216483933
<i>Zm00001d017921</i>	5	–	210116157	210116229
<i>Zm00001d017910</i>	5	–	209998574	209998645
<i>Zm00001d018175</i>	5	–	215852968	215853041
<i>Zm00001d017792</i>	5	–	206963117	206963201
<i>Zm00001d017879</i>	5	–	209496108	209496181
<i>Zm00001d018566</i>	5	–	223304685	223304755
<i>Zm00001d018351</i>	5	–	219057976	219058048
<i>Zm00001d018173</i>	5	–	215852403	215852475
<i>Zm00001d017948</i>	5	–	210668214	210668286
<i>Zm00001d017971</i>	5	–	211025190	211025262
<i>Zm00001d018108</i>	5	–	214480485	214480569
<i>Zm00001d018100</i>	5	–	214160564	214160635
<i>Zm00001d017652</i>	5	–	203218945	203219016



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<i>Zm00001d018398</i>	5	_	219976876	219976948
<i>Zm00001d018094</i>	5	_	214090058	214090130
<i>Zm00001d018216</i>	5	_	216741003	216741075
<i>Zm00001d018172</i>	5	_	215851874	215851945
<i>Zm00001d018007</i>	5	_	211904182	211904254
<i>Zm00001d017835</i>	5	_	208266453	208266524
<i>Zm00001d018026</i>	5	_	212364417	212364487
<i>Zm00001d018167</i>	5	_	215840460	215840531
<i>Zm00001d017824</i>	5	_	207760602	207760673
<i>Zm00001d017940</i>	5	_	210455043	210455123
<i>Zm00001d018176</i>	5	_	215856035	215856105
<i>Zm00001d018453</i>	5	_	221144338	221144427
<i>Zm00001d018518</i>	5	_	222360190	222360270
<i>Zm00001d018424</i>	5	_	220500998	220501069
<i>Zm00001d018379</i>	5	_	219582681	219582753
<i>Zm00001d018166</i>	5	_	215840133	215840206
<i>Zm00001d017688</i>	5	_	204308744	204308828
<i>Zm00001d018296</i>	5	_	218088599	218088671
<i>Zm00001d018239</i>	5	_	217263619	217263700
<i>Zm00001d018171</i>	5	_	215851807	215851878
<i>Zm00001d018160</i>	5	_	215725334	215725406
<i>Zm00001d017723</i>	5	_	205200298	205200370
<i>Zm00001d018240</i>	5	_	217263838	217263919
<i>Zm00001d018563</i>	5	_	223271585	223271658
<i>Zm00001d018397</i>	5	_	219976103	219976175
<i>Zm00001d018425</i>	5	_	220515646	220515719
<i>Zm00001d018519</i>	5	_	222411295	222411368
<i>Zm00001d018564</i>	5	_	223284540	223284612
<i>Zm00001d017972</i>	5	_	211037257	211037329
<i>Zm00001d018174</i>	5	_	215852537	215852620
<i>Zm00001d017816</i>	5	_	207625368	207625439
<i>Zm00001d018476</i>	5	_	221500721	221500792
<i>Zm00001d017722</i>	5	_	205199621	205199693
<i>Zm00001d017922</i>	5	_	210116836	210116908
<i>Zm00001d017569</i>	5	_	199839198	199839269
<i>Zm00001d018536</i>	5	_	222622259	222622330
<i>Zm00001d018101</i>	5	_	214161335	214161407
<i>Zm00001d018095</i>	5	_	214091026	214091098
<i>Zm00001d018168</i>	5	_	215847604	215847691
<i>Zm00001d017680</i>	5	_	204107824	204107896

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<i>Zm00001d018169</i>	5	_	215848444	215848514
<i>Zm00001d017815</i>	5	_	207623963	207624036
<i>Zm00001d017679</i>	5	_	204104020	204104091
<i>Zm00001d018165</i>	5	_	215772153	215772226
<i>Zm00001d018008</i>	5	_	211905026	211905098
<i>Zm00001d018164</i>	5	_	215771943	215772016
<i>Zm00001d018520</i>	5	_	222415603	222415676
<i>Zm00001d017681</i>	5	_	204108797	204108869
<i>Zm00001d018170</i>	5	_	215848997	215849070
<i>Zm00001d018215</i>	5	_	216740064	216740136
<i>Zm00001d001739</i>	5	_	213836923	213837406
<i>Zm00001d001754</i>	5	_	219953123	219953425
<i>Zm00001d001745</i>	5	_	217507304	217507632
<i>Zm00001d001759</i>	5	_	220591048	220591301
<i>Zm00001d001724</i>	5	_	203497923	203498333
<i>Zm00001d001734</i>	5	_	210696290	210696509
<i>Zm00001d001743</i>	5	_	217355432	217356248
<i>Zm00001d001760</i>	5	_	220608665	220611136
<i>Zm00001d001728</i>	5	_	206105920	206106223
<i>Zm00001d001747</i>	5	_	218010109	218011471
<i>Zm00001d001755</i>	5	_	219960304	219961075
<i>Zm00001d001732</i>	5	_	209612323	209612605
<i>Zm00001d001718</i>	5	_	199981408	199981720
<i>Zm00001d001750</i>	5	_	218524734	218525095
<i>Zm00001d001758</i>	5	_	220590590	220590994
<i>Zm00001d001723</i>	5	_	201953896	201954871
<i>Zm00001d001717</i>	5	_	199981403	199981720
<i>Zm00001d001720</i>	5	_	200882727	200883014
<i>Zm00001d001735</i>	5	_	210783221	210783788
<i>Zm00001d001744</i>	5	_	217468408	217468925
<i>Zm00001d001722</i>	5	_	201808419	201808587
<i>Zm00001d001748</i>	5	_	218094445	218094867
<i>Zm00001d001736</i>	5	_	212391202	212391404
<i>Zm00001d001727</i>	5	_	205298996	205299324
<i>Zm00001d001740</i>	5	_	214796514	214796713
<i>Zm00001d001752</i>	5	_	219066169	219067113
<i>Zm00001d001761</i>	5	_	220901197	220902155
<i>Zm00001d001729</i>	5	_	208637788	208639111
<i>Zm00001d001730</i>	5	_	208835575	208836413
<i>Zm00001d001753</i>	5	_	219140058	219140280

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<i>Zm00001d001749</i>	5	-	218454744	218455698
<i>Zm00001d001741</i>	5	-	215764184	215764950
<i>Zm00001d001726</i>	5	-	204307317	204307570
<i>Zm00001d001757</i>	5	-	220372968	220373253
<i>Zm00001d001737</i>	5	-	212575229	212575670
<i>Zm00001d001733</i>	5	-	209777774	209778251
<i>Zm00001d001751</i>	5	-	218587528	218587811
<i>Zm00001d001746</i>	5	-	217951587	217951918
<i>Zm00001d001762</i>	5	-	222941789	222942023
<i>Zm00001d001721</i>	5	-	201333613	201333880
<i>Zm00001d001719</i>	5	-	200856065	200856515
<i>Zm00001d001731</i>	5	-	209131890	209132167
<i>Zm00001d001742</i>	5	-	216826282	216826613
<i>Zm00001d001738</i>	5	-	213830675	213831533
<i>Zm00001d001725</i>	5	-	203599243	203602685
<i>Zm00001d001756</i>	5	-	219994466	219994697
<i>zma-MIR396f</i>	5	-	220211653	220211769
<i>Zm00001d018544</i>	5	domain of unknown function177	222689298	222696547
<i>Zm00001d018562</i>	5	Callose synthase 3	223260098	223277123
<i>Zm00001d017686</i>	5	Ubiquitin carboxyl-terminal hydrolase 20	204298151	204308212
<i>Zm00001d018194</i>	5	Transmembrane emp24 domain-containing protein 10	216143234	216145894
<i>Zm00001d017853</i>	5	E3 ubiquitin-protein ligase makorin	208842057	208846275
<i>Zm00001d017657</i>	5	OSJNBb0016D16.16 protein; protein C2 calcium/lipid-binding plant phosphoribosyltransferase family protein	203305145	203305999
<i>Zm00001d018473</i>	5	Plant intracellular Ras-group-related LRR protein 9	221415304	221418321
<i>Zm00001d018525</i>	5	fringe-related protein	222474888	222481326
<i>Zm00001d017611</i>	5	-	201589286	201591205
<i>Zm00001d018510</i>	5	-	222118821	222119375
<i>Zm00001d017914</i>	5	H/ACA ribonucleoprotein complex subunit 2-like protein	210052135	210055768
<i>Zm00001d018045</i>	5	Transcription factor TCP14	212792080	212793282
<i>Zm00001d018162</i>	5	Cytochrome b6-f complex subunit 4	215762130	215764237
<i>Zm00001d017706</i>	5	Pentatricopeptide repeat-containing protein	204700264	204702470
<i>Zm00001d018333</i>	5	Diacylglycerol kinase	218592450	218601374
<i>Zm00001d018028</i>	5	NEP1-interacting protein-like 2	212372579	212374838
<i>Zm00001d017975</i>	5	-	211124623	211124865
<i>Zm00001d018487</i>	5	3-ketoacyl-CoA thiolase 2 peroxisomal	221688156	221691939
<i>Zm00001d017899</i>	5	Nuclear transcription factor Y subunit B-6	209742538	209743296
<i>Zm00001d017864</i>	5	Aspartyl protease AED1	209118987	209121465
<i>Zm00001d017933</i>	5	-	210291226	210296955
<i>Zm00001d018356</i>	5	-	219142628	219145001
<i>Zm00001d018119</i>	5	Transcription factor bHLH99	214694032	214695978

<i>Zm00001d017711</i>	5	Phosphoribulokinase	204910256	204912526
<i>Zm00001d017742</i>	5	Growth-regulating factor 6	205734245	205737675
<i>Zm00001d018330</i>	5	Peptide chain release factor PrfB2 chloroplastic	218524712	218528263
<i>Zm00001d018416</i>	5	Transcription factor SPATULA	220300212	220303859
<i>Zm00001d017983</i>	5	formin homologue 4	211349626	211354097
<i>Zm00001d018396</i>	5	–	219971893	219972195
<i>Zm00001d018521</i>	5	–	222421076	222421327
<i>Zm00001d017857</i>	5	adenine nucleotide translocator1 Autophagy-related 12 variant 1%3B Autophagy-related	208984585	208987631
<i>Zm00001d018259</i>	5	protein 12	217540268	217543540
<i>Zm00001d018306</i>	5	Receptor-like kinase-like	218222907	218223599
<i>Zm00001d017761</i>	5	–	206061161	206062765
<i>Zm00001d017589</i>	5	late embryogenesis abundant protein	200791661	200798918
<i>Zm00001d017784</i>	5	Zinc-finger homeodomain protein 5 Protein PHOTOPERIOD-INDEPENDENT EARLY	206700640	206701893
<i>Zm00001d017660</i>	5	FLOWERING 1	203316622	203348078
<i>Zm00001d017715</i>	5	Expressed protein; protein	205061679	205067355
<i>Zm00001d017564</i>	5	–	199688648	199695375
<i>Zm00001d017829</i>	5	RNA-binding (RRM/RBD/RNP motifs) family protein	207953995	207958553
<i>Zm00001d017947</i>	5	Microtubule motor	210665706	210667821
<i>Zm00001d018531</i>	5	Replication protein A 32 kDa subunit A	222542079	222544935
<i>Zm00001d017849</i>	5	–	208733011	208737362
<i>Zm00001d018284</i>	5	–	217895146	217895547
<i>Zm00001d017710</i>	5	–	204812710	204815514
<i>Zm00001d018339</i>	5	Cyclic nucleotide-gated ion channel 17	218834722	218841095
<i>Zm00001d018252</i>	5	–	217430344	217431734
<i>Zm00001d018456</i>	5	Proteasome subunit beta type-1	221161040	221162181
<i>Zm00001d017714</i>	5	Protein NRT1/ PTR FAMILY 8.3	205056209	205061640
<i>Zm00001d017576</i>	5	Remorin family protein	200174661	200175436
<i>Zm00001d017838</i>	5	–	208358406	208359206
<i>Zm00001d018429</i>	5	phosphoenolpyruvate carboxylase kinase1	220588216	220589696
<i>Zm00001d018528</i>	5	Pentatricopeptide repeat-containing protein S-adenosyl-L-methionine-dependent methyltransferases	222517401	222520354
<i>Zm00001d018070</i>	5	superfamily protein	213768773	213771405
<i>Zm00001d017965</i>	5	MACPF domain-containing protein	210963442	210968727
<i>Zm00001d018543</i>	5	ARM repeat superfamily protein	222688368	222691062
<i>Zm00001d017769</i>	5	Ornithine carbamoyltransferase chloroplastic	206295967	206299220
<i>Zm00001d017799</i>	5	Exonuclease family protein	207115775	207118184
<i>Zm00001d018153</i>	5	–	215596858	215600746
<i>Zm00001d018288</i>	5	Ethylene-responsive transcription factor ERF018	217999756	218005468
<i>Zm00001d017645</i>	5	RING-H2 finger protein ATL80	202977364	202977921
<i>Zm00001d017823</i>	5	Thioredoxin reductase	207755678	207763540

<i>Zm00001d018014</i>	5	P-loop containing nucleoside triphosphate hydrolases superfamily protein	212108530	212117488
<i>Zm00001d018534</i>	5	Pentatricopeptide repeat-containing protein mitochondrial	222575337	222576596
<i>Zm00001d017709</i>	5	Secretory carrier-associated membrane protein 4	204804612	204808574
<i>Zm00001d018057</i>	5	RINT1-like protein MAG2	213288385	213294605
<i>Zm00001d018214</i>	5	O-Glycosyl hydrolases family 17 protein	216733539	216735329
<i>Zm00001d018262</i>	5	root-specific kinase 1	217590475	217592621
<i>Zm00001d018345</i>	5	–	218950465	218956533
<i>Zm00001d018010</i>	5	–	211974050	211974897
<i>Zm00001d017806</i>	5	sister of liguleless narrow1	207369388	207372376
<i>Zm00001d017842</i>	5	Protein NRT1/ PTR FAMILY 7.1	208577377	208579835
<i>Zm00001d017753</i>	5	Carboxylic ester hydrolase	205897970	205901088
<i>Zm00001d018365</i>	5	AUGMIN subunit 8	219219208	219235237
<i>Zm00001d018036</i>	5	Arsenical pump-driving ATPase	212569064	212573328
<i>Zm00001d018202</i>	5	10A19I.15	216491525	216492951
<i>Zm00001d018128</i>	5	Cyclin-D2-1	214803776	214806107
<i>Zm00001d017925</i>	5	Potassium transporter 8	210190144	210195309
<i>Zm00001d018374</i>	5	Transcription factor bHLH69	219467838	219478518
<i>Zm00001d017878</i>	5	Putative pentatricopeptide repeat-containing protein mitochondrial	209468909	209472256
<i>Zm00001d017614</i>	5	Agamous-like MADS-box protein AGL6	201741196	201748623
<i>Zm00001d017580</i>	5	–	200599586	200600687
<i>Zm00001d018246</i>	5	Kinesin heavy chain-like protein	217334378	217352263
<i>Zm00001d018146</i>	5	Methionine aminopeptidase 1D chloroplastic/mitochondrial	215504802	215514412
<i>Zm00001d017895</i>	5	Cellulose synthase-like protein E1	209709534	209714278
<i>Zm00001d018329</i>	5	Glutamate receptor 2.7	218519848	218523059
<i>Zm00001d018380</i>	5	Two-component response regulator ARR12	219584158	219587472
<i>Zm00001d017590</i>	5	Protein DETOXIFICATION 49	200820486	200822192
<i>Zm00001d018238</i>	5	Thioredoxin-like 3-1 chloroplastic	217193701	217195534
<i>Zm00001d018550</i>	5		222827321	222828139
<i>Zm00001d017811</i>	5	Pentatricopeptide repeat (PPR) superfamily protein	207513991	207515469
<i>Zm00001d017721</i>	5	Tudor/PWWP/MBT superfamily protein	205190183	205198427
<i>Zm00001d017846</i>	5	Zinc finger BED domain-containing protein DAYSLEEPER	208632549	208641965
<i>Zm00001d018179</i>	5	Remorin family protein	215873676	215878782
<i>Zm00001d018561</i>	5		223235139	223236869
<i>Zm00001d018297</i>	5	Chaperone DnaJ-domain superfamily protein	218088747	218093599
<i>Zm00001d017871</i>	5	Protein S-acyltransferase 18	209242050	209250119
<i>Zm00001d018508</i>	5	DNA-binding protein	222085925	222086662
<i>Zm00001d018314</i>	5	Ornithine carbamoyltransferase chloroplastic	218303056	218311172
<i>Zm00001d018200</i>	5	SAUR12-auxin-responsive SAUR family member	216447005	216447600
<i>Zm00001d017907</i>	5	Protein TIC 20-v chloroplastic	209973548	209974192

<i>Zm00001d018443</i>	5	Ankyrin repeat family protein	220931187	220935179
<i>Zm00001d018105</i>	5	Protein EXORDIUM	214437486	214438895
<i>Zm00001d018303</i>	5	Phosphoinositide phosphatase SAC2	218169869	218183978
<i>Zm00001d017979</i>	5	Dynamin-2A	211184326	211211518
<i>Zm00001d018069</i>	5	ATP synthase chloroplast subunit1	213760677	213761423
<i>Zm00001d018289</i>	5	Alkaline-phosphatase-like family protein	218011997	218022291
<i>Zm00001d017719</i>	5	60S ribosomal protein L12-3	205105870	205106370
<i>Zm00001d018494</i>	5	Probable protein S-acyltransferase 15	221797234	221800106
<i>Zm00001d018403</i>	5	Proteasome maturation factor UMP1 AT1G07810 (E=9e-053) ECA1 ATECA1 ACA3   ECA1 (ER-TYPE CA2+-ATPASE 1); calcium-transporting	220014979	220018228
<i>Zm00001d017774</i>	5	ATPase	206385460	206386071
<i>Zm00001d017968</i>	5		211000353	211000697
<i>Zm00001d018187</i>	5	Mitochondrial phosphate carrier protein 3 mitochondrial	216017754	216022412
<i>Zm00001d017661</i>	5		203349881	203350636
<i>Zm00001d017747</i>	5	General transcription factor 2-related zinc finger protein	205846897	205847565
<i>Zm00001d017990</i>	5		211550053	211550820
<i>Zm00001d018017</i>	5		212204911	212205450
<i>Zm00001d018412</i>	5	50S ribosomal protein L9 chloroplastic	220251920	220252721
<i>Zm00001d018283</i>	5		217874874	217875380
<i>Zm00001d018150</i>	5		215559914	215560543
<i>Zm00001d017834</i>	5	Cysteine protease XCP1	208264486	208266307
<i>Zm00001d017568</i>	5	WNK6	199836479	199842360
<i>Zm00001d018553</i>	5	Nucleolin 2	222836020	222839073
<i>Zm00001d017828</i>	5		207933162	207933578
<i>Zm00001d017877</i>	5	Transmembrane 9 superfamily protein member 4	209453899	209455860
<i>Zm00001d018506</i>	5	Deoxyhypusine hydroxylase	222064399	222067761
<i>Zm00001d017575</i>	5	Dof zinc finger protein DOF2.5	200157732	200159935
<i>Zm00001d017621</i>	5		201994341	201995299
<i>Zm00001d018133</i>	5		215034661	215049780
<i>Zm00001d017904</i>	5		209855128	209856637
<i>Zm00001d017920</i>	5	Homeobox-leucine zipper protein HAT5	210110059	210112307
<i>Zm00001d017822</i>	5		207752591	207753046
<i>Zm00001d017900</i>	5	Dof zinc finger protein DOF5.4	209782489	209783391
<i>Zm00001d018319</i>	5	myb domain protein 87	218433161	218434414
<i>Zm00001d017731</i>	5	Expansin-B4	205527426	205528156
<i>Zm00001d018498</i>	5	Cysteine proteinases superfamily protein	221848796	221852951
<i>Zm00001d018384</i>	5	DNA replication licensing factor MCM5 Serinc-domain containing serine and sphingolipid	219713468	219718521
<i>Zm00001d018359</i>	5	biosynthesis protein	219158470	219161256
<i>Zm00001d017642</i>	5	Protein REVEILLE 1	202881513	202884506

<i>Zm00001d018324</i>	5	pathogenesis-related protein-1-like	218457249	218457797
<i>Zm00001d017648</i>	5	OSJNBa0013K16.16 protein; protein	203049052	203049396
<i>Zm00001d018529</i>	5		222527039	222528726
<i>Zm00001d017651</i>	5	Probable dolichyl pyrophosphate Glc1Man9GlcNAc2 alpha-1,3-glucosyltransferase	203214901	203218705
<i>Zm00001d018545</i>	5	ARM repeat superfamily protein	222763267	222766617
<i>Zm00001d018377</i>	5	Diphosphomevalonate decarboxylase MVD2	219513929	219518215
<i>Zm00001d018183</i>	5	mitochondrial phosphate transporter1	215965775	215970551
<i>Zm00001d017612</i>	5	brassinosteroid-responsive RING-H2	201595446	201596045
<i>Zm00001d018082</i>	5	trehalose-6-phosphate phosphatase7	213921299	213923977
<i>Zm00001d017693</i>	5	Mitogen-activated protein kinase kinase 9	204456205	204457332
<i>Zm00001d018565</i>	5	tie-dyed2	223299688	223305883
<i>Zm00001d018367</i>	5	Spermidine hydroxycinnamoyl transferase	219274877	219276542
<i>Zm00001d017729</i>	5	Serine/threonine-protein kinase MHK	205460032	205467029
<i>Zm00001d018097</i>	5	myb domain protein 93	214127646	214129053
<i>Zm00001d017724</i>	5	Helix-loop-helix DNA-binding domain containing protein	205288559	205291755
<i>Zm00001d018530</i>	5	Transcription factor TCP21	222531797	222532420
<i>Zm00001d018577</i>	5		223601127	223601890
<i>Zm00001d017956</i>	5	B-cell receptor-associated 31-like	210857857	210858255
<i>Zm00001d017883</i>	5	Enhancer of mRNA-decapping protein 4	209534213	209545337
<i>Zm00001d018490</i>	5	Pentatricopeptide repeat-containing protein mitochondrial	221706613	221713343
<i>Zm00001d018450</i>	5	Trimeric LpxA-like enzyme	221108938	221117291
<i>Zm00001d018402</i>	5	Probable UDP-arabinopyranose mutase 5	220008614	220009146
<i>Zm00001d018350</i>	5	UDP-glucuronate 4-epimerase 1	219015403	219016722
<i>Zm00001d018478</i>	5	Tubulin-folding cofactor A	221516602	221518161
<i>Zm00001d018418</i>	5	oxidoreductase zinc-binding dehydrogenase family protein	220374188	220377348
<i>Zm00001d018501</i>	5	Zim17-type zinc finger protein	221876374	221878395
<i>Zm00001d018468</i>	5	formaldehyde dehydrogenase homolog1 Bifunctional D-cysteine desulfhydrase/1- aminocyclopropane-1-carboxylate deaminase mitochondrial	221346595	221353674
<i>Zm00001d018230</i>	5		217045696	217048963
<i>Zm00001d018000</i>	5		211669775	211670209
<i>Zm00001d018093</i>	5		214080739	214082961
<i>Zm00001d017608</i>	5	methyl erythritol cyclodiphosphate synthase2	201460778	201462840
<i>Zm00001d017896</i>	5	Uclacyanin-2	209714173	209717529
<i>Zm00001d017941</i>	5	3-ketoacyl-CoA synthase 5	210498173	210500108
<i>Zm00001d018078</i>	5	Type I inositol polyphosphate 5-phosphatase 5	213833777	213836884
<i>Zm00001d017814</i>	5		207564435	207564833
<i>Zm00001d018554</i>	5		222950274	222956077
<i>Zm00001d017791</i>	5	Phosphoribulokinase / Uridine kinase family	206956208	206962117
<i>Zm00001d017874</i>	5	LORELEI-LIKE-GPI ANCHORED PROTEIN 3	209352390	209357003

<i>Zm00001d017998</i>	5		211658453	211660266
<i>Zm00001d017607</i>	5	protein; Pentatricopeptide (PPR) repeat-containing protein-like	201445239	201460140
<i>Zm00001d018213</i>	5		216728454	216729881
<i>Zm00001d018261</i>	5	LRR receptor-like serine/threonine-protein kinase ERECTA	217575060	217588003
<i>Zm00001d018182</i>	5	G-type lectin S-receptor-like serine/threonine-protein kinase	215957334	215960009
<i>Zm00001d018471</i>	5	Nucleic acid-binding OB-fold-like protein	221363993	221366395
<i>Zm00001d018537</i>	5	Putative pentatricopeptide repeat-containing protein	222624364	222626223
<i>Zm00001d017789</i>	5		206898283	206898994
<i>Zm00001d017627</i>	5	Eukaryotic translation initiation factor 2 subunit beta	202366470	202367613
<i>Zm00001d017863</i>	5	Protein-tyrosine-phosphatase IBR5	209096527	209100036
<i>Zm00001d018309</i>	5	MSS1 homolog	218238432	218242413
<i>Zm00001d018409</i>	5	26S protease regulatory subunit 6A homolog A	220204813	220209169
<i>Zm00001d017770</i>	5	Soluble inorganic pyrophosphatase 2	206299496	206304043
<i>Zm00001d017561</i>	5		199651668	199654468
<i>Zm00001d017803</i>	5		207165777	207168266
<i>Zm00001d017677</i>	5	Transcription factor bHLH71	204020338	204023940
<i>Zm00001d017837</i>	5		208273343	208273918
<i>Zm00001d018483</i>	5		221663013	221665011
<i>Zm00001d018505</i>	5	Deoxyhypusine hydroxylase	222048233	222050419
<i>Zm00001d017830</i>	5	Pyrophosphate--fructose 6-phosphate 1-phosphotransferase subunit alpha 2	208016509	208023474
<i>Zm00001d017655</i>	5	Phospho-2-dehydro-3-deoxyheptonate aldolase 2 chloroplastic	203251930	203263584
<i>Zm00001d018361</i>	5	Nudix hydrolase 3	219166361	219166669
<i>Zm00001d017952</i>	5	ABA-induced protein	210781408	210782962
<i>Zm00001d018393</i>	5	Protein binding protein	219949314	219949802
<i>Zm00001d018251</i>	5		217426637	217427003
<i>Zm00001d018083</i>	5		213927780	213928882
<i>Zm00001d018321</i>	5	CAP (Cysteine-rich secretory proteins Antigen 5 and Pathogenesis-related 1 protein) superfamily protein	218439593	218440123
<i>Zm00001d017833</i>	5	Ribose-phosphate pyrophosphokinase 4	208259089	208262363
<i>Zm00001d017876</i>	5	Phosphatidylinositol/phosphatidylcholine transfer protein SFH13	209361893	209367885
<i>Zm00001d018225</i>	5	Homeodomain leucine zipper family IV protein	216949284	216953293
<i>Zm00001d018378</i>	5	Probable CCR4-associated factor 1 homolog 11	219577710	219578674
<i>Zm00001d017767</i>	5	Lipid phosphate phosphatase epsilon 2 chloroplastic	206244670	206247552
<i>Zm00001d017643</i>	5	Catalytic/ protein phosphatase type 2C	202957210	202960229
<i>Zm00001d018217</i>	5	(Rice Genome Annotation Project) expressed protein	216745595	216751389
<i>Zm00001d018482</i>	5	Homeodomain	221644235	221650146
<i>Zm00001d018552</i>	5		222832163	222834232
<i>Zm00001d018003</i>	5		211742129	211742884



<i>Zm00001d018019</i>	5	Putative pentatricopeptide repeat-containing protein	212215701	212217938
<i>Zm00001d018372</i>	5	RNA polymerase II C-terminal domain phosphatase-like 4	219441315	219442499
<i>Zm00001d017855</i>	5		208910768	208912103
<i>Zm00001d017945</i>	5	ADP-ribosylation factor-like A1A	210540116	210543847
<i>Zm00001d018507</i>	5	Bet1-like SNARE 1-1	222067940	222071136
<i>Zm00001d018208</i>	5	protein; Tyrosine specific protein phosphatase-like	216608861	216609928
<i>Zm00001d017950</i>	5	Polcalcin Jun o 2	210702654	210703193
<i>Zm00001d017659</i>	5	Structural constituent of ribosome	203315252	203316157
<i>Zm00001d018463</i>	5	Leukotriene A-4 hydrolase homolog	221323704	221327268
<i>Zm00001d017678</i>	5	Putative RING-H2 finger protein ATL53 Phosphoenolpyruvate/phosphate translocator 2	204090824	204092041
<i>Zm00001d017901</i>	5	chloroplastic	209804558	209821388
<i>Zm00001d018295</i>	5	ARM repeat superfamily protein Outer envelope pore protein 16-3	218077868	218085891
<i>Zm00001d017847</i>	5	chloroplastic/mitochondrial	208645801	208649527
<i>Zm00001d018475</i>	5	CLIP-associated protein	221498364	221507258
<i>Zm00001d018121</i>	5		214715880	214716113
<i>Zm00001d017827</i>	5	Mevalonate kinase	207918441	207919463
<i>Zm00001d017593</i>	5		201046135	201048843
<i>Zm00001d018282</i>	5	Subtilisin-like protease SBT1.4	217871641	217873992
<i>Zm00001d017649</i>	5	S-ribonuclease binding protein SBP1	203055160	203056830
<i>Zm00001d018158</i>	5	Ethylene-responsive element binding protein 2	215716411	215717121
<i>Zm00001d017618</i>	5	B3 domain-containing transcription factor NGA2	201875376	201876644
<i>Zm00001d017957</i>	5	Peptidase family M48 family protein	210861055	210866038
<i>Zm00001d018344</i>	5	receptor like protein 57	218939864	218940712
<i>Zm00001d017692</i>	5	NDR1/HIN1-like 8	204444229	204453361
<i>Zm00001d018586</i>	5		223773879	223774217
<i>Zm00001d017977</i>	5	histidine kinase1	211161703	211171628
<i>Zm00001d017840</i>	5	Delta(12)-fatty-acid desaturase	208461206	208462369
<i>Zm00001d017708</i>	5		204751694	204753491
<i>Zm00001d017808</i>	5	ATP-dependent DNA helicase homolog RECG chloroplastic	207409444	207425497
<i>Zm00001d017768</i>	5		206249302	206254075
<i>Zm00001d017734</i>	5	Expansin-B4	205538280	205542962
<i>Zm00001d018408</i>	5	Vesicle-associated membrane protein 711	220203398	220205096
<i>Zm00001d018512</i>	5	Ubiquitin carboxyl-terminal hydrolase 2	222155942	222159306
<i>Zm00001d017967</i>	5	ATP-dependent RNA helicase DEAH13	210992940	211000013
<i>Zm00001d017916</i>	5	CGI-like protein	210061664	210062956
<i>Zm00001d018413</i>	5	Molecular chaperone Hsp40/DnaJ family protein	220253083	220277481
<i>Zm00001d018358</i>	5	Protein TIC 55 chloroplastic	219156200	219158425
<i>Zm00001d017866</i>	5	Aspartyl protease AED1	209132505	209139911
<i>Zm00001d018458</i>	5		221165234	221165520

<i>Zm00001d018243</i>	5	Replication factor C subunit 5	217270039	217273763
<i>Zm00001d018099</i>	5	adenosine 5'-phosphosulfate reductase-like4 Probable L-type lectin-domain containing receptor kinase	214157648	214160124
<i>Zm00001d017821</i>	5	S.5	207742585	207746674
<i>Zm00001d017991</i>	5		211551863	211552138
<i>Zm00001d017616</i>	5	Anthocyanin biosynthetic gene regulator PAC1	201801849	201802910
<i>Zm00001d018258</i>	5	TRF-like 6	217527909	217540053
<i>Zm00001d018549</i>	5		222822957	222823434
<i>Zm00001d017927</i>	5	Fcf2 pre-rRNA processing protein	210209890	210212065
<i>Zm00001d018421</i>	5	GATA transcription factor 8	220398106	220404278
<i>Zm00001d018394</i>	5	Probable protein phosphatase 2C 22	219962014	219970575
<i>Zm00001d018557</i>	5	Outer envelope pore protein 21A chloroplastic protein kinase family protein / WD-40 repeat family protein	223001922	223002955
<i>Zm00001d018382</i>	5		219599116	219617445
<i>Zm00001d017942</i>	5		210507670	210509638
<i>Zm00001d017873</i>	5		209326675	209326974
<i>Zm00001d017862</i>	5	RING/FYVE/PHD zinc finger superfamily protein	209091060	209095479
<i>Zm00001d018317</i>	5		218351762	218352852
<i>Zm00001d018362</i>	5	Protein TSS	219168490	219178653
<i>Zm00001d018574</i>	5	ferredoxin-related	223576985	223578000
<i>Zm00001d018276</i>	5		217785503	217787246
<i>Zm00001d018034</i>	5	geranylgeranyl hydrogenase1	212543656	212546035
<i>Zm00001d018389</i>	5	Transmembrane 9 superfamily protein member 2	219814555	219816540
<i>Zm00001d017938</i>	5	Putative dual specificity protein phosphatase DSP8	210394620	210401155
<i>Zm00001d017562</i>	5	Guanylate-binding family protein	199655265	199657722
<i>Zm00001d018445</i>	5	phosphate transporter3	220941468	220946307
<i>Zm00001d017931</i>	5	Pentatricopeptide repeat-containing protein chloroplastic	210262377	210263936
<i>Zm00001d017960</i>	5	Protein binding protein P-loop containing nucleoside triphosphate hydrolases superfamily protein	210911927	210914408
<i>Zm00001d017988</i>	5		211455711	211463306
<i>Zm00001d018349</i>	5	T-complex protein 1 subunit alpha	219001909	219011521
<i>Zm00001d018027</i>	5	glycine-rich protein	212369588	212370644
<i>Zm00001d017700</i>	5	Lysine-specific demethylase REF6	204553720	204562336
<i>Zm00001d018522</i>	5	ABC transporter F family member 3	222423548	222430070
<i>Zm00001d017695</i>	5	Zinc finger protein AZF2	204471772	204472191
<i>Zm00001d018073</i>	5		213785656	213786336
<i>Zm00001d018504</i>	5		221977188	221990364
<i>Zm00001d017851</i>	5		208836902	208837258
<i>Zm00001d018199</i>	5	PHD finger family protein	216404525	216421412
<i>Zm00001d017571</i>	5	Aluminum-activated malate transporter 10	199954355	199956369
<i>Zm00001d017772</i>	5	Cation cation antiporter	206349763	206353137
<i>Zm00001d018177</i>	5		215858946	215860240

<i>Zm00001d018151</i>	5	Protein CHROMATIN REMODELING 25	215569988	215588200
<i>Zm00001d018096</i>	5	50S ribosomal protein L29	214119645	214121623
<i>Zm00001d017790</i>	5	Carbamoyl-phosphate synthase small chain chloroplastic NADH dehydrogenase [ubiquinone] 1 alpha subcomplex	206950056	206955130
<i>Zm00001d018479</i>	5	subunit 9 mitochondrial	221521586	221525322
<i>Zm00001d018337</i>	5	60S ribosome subunit biogenesis protein NIP7 homolog	218726916	218727482
<i>Zm00001d017699</i>	5	Probable xyloglucan endotransglucosylase/hydrolase protein 30	204537835	204540181
<i>Zm00001d018439</i>	5	endoribonucleases	220890838	220895860
<i>Zm00001d017917</i>	5	Tetraspanin-11	210082131	210083371
<i>Zm00001d018189</i>	5	Major facilitator superfamily protein	216093054	216099101
<i>Zm00001d017567</i>	5	Chaperonin 60 subunit beta 2 chloroplastic	199833167	199834977
<i>Zm00001d017654</i>	5	GPI transamidase subunit PIG-U	203245360	203251909
<i>Zm00001d018502</i>	5	Protein kinase superfamily protein	221962160	221963938
<i>Zm00001d017865</i>	5	Chloride channel protein CLC-f	209123539	209129506
<i>Zm00001d017733</i>	5	Expansin-B4	205534901	205535713
<i>Zm00001d017976</i>	5	Immediate-early fungal elicitor protein CMPG1	211152775	211154133
<i>Zm00001d018368</i>	5	Autophagy-related protein 11	219312977	219314784
<i>Zm00001d018488</i>	5	cytochrome P450 13	221696671	221702095
<i>Zm00001d017820</i>	5	Galactan beta-14-galactosyltransferase GALS1	207733647	207736615
<i>Zm00001d018320</i>	5		218434662	218435468
<i>Zm00001d018084</i>	5	Nuclear pore complex protein NUP155	213932804	213934329
<i>Zm00001d018386</i>	5	Aspartate aminotransferase chloroplastic	219773951	219778845
<i>Zm00001d017986</i>	5	E2F transcription factor-like E2FE	211406416	211411375
<i>Zm00001d018277</i>	5	UMP-CMP kinase 3	217812461	217817257
<i>Zm00001d018414</i>	5	IAA9-auxin-responsive Aux/IAA family member	220284286	220285517
<i>Zm00001d018144</i>	5	ARM repeat superfamily protein	215392664	215396576
<i>Zm00001d018107</i>	5	Protein EXORDIUM	214474686	214475630
<i>Zm00001d017958</i>	5	Glutamine synthetase root isozyme 3	210867625	210871221
<i>Zm00001d018031</i>	5	alpha expansin2	212483686	212485307
<i>Zm00001d017852</i>	5	Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:B6SJZ4]	208841207	208841407
<i>Zm00001d018524</i>	5	O-fucosyltransferase family protein	222467289	222474599
<i>Zm00001d018440</i>	5	casein kinase I	220896917	220900829
<i>Zm00001d018580</i>	5	exocyst subunit exo70 family protein H7	223656066	223657883
<i>Zm00001d017703</i>	5	survival motor neuron protein	204683247	204687276
<i>Zm00001d018233</i>	5	Probable cyclic nucleotide-gated ion channel 20 chloroplastic	217111113	217125566
<i>Zm00001d017800</i>	5		207118180	207122586
<i>Zm00001d018432</i>	5	SAP-like protein BP-73	220722065	220725258
<i>Zm00001d018452</i>	5	F-box protein PP2-B10	221122059	221123875
<i>Zm00001d018400</i>	5		219994092	219994442

<i>Zm00001d018547</i>	5	Aminopeptidase M1	222774424	222775203
<i>Zm00001d018051</i>	5		213219441	213220187
<i>Zm00001d017848</i>	5	Clustered mitochondria protein	208664935	208684240
<i>Zm00001d017658</i>	5		203311877	203314849
<i>Zm00001d017726</i>	5	Homeodomain-like superfamily protein	205300454	205303606
<i>Zm00001d018390</i>	5	RING/U-box superfamily protein	219924290	219925789
<i>Zm00001d018192</i>	5	Glutaredoxin 2	216138802	216139080
<i>Zm00001d017999</i>	5	NAD(P)-binding Rossmann-fold superfamily protein	211662059	211668326
<i>Zm00001d018331</i>	5	Hsp70-Hsp90 organizing protein 2	218582214	218586864
<i>Zm00001d017946</i>	5	Mediator of RNA polymerase II transcription subunit 23	210558734	210581460
<i>Zm00001d018072</i>	5	Membrane-anchored ubiquitin-fold protein 6	213774589	213779282
<i>Zm00001d018555</i>	5	Homoserine kinase	222955600	222956742
<i>Zm00001d018571</i>	5	BZIP transcription factor	223499069	223500207
<i>Zm00001d017793</i>	5	Kinesin light chain	206964939	206969131
<i>Zm00001d017832</i>	5	Ribose-phosphate pyrophosphokinase 4	208249380	208257275
<i>Zm00001d017577</i>	5		200285812	200295114
<i>Zm00001d017640</i>	5		202856841	202860580
<i>Zm00001d018422</i>	5	glycosyltransferase family protein 2	220406547	220410747
<i>Zm00001d017751</i>	5	Pentatricopeptide repeat-containing protein chloroplastic	205889941	205895577
<i>Zm00001d018449</i>	5		221105099	221106267
<i>Zm00001d017683</i>	5	10A19I.15	204136139	204136664
<i>Zm00001d018135</i>	5	ER6 protein	215071960	215081499
<i>Zm00001d018117</i>	5		214683295	214683846
<i>Zm00001d017762</i>	5	abscisic acid 8'-hydroxylase1	206138068	206140902
<i>Zm00001d017653</i>	5	E3 ubiquitin-protein ligase ATLA	203227844	203228980
<i>Zm00001d018535</i>	5	brick1	222621124	222631121
<i>Zm00001d017872</i>	5	Transducin/WD40 repeat-like superfamily protein	209274818	209280493
<i>Zm00001d018076</i>	5		213819658	213821136
<i>Zm00001d018515</i>	5	AT-hook motif nuclear-localized protein 9	222298217	222302462
<i>Zm00001d018407</i>	5		220162170	220163381
<i>Zm00001d017675</i>	5	AP-2 complex subunit mu	203826875	203833441
<i>Zm00001d018263</i>	5		217598814	217600112
<i>Zm00001d018305</i>	5	Ethylene-responsive transcription factor RAP2-3	218213866	218216075
<i>Zm00001d018244</i>	5		217276464	217276919
<i>Zm00001d017625</i>	5		202094893	202104444
<i>Zm00001d018184</i>	5	flavonol synthase1	215975576	215976694
<i>Zm00001d017841</i>	5	Delta(12)-fatty-acid desaturase	208539532	208540653
<i>Zm00001d017906</i>	5	O-fucosyltransferase family protein	209944102	209948357
<i>Zm00001d018523</i>	5	26S proteasome non-ATPase regulatory subunit 12 homolog B	222461872	222467180
<i>Zm00001d018203</i>	5	Probable WRKY transcription factor 9	216529933	216532619

<i>Zm00001d018125</i>	5	ATP binding protein Bifunctional dTDP-4-dehydrorhamnose 35-	214753216	214754871
<i>Zm00001d017601</i>	5	epimerase/dTDP-4-dehydrorhamnose reductase	201313634	201316918
<i>Zm00001d017717</i>	5	ADP-ribosylation factor B1B Dihydropyrimidine dehydrogenase (NADP(+))	205082975	205085670
<i>Zm00001d017966</i>	5	chloroplastic	210969323	210974977
<i>Zm00001d018485</i>	5	Probable voltage-gated potassium channel subunit beta	221680806	221687059
<i>Zm00001d018040</i>	5	DCD (Development and Cell Death) domain protein CAP (Cysteine-rich secretory proteins Antigen 5 and	212684919	212689770
<i>Zm00001d018323</i>	5	Pathogenesis-related 1 protein) superfamily protein	218455888	218456508
<i>Zm00001d018147</i>	5	Phenylalanine--tRNA ligase alpha subunit cytoplasmic	215514651	215519823
<i>Zm00001d017691</i>	5	Histone acetyltransferase MCC1	204333624	204344512
<i>Zm00001d017583</i>	5	Generic methyltransferase	200655864	200658911
<i>Zm00001d017732</i>	5	Expansin-B4	205531148	205531960
<i>Zm00001d018567</i>	5	Protein ELC-like	223333291	223334508
<i>Zm00001d017845</i>	5	alpha/beta-Hydrolases superfamily protein	208603374	208605036
<i>Zm00001d017962</i>	5	RNA-dependent RNA polymerase 1	210947384	210954891
<i>Zm00001d017741</i>	5		205692143	205692622
<i>Zm00001d017613</i>	5	Protein LYK2	201699854	201703271
<i>Zm00001d017911</i>	5	basic leucine-zipper 58	210005007	210005537
<i>Zm00001d018139</i>	5	Defective in cullin neddylation protein	215244176	215245516
<i>Zm00001d018257</i>	5		217516473	217524451
<i>Zm00001d018112</i>	5	Polyadenylate-binding protein 3	214564081	214569814
<i>Zm00001d017754</i>	5	yeast YAK1-related gene 1	205924278	205940214
<i>Zm00001d018047</i>	5	B-block binding subunit of TFIIC	212828616	212850685
<i>Zm00001d018211</i>	5	1-aminocyclopropane-1-carboxylate oxidase35	216633702	216636170
<i>Zm00001d017859</i>	5	Rho GDP-dissociation inhibitor 1	209058601	209062935
<i>Zm00001d018191</i>	5	Ethylene-responsive transcription factor ERF014 Glucose-methanol-choline (GMC) oxidoreductase family	216112775	216113527
<i>Zm00001d017598</i>	5	protein	201224244	201226626
<i>Zm00001d017996</i>	5	Peroxidase 65	211642539	211643627
<i>Zm00001d017713</i>	5	Protein NRT1/ PTR FAMILY 8.3	205042879	205045991
<i>Zm00001d017801</i>	5	Formate dehydrogenase chloroplastic/mitochondrial	207142340	207144828
<i>Zm00001d017926</i>	5	NHL domain-containing protein P-loop containing nucleoside triphosphate hydrolases	210202931	210207440
<i>Zm00001d017812</i>	5	superfamily protein	207515530	207524652
<i>Zm00001d017737</i>	5	Expansin-B4	205579980	205580792
<i>Zm00001d018343</i>	5	RING-H2 finger protein ATL13 Encodes a protein whose expression is responsive to	218910330	218911622
<i>Zm00001d017943</i>	5	nematode infection.	210528507	210531177
<i>Zm00001d018575</i>	5	Epimerase family protein SDR39U1 homolog chloroplastic	223580876	223594048
<i>Zm00001d018237</i>	5	Protein trichome birefringence-like 1	217163272	217166348
<i>Zm00001d018025</i>	5	protein tyrosine kinase family protein	212350402	212368255

<i>Zm00001d017602</i>	5		201330993	201332190
<i>Zm00001d018256</i>	5		217507589	217508563
<i>Zm00001d018118</i>	5	Cupredoxin superfamily protein	214686691	214687533
<i>Zm00001d018009</i>	5	P-loop containing nucleoside triphosphate hydrolases superfamily protein	211938923	211947803
<i>Zm00001d017634</i>	5	DUF936 family protein	202684054	202685221
<i>Zm00001d017817</i>	5		207626509	207626934
<i>Zm00001d017746</i>	5	vitamin E synthesis4	205825586	205829216
<i>Zm00001d017736</i>	5	Expansin-B4	205576400	205576981
<i>Zm00001d018134</i>	5	Peptidyl-prolyl cis-trans isomerase FKBP12	215050035	215052015
<i>Zm00001d018050</i>	5	AP2-like ethylene-responsive transcription factor AIL1	213161649	213165885
<i>Zm00001d017919</i>	5	TRICHOME BIREFRINGENCE-LIKE 20	210091834	210093211
<i>Zm00001d018369</i>	5	Serine carboxypeptidase 24	219413422	219418916
<i>Zm00001d017720</i>	5	DNA topoisomerase 2	205181529	205188957
<i>Zm00001d017702</i>	5	Probable transcription factor KAN2	204630766	204635304
<i>Zm00001d018461</i>	5	Thioredoxin	221213922	221215452
<i>Zm00001d018572</i>	5	Retrovirus-related Pol polyprotein LINE-1	223541817	223542443
<i>Zm00001d018588</i>	5		223791516	223792178
<i>Zm00001d018495</i>	5	Thioredoxin-like 3-2 chloroplastic S-adenosyl-L-methionine-dependent methyltransferases superfamily protein	221800393	221803136
<i>Zm00001d018411</i>	5		220247366	220250282
<i>Zm00001d018241</i>	5	DNA-3-methyladenine glycosylase	217264155	217266998
<i>Zm00001d018210</i>	5		216621754	216622970
<i>Zm00001d018583</i>	5	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1Q1AIH6]	223742001	223767874
<i>Zm00001d017780</i>	5	Ubiquitin-protein ligase	206546323	206552409
<i>Zm00001d018325</i>	5	alpha/beta-Hydrolases superfamily protein	218485327	218489189
<i>Zm00001d018376</i>	5	Protein EXECUTER 2 chloroplastic	219492038	219493666
<i>Zm00001d017831</i>	5	AT-rich interactive domain-containing protein 3 Regulator of chromosome condensation (RCC1) family with FYVE zinc finger domain	208057546	208063084
<i>Zm00001d017641</i>	5		202867050	202880992
<i>Zm00001d017749</i>	5		205881374	205882818
<i>Zm00001d018032</i>	5	Probable mannan synthase 7	212488580	212492036
<i>Zm00001d018206</i>	5	Nitrate reductase [NADH] 2	216589277	216592402
<i>Zm00001d017630</i>	5	CBL-interacting serine/threonine-protein kinase 5	202555983	202557068
<i>Zm00001d018081</i>	5	AP2 domain-containing protein	213912954	213913979
<i>Zm00001d018366</i>	5	embryo defective17	219238426	219241502
<i>Zm00001d018431</i>	5	Wall-associated receptor kinase-like 8	220634043	220637003
<i>Zm00001d018234</i>	5		217126343	217126909
<i>Zm00001d017939</i>	5	Zinc finger protein CONSTANS-LIKE 7	210407150	210409118
<i>Zm00001d017903</i>	5	Aquaporin SIP1-1	209829962	209834459
<i>Zm00001d017622</i>	5	OSJNBa0088A01.13 protein; protein	201997949	201998494

<i>Zm00001d018318</i>	5	Protein kinase superfamily protein with octicosapeptide/Phox/Bem1p domain	218380632	218387455
<i>Zm00001d018346</i>	5	Histone deacetylase 19	218950604	218951356
<i>Zm00001d018065</i>	5	mTERF family protein	213694436	213695611
<i>Zm00001d018265</i>	5	BAG family molecular chaperone regulator 1	217638865	217640700
<i>Zm00001d017886</i>	5	Nucleotide/sugar transporter family protein	209622400	209626936
<i>Zm00001d018470</i>	5	Carboxyl-terminal-processing peptidase 2 chloroplastic	221357720	221362176
<i>Zm00001d018391</i>	5	RING/U-box superfamily protein	219928336	219932462
<i>Zm00001d017725</i>	5	Cell division cycle 20.1 cofactor of APC complex	205294819	205296713
<i>Zm00001d017639</i>	5	Chitinase 1	202840915	202841791
<i>Zm00001d018342</i>	5	trehalose-6-phosphate synthase11	218888425	218892344
<i>Zm00001d017980</i>	5	Mitochondrial fission protein ELM1	211285164	211300568
<i>Zm00001d018477</i>	5	Phosphatidylinositol N-acetylglucosaminlytransferase subunit P-related	221507910	221515299
<i>Zm00001d017697</i>	5		204484844	204485122
<i>Zm00001d018113</i>	5	LMBR1-like membrane protein	214610898	214624337
<i>Zm00001d018253</i>	5		217437743	217438343
<i>Zm00001d018156</i>	5	Galactoside 2-alpha-L-fucosyltransferase	215689465	215692994
<i>Zm00001d018587</i>	5	Protein TRANSPARENT TESTA 16	223789445	223791111
<i>Zm00001d017682</i>	5	PLATZ transcription factor family protein	204120837	204122561
<i>Zm00001d018491</i>	5		221714098	221714640
<i>Zm00001d017997</i>	5	Alpha-mannosidase I MNS5	211648510	211653599
<i>Zm00001d018190</i>	5	RING/U-box superfamily protein	216100153	216101154
<i>Zm00001d017750</i>	5		205884839	205888707
<i>Zm00001d017860</i>	5	Fimbrin-1	209065470	209070347
<i>Zm00001d018576</i>	5		223594563	223599597
<i>Zm00001d018041</i>	5	Protein SUR2	212692584	212696936
<i>Zm00001d018075</i>	5	Copper ion binding protein	213815299	213816720
<i>Zm00001d017882</i>	5	KH domain-containing protein	209528751	209533960
<i>Zm00001d018123</i>	5	Mitochondrial transcription termination factor family protein	214729995	214731613
<i>Zm00001d018209</i>	5	Tyrosine specific protein phosphatase family protein	216610165	216612671
<i>Zm00001d018352</i>	5	Protein kinase superfamily protein	219060176	219065523
<i>Zm00001d017955</i>	5	Cysteine-rich repeat secretory protein 15	210812448	210813281
<i>Zm00001d017584</i>	5	Lysophospholipid acyltransferase 1	200700839	200710960
<i>Zm00001d018514</i>	5	Protein BTR1	222224896	222230161
<i>Zm00001d017778</i>	5	Transcription factor bHLH63	206414473	206416485
<i>Zm00001d018417</i>	5		220368808	220372049
<i>Zm00001d018219</i>	5	Pentatricopeptide repeat-containing protein mitochondrial	216823300	216826617
<i>Zm00001d018235</i>	5		217143410	217145496
<i>Zm00001d017868</i>	5	Chloride channel protein CLC-f	209147917	209153884
<i>Zm00001d018104</i>	5	EPIDERMAL PATTERNING FACTOR-like protein 1	214355541	214357266

<i>Zm00001d017959</i>	5	Ankyrin repeat-containing protein	210906424	210910522
<i>Zm00001d018005</i>	5	Protease Do-like 9	211811435	211817914
<i>Zm00001d018322</i>	5	Pathogenesis-related protein PR-1	218451446	218451973
<i>Zm00001d018334</i>	5	Nuclear transport factor 2 (NTF2) family protein	218621829	218623785
<i>Zm00001d018360</i>	5	Zinc finger CCCH domain-containing protein 22	219161503	219165844
<i>Zm00001d017765</i>	5	WAT1-related protein	206195445	206198744
<i>Zm00001d018392</i>	5	neurochondrin family protein	219939330	219947234
<i>Zm00001d017944</i>	5		210535051	210536825
<i>Zm00001d018484</i>	5	Actin-related protein 2/3 complex subunit 1A	221667331	221673804
<i>Zm00001d018086</i>	5		213976676	213977392
<i>Zm00001d018278</i>	5	Fatty-acid-binding protein 2	217822234	217826421
<i>Zm00001d017889</i>	5	Serine/threonine-protein kinase D6PKL1	209652199	209653828
<i>Zm00001d017606</i>	5	Transcription repressor OFP6	201436779	201437657
<i>Zm00001d017783</i>	5	AAA-type ATPase family protein	206691760	206696301
<i>Zm00001d018048</i>	5	10A19I.15	212841881	212843454
<i>Zm00001d018465</i>	5		221328960	221335180
<i>Zm00001d018029</i>	5	Casparian strip membrane protein 5	212390087	212391281
<i>Zm00001d018436</i>	5		220842394	220843750
<i>Zm00001d017788</i>	5	Dof zinc finger protein DOF2.1	206876258	206880405
<i>Zm00001d017676</i>	5	Acetylornithine deacetylase	203880481	203884648
<i>Zm00001d018434</i>	5		220807969	220808690
<i>Zm00001d017802</i>	5	Histidinol-phosphate aminotransferase 2 chloroplastic	207144269	207147422
<i>Zm00001d018122</i>	5	E3 ubiquitin-protein ligase ATL6	214720422	214721681
<i>Zm00001d018454</i>	5	Glutathione reductase cytosolic	221144871	221153975
<i>Zm00001d018332</i>	5	Glutamate receptor 2.7	218588559	218592271
<i>Zm00001d017666</i>	5	Protein NRT1/ PTR FAMILY 7.2	203485525	203489990
<i>Zm00001d017913</i>	5	Protein NSP-INTERACTING KINASE 1	210045106	210049644
<i>Zm00001d017728</i>	5	Polyamine transporter RMV1	205371599	205377633
<i>Zm00001d017743</i>	5	Cell division control protein 48 homolog D	205749775	205753794
<i>Zm00001d018464</i>	5		221328025	221329116
<i>Zm00001d018218</i>	5	N-acetyltransferase S-adenosyl-L-methionine-dependent methyltransferases superfamily protein	216753835	216756759
<i>Zm00001d017887</i>	5		209631841	209639778
<i>Zm00001d018074</i>	5	Aspartic proteinase-like protein 1	213809766	213814190
<i>Zm00001d017994</i>	5	Transducin/WD40 repeat-like superfamily protein	211567137	211568207
<i>Zm00001d017810</i>	5		207491705	207497156
<i>Zm00001d018341</i>	5	Serine/arginine-rich splicing factor RSZ22	218864557	218871863
<i>Zm00001d018197</i>	5	Soluble inorganic pyrophosphatase 6 chloroplastic	216311489	216316556
<i>Zm00001d017932</i>	5	Agamous-like MADS-box protein AGL16	210273759	210285475
<i>Zm00001d018157</i>	5	light harvesting complex a/b protein4	215693591	215695288
<i>Zm00001d018420</i>	5	Protein kinase superfamily protein	220379839	220387369



<i>Zm00001d017974</i>	5		211121450	211121701
<i>Zm00001d018582</i>	5		223738965	223741473
<i>Zm00001d017656</i>	5	Uncharacterized enzyme involved in pigment biosynthesis	203295312	203302352
<i>Zm00001d018004</i>	5	Rho-related protein from plants 1	211768723	211777331
<i>Zm00001d018513</i>	5	RING/U-box superfamily protein	222215740	222223966
<i>Zm00001d018474</i>	5	GDSL esterase/lipase LTL1	221423120	221424916
<i>Zm00001d018022</i>	5		212225087	212227380
<i>Zm00001d018110</i>	5		214491927	214492822
<i>Zm00001d017592</i>	5	Dehydration-responsive element-binding protein 1A	201022603	201023298
<i>Zm00001d017961</i>	5	Microtubule-associated protein 70-1	210933744	210939753
<i>Zm00001d017781</i>	5		206584432	206587009
<i>Zm00001d017685</i>	5	Chaperone DnaJ-domain superfamily protein	204191566	204196931
<i>Zm00001d018242</i>	5	Putative metal tolerance protein C3	217267743	217269922
<i>Zm00001d018307</i>	5	lysine-ketoglutarate reductase/saccharopine dehydrogenase bifunctional enzyme	218234260	218237936
<i>Zm00001d018460</i>	5	leunig-related2	221195976	221208870
<i>Zm00001d017760</i>	5	Glucose-6-phosphate 1-dehydrogenase 4 chloroplastic	206033223	206034191
<i>Zm00001d017978</i>	5	Endoglucanase 1	211180278	211183912
<i>Zm00001d017785</i>	5	alpha/beta-Hydrolases superfamily protein	206726528	206728565
<i>Zm00001d018042</i>	5	Whole genome shotgun sequence of line PN40024 scaffold_26.assembly12x (Fragment)	212712300	212716910
<i>Zm00001d018430</i>	5		220601504	220606182
<i>Zm00001d017807</i>	5		207375638	207378185
<i>Zm00001d018447</i>	5	Octicosapeptide/Phox/Bem1p family protein	221089092	221090738
<i>Zm00001d018290</i>	5	MADS box interactor-like	218022410	218026606
<i>Zm00001d017984</i>	5	Probable galacturonosyltransferase-like 9	211370735	211372359
<i>Zm00001d018573</i>	5	Rho-related protein from plants 4	223568967	223577082
<i>Zm00001d018274</i>	5	Isoleucine--tRNA ligase chloroplastic/mitochondrial	217743713	217763219
<i>Zm00001d017718</i>	5		205088109	205091684
<i>Zm00001d018087</i>	5		213984418	213985413
<i>Zm00001d017638</i>	5	Expressed protein; protein	202751395	202752915
<i>Zm00001d017586</i>	5	OSJNBa0058K23.15 protein; protein	200776404	200776745
<i>Zm00001d017936</i>	5	Basic blue protein	210382851	210383930
<i>Zm00001d018370</i>	5	Leucine aminopeptidase 2 chloroplastic	219420754	219424631
<i>Zm00001d017617</i>	5	Mitochondrial import inner membrane translocase subunit TIM13	201803815	201807716
<i>Zm00001d017603</i>	5	Pentatricopeptide repeat (PPR) superfamily protein	201334831	201336336
<i>Zm00001d018279</i>	5	Endoglucanase 15	217827848	217829970
<i>Zm00001d018142</i>	5	MADS-box protein SVP	215341246	215348037
<i>Zm00001d018255</i>	5	Nuclear transcription factor Y subunit A-3	217462041	217466991
<i>Zm00001d017730</i>	5	Protein BREVIS RADIX	205467077	205473131
<i>Zm00001d018033</i>	5	Starch synthase IIb-2	212494773	212500400

<i>Zm00001d018056</i>	5	DNA binding protein	213279676	213281098
<i>Zm00001d017843</i>	5		208581631	208582399
<i>Zm00001d017595</i>	5	Zinc finger CCCH domain-containing protein 48	201207642	201214016
<i>Zm00001d018435</i>	5	NAC domain containing protein 74	220828387	220830479
<i>Zm00001d017579</i>	5	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6HFU3]	200593062	200597737
<i>Zm00001d017918</i>	5	TRICHOME BIREFRINGENCE-LIKE 20	210086827	210090321
<i>Zm00001d018049</i>	5	HVA22-like protein a	213151971	213160764
<i>Zm00001d018457</i>	5	Probable dolichyl pyrophosphate Man9GlcNAc2 alpha-13- glucosyltransferase	221162892	221164049
<i>Zm00001d017964</i>	5	Putative RNA-dependent RNA polymerase	210959844	210965383
<i>Zm00001d017669</i>	5	Peptide chain release factor PrfB1 chloroplastic	203594531	203596061
<i>Zm00001d018546</i>	5	Polyadenylate-binding protein RBP45C	222767431	222768142
<i>Zm00001d017615</i>	5	RING/U-box superfamily protein	201775528	201775992
<i>Zm00001d017796</i>	5	Phosphatidylinositol/phosphatidylcholine transfer protein SFH13	207003913	207005226
<i>Zm00001d018338</i>	5		218812361	218814640
<i>Zm00001d017752</i>	5	Transcription factor GT-3b	205893484	205894854
<i>Zm00001d017756</i>	5	Syntaxin-22	206004272	206007539
<i>Zm00001d017867</i>	5	Aspartyl protease AED1	209143391	209145843
<i>Zm00001d018137</i>	5	Replication protein-like	215137018	215139858
<i>Zm00001d017928</i>	5	Aluminum-activated malate transporter 9	210212564	210215163
<i>Zm00001d017764</i>	5		206193774	206194431
<i>Zm00001d018154</i>	5	Beta-adaptin-like protein C	215609881	215612833
<i>Zm00001d018287</i>	5	ATP-dependent DNA helicase Q-like 3	217939574	217950957
<i>Zm00001d018316</i>	5	Quinoprotein amine dehydrogenase beta chain-like; RIC1- like guanyl-nucleotide exchange factor	218337503	218359633
<i>Zm00001d018383</i>	5	ribosomal protein L39	219689034	219689884
<i>Zm00001d017570</i>	5	Aluminum-activated malate transporter 10	199880025	199882270
<i>Zm00001d018061</i>	5	Shikimate kinase	213495789	213498656
<i>Zm00001d018090</i>	5	annexin2	214042874	214045954
<i>Zm00001d018013</i>	5	CDP-diacylglycerol--serine O-phosphatidyltransferase 1	212102698	212106748
<i>Zm00001d018247</i>	5	Zinc finger protein	217371258	217372112
<i>Zm00001d018355</i>	5	homolog of yeast autophagy 18 (ATG18) B	219132562	219138725
<i>Zm00001d017735</i>	5	Expansin-B4	205560304	205561065
<i>Zm00001d017670</i>	5	Protein phosphatase 2C 29	203605797	203610210
<i>Zm00001d017826</i>	5	3-hydroxy-3-methylglutaryl-coenzyme A reductase 2	207860764	207865964
<i>Zm00001d018509</i>	5		222113076	222115201
<i>Zm00001d017646</i>	5		202983357	202984353
<i>Zm00001d018560</i>	5	Callose synthase 3	223226269	223236491
<i>Zm00001d018298</i>	5	17.4 kDa class III heat shock protein	218096889	218097874
<i>Zm00001d017908</i>	5	Transcription factor BIM3	209974275	209978114

<i>Zm00001d018517</i>	5	NAD(P)-binding Rossmann-fold superfamily protein	222357026	222359110
<i>Zm00001d017585</i>	5	Nuclear transport factor 2 (NTF2) family protein	200772224	200775848
<i>Zm00001d018227</i>	5		217019028	217021495
<i>Zm00001d018127</i>	5	SNW/SKI-interacting protein	214791877	214793710
<i>Zm00001d018375</i>	5	DEAD-box ATP-dependent RNA helicase 1	219481691	219490003
<i>Zm00001d017987</i>	5	Microtubule-associated protein TORTIFOLIA1	211412495	211416317
<i>Zm00001d017850</i>	5	60S ribosomal protein L31	208742451	208744562
<i>Zm00001d018315</i>	5	Serine carboxypeptidase S28 family protein	218311906	218314141
<i>Zm00001d018016</i>	5	RING-H2 finger protein ATL46	212198363	212199559
<i>Zm00001d018145</i>	5	Presequence protease 2 chloroplastic/mitochondrial	215496060	215504192
<i>Zm00001d018328</i>	5	RING/U-box superfamily protein	218514190	218518512
<i>Zm00001d018163</i>	5	Photosystem II CP47 reaction center protein	215765805	215767265
<i>Zm00001d018260</i>	5	Growth-regulating factor 6	217546954	217548912
<i>Zm00001d018037</i>	5	NOD26-like membrane intrinsic protein2	212580241	212583888
<i>Zm00001d018275</i>	5		217763376	217784616
<i>Zm00001d017696</i>	5	Peroxidase 64	204473993	204475006
<i>Zm00001d018293</i>	5	Probable histone H2AXb	218057801	218058363
<i>Zm00001d018428</i>	5	Zinc finger (C3HC4-type RING finger) family protein	220579161	220583564
<i>Zm00001d017591</i>	5	Ethylene-responsive transcription factor ERF025	200872270	200873106
<i>Zm00001d018201</i>	5	LysM domain-containing GPI-anchored protein 1	216450124	216453807
<i>Zm00001d018327</i>	5		218508442	218510648
<i>Zm00001d018141</i>	5	Ribosome production factor 2 homolog	215262623	215275544
<i>Zm00001d018106</i>	5	Protein EXORDIUM	214437864	214442320
<i>Zm00001d018059</i>	5	L-type lectin-domain containing receptor kinase IX.1	213450456	213456337
<i>Zm00001d018489</i>	5	Tumor-related protein	221702963	221706664
<i>Zm00001d018585</i>	5	Golgin candidate 2	223770806	223772317
<i>Zm00001d017782</i>	5	SANT/MYB protein	206597153	206597443
<i>Zm00001d018441</i>	5	P-loop containing nucleoside triphosphate hydrolases superfamily protein	220902906	220907799
<i>Zm00001d018371</i>	5	Formin-like protein 18	219425678	219440046
<i>Zm00001d018012</i>	5		211978697	211982782
<i>Zm00001d018002</i>	5		211724809	211725519
<i>Zm00001d018406</i>	5	MGD2	220155599	220160963
<i>Zm00001d017671</i>	5	E3 ubiquitin-protein ligase PUB23	203614656	203615933
<i>Zm00001d017620</i>	5	Tobamovirus multiplication protein 3	201983972	201987023
<i>Zm00001d017566</i>	5	N6-adenosine-methyltransferase MT-A70-like protein	199762000	199766413
<i>Zm00001d018433</i>	5	Protein LIGHT-DEPENDENT SHORT HYPOCOTYLS 3 AT3G23300 (E=2e-039)   dehydration-responsive protein-related	220783919	220784662
<i>Zm00001d017775</i>	5		206386608	206387958
<i>Zm00001d017923</i>	5	RING-H2 finger protein ATL56	210118083	210118478
<i>Zm00001d018503</i>	5	Serine/threonine-protein phosphatase	221970822	221973170

<i>Zm00001d017727</i>	5	alternative oxidase1 Photosynthetic NDH subunit of subcomplex B 4	205304084	205306760
<i>Zm00001d018030</i>	5	chloroplastic	212391759	212393282
<i>Zm00001d018267</i>	5		217648875	217649638
<i>Zm00001d017985</i>	5	Pyruvate dehydrogenase E1 component alpha subunit	211401090	211405864
<i>Zm00001d018312</i>	5	Galactosyltransferase family protein	218290674	218291669
<i>Zm00001d018570</i>	5		223397565	223400654
<i>Zm00001d017574</i>	5	ORMDL family protein	200131675	200141300
<i>Zm00001d018193</i>	5		216139899	216142395
<i>Zm00001d018060</i>	5	Exocyst complex component SEC6	213494647	213524574
<i>Zm00001d018542</i>	5	DEAD-box ATP-dependent RNA helicase 34	222667426	222670507
<i>Zm00001d017776</i>	5		206389078	206390801
<i>Zm00001d018423</i>	5	UDP-glucose:glycoprotein glucosyltransferase	220485106	220523102
<i>Zm00001d017786</i>	5	putidaredoxin reductase homolog1	206748709	206751630
<i>Zm00001d018136</i>	5	Glycerophosphodiester phosphodiesterase GDPD4	215112213	215113540
<i>Zm00001d017794</i>	5	UDP-glucuronate 4-epimerase 1	206995293	206996414
<i>Zm00001d017893</i>	5	hAT transposon superfamily protein Prolyl 4-hydroxylase 8%3B Prolyl 4-hydroxylase 8-1%3B	209703274	209706844
<i>Zm00001d018526</i>	5	Prolyl 4-hydroxylase alpha-2 subunit	222482005	222484957
<i>Zm00001d017684</i>	5	DUF740 family protein	204181533	204182126
<i>Zm00001d018581</i>	5	Acyl-coenzyme A oxidase 2 peroxisomal	223685820	223687406
<i>Zm00001d018451</i>	5	F-box protein PP2-B10	221117837	221119414
<i>Zm00001d018102</i>	5		214210975	214213524
<i>Zm00001d017935</i>	5	zinc ion binding P-loop NTPase domain-containing protein LPA1 homolog	210378851	210382756
<i>Zm00001d018497</i>	5	1	221816955	221821994
<i>Zm00001d017650</i>	5	Probable ADP-ribosylation factor	203139983	203141495
<i>Zm00001d018500</i>	5	ABC transporter G family member 24	221871850	221876358
<i>Zm00001d017704</i>	5	Target of Myb protein 1	204688990	204692437
<i>Zm00001d017798</i>	5	Histone-lysine N-methyltransferase SUV5	207066204	207098182
<i>Zm00001d018149</i>	5	Cyclin-dependent kinase inhibitor 2	215542515	215544271
<i>Zm00001d018043</i>	5	Cullin-3B ATP-dependent DNA helicase	212717180	212720262
<i>Zm00001d017981</i>	5	[Source:UniProtKB/TrEMBL;Acc:A0A1D6HJR0]	211303399	211321137
<i>Zm00001d018291</i>	5	Transducin/WD40 repeat-like superfamily protein	218027092	218047426
<i>Zm00001d018088</i>	5	Tetratricopeptide repeat (TPR)-like superfamily protein	213988699	213992184
<i>Zm00001d017813</i>	5	17.4 kDa class I heat shock protein 3	207525809	207526282
<i>Zm00001d018310</i>	5		218262089	218266561
<i>Zm00001d017609</i>	5	Protein REVEILLE 6	201463285	201477308
<i>Zm00001d018204</i>	5		216549186	216551310
<i>Zm00001d018126</i>	5	F-box protein FBX14	214779470	214783034
<i>Zm00001d018064</i>	5	Laccase-14	213687810	213690534

<i>Zm00001d017582</i>	5	cytochrome P450 family 87 subfamily A polypeptide 2	200612130	200616453
<i>Zm00001d017897</i>	5		209719922	209722622
<i>Zm00001d018148</i>	5	Cytoplasmic tRNA 2-thiolation protein 1	215523072	215536003
<i>Zm00001d017668</i>	5	Selenium-binding protein 3	203516293	203517933
<i>Zm00001d018533</i>	5	RING/U-box superfamily protein	222569518	222573939
<i>Zm00001d018401</i>	5	plastid transcriptionally active 17	219999576	220004268
<i>Zm00001d018467</i>	5	homolog of Synechocystis YCF37	221343988	221344533
<i>Zm00001d017905</i>	5	BSD domain-containing protein	209876443	209879538
<i>Zm00001d018410</i>	5	40S ribosomal protein S30	220246585	220247259
<i>Zm00001d018181</i>	5	flavonol synthase2	215925493	215926588
<i>Zm00001d018438</i>	5	Ypt/Rab-GAP domain of gyp1p superfamily protein	220885277	220890325
<i>Zm00001d018304</i>	5		218185205	218186126
<i>Zm00001d018111</i>	5	F-box protein FBW2	214559308	214562494
<i>Zm00001d018294</i>	5		218062602	218064331
<i>Zm00001d017953</i>	5	Probable peroxygenase 4	210785282	210790516
<i>Zm00001d018046</i>	5	Protein POLLEN DEFECTIVE IN GUIDANCE 1	212798586	212804962
<i>Zm00001d018340</i>	5	Transmembrane amino acid transporter family protein	218861910	218865592
<i>Zm00001d017755</i>	5	Rop guanine nucleotide exchange factor 14	205944885	205951175
<i>Zm00001d018250</i>	5		217419366	217420112
<i>Zm00001d017604</i>	5	Rho GTPase-activating protein 3	201364588	201367782
<i>Zm00001d017712</i>	5	Probable WRKY transcription factor 14	204965594	204969901
<i>Zm00001d017836</i>	5	NAD(P)-binding Rossmann-fold superfamily protein	208266641	208271222
<i>Zm00001d017970</i>	5		211022670	211023208
<i>Zm00001d017844</i>	5		208593275	208594348
<i>Zm00001d017995</i>	5	Chaperone protein dnaJ 16	211635631	211640602
<i>Zm00001d018568</i>	5	Autophagy-related protein 8c	223363140	223366283
<i>Zm00001d018493</i>	5	Protein MID1-COMPLEMENTING ACTIVITY 1	221782915	221784572
<i>Zm00001d017880</i>	5	Probable amino acid permease 7	209498712	209501781
<i>Zm00001d018541</i>	5	Inactive leucine-rich repeat receptor-like serine/threonine-protein kinase	222662281	222667195
<i>Zm00001d018286</i>	5	Mono-/di-acylglycerol lipase N-terminal;Lipase class 3	217935289	217940566
<i>Zm00001d017797</i>	5		207006591	207006877
<i>Zm00001d018055</i>	5	Alba DNA/RNA-binding protein	213262134	213273317
<i>Zm00001d017687</i>	5	Retrovirus-related Pol polyprotein LINE-1	204300460	204303088
<i>Zm00001d017647</i>	5		202990864	202992025
<i>Zm00001d017825</i>	5	AT-hook motif nuclear-localized protein 29	207839207	207840181
<i>Zm00001d017740</i>	5	Expansin-B4	205615626	205616553
<i>Zm00001d017597</i>	5	SPX domain-containing membrane protein	201217982	201223628
<i>Zm00001d018472</i>	5	Receptor-like serine/threonine-protein kinase ALE2	221369297	221375425
<i>Zm00001d018228</i>	5	General transcription factor 2-related zinc finger protein	217023991	217036516
<i>Zm00001d017573</i>	5	Transcription factor bHLH157	200047657	200053076

<i>Zm00001d018231</i>	5	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6HLQ4]	217068593	217075171
<i>Zm00001d017626</i>	5		202122699	202124048
<i>Zm00001d018131</i>	5	Chaperone protein dnaJ	214945228	214948102
<i>Zm00001d018516</i>	5	Probable DEAD-box ATP-dependent RNA helicase 48	222352424	222357010
<i>Zm00001d017912</i>	5	LAG1 longevity assurance homolog 3	210036826	210039426
<i>Zm00001d017771</i>	5	Isoflavone reductase	206343101	206346122
<i>Zm00001d017804</i>	5	Transcription factor bHLH83	207299284	207300818
<i>Zm00001d018180</i>	5	THO complex subunit 5B	215915905	215922136
<i>Zm00001d017629</i>	5		202544328	202544770
<i>Zm00001d018462</i>	5	Phospholipid--sterol O-acyltransferase	221220610	221236850
<i>Zm00001d017787</i>	5	Monodehydroascorbate reductase 4 peroxisomal	206752152	206757266
<i>Zm00001d018161</i>	5	Ferredoxin--nitrite reductase chloroplastic	215727084	215730071
<i>Zm00001d018038</i>	5	Putative NAC domain-containing protein 94	212630308	212636028
<i>Zm00001d018511</i>	5	Probable E3 ubiquitin-protein ligase RHB1A	222127237	222130356
<i>Zm00001d017902</i>	5	Pumilio homolog 24	209822875	209823935
<i>Zm00001d018496</i>	5	Pumilio homolog 4	221803945	221816646
<i>Zm00001d017809</i>	5	Heat shock 70 kDa protein 17	207482554	207491210
<i>Zm00001d018419</i>	5		220377492	220379540
<i>Zm00001d017951</i>	5	Nudix hydrolase 17 mitochondrial	210778082	210779268
<i>Zm00001d018481</i>	5	myosin2	221569552	221583567
<i>Zm00001d018089</i>	5	VQ motif family protein	214041553	214042179
<i>Zm00001d017894</i>	5	Pentatricopeptide repeat-containing protein mitochondrial	209707498	209709330
<i>Zm00001d017818</i>	5	Protease Do-like 7	207638868	207671710
<i>Zm00001d018313</i>	5		218298520	218301104
<i>Zm00001d018270</i>	5	Serine/threonine-protein kinase Rio1	217655683	217659710
<i>Zm00001d018527</i>	5	sucrose transporter2	222512491	222516983
<i>Zm00001d018301</i>	5	Aspartokinase 1 chloroplastic	218136753	218139207
<i>Zm00001d018207</i>	5	Ubiquitin ligase protein COP1	216597825	216606598
<i>Zm00001d018129</i>	5	ATP-citrate synthase alpha chain protein 3	214924233	214935714
<i>Zm00001d018226</i>	5	UPF0614 C14orf102-like protein	217007561	217018872
<i>Zm00001d018373</i>	5	bromodomain 4 uncharacterized protein	219456143	219459454
<i>Zm00001d017619</i>	5	[Source:UniProtKB/TrEMBL;Acc:B6U6D2]	201958424	201958630
<i>Zm00001d017949</i>	5	Endoglucanase 8	210674350	210677138
<i>Zm00001d017707</i>	5	P-loop containing nucleoside triphosphate hydrolases superfamily protein	204745661	204751145
<i>Zm00001d018185</i>	5	G-type lectin S-receptor-like serine/threonine-protein kinase	215979219	215981867
<i>Zm00001d018589</i>	5		223794511	223795043
<i>Zm00001d018437</i>	5	Desiccation-associated protein	220882048	220882934
<i>Zm00001d018469</i>	5	Diphthamide biosynthesis protein 1	221354163	221357368

<i>Zm00001d018066</i>	5	Mitochondrial transcription termination factor family protein	213696372	213697544
<i>Zm00001d017915</i>	5	ribosomal RNA-processing protein	210055877	210059325
<i>Zm00001d018347</i>	5	Protein NSP-INTERACTING KINASE 1	218953292	218953779
<i>Zm00001d018130</i>	5	Protein CURVATURE THYLAKOID 1D chloroplastic	214939176	214944676
<i>Zm00001d017623</i>	5		202011363	202012100
<i>Zm00001d018405</i>	5	S-adenosyl-L-methionine-dependent methyltransferases superfamily protein	220042578	220045746
<i>Zm00001d017588</i>	5	Translation initiation factor IF-2 chloroplastic	200778903	200790488
<i>Zm00001d018058</i>	5	Glutaredoxin family protein	213446943	213448076
<i>Zm00001d018077</i>	5	Photosynthetic NDH subunit of lumenal location 4 chloroplastic	213824475	213826162
<i>Zm00001d018579</i>	5		223650776	223651078
<i>Zm00001d018459</i>	5		221176542	221177152
<i>Zm00001d017748</i>	5	3-dehydrosphinganine reductase TSC10B	205851491	205853476
<i>Zm00001d017885</i>	5	Zinc finger protein CONSTANS-LIKE 9	209614260	209620254
<i>Zm00001d018266</i>	5		217645186	217647573
<i>Zm00001d018399</i>	5		219982191	219988382
<i>Zm00001d018098</i>	5	Amidase	214145696	214154284
<i>Zm00001d018326</i>	5	MAP kinase kinase4	218492798	218493868
<i>Zm00001d017992</i>	5	Metalloendoproteinase 1	211553897	211554963
<i>Zm00001d018195</i>	5	WAT1-related protein	216248325	216251073
<i>Zm00001d018415</i>	5	Proliferating cell nuclear antigen	220297125	220299214
<i>Zm00001d017989</i>	5	GDSL esterase/lipase	211463522	211465214
<i>Zm00001d017805</i>	5	Cation/H(+) antiporter 1	207302222	207308368
<i>Zm00001d018281</i>	5	Subtilisin-like protease SBT1.4	217840006	217842369
<i>Zm00001d018292</i>	5		218051839	218055528
<i>Zm00001d017898</i>	5	LEC1 transcription factor1	209724572	209725408
<i>Zm00001d018001</i>	5	Nucleobase-ascorbate transporter 6	211694641	211703345
<i>Zm00001d018155</i>	5	Galactoside 2-alpha-L-fucosyltransferase	215683238	215688199
<i>Zm00001d018011</i>	5	Lecithin-cholesterol acyltransferase-like 4	211975629	211984184
<i>Zm00001d017982</i>	5	DEXH-box ATP-dependent RNA helicase DEXH15 chloroplastic	211334503	211343257
<i>Zm00001d017644</i>	5	RNA polymerase I specific transcription initiation factor RRN3 protein	202965181	202970447
<i>Zm00001d018388</i>	5	Alginate regulatory protein AlgP	219784860	219785621
<i>Zm00001d018124</i>	5	Mitochondrial transcription termination factor family protein	214730366	214731481
<i>Zm00001d017881</i>	5	ADP-ribosylation factor GTPase-activating protein AGD12	209502895	209507334
<i>Zm00001d017937</i>	5	S-adenosylmethionine carrier 1 chloroplastic/mitochondrial	210385310	210401948
<i>Zm00001d018499</i>	5	Protein kinase superfamily protein	221856058	221866963
<i>Zm00001d017777</i>	5	Adenine nucleotide alpha hydrolases-like superfamily protein	206411178	206414574

<i>Zm00001d018229</i>	5	Adenine nucleotide alpha hydrolases-like superfamily protein	217043870	217045452
<i>Zm00001d017563</i>	5	Putative Myb family transcription factor	199683772	199686910
<i>Zm00001d018548</i>	5	Pectin lyase-like superfamily protein	222778069	222780034
<i>Zm00001d018364</i>	5	Snf1-related kinase interacting protein SKI1	219213801	219216830
<i>Zm00001d018455</i>	5	3-ketoacyl-CoA synthase 12	221156569	221157963
<i>Zm00001d018080</i>	5	Probable beta-D-xylosidase 7	213839290	213843472
<i>Zm00001d018448</i>	5		221103295	221107036
<i>Zm00001d018035</i>	5	Protein RKD3	212546517	212547423
<i>Zm00001d018103</i>	5	Probable RNA-binding protein ARP1	214348208	214354420
<i>Zm00001d017954</i>	5	Disease resistance protein RPM1	210807462	210811487
<i>Zm00001d018254</i>	5		217440263	217440881
<i>Zm00001d018140</i>	5	Sialyltransferase-like protein 1	215255604	215260516
<i>Zm00001d018395</i>	5	protein; Ribosomal protein-like	219968322	219970038
<i>Zm00001d018024</i>	5	PIN-formed protein2	212254262	212257744
<i>Zm00001d018363</i>	5	Probable steroid-binding protein 3	219212152	219212466
<i>Zm00001d017861</i>	5	Protein binding protein	209075772	209076365
<i>Zm00001d017888</i>	5	Calcium-dependent protein kinase 14	209640646	209644166
<i>Zm00001d018532</i>	5		222546221	222551438
<i>Zm00001d017890</i>	5	Retrotransposon protein Ty1-copia subclass	209654501	209671076
<i>Zm00001d018085</i>	5		213951246	213951617
<i>Zm00001d017973</i>	5		211093860	211094120
<i>Zm00001d018336</i>	5	Transmembrane amino acid transporter family protein	218712053	218717522
<i>Zm00001d018444</i>	5	Transducin/WD40 repeat-like superfamily protein	220937909	220941501
<i>Zm00001d018021</i>	5	23-bisphosphoglycerate-independent phosphoglycerate mutase 1	212222951	212224144
<i>Zm00001d018466</i>	5	RNA-binding (RRM/RBD/RNP motifs) family protein	221335367	221341417
<i>Zm00001d018404</i>	5	Heparanase-like protein 3	220038036	220041769
<i>Zm00001d017969</i>	5		211018300	211018563
<i>Zm00001d018220</i>	5	glutathione transferase24	216862591	216863616
<i>Zm00001d017766</i>	5	nine-cis-epoxycarotenoid dioxygenase8	206199093	206201012
<i>Zm00001d018006</i>	5	Serine/threonine-protein kinase WNK (With No Lysine)-related	211895819	211898527
<i>Zm00001d017689</i>	5	SNARE associated Golgi protein family	204310934	204313522
<i>Zm00001d017698</i>	5	Oligopeptide transporter 4	204485373	204490508
<i>Zm00001d018348</i>	5	PAP fibrillin family protein	218961839	218962366
<i>Zm00001d018091</i>	5	Ornithine carbamoyltransferase chloroplastic	214047482	214049911
<i>Zm00001d018280</i>	5	MTD1 [Source:UniProtKB/TrEMBL;Acc:B4FRH4]	217830621	217837326
<i>Zm00001d018198</i>	5		216319722	216320618
<i>Zm00001d017930</i>	5	organelle RRM protein1	210256398	210262442
<i>Zm00001d018335</i>	5	Protein SUPPRESSOR OF MAX2 1	218656526	218660119
<i>Zm00001d018178</i>	5	ABSCISIC ACID-INSENSITIVE 5-like protein 5	215861734	215871643



<i>Zm00001d017773</i>	5	TUB-transcription factor 9	206380933	206384191
<i>Zm00001d018152</i>	5	Protein SUPPRESSOR OF GENE SILENCING 3	215594980	215596255
<i>Zm00001d017869</i>	5	Aspartyl protease AED1	209156904	209161914
<i>Zm00001d018551</i>	5		222828329	222828982
<i>Zm00001d018159</i>	5	Alpha-amylase 1	215718401	215720596
<i>ENSRNA049453841</i>	5	U11 spliceosomal RNA	209886580	209886707
<i>ENSRNA049453826</i>	5	U2 spliceosomal RNA	206136156	206136352
<i>ENSRNA049453784</i>	5	U2 spliceosomal RNA	206688617	206688801
<i>ENSRNA049478017</i>	5	small nucleolar RNA snoR137	221336860	221337002
<i>ENSRNA049446278</i>	5	tRNA-Asp for anticodon GUC	204104020	204104091
<i>ENSRNA049446268</i>	5	tRNA-Met for anticodon CAU	204308744	204308828
<i>ENSRNA049446241</i>	5	tRNA-Tyr for anticodon GUA	214480485	214480569
<i>ENSRNA049446227</i>	5	tRNA-Trp for anticodon CCA	215772153	215772226
<i>ENSRNA049446167</i>	5	tRNA-Pro for anticodon AGG	222622259	222622330
<i>ENSRNA049446134</i>	5	tRNA-Glu for anticodon CUC	219582681	219582753
<i>ENSRNA049446128</i>	5	tRNA-Glu for anticodon CUC	219057976	219058048
<i>ENSRNA049446119</i>	5	tRNA-Ala for anticodon CGC	218088599	218088671
<i>ENSRNA049446094</i>	5	tRNA-Asn for anticodon GUU	215840460	215840531
<i>ENSRNA049446082</i>	5	tRNA-Ala for anticodon CGC	215725334	215725406
<i>ENSRNA049477174</i>	5	Group II catalytic intron	215780255	215780331
<i>ENSRNA049477141</i>	5	U1 spliceosomal RNA	219928081	219928241
<i>ENSRNA049477136</i>	5	U1 spliceosomal RNA	213693607	213693767
<i>ENSRNA049477133</i>	5	Antisense RNA which regulates isiA expression	215846479	215846663
<i>ENSRNA049997389</i>	5		223360741	223360825
<i>ENSRNA049997384</i>	5		221721349	221721474
<i>ENSRNA049997380</i>	5		220222148	220222261
<i>ENSRNA049997376</i>	5		220211653	220211769
<i>ENSRNA049997372</i>	5		216484037	216484192
<i>ENSRNA049997368</i>	5		216483766	216483933
<i>Zm00001d049762</i>	4		43591067	43596377
<i>Zm00001d002005</i>	2	Protein LIGULELESS 1	4230854	4234535
<i>Zm00001d034724</i>	1	50S ribosomal protein L18 chloroplastic Haloacid dehalogenase-like hydrolase (HAD) superfamily protein	300787677	300789731
<i>Zm00001d034725</i>	1		300790094	300803516
<i>Zm00001d034723</i>	1	Mannan endo-14-beta-mannosidase 7	300779318	300781313
<i>Zm00001d028769</i>	1	tetratricopeptide repeat (TPR)-containing protein	46006891	46011253
<i>Zm00001d028770</i>	1	Protein kinase superfamily protein	46011526	46014654
<i>Zm00001d028771</i>	1	Ubiquitin-activating enzyme E1 2	46017582	46024037
<i>Zm00001d028772</i>	1		46032247	46035061

**Table 5.3** Unique genes that are located in the SW resistance QTLs

<i>Gene stable ID</i>	Chr	Gene description	Gene start (bp)	Gene end (bp)
<i>ENSRNA049474818</i>	10	U1 spliceosomal RNA	140991968	140992128
<i>Zm00001d008609</i>	8		14444770	14445708
<i>Zm00001d008610</i>	8	Mitochondrial glycoprotein family protein	14450353	14453064
<i>Zm00001d008611</i>	8		14453705	14457982
<i>Zm00001d008612</i>	8	Putative homeobox DNA-binding domain superfamily protein CONTAINS InterPro DOMAIN/s: Vacuolar import/degradation protein Vid24 (InterPro:IPR018618); Has 318 Blast hits to 317 proteins in 131 species: Archae - 0; Bacteria - 0; Metazoa - 80; Fungi - 184; Plants - 51; Viruses - 0; Other Eukaryotes - 3 (sourc /.../I BLink).	14469570	14471588
<i>Zm00001d008613</i>	8	Actin-related protein 5	14476356	14480932
<i>Zm00001d008614</i>	8		14481831	14491138
<i>Zm00001d008615</i>	8	LL-diaminopimelate aminotransferase chloroplastic	14493509	14500854
<i>Zm00001d008617</i>	8	Transcription elongation factor (TFIIS) family protein	14683998	14689728
<i>Zm00001d020803</i>	7	Dicarboxylate transporter 2.1 chloroplastic	133370055	133376861
<i>Zm00001d021936</i>	7	Putative polyol transporter 1	166383108	166385301
<i>Zm00001d014140</i>	5	Trm112p-like protein	34019458	34021439
<i>Zm00001d014141</i>	5	F-box protein	34046773	34051266
<i>Zm00001d014142</i>	5		34051965	34052565
<i>Zm00001d014143</i>	5	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6GQ94]	34052263	34060949
<i>Zm00001d014145</i>	5		34115758	34118808
<i>Zm00001d014146</i>	5	Hsp20/alpha crystallin family protein	34118096	34118983
<i>Zm00001d014147</i>	5		34122240	34123847
<i>Zm00001d014148</i>	5	Vacuolar protein sorting-associated protein 41 homolog	34128161	34130618
<i>Zm00001d048944</i>	4	GTP-binding protein hflX	10376067	10385318
<i>Zm00001d048945</i>	4	Protein WVD2-like 3	10445794	10449110
<i>Zm00001d048946</i>	4		10450259	10451953
<i>Zm00001d044159</i>	3	cytochrome P450 11 S-adenosyl-L-methionine-dependent methyltransferases	220748190	220754600
<i>Zm00001d005499</i>	2	superfamily protein	176226966	176231995
<i>Zm00001d005500</i>	2	B12D protein	176232722	176233656
<i>Zm00001d002005</i>	2	Protein LIGULELESS 1	4230854	4234535
<i>Zm00001d027680</i>	1	HR-like lesion-inducing protein-related	11011198	11015865
<i>Zm00001d027681</i>	1		11065460	11065705
<i>Zm00001d027682</i>	1	WAT1-related protein	11066056	11069126
<i>Zm00001d022672</i>	1		11071717	11073237
<i>Zm00001d027683</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	11126731	11130713
<i>Zm00001d027684</i>	1	RING-H2 finger protein ATL16	11137397	11138338

<i>Zm00001d027685</i>	1	RING-H2 finger protein ATL16	11144189	11145097
<i>Zm00001d027686</i>	1	Ethylene-responsive transcription factor ERF098	11155767	11156159
<i>Zm00001d027687</i>	1		11155935	11156159
<i>Zm00001d027688</i>	1	Proteasome subunit alpha type 9-cis-epoxycarotenoid dioxygenase NCED3	11158115	11165247
<i>Zm00001d027690</i>	1	chloroplastic	11168984	11169217
<i>Zm00001d027691</i>	1		11207688	11225217
<i>Zm00001d027694</i>	1	Solanesyl diphosphate synthase 2 chloroplastic	11299491	11303586
<i>Zm00001d027695</i>	1	Glutaredoxin-C13 ATP-dependent DNA helicase	11304567	11304881
<i>Zm00001d027696</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6JNU7]	11305953	11309729
<i>Zm00001d027697</i>	1		11314620	11318076
<i>Zm00001d027698</i>	1	Putative methyltransferase family protein	11321124	11322611
<i>Zm00001d027699</i>	1	Protein translocase/ protein transporter	11358826	11365515
<i>Zm00001d022673</i>	1		11366598	11367300
<i>Zm00001d027700</i>	1	phosphate transporter protein9	11409287	11410861
<i>Zm00001d027701</i>	1	Appr-1-p processing enzyme family protein	11432184	11438681
<i>Zm00001d027702</i>	1	Zinc finger C2H2 type family protein expressed	11490592	11492813
<i>Zm00001d027703</i>	1	L-ornithine N5-acetyltransferase NATA1	11493216	11495046
<i>Zm00001d027705</i>	1		11553987	11554837
<i>Zm00001d027706</i>	1	transducin family protein / WD-40 repeat family protein	11584062	11590167
<i>Zm00001d027707</i>	1	Cell division control protein 48 homolog D	11591119	11595660
<i>Zm00001d027708</i>	1	Metal ion binding protein	11664783	11666908
<i>Zm00001d027709</i>	1	Transcription factor Dp-1	11671171	11678446
<i>Zm00001d027710</i>	1	Peroxidase 60	11715889	11717774
<i>Zm00001d027711</i>	1	4-coumarate--CoA ligase-like 7	11719840	11725110
<i>Zm00001d027713</i>	1	Leucine-rich repeat protein kinase family protein	11783331	11784682
<i>Zm00001d027714</i>	1	ribosomal large subunit pseudouridine synthase B Armadillo/beta-catenin repeat family protein / kinesin	11881252	11887552
<i>Zm00001d027715</i>	1	motor family protein	11952380	11984542
<i>Zm00001d027717</i>	1	Expansin-A11	12042589	12043629
<i>Zm00001d027718</i>	1	Expansin-A11	12073317	12074572
<i>Zm00001d027719</i>	1	La-related protein 1C	12103775	12105421
<i>Zm00001d027720</i>	1	Heavy metal-associated isoprenylated plant protein 27	12139063	12139619
<i>Zm00001d027721</i>	1	high-affinity nickel-transport family protein	12140948	12146615
<i>Zm00001d027722</i>	1	Cell number regulator 13	12170863	12175121
<i>Zm00001d027723</i>	1	ABC-2 type transporter family protein	12176198	12182441
<i>Zm00001d027725</i>	1		12285452	12287041
<i>Zm00001d027726</i>	1	Protein RRP6-like 2	12288610	12296582
<i>Zm00001d027727</i>	1	Phosphoserine aminotransferase 1 chloroplastic	12330534	12331811
<i>Zm00001d027728</i>	1	DEAD-box ATP-dependent RNA helicase 38	12335763	12340666

<i>Zm00001d027729</i>	1	Photosynthetic NDH subunit of subcomplex B 2 chloroplastic	12340668	12342288
<i>Zm00001d027730</i>	1		12353064	12353147
<i>ENSRNA049440072</i>	1	tRNA-Leu for anticodon CAA	12353064	12353147
<i>Zm00001d027731</i>	1	evolutionarily conserved C-terminal region 2	12354762	12359640
<i>Zm00001d027732</i>	1	Subtilisin-like serine endopeptidase family protein	12364471	12371991
<i>Zm00001d027733</i>	1		12365001	12366093
<i>Zm00001d027734</i>	1	Probable receptor-like protein kinase	12374888	12378539
<i>Zm00001d027735</i>	1	Serine-threonine protein kinase plant-type	12386436	12387395
<i>Zm00001d027736</i>	1	Alpha-L-arabinofuranosidase 1	12390472	12390800
<i>Zm00001d027737</i>	1	Alpha-L-arabinofuranosidase 1	12390828	12392044
<i>Zm00001d027738</i>	1	XS domain containing protein expressed	12393671	12398258
<i>Zm00001d027739</i>	1	Transcription repressor OFP12	12400468	12401019
<i>Zm00001d027740</i>	1	Rab28 protein	12442621	12443983
<i>Zm00001d027741</i>	1	Pentatricopeptide repeat-containing protein	12444329	12446126
<i>Zm00001d027742</i>	1		12448970	12449458
<i>Zm00001d027743</i>	1	Serine/threonine-protein kinase EDR1	12502776	12510591
<i>Zm00001d027744</i>	1		12510999	12511508
<i>Zm00001d027745</i>	1		12528993	12531966
<i>Zm00001d027746</i>	1	Expressed protein; protein	12532781	12533074
<i>Zm00001d027747</i>	1		12535191	12535893
<i>Zm00001d027748</i>	1	Probable RNA helicase SDE3	12538562	12543035
<i>Zm00001d027749</i>	1	Sulfate transporter 3.1	12546659	12552109
<i>Zm00001d027751</i>	1	Intron maturase type II family protein	12621185	12624879
<i>Zm00001d027752</i>	1	SH2 domain protein B	12628889	12640144
<i>Zm00001d027753</i>	1	SAUR-like auxin-responsive protein family	12658925	12661298
<i>Zm00001d027754</i>	1	Nucleolar complex protein 2 homolog	12672174	12674629
<i>Zm00001d027755</i>	1		12675736	12681850
<i>Zm00001d027756</i>	1	12-dihydroxy-3-keto-5-methylthiopentene dioxygenase 3	12708983	12713231
<i>Zm00001d027757</i>	1	Heat stress transcription factor A-6b	12714065	12716389
<i>Zm00001d022674</i>	1		12762437	12762637
<i>Zm00001d027758</i>	1		12768360	12771997
<i>ENSRNA049471974</i>	1	Small nucleolar RNA Z112	12769158	12769338
<i>ENSRNA049471983</i>	1	Small nucleolar RNA SNORD14	12769430	12769548
<i>zma-MIR167j</i>	1		12791799	12791907
<i>ENSRNA049996738</i>	1		12791799	12791907
<i>Zm00001d027759</i>	1	Probable indole-3-pyruvate monooxygenase YUCCA4	12848106	12850651
<i>Zm00001d027760</i>	1	Histone H2A	13023613	13024482
<i>Zm00001d027761</i>	1		13027209	13027778
<i>Zm00001d027762</i>	1	Threonine--tRNA ligase mitochondrial 1	13028955	13030569

<i>Zm00001d027763</i>	1	Plant-specific domain TIGR01615 family protein	13052386	13053952
<i>Zm00001d027764</i>	1	Magnesium transporter MRS2-2	13059219	13060512
<i>Zm00001d027766</i>	1	3-ketoacyl-CoA synthase 2	13137072	13140293
<i>Zm00001d027767</i>	1	Pentatricopeptide repeat-containing protein	13143086	13145452
<i>Zm00001d027768</i>	1	Putative ion channel POLLUX-like 2	13166917	13176199
<i>Zm00001d027769</i>	1	Glutathione reductase chloroplastic	13177255	13183634
<i>Zm00001d027771</i>	1		13240016	13243454
<i>Zm00001d027772</i>	1		13250766	13250972
<i>Zm00001d027773</i>	1	Alpha-galactosidase 1	13253409	13258417
<i>Zm00001d027775</i>	1	Histone H2A variant 1	13337249	13337599
<i>Zm00001d027784</i>	1		13438799	13439726
<i>Zm00001d027787</i>	1		13461684	13461890
<i>Zm00001d027788</i>	1		13475153	13483253
<i>Zm00001d027789</i>	1		13528222	13533144
<i>Zm00001d027790</i>	1	Cyclin-T1-5	13576388	13580832
<i>Zm00001d027791</i>	1		13592625	13600205
<i>Zm00001d027792</i>	1		13619804	13620061
<i>Zm00001d027794</i>	1		13666924	13673869
<i>Zm00001d027795</i>	1		13675280	13675507
<i>Zm00001d027797</i>	1		13692457	13692684
<i>Zm00001d027798</i>	1		13728096	13728326
<i>Zm00001d027799</i>	1	pfkB-like carbohydrate kinase family protein	13758931	13762071
<i>ENSRNA049996745</i>	1		13782628	13782753
<i>Zm00001d027800</i>	1	Pentatricopeptide repeat-containing protein	13809656	13811605
<i>Zm00001d027801</i>	1	DNA topoisomerase 3-alpha	13815367	13827552
<i>Zm00001d027802</i>	1	BEL1-like homeodomain protein 3	13863300	13867102
<i>Zm00001d027803</i>	1	Beta-galactosidase	13905218	13911405
<i>Zm00001d027804</i>	1		13914007	13915958
<i>Zm00001d027805</i>	1	Probable phosphopantothenoylcysteine decarboxylase	13965284	13968673
<i>Zm00001d027807</i>	1	Ubiquitin carboxyl-terminal hydrolase-related protein	14012690	14030730
<i>Zm00001d027808</i>	1	vesicle-associated membrane protein 728	14081196	14083562
<i>Zm00001d027809</i>	1	Pollenless3	14207663	14212490
<i>ENSRNA049472005</i>	1	U2 spliceosomal RNA	14212726	14212920
<i>Zm00001d027810</i>	1	Glycerol-3-phosphate acyltransferase 5	14247874	14250263
<i>Zm00001d027811</i>	1	CCR4-NOT transcription complex subunit 6	14311486	14318456
<i>Zm00001d027812</i>	1	Protein YLS3	14319418	14320918
<i>Zm00001d027813</i>	1	40S ribosomal protein S28	14321650	14323311
<i>Zm00001d027815</i>	1	IQ domain-containing protein IQM2	14329827	14333803
<i>Zm00001d022675</i>	1		14360126	14360607
<i>Zm00001d027816</i>	1		14361469	14365136

<i>Zm00001d027819</i>	1	embryo surrounding region2	14448014	14448412
<i>Zm00001d027820</i>	1	embryo surrounding region1	14479050	14479445
<i>Zm00001d027821</i>	1	embryo surrounding region3	14492187	14492564
<i>Zm00001d022676</i>	1		14576762	14576981
<i>Zm00001d027823</i>	1		14576869	14577916
<i>Zm00001d027824</i>	1		14585540	14587374
<i>Zm00001d027826</i>	1	Serine/threonine-protein phosphatase PP2A-4 catalytic subunit	14606179	14611811
<i>Zm00001d022677</i>	1		14608301	14608531
<i>Zm00001d027827</i>	1	Kelch motif family protein	14612107	14616020
<i>Zm00001d027829</i>	1		14647301	14647373
<i>Zm00001d027830</i>	1		14648342	14648414
<i>Zm00001d027831</i>	1	Major facilitator superfamily protein	14651572	14651835
<i>Zm00001d027832</i>	1	Embryonic protein DC-8	14652540	14653598
<i>Zm00001d027833</i>	1	DUF1997 family protein	14655397	14656475
<i>Zm00001d027834</i>	1		14665693	14671725
<i>Zm00001d027835</i>	1	Pentatricopeptide repeat-containing protein	14689445	14692321
<i>Zm00001d027837</i>	1	Cytochrome P450 704B1	14702216	14704540
<i>Zm00001d027838</i>	1	SET domain protein 35	14705335	14706969
<i>Zm00001d027839</i>	1	Ribosomal L32p protein family	14754184	14757028
<i>Zm00001d027840</i>	1	Retrovirus-related Pol polyprotein LINE-1	14759168	14762218
<i>Zm00001d027841</i>	1	Ribulose-phosphate 3-epimerase	14831571	14846630
<i>Zm00001d027842</i>	1	O-fucosyltransferase family protein	14882458	14891319
<i>Zm00001d027843</i>	1	Pentatricopeptide repeat-containing protein chloroplastic	14989245	14990987
<i>Zm00001d027844</i>	1	Ribosomal L18p/L5e family protein	15012548	15013896
<i>Zm00001d027845</i>	1	Pentatricopeptide repeat-containing protein mitochondrial	15013950	15018699
<i>Zm00001d027846</i>	1	Dof-type zinc finger DNA-binding family protein	15060190	15063033
<i>Zm00001d027847</i>	1	HNH endonuclease	15065545	15072521
<i>Zm00001d027848</i>	1	Protoheme IX farnesyltransferase mitochondrial	15120744	15125845
<i>Zm00001d027849</i>	1	Probable LRR receptor-like serine/threonine-protein kinase	15126907	15130433
<i>Zm00001d027850</i>	1	P-loop containing nucleoside triphosphate hydrolases superfamily protein	15156918	15162289
<i>Zm00001d027851</i>	1		15175214	15177892
<i>Zm00001d022678</i>	1		15175311	15176314
<i>Zm00001d022679</i>	1		15191320	15191875
<i>Zm00001d027852</i>	1	Homeobox-transcription factor 102	15193281	15196077
<i>Zm00001d027853</i>	1	Glutaredoxin family protein	15300088	15301068
<i>Zm00001d027854</i>	1	sucrose transporter1	15301583	15306925
<i>Zm00001d027855</i>	1	Transcription factor PRE3	15365601	15366843
<i>Zm00001d027856</i>	1	Kelch motif family protein	15401478	15402767

<i>Zm00001d027857</i>	1		15414573	15414644
<i>ENSRNA049471872</i>	1	Group II catalytic intron	15416326	15416402
<i>Zm00001d027858</i>	1		15440041	15440280
<i>Zm00001d027859</i>	1	DNA binding protein	15500226	15501662
<i>Zm00001d027860</i>	1	Copper-transporting ATPase RAN1 Alanine--glyoxylate aminotransferase 2 homolog 1 mitochondrial	15530277	15532211
<i>Zm00001d027861</i>	1		15582763	15585986
<i>Zm00001d027862</i>	1	Calcium-binding protein 39	15669005	15673015
<i>Zm00001d027863</i>	1	Expressed protein; protein Cysteine proteinase inhibitor	15685019	15686716
<i>Zm00001d027864</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6JQ67] Cysteine proteinase inhibitor	15692720	15693088
<i>Zm00001d027866</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6JQ68]	15753640	15753987
<i>Zm00001d027867</i>	1		15757782	15758255
<i>Zm00001d027868</i>	1	E3 ubiquitin ligase BIG BROTHER	15763100	15768449
<i>Zm00001d027869</i>	1	Polyadenylate-binding protein RBP47B'	15961983	15975352
<i>Zm00001d027870</i>	1	Dehydration-responsive element-binding protein 2F	16005938	16006903
<i>Zm00001d027871</i>	1	adenylosuccinate synthetase transferases;tRNA (5-methylaminomethyl-2- thiouridylate)-methyltransferases	16007197	16010258
<i>Zm00001d027872</i>	1		16011197	16017413
<i>Zm00001d027873</i>	1		16018915	16019115
<i>Zm00001d027874</i>	1	nuclear transcription factor y subunit a1	16038734	16042002
<i>Zm00001d027875</i>	1	Mitochondrial substrate carrier family protein	16140364	16141359
<i>Zm00001d027876</i>	1	Omega-amidase chloroplastic	16227533	16235054
<i>Zm00001d027877</i>	1		16284218	16285168
<i>Zm00001d022680</i>	1		16299965	16301025
<i>Zm00001d027878</i>	1	AP2-EREBP-type transcription factor	16356238	16360518
<i>Zm00001d027879</i>	1	Os03g0176600 protein Acyl-CoA N-acyltransferase with RING/FYVE/PHD- type zinc finger domain	16414023	16415818
<i>Zm00001d027880</i>	1		16436908	16447108
<i>Zm00001d027881</i>	1		16562282	16562617
<i>Zm00001d027882</i>	1		16629251	16630156
<i>Zm00001d027883</i>	1	Putative membrane lipoprotein	16706388	16707032
<i>Zm00001d027884</i>	1	Copper-transporting ATPase PAA2 chloroplastic	16707201	16714717
<i>Zm00001d027885</i>	1	YGGT family protein	16721226	16722692
<i>Zm00001d027886</i>	1	compact plant2	16722714	16730676
<i>Zm00001d027887</i>	1	Catalytic/ hydrolase	16744340	16746866
<i>Zm00001d027888</i>	1	alpha/beta-Hydrolases superfamily protein	16748760	16752406
<i>Zm00001d027889</i>	1	ATP10 protein expressed	16776323	16777136
<i>Zm00001d027890</i>	1	Germin-like protein subfamily 1 member 1	16810190	16810882
<i>Zm00001d022681</i>	1		16839427	16839635
<i>Zm00001d027892</i>	1	root-specific kinase 1	16843024	16848595
<i>Zm00001d022682</i>	1		16860663	16861057

<i>Zm00001d027893</i>	1	lipoxygenase9	16948608	16955122
<i>Zm00001d027894</i>	1	DUF1677 family protein	16961016	16961405
<i>Zm00001d027895</i>	1	CTC-interacting domain 7	16968886	16977186
<i>Zm00001d027896</i>	1	Proteasome subunit alpha type	16977162	16980228
<i>Zm00001d027897</i>	1		16999913	17001529
<i>Zm00001d027898</i>	1	UDP-glycosyltransferase TURAN	17059579	17063351
<i>Zm00001d027899</i>	1	ZIM motif family protein	17141137	17141631
<i>Zm00001d027900</i>	1	Protein TIFY 10B	17147073	17148511
<i>Zm00001d027901</i>	1	ZIM motif family protein	17156322	17156867
<i>Zm00001d027902</i>	1		17160524	17161113
<i>Zm00001d027903</i>	1	Ubiquitin carboxyl-terminal hydrolase family protein	17163385	17164632
<i>Zm00001d027904</i>	1	3-ketoacyl-CoA synthase	17186476	17190166
<i>Zm00001d027907</i>	1	DUF936 family protein	17314485	17317861
<i>Zm00001d027908</i>	1	Probable flavin-containing monooxygenase 1	17362175	17365193
<i>Zm00001d027909</i>	1		17367199	17367271
<i>Zm00001d027910</i>	1		17367871	17367942
<i>Zm00001d027911</i>	1	Transcription factor ILR3 RNA-metabolising metallo-beta-lactamase family protein	17368177	17370245
<i>Zm00001d027912</i>	1		17372490	17374402
<i>Zm00001d027914</i>	1	Proton pump-interactor 1	17378164	17381754
<i>Zm00001d027915</i>	1	Topless-related protein 2	17406705	17409156
<i>Zm00001d022683</i>	1		17471164	17471966
<i>Zm00001d027916</i>	1	Phosphoinositide phosphatase SAC2	17533781	17553169
<i>Zm00001d027918</i>	1		17609594	17615130
<i>Zm00001d027919</i>	1	40S ribosomal protein Sa-1	17615562	17626036
<i>Zm00001d027920</i>	1		17617359	17621852
<i>Zm00001d027921</i>	1	Protein DETOXIFICATION 12	17697601	17709046
<i>Zm00001d027922</i>	1	Eukaryotic translation initiation factor 3 subunit K AP2-EREBP transcription factor	17722776	17726155
<i>Zm00001d027924</i>	1	[Source:UniProtKB/TrEMBL;Acc:B4FIY3]	17775779	17777344
<i>Zm00001d027925</i>	1	Ethylene-responsive transcription factor RAP2-3	17807124	17808643
<i>Zm00001d022685</i>	1		17814927	17815225
<i>Zm00001d027927</i>	1	WAPL (Wings apart-like protein regulation of heterochromatin) protein	17827591	17829479
<i>Zm00001d027928</i>	1		17833120	17833935
<i>Zm00001d027929</i>	1	AP2-EREBP transcription factor [Source:UniProtKB/TrEMBL;Acc:C0PJT2]	17839868	17840788
<i>Zm00001d027930</i>	1		17918578	17921737
<i>Zm00001d027931</i>	1		17923770	17926853
<i>Zm00001d027932</i>	1		17929504	17930569
<i>Zm00001d027933</i>	1		17943763	17944164
<i>Zm00001d027934</i>	1	leucine-rich transmembrane protein kinase1	17945836	17961550



<i>Zm00001d027935</i>	1		17954328	17956187
<i>Zm00001d027936</i>	1	15-cis-phytoene desaturase chloroplastic/chromoplastic	17962828	17975699
<i>Zm00001d027937</i>	1	Pentatricopeptide repeat-containing protein	17977813	17985594
<i>Zm00001d027938</i>	1	UDP-glucuronate:xylan alpha-glucuronosyltransferase 2	17999743	18003647
<i>Zm00001d027939</i>	1	B3 domain-containing protein	18004874	18006730
<i>Zm00001d027940</i>	1		18010015	18013425
<i>Zm00001d027941</i>	1	NAD(P)-binding Rossmann-fold superfamily protein	18019104	18021737
<i>ENSRNA049471996</i>	1	U2 spliceosomal RNA	18030164	18030363
<i>Zm00001d027943</i>	1	alpha/beta-Hydrolases superfamily protein	18039259	18047225
<i>Zm00001d027944</i>	1	Expressed protein; protein	18050316	18050693
<i>Zm00001d027945</i>	1		18054769	18057866
<i>Zm00001d027946</i>	1	hydroxycinnamoyltransferase1	18086164	18087981
<i>Zm00001d027947</i>	1	Tyrosine decarboxylase 1	18132684	18134270
<i>Zm00001d027948</i>	1	hydroxycinnamoyltransferase2	18147157	18148937
<i>Zm00001d027949</i>	1	Tyrosine/DOPA decarboxylase 2	18159860	18161446
<i>Zm00001d027950</i>	1	Uroporphyrinogen-III synthase chloroplastic	18185512	18190288
<i>Zm00001d027951</i>	1		18249160	18254729
<i>Zm00001d027954</i>	1	Expressed protein; protein	18274522	18280277
<i>Zm00001d027955</i>	1	MADS-box transcription factor 47	18280824	18282397
<i>Zm00001d027956</i>	1	Expressed protein; protein	18293635	18299385
<i>Zm00001d027957</i>	1	MADS-transcription factor 68	18299864	18321135
<i>Zm00001d027958</i>	1		18324501	18326246
<i>Zm00001d027960</i>	1		18379795	18379867
<i>ENSRNA049437658</i>	1	tRNA-Ala for anticodon AGC	18379795	18379867
<i>Zm00001d027962</i>	1	Vacuolar protein-sorting-associated protein 37 homolog		
<i>Zm00001d027963</i>	1	1	18451773	18457720
<i>Zm00001d027965</i>	1	Intron maturase type II family protein	18460171	18462291
<i>Zm00001d027965</i>	1	Aspartyl protease AED3	18511901	18513196
<i>Zm00001d027966</i>	1	Protein CutA chloroplastic	18514177	18522465
<i>Zm00001d027967</i>	1	EMB514	18522679	18525819
<i>Zm00001d027968</i>	1	Glucuronoxylan 4-O-methyltransferase 2	18526350	18531383
<i>Zm00001d027969</i>	1	dentin sialophosphoprotein-related	18597035	18617718
<i>Zm00001d027971</i>	1	transducin family protein / WD-40 repeat family protein	18761417	18771095
<i>Zm00001d027973</i>	1		18907931	18909955
<i>Zm00001d027974</i>	1	Cullin-associated NEDD8-dissociated protein 1	18914972	18919323
<i>Zm00001d027975</i>	1	F-box protein FBX14	18954240	18956944
<i>Zm00001d027976</i>	1	GLABRA2 expression modulator	19023016	19025659
<i>Zm00001d027977</i>	1		19142014	19142100
<i>Zm00001d027978</i>	1	Purine permease 3	19169552	19170715
<i>Zm00001d027979</i>	1	Purine permease 3	19228972	19229910
<i>Zm00001d027980</i>	1		19271131	19289779

<i>Zm00001d027981</i>	1		19293383	19293901
<i>Zm00001d022686</i>	1		19311897	19312622
<i>Zm00001d027982</i>	1	Protein DETOXIFICATION 27	19312947	19319926
<i>Zm00001d027983</i>	1	E3 ubiquitin-protein ligase ATL6	19323604	19324692
<i>Zm00001d027984</i>	1		19388720	19389120
<i>Zm00001d027986</i>	1		19430900	19431831
<i>Zm00001d027987</i>	1	Transcription factor bHLH99	19433159	19435672
<i>Zm00001d027988</i>	1		19437480	19437875
<i>Zm00001d027989</i>	1	zinc finger (C3HC4-type RING finger) family protein	19497633	19498330
<i>Zm00001d027990</i>	1		19499828	19500135
<i>Zm00001d027991</i>	1	HB-type transcription factor	19584556	19586616
<i>Zm00001d027992</i>	1		19594960	19595493
<i>Zm00001d027993</i>	1	Zinc finger CCCH domain-containing protein 46	19603547	19621192
<i>Zm00001d027994</i>	1	Myosin heavy chain-related protein	19638269	19639549
<i>Zm00001d027995</i>	1	Alcohol dehydrogenase-like 2	19655485	19665448
<i>Zm00001d027996</i>	1	Alcohol dehydrogenase-like 2	19699532	19702323
<i>Zm00001d027997</i>	1	UDP-glycosyltransferase 71B1	19761914	19767203
<i>Zm00001d027998</i>	1	VQ motif-containing protein 9	19887017	19887754
<i>Zm00001d027999</i>	1	2-carboxy-14-naphthoquinone phytyltransferase chloroplastic	19906136	19909038
<i>Zm00001d028000</i>	1		19919247	19942038
<i>Zm00001d028001</i>	1		19943200	19946803
<i>ENSRNA049472011</i>	1	Plant signal recognition particle RNA	19960622	19960931
<i>Zm00001d028002</i>	1	Ras-related protein RABA4a	19961083	19963559
<i>Zm00001d028003</i>	1	Ras-related protein RABA6a	19962836	19963318
<i>Zm00001d028004</i>	1	Outer arm dynein light chain 1 protein	19965956	19969415
<i>Zm00001d028005</i>	1	Ubiquitin carboxyl-terminal hydrolase	20022494	20026685
<i>Zm00001d028006</i>	1		20028789	20032918
<i>Zm00001d028007</i>	1	Calmodulin-binding transcription activator 2	20105976	20131237
<i>Zm00001d028008</i>	1	Probable mitochondrial adenine nucleotide transporter		
		BTL2	20133912	20136948
<i>Zm00001d028009</i>	1	Probable mitochondrial adenine nucleotide transporter		
		BTL2	20219977	20230817
<i>Zm00001d028010</i>	1	conserved oligomeric Golgi complex component-related / COG complex component-related	20263677	20268913
<i>Zm00001d028011</i>	1	WW domain containing protein expressed	20291775	20293058
<i>Zm00001d022687</i>	1		20294395	20295065
<i>Zm00001d028012</i>	1	Ras-related protein Rab-6A	20300349	20303168
<i>Zm00001d028013</i>	1	Putative pumilio homolog 7 chloroplastic	20304479	20310840
<i>Zm00001d028014</i>	1		20320621	20320902
<i>Zm00001d028015</i>	1	hydroxyproline-rich glycoprotein family protein	20351878	20352705
<i>Zm00001d028016</i>	1	Calcium-dependent protein kinase 7	20354036	20360460

<i>Zm00001d028017</i>	1	Ethylene-responsive transcription factor ERF055	20410911	20411813
<i>Zm00001d028018</i>	1	Polymerase/histidinol phosphatase-like	20422195	20426539
<i>Zm00001d028019</i>	1	Serine carboxypeptidase-like 40	20429324	20431994
<i>Zm00001d028020</i>	1	RING/U-box superfamily protein	20533271	20539413
<i>Zm00001d028021</i>	1		20540461	20546803
<i>Zm00001d028022</i>	1	nucleotidyltransferases	20604487	20614451
<i>Zm00001d028024</i>	1	Nodulin-related protein 1	20740613	20741926
<i>Zm00001d028025</i>	1	Cp protein [Source:UniProtKB/TrEMBL;Acc:B6T306]	20833688	20836416
<i>Zm00001d028026</i>	1	Ethylene response sensor 1	20836619	20851026
<i>Zm00001d028028</i>	1		20906621	20907336
<i>Zm00001d028030</i>	1		20910150	20910587
<i>Zm00001d028031</i>	1		20917623	20919923
<i>Zm00001d028032</i>	1		20926194	20930043
<i>Zm00001d028033</i>	1		20928770	20930641
<i>Zm00001d028034</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	20930892	20939295
<i>Zm00001d022688</i>	1		20987438	20988070
<i>Zm00001d028035</i>	1		21006759	21008785
<i>Zm00001d022689</i>	1		21009495	21009768
<i>Zm00001d028036</i>	1	Myosin heavy chain	21009580	21010372
<i>Zm00001d028038</i>	1	Methionine--tRNA ligase chloroplastic/mitochondrial	21187278	21200544
<i>Zm00001d028039</i>	1	Probable protein S-acyltransferase 22	21287190	21292030
<i>Zm00001d028040</i>	1	Got1/Sft2-like vesicle transport protein family	21293997	21296983
<i>Zm00001d028041</i>	1		21373352	21373999
<i>Zm00001d028042</i>	1		21373352	21379087
<i>Zm00001d028043</i>	1	MFP1 attachment factor 1	21388224	21388658
<i>Zm00001d028045</i>	1	Mannose-1-phosphate guanylyltransferase 1	21501810	21527021
<i>Zm00001d028046</i>	1	Putative pentatricopeptide repeat-containing protein	21513845	21553331
<i>Zm00001d028047</i>	1		21551923	21555136
<i>ENSRNA049473738</i>	1	Small nucleolar RNA snoR103	21556055	21556161
<i>Zm00001d028050</i>	1	Retinoblastoma-binding protein-like	21680697	21686575
<i>Zm00001d028051</i>	1	ARM-repeat/Tetratricopeptide repeat (TPR)-like protein	21690752	21692638
<i>Zm00001d028053</i>	1	Mitochondrial ribosomal protein L43	21761959	21767021
<i>Zm00001d028054</i>	1	Syntaxin/t-SNARE family protein	21770615	21773945
<i>Zm00001d028055</i>	1	Probable E3 ubiquitin-protein ligase RHY1A	21774547	21776554
<i>Zm00001d028056</i>	1	BTB/POZ domain-containing protein	21777050	21779928
<i>Zm00001d028057</i>	1		21780142	21783466
<i>Zm00001d028059</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JRM2]	21789225	21794521
<i>Zm00001d028060</i>	1		21796091	21796914
<i>Zm00001d028061</i>	1	Replication protein A 14 kDa subunit B	21798184	21802261
<i>Zm00001d028062</i>	1	CASP-like protein 5A2	21842237	21860574

<i>Zm00001d028063</i>	1		21859906	21860232
<i>Zm00001d028064</i>	1		21883821	21884689
<i>Zm00001d028066</i>	1		21903337	21911942
<i>Zm00001d028068</i>	1		21936312	21937568
<i>Zm00001d028069</i>	1		21938116	21942087
<i>Zm00001d028070</i>	1		21975168	21977063
<i>Zm00001d028071</i>	1	Augmenter of liver regeneration	21979236	21982123
<i>Zm00001d028072</i>	1		21983106	21985275
<i>Zm00001d028073</i>	1	Protein SNOWY COTYLEDON 3	21990180	22006881
<i>Zm00001d022690</i>	1		21992568	21992809
<i>Zm00001d022691</i>	1		21993988	21994518
<i>Zm00001d028074</i>	1	HLS1	22016444	22018586
<i>Zm00001d028075</i>	1	BTB/POZ domain-containing protein NPY2	22053545	22070105
<i>Zm00001d028076</i>	1	hAT transposon superfamily protein	22092101	22095372
<i>Zm00001d028077</i>	1		22183541	22185661
<i>Zm00001d028079</i>	1		22190790	22194251
<i>Zm00001d028080</i>	1	Tetratricopeptide repeat-like superfamily protein ATP-dependent DNA helicase	22194567	22198060
<i>Zm00001d028081</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6JRU1]	22199826	22202673
<i>Zm00001d028082</i>	1		22210327	22211899
<i>Zm00001d028083</i>	1		22219133	22221566
<i>Zm00001d028084</i>	1	DNA repair protein UVH3	22263332	22274326
<i>Zm00001d022692</i>	1		22372188	22372909
<i>Zm00001d028085</i>	1	Transcription factor bHLH54	22422888	22424315
<i>Zm00001d028086</i>	1		22485343	22489595
<i>Zm00001d028088</i>	1	Ubiquitin system component Cue protein	22599568	22606524
<i>Zm00001d028089</i>	1	Formin-like protein 6	22608980	22613235
<i>Zm00001d028090</i>	1		22616306	22617063
<i>Zm00001d028091</i>	1	14-3-3-like protein GF14 omega	22636412	22638075
<i>Zm00001d028092</i>	1	Cyclin-D5-1	22729803	22732019
<i>Zm00001d028093</i>	1	Calcium-transporting ATPase 2 plasma membrane-type	22735266	22740921
<i>Zm00001d028094</i>	1	Sigma factor sigB regulation protein rsbQ	22841793	22844037
<i>Zm00001d022693</i>	1		22874239	22874751
<i>Zm00001d028096</i>	1		22880022	22891698
<i>Zm00001d028097</i>	1	cyclin-related	22891760	22894405
<i>Zm00001d028098</i>	1	Radical SAM superfamily protein	22960075	22971879
<i>Zm00001d028100</i>	1		22995810	23004923
<i>Zm00001d028102</i>	1	Outer mitochondrial membrane protein porin	23004511	23008536
<i>Zm00001d028103</i>	1	Glycosyl hydrolase family 10 protein	23014401	23018862
<i>Zm00001d028104</i>	1	Elongator complex protein 5	23019510	23022873
<i>Zm00001d028105</i>	1	DHBP synthase RibB-like alpha/beta domain	23022557	23026960

<i>Zm00001d028107</i>	1	Pentatricopeptide repeat-containing protein	23030904	23033285
<i>Zm00001d028108</i>	1	Protein disulfide isomerase-like 1-2	23090451	23091093
<i>Zm00001d028109</i>	1	Peptidyl-prolyl cis-trans isomerase CYP65	23110479	23114096
<i>Zm00001d028110</i>	1	Uncharacterised conserved protein (UCP012943)	23114397	23116894
<i>Zm00001d028111</i>	1	Arabinanase/levansucrase/invertase	23118720	23122921
<i>Zm00001d028112</i>	1	ADP-ribosylation factor-like protein 8B	23147728	23150781
<i>Zm00001d028113</i>	1	SURF1	23243301	23250772
<i>Zm00001d028114</i>	1	no pollen germination related 1	23265205	23270017
<i>Zm00001d028115</i>	1		23270111	23270785
<i>Zm00001d028116</i>	1		23270825	23271421
<i>Zm00001d028117</i>	1	40S ribosomal protein S3a-2	23321794	23325398
<i>Zm00001d028118</i>	1		23362248	23363688
<i>Zm00001d028119</i>	1		23365556	23371277
<i>Zm00001d028120</i>	1	Heptahelical transmembrane protein 5	23432928	23434498
<i>Zm00001d028122</i>	1		23497185	23499077
<i>Zm00001d028123</i>	1		23499211	23499283
<i>Zm00001d028124</i>	1		23500522	23500594
<i>Zm00001d028125</i>	1	UPF0496 protein At3g28300	23561220	23562368
<i>Zm00001d028126</i>	1		23570980	23571051
<i>Zm00001d028127</i>	1		23600440	23601039
<i>Zm00001d028128</i>	1	DNA glycosylase superfamily protein	23601341	23609376
<i>Zm00001d022694</i>	1		23612992	23615023
<i>Zm00001d028129</i>	1	grassy tillers1	23625801	23627370
<i>Zm00001d028130</i>	1	DeSI-like protein	23628624	23634749
<i>Zm00001d028135</i>	1		23884937	23885009
<i>Zm00001d022695</i>	1		23886427	23886739
<i>Zm00001d028136</i>	1		23886807	23886879
<i>Zm00001d028137</i>	1	40S ribosomal protein S23-2	23889397	23890397
<i>Zm00001d028138</i>	1	thiamine monophosphate synthase	23950399	23952029
<i>Zm00001d028139</i>	1	Protein indeterminate-domain 2	23959615	23962773
<i>Zm00001d022696</i>	1		23975045	23975255
<i>Zm00001d028140</i>	1	Noc2p family	23975834	23981932
<i>Zm00001d028141</i>	1	RNA binding (RRM/RBD/RNP motifs) family protein	23991806	23994379
<i>Zm00001d028142</i>	1	Regulator of Vps4 activity in the MVB pathway protein	23996320	23997820
<i>Zm00001d028143</i>	1	COP9 signalosome complex subunit 4	24000830	24011578
<i>Zm00001d028144</i>	1	Putative polyol transporter 1	24012254	24014074
<i>Zm00001d028150</i>	1		24163487	24166037
<i>Zm00001d028151</i>	1	Putative polyol transporter 1	24296413	24298623
<i>Zm00001d028152</i>	1	Undecaprenyl pyrophosphate synthetase family protein	24310500	24314120
<i>Zm00001d028153</i>	1	30S ribosomal protein S10 chloroplastic	24328898	24333096

<i>Zm00001d028154</i>	1	serine acetyltransferase2	24416953	24417897
<i>Zm00001d022697</i>	1		24419612	24420973
<i>Zm00001d028156</i>	1	hAT transposon superfamily protein	24496481	24497647
<i>Zm00001d022699</i>	1		24503489	24503853
<i>Zm00001d028157</i>	1		24556655	24556727
<i>Zm00001d028158</i>	1		24557427	24557499
<i>Zm00001d028159</i>	1	F-box protein GID2	24572142	24572678
<i>Zm00001d028160</i>	1	CASP-like protein 2B2	24589853	24593712
<i>Zm00001d028161</i>	1		24673011	24673466
<i>Zm00001d028162</i>	1	sulfate permease1	24771608	24778825
<i>Zm00001d028164</i>	1	Sulfate transporter 2.2	24946609	24951403
<i>Zm00001d028165</i>	1	Aminotransferase ALD1	24963473	24967985
<i>Zm00001d028167</i>	1	Cytochrome b561 and DOMON domain-containing protein	25047706	25050015
<i>Zm00001d028168</i>	1		25094816	25099163
<i>Zm00001d028169</i>	1	Plant mobile domain protein family	25107834	25110428
<i>Zm00001d028170</i>	1	Dopamine beta-monoxygenase	25116199	25117425
<i>Zm00001d028171</i>	1	Calcium-dependent lipid-binding (CaLB domain) family protein	25153513	25154838
<i>Zm00001d028172</i>	1		25155607	25160138
<i>Zm00001d028173</i>	1	FRIGIDA-like protein 1	25305829	25316655
<i>Zm00001d028174</i>	1		25495853	25498760
<i>Zm00001d028175</i>	1	Pumilio domain-containing protein	25500297	25502377
<i>Zm00001d028176</i>	1		25503296	25504002
<i>Zm00001d028177</i>	1	Ubiquitin carboxyl-terminal hydrolase 26	25545505	25566335
<i>Zm00001d028178</i>	1	NAC domain-containing protein 8	25566760	25575059
<i>Zm00001d028179</i>	1		25577402	25578107
<i>Zm00001d028180</i>	1	low phytic acid1	25632515	25636718
<i>Zm00001d028181</i>	1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13-A	25715085	25717227
<i>Zm00001d028182</i>	1	Protein UPSTREAM OF FLC	25720877	25723883
<i>Zm00001d028183</i>	1	T-complex protein 1 subunit gamma	25725534	25732327
<i>Zm00001d028184</i>	1		25734022	25737544
<i>Zm00001d028185</i>	1	remorin6.3	25738664	25741208
<i>Zm00001d028186</i>	1	Pentatricopeptide repeat-containing protein	25742203	25745382
<i>Zm00001d028187</i>	1	Heparanase-like protein 1	25755280	25759748
<i>Zm00001d028188</i>	1	Probable galacturonosyltransferase 13	25760320	25767012
<i>Zm00001d028189</i>	1	Leucine-rich repeat (LRR) family protein	25769858	25774094
<i>Zm00001d028191</i>	1	LAP4 protein	25791635	25805381
<i>Zm00001d028193</i>	1	AT-rich interactive domain-containing protein 2	25916570	25919479
<i>Zm00001d028194</i>	1	Probable mitochondrial-processing peptidase subunit beta mitochondrial	25921625	25926361

<i>Zm00001d028195</i>	1	TPX2 (targeting protein for Xklp2) protein family	25927770	25930520
<i>Zm00001d028196</i>	1		25931204	25931560
<i>Zm00001d028197</i>	1	SNAP25 homologous protein SNAP33	25933439	25936325
<i>Zm00001d028198</i>	1		25961222	25988127
<i>Zm00001d028199</i>	1	Beta-glucosidase 40	26001772	26009085
<i>Zm00001d028200</i>	1	Protein trichome birefringence-like 16	26010781	26012220
<i>Zm00001d028201</i>	1	SecY protein transport family protein	26041525	26045818
<i>Zm00001d028202</i>	1	60S ribosomal protein L36a	26122680	26123224
<i>Zm00001d028203</i>	1		26130882	26140505
<i>Zm00001d028204</i>	1	Expressed protein; protein	26173773	26181115
<i>Zm00001d028205</i>	1	Mitochondrial substrate carrier family protein	26182226	26187030
<i>Zm00001d028206</i>	1		26188806	26189613
<i>Zm00001d028207</i>	1	ATP synthase subunit gamma mitochondrial	26334264	26346936
<i>Zm00001d028208</i>	1	Protein RIK	26428405	26434744
<i>Zm00001d028209</i>	1		26517424	26517495
<i>Zm00001d028210</i>	1	Replication protein A 70 kDa DNA-binding subunit B	26517879	26521293
<i>Zm00001d028211</i>	1	Digalactosyldiacylglycerol synthase 2 chloroplastic	26525210	26529825
<i>Zm00001d028212</i>	1		26533012	26534408
<i>Zm00001d028213</i>	1	histone-lysine N-methyltransferases	26605799	26609755
<i>Zm00001d028214</i>	1	GDP-mannose transporter GONST3	26610563	26614024
<i>Zm00001d028215</i>	1		26619550	26619828
<i>Zm00001d028216</i>	1	drooping leaf ortholog1	26771165	26776231
<i>Zm00001d028217</i>	1	Developmental protein SEPALLATA 2	26873846	26883816
<i>Zm00001d028218</i>	1	Methionine--tRNA ligase cytoplasmic	26887363	26899704
<i>Zm00001d028219</i>	1	ATMAP70-2	26903676	26908356
<i>Zm00001d022700</i>	1		26980564	26981194
<i>Zm00001d028220</i>	1	Pyridoxal-5'-phosphate-dependent enzyme family protein	27042552	27048152
<i>Zm00001d028221</i>	1	ATP synthase4	27049419	27051494
<i>Zm00001d028222</i>	1	Zinc finger protein 8	27085759	27086718
<i>Zm00001d028223</i>	1		27137455	27137527
<i>Zm00001d028224</i>	1		27138134	27138206
<i>Zm00001d028225</i>	1		27256288	27266967
<i>Zm00001d028226</i>	1		27268250	27269466
<i>Zm00001d028227</i>	1	Probable glucan 13-alpha-glucosidase	27280055	27286285
<i>Zm00001d028228</i>	1	multidrug and toxic compound extrusion3	27284568	27293763
<i>Zm00001d028229</i>	1	myosin-related	27301799	27306634
<i>Zm00001d022701</i>	1		27303533	27304500
<i>Zm00001d028230</i>	1	Sugar transport protein 13	27307350	27313346
<i>Zm00001d028231</i>	1	Sec14p-like phosphatidylinositol transfer family protein	27407335	27410561
<i>Zm00001d028232</i>	1	Superoxide dismutase	27413617	27420137

<i>Zm00001d028233</i>	1		27420468	27422652
<i>Zm00001d028235</i>	1	Beta-hexosaminidase 2	27500580	27502910
<i>Zm00001d028237</i>	1		27571849	27577275
<i>Zm00001d028238</i>	1	CCAAT-binding factor	27581992	27600885
<i>Zm00001d028239</i>	1		27587168	27587239
<i>Zm00001d028240</i>	1	50S ribosomal protein L15 chloroplastic	27695825	27697683
<i>Zm00001d028241</i>	1	3-ketoacyl-CoA synthase	27700703	27702800
<i>Zm00001d028243</i>	1	Glucan endo-1,3-beta-glucosidase 3	27817413	27821834
<i>Zm00001d028244</i>	1	Outer arm dynein light chain 1 protein	27828333	27839904
<i>Zm00001d028245</i>	1	receptor-like protein kinase 4	27828418	27830850
<i>Zm00001d028248</i>	1	MA3 domain-containing protein	27966867	27969415
<i>Zm00001d028249</i>	1	Probable peroxygenase 4	27990681	27995535
<i>Zm00001d022702</i>	1		28040115	28040535
<i>Zm00001d028250</i>	1	RNI-like superfamily protein	28040618	28041381
<i>Zm00001d028252</i>	1	Caleosin	28052353	28059866
<i>Zm00001d028254</i>	1	Putative E3 ubiquitin-protein ligase XBAT31	28055810	28058269
<i>Zm00001d028255</i>	1		28066027	28076562
<i>Zm00001d028256</i>	1	Molecular chaperone Hsp40/DnaJ family protein	28086258	28102920
<i>Zm00001d028257</i>	1		28103034	28104556
<i>Zm00001d028258</i>	1	cytochrome P450 family 94 subfamily D polypeptide 2	28108217	28109776
<i>Zm00001d028260</i>	1	glutamine synthetase6	28169233	28171917
<i>Zm00001d028261</i>	1	Protein VAC14 homolog	28226067	28235042
<i>Zm00001d028262</i>	1	Nuclear pore complex protein NUP155	28392801	28405146
<i>Zm00001d028263</i>	1	Putative pentatricopeptide repeat-containing protein mitochondrial	28482921	28485437
<i>Zm00001d028264</i>	1	UDP-3-O-acyl N-acetylglucosamine deacetylase family protein	28568675	28577849
<i>Zm00001d028265</i>	1	Response regulator 8%3B Two-component response regulator ARR1	28609279	28614414
<i>Zm00001d028266</i>	1	Major facilitator superfamily protein	28615299	28617125
<i>Zm00001d028267</i>	1	trehalose-6-phosphate synthase2	28638545	28642886
<i>Zm00001d028268</i>	1	TSL-kinase interacting protein 1	28685923	28686558
<i>Zm00001d028269</i>	1	ATP-dependent DNA helicase		
		[Source:UniProtKB/TrEMBL;Acc:A0A1D6JU37]	28714876	28733871
<i>Zm00001d028270</i>	1	Multifunctional fusion protein		
		[Source:UniProtKB/TrEMBL;Acc:A0A1D6JU44]	28733920	28741221
<i>Zm00001d028271</i>	1	Type II inositol polyphosphate 5-phosphatase 15	28753746	28755604
<i>Zm00001d028272</i>	1	Sec-independent protein translocase protein TATC%2C chloroplastic	28789870	28800586
<i>Zm00001d028273</i>	1	Mitogen-activated protein kinase kinase 9	28802882	28804087
<i>Zm00001d028274</i>	1	Cyclin-SDS	28825530	28829211
<i>Zm00001d028275</i>	1	Pentatricopeptide repeat-containing protein	28835340	28836758
<i>Zm00001d028276</i>	1	Carboxyl-terminal-processing peptidase 1 chloroplastic	28857645	28858802



<i>Zm00001d022703</i>	1		28866177	28866862
<i>Zm00001d028277</i>	1	hAT transposon superfamily protein	28936381	28939268
<i>Zm00001d028278</i>	1	cytochrome P450 family 94 subfamily D polypeptide 2	28959783	28961321
<i>Zm00001d028279</i>	1		28996699	29002980
<i>Zm00001d028280</i>	1	Wall-associated receptor kinase-like 14	29046582	29052596
<i>Zm00001d028281</i>	1		29123070	29123435
<i>Zm00001d028282</i>	1	Cytochrome P450 CYP74A19	29125756	29127204
<i>Zm00001d028284</i>	1	Ternary complex factor MIP1	29163500	29167598
<i>Zm00001d028285</i>	1	Probable E3 ubiquitin-protein ligase ARI2	29171324	29180599
<i>ENSRNA049473748</i>	1	U2 spliceosomal RNA	29233310	29233506
<i>Zm00001d028286</i>	1	Protein LYK2	29234777	29236687
<i>Zm00001d028287</i>	1	Calcium uniporter protein 4 mitochondrial	29239110	29240679
<i>Zm00001d028288</i>	1	Leucine-rich repeat extensin-like protein 6	29240997	29241737
<i>Zm00001d028290</i>	1		29296243	29296315
<i>Zm00001d028293</i>	1	Heptahelical transmembrane protein 5	29407035	29412655
<i>Zm00001d028294</i>	1	Ubiquitin-protein ligase	29450944	29452323
<i>Zm00001d022704</i>	1		29486017	29486563
<i>Zm00001d028295</i>	1	Protein LOW PSII ACCUMULATION 3 chloroplastic	29497242	29504081
<i>Zm00001d028296</i>	1	F-box protein SKIP22	29508943	29510385
<i>Zm00001d028297</i>	1	Transcription factor bHLH62	29513368	29517917
<i>Zm00001d028298</i>	1	short hypocotyl in white light1	29611603	29617384
<i>Zm00001d028299</i>	1	Squalene epoxidase 1	29671337	29676427
<i>Zm00001d028300</i>	1		29684761	29684831
<i>Zm00001d028301</i>	1		29685314	29685387
<i>ENSRNA049473755</i>	1	U6 spliceosomal RNA	29755731	29755833
<i>Zm00001d028302</i>	1		29770419	29781683
<i>Zm00001d028303</i>	1	Branched-chain-amino-acid aminotransferase	29785411	29788053
<i>Zm00001d028304</i>	1	Homeobox-leucine zipper protein HAT3	29830012	29832203
<i>Zm00001d028305</i>	1	Condensin-2 complex subunit H2	29833586	29835464
<i>Zm00001d028307</i>	1	Probable inactive poly [ADP-ribose] polymerase SRO1	29957661	29960895
<i>Zm00001d022705</i>	1		29967291	29967907
<i>Zm00001d028308</i>	1		29985961	29988114
<i>Zm00001d028309</i>	1	Maf-like protein	30017030	30019564
<i>Zm00001d028311</i>	1	Antiporter/ drug transporter/ transporter	30090857	30092572
<i>Zm00001d028312</i>	1	Transcription factor bHLH18 PnFL-2%3B Putative tify domain/CCT motif	30246573	30253035
<i>Zm00001d028313</i>	1	transcription factor family protein	30342336	30344337
<i>Zm00001d028314</i>	1	Transcription factor bHLH18	30348798	30349622
<i>Zm00001d028315</i>	1	Transcription factor bHLH18	30363759	30364166
<i>Zm00001d028317</i>	1	Leucine-rich repeat receptor-like serine/threonine- protein kinase BAM3	30517819	30521296

<i>Zm00001d022706</i>	1		30543727	30544362
<i>Zm00001d028318</i>	1	Ubiquitin carboxyl-terminal hydrolase 27	30551788	30553135
<i>Zm00001d028319</i>	1	Probable receptor-like serine/threonine-protein kinase	30559316	30563559
<i>Zm00001d028320</i>	1		30599349	30609154
<i>Zm00001d028323</i>	1	fringe-related protein	30655198	30657801
<i>Zm00001d028325</i>	1	brassinosteroid synthesis1	30793737	30799897
<i>Zm00001d028326</i>	1		30943962	30944348
<i>Zm00001d028327</i>	1		30959747	30960283
<i>Zm00001d028328</i>	1		30969605	30971412
<i>Zm00001d028330</i>	1	Sodium/hydrogen exchanger 2	31041489	31049951
<i>Zm00001d028331</i>	1	Glucan endo-1,3-beta-glucosidase 7	31049530	31051714
<i>Zm00001d028332</i>	1	Coatomer subunit gamma	31051822	31060753
<i>Zm00001d028333</i>	1		31062103	31062841
<i>Zm00001d028335</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JV61]	31084458	31090595
<i>Zm00001d028336</i>	1		31097278	31101111
<i>Zm00001d028337</i>	1	Proline-rich receptor-like protein kinase PERK4	31103531	31114482
<i>Zm00001d022707</i>	1		31114188	31114523
<i>Zm00001d028338</i>	1		31190849	31194494
<i>Zm00001d028339</i>	1	Whole genome shotgun sequence of line PN40024 scaffold_7.assembly12x (Fragment)	31208608	31218917
<i>Zm00001d028340</i>	1		31306395	31307591
<i>Zm00001d028341</i>	1		31323288	31328862
<i>Zm00001d028343</i>	1		31343115	31344669
<i>Zm00001d028344</i>	1	Putative metal tolerance protein C3	31351458	31356305
<i>Zm00001d028347</i>	1	Peroxidase 53	31513628	31515158
<i>Zm00001d028348</i>	1	Peroxidase 53	31548999	31551114
<i>Zm00001d028349</i>	1	Peroxidase 59	31555841	31557666
<i>Zm00001d028351</i>	1	Pectinesterase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JVC7]	31656065	31659891
<i>Zm00001d028352</i>	1	LisH and RanBPM domains containing protein	31683717	31688115
<i>Zm00001d028354</i>	1	Protein NRT1/ PTR FAMILY 8.3	31745664	31750226
<i>Zm00001d028355</i>	1	Protein NRT1/ PTR FAMILY 8.3	31794590	31806747
<i>Zm00001d028356</i>	1		31810608	31811129
<i>Zm00001d028357</i>	1		31845399	31846019
<i>Zm00001d028358</i>	1	Anaphase-promoting complex subunit 6	31888102	31908777
<i>Zm00001d028359</i>	1	Transmembrane 9 superfamily protein member 1	32043753	32048554
<i>Zm00001d028360</i>	1	NAD(P)-linked oxidoreductase superfamily protein	32049647	32052463
<i>Zm00001d028361</i>	1	Protein SHOOT GRAVITROPISM 5	32068552	32072460
<i>Zm00001d028362</i>	1		32137771	32138313
<i>Zm00001d028363</i>	1	65-kDa microtubule-associated protein 6	32145180	32150879
<i>Zm00001d028365</i>	1	Cyclin-J18	32245893	32249856

<i>Zm00001d028366</i>	1	Type IV inositol polyphosphate 5-phosphatase 9	32270365	32274160
<i>Zm00001d028367</i>	1	Purple acid phosphatase 3	32294525	32297240
<i>Zm00001d028368</i>	1	Purple acid phosphatase 1	32324768	32327736
<i>Zm00001d028369</i>	1	hydroxyproline-rich glycoprotein family protein	32354777	32360308
<i>Zm00001d028370</i>	1	Protein OBERON 3	32363713	32367026
<i>Zm00001d028371</i>	1	Zinc finger protein 1	32428519	32429178
<i>Zm00001d028372</i>	1	bZIP transcription factor 16	32433751	32442505
<i>Zm00001d028373</i>	1	translocon of outer membrane of chloroplast35	32472096	32478283
<i>Zm00001d028374</i>	1	U-box domain-containing protein 21	32502433	32503776
<i>Zm00001d028375</i>	1	B-cell receptor-associated 31-like	32602769	32606650
<i>Zm00001d028376</i>	1		32603873	32603944
<i>Zm00001d028377</i>	1	Small nuclear ribonucleoprotein Sm D3	32606648	32607667
<i>Zm00001d028378</i>	1	S-formylglutathione hydrolase	32646827	32647222
<i>Zm00001d028379</i>	1	NADPH--cytochrome P450 reductase 2	32669956	32671491
<i>Zm00001d028380</i>	1	TSL-kinase interacting protein 1	32678385	32692019
<i>Zm00001d028382</i>	1	Ras-related protein RABG3a	32771811	32783919
<i>Zm00001d028384</i>	1	Ribosomal protein L7Ae/L30e/S12e/Gadd45 family protein	32801911	32809405
<i>Zm00001d028385</i>	1		32816668	32820422
<i>Zm00001d028386</i>	1	Protein kinase superfamily protein	32857622	32861798
<i>Zm00001d028388</i>	1	Putative pentatricopeptide repeat-containing protein	32948302	32950299
<i>Zm00001d028389</i>	1		33035884	33036654
<i>Zm00001d028390</i>	1	F-box protein At-B	33086231	33088568
<i>Zm00001d028391</i>	1	Subtilisin-like protease SBT1.6	33115669	33118053
<i>Zm00001d028392</i>	1	actin depolymerizing factor5	33147676	33150346
<i>Zm00001d028393</i>	1	UDP-N-acetylglucosamine diphosphorylase 2 Bifunctional D-cysteine desulfhydrase/1-aminocyclopropane-1-carboxylate deaminase mitochondrial	33164527	33166953
<i>Zm00001d028394</i>	1		33167117	33168214
<i>Zm00001d028395</i>	1	Fructose-bisphosphate aldolase 3 chloroplastic 26S proteasome non-ATPase regulatory subunit 4 homolog	33168640	33169312
<i>Zm00001d028396</i>	1		33303345	33310707
<i>Zm00001d028397</i>	1	Acyl-CoA-binding domain-containing protein 3	33440965	33448136
<i>Zm00001d028398</i>	1	Glycosyl hydrolase family 10 protein	33451482	33454805
<i>Zm00001d022708</i>	1		33490519	33491688
<i>Zm00001d022709</i>	1		33490777	33491213
<i>Zm00001d028399</i>	1	Thaumatococcus-like protein 1	33544073	33546571
<i>Zm00001d028400</i>	1	Pathogenesis-related thaumatococcus superfamily protein	33597142	33600523
<i>Zm00001d022710</i>	1		33617874	33619379
<i>Zm00001d028401</i>	1	Auxin transporter-like protein 3	33647427	33651594
<i>Zm00001d028402</i>	1	Gamma-glutamyl hydrolase 1	33654729	33656741
<i>Zm00001d028404</i>	1	Chaperone protein dnaJ 11 chloroplastic	33738878	33739350

<i>Zm00001d028405</i>	1	Proline-rich protein 2	33744708	33745907
<i>Zm00001d028406</i>	1	3-ketoacyl-CoA synthase 1	33752854	33754497
<i>Zm00001d028408</i>	1	heat shock protein26	33789050	33790182
<i>Zm00001d028409</i>	1	Chaperonin 60 subunit beta 4 chloroplastic	33800139	33804188
<i>Zm00001d028410</i>	1	Glucan endo-1,3-beta-glucosidase 10	33850280	33852910
<i>Zm00001d028412</i>	1	Filament-like plant protein 4	34030313	34038303
<i>Zm00001d028413</i>	1	LOB domain-containing protein 31	34109298	34111567
<i>Zm00001d028414</i>	1	ATP-dependent Clp protease ATP-binding subunit CLPT1 chloroplastic	34138159	34143845
<i>Zm00001d028415</i>	1		34144566	34150213
<i>Zm00001d028416</i>	1	ACR8	34211830	34214257
<i>Zm00001d028417</i>	1	Autophagy protein 9	34216191	34223589
<i>Zm00001d028419</i>	1	cytochrome P450 family 76 subfamily C polypeptide 7	34328365	34331946
<i>Zm00001d022711</i>	1		34343016	34343428
<i>Zm00001d028422</i>	1	Pentatricopeptide repeat-containing protein chloroplastic	34508764	34510317
<i>Zm00001d028423</i>	1	IRK-interacting protein	34540138	34541979
<i>Zm00001d028424</i>	1	Immature colon carcinoma transcript 1 protein	34542493	34546543
<i>Zm00001d028425</i>	1	Chloride conductance regulatory protein ICl <sub>n</sub>	34589914	34593828
<i>Zm00001d028426</i>	1	40S ribosomal protein S20-1	34649020	34655072
<i>Zm00001d028427</i>	1	40S ribosomal protein S20	34657783	34659222
<i>Zm00001d028428</i>	1	Calcium-binding EF-hand family protein	34690471	34704954
<i>Zm00001d028429</i>	1	HVA22-like protein i	34709436	34713166
<i>Zm00001d028431</i>	1		34818314	34833657
<i>Zm00001d028432</i>	1	Nuclear transcription factor Y subunit C-1	34899450	34900187
<i>Zm00001d028433</i>	1		34919688	34921312
<i>Zm00001d028434</i>	1	Cryptochrome-1	34926403	34927063
<i>Zm00001d028436</i>	1	V-type proton ATPase subunit a3	34959814	34966593
<i>Zm00001d028437</i>	1	Calcium-dependent lipid-binding (CaLB domain) family protein	34966683	34970269
<i>Zm00001d028438</i>	1	Guanine-nucleotide-exchange protein	34970608	34979598
<i>Zm00001d028439</i>	1	Protein kinase superfamily protein	35020494	35022539
<i>Zm00001d022712</i>	1		35117435	35117735
<i>Zm00001d028440</i>	1	Probable carboxylesterase 8	35118009	35119004
<i>Zm00001d028441</i>	1		35124835	35125719
<i>Zm00001d028443</i>	1	Long chain base biosynthesis protein 1	35131038	35136000
<i>Zm00001d028445</i>	1	RAD-like 3	35204318	35205343
<i>Zm00001d028447</i>	1	Serine/threonine-protein kinase WAG2	35263025	35264614
<i>Zm00001d028450</i>	1	Ubiquitin-fold modifier-conjugating enzyme 1	35276821	35278948
<i>Zm00001d028451</i>	1		35300769	35301761
<i>Zm00001d028452</i>	1	Glyoxal oxidase	35373160	35374902
<i>Zm00001d028453</i>	1		35465775	35476235

<i>Zm00001d028454</i>	1	L-type lectin-domain containing receptor kinase V.9	35467852	35469731
<i>Zm00001d028455</i>	1	L-type lectin-domain containing receptor kinase V.9	35470498	35472527
<i>Zm00001d028456</i>	1	Regulator of Vps4 activity in the MVB pathway protein	35502775	35505397
<i>Zm00001d028457</i>	1	Regulator of Vps4 activity in the MVB pathway protein	35508417	35510031
<i>Zm00001d028458</i>	1	Catalytic/ oxidoreductase%2C acting on NADH or NADPH	35511389	35511664
<i>Zm00001d028461</i>	1	DUF2146 family protein	35528328	35529949
<i>Zm00001d022713</i>	1		35604873	35615813
<i>Zm00001d028463</i>	1		35712410	35717428
<i>Zm00001d028464</i>	1	Rho GTPase activation protein (RhoGAP) with PH domain	35718861	35785612
<i>Zm00001d028465</i>	1		35816377	35817554
<i>Zm00001d028467</i>	1		35871818	35874297
<i>Zm00001d028469</i>	1		35933885	35934520
<i>Zm00001d028470</i>	1	Phosphatidylserine decarboxylase proenzyme 3	35940305	35941354
<i>Zm00001d022714</i>	1		35945128	35945663
<i>Zm00001d028471</i>	1	phosphoenolpyruvate carboxykinase1	35960441	35964750
<i>Zm00001d028472</i>	1	Far-red impaired responsive (FAR1) family protein	35965499	35970651
<i>Zm00001d028473</i>	1	Protein CHAPERONE-LIKE PROTEIN OF POR1 chloroplastic	36041162	36047534
<i>Zm00001d028474</i>	1	Beta-galactosidase	36140572	36147440
<i>Zm00001d028475</i>	1	Probable E3 ubiquitin-protein ligase LOG2	36211949	36216035
<i>Zm00001d028477</i>	1	Chorismate synthase chloroplastic	36246226	36256685
<i>Zm00001d028478</i>	1		36254761	36254834
<i>Zm00001d028480</i>	1		36337818	36338422
<i>Zm00001d028481</i>	1	topless-related2	36474424	36485449
<i>Zm00001d028482</i>	1	Patatin-like protein 3	36508912	36510926
<i>Zm00001d028484</i>	1	Disease resistance protein RPS5	36588522	36592955
<i>Zm00001d028485</i>	1	Probable mitochondrial import inner membrane translocase subunit TIM21	36671835	36684456
<i>Zm00001d028486</i>	1	Chemocyanin	36754520	36755618
<i>Zm00001d028488</i>	1	Calmodulin-binding transcription activator 2	36769460	36771004
<i>Zm00001d028489</i>	1		36775772	36779056
<i>Zm00001d028490</i>	1	ERAD-associated E3 ubiquitin-protein ligase component HRD3A	36826368	36843555
<i>Zm00001d028493</i>	1		36894428	36899646
<i>Zm00001d028494</i>	1		37048271	37048578
<i>Zm00001d028495</i>	1	Putative dynamin-related protein 4A	37166917	37168941
<i>Zm00001d028496</i>	1	PHD finger protein ALFIN-LIKE 6	37173637	37175468
<i>Zm00001d028497</i>	1	Putative dynamin-related protein 4A	37198422	37200445
<i>Zm00001d028498</i>	1	B-block binding subunit of TFIIC	37218931	37220831
<i>Zm00001d028499</i>	1	ATP-dependent DNA helicase	37221727	37226777
		[Source:UniProtKB/TrEMBL;Acc:A0A1D6JWT8]		

<i>Zm00001d028500</i>	1		37241399	37245007
<i>Zm00001d028501</i>	1	Lon protease homolog 2 peroxisomal	37243858	37244861
<i>Zm00001d028502</i>	1	Alpha-galactosidase 1	37260628	37261694
<i>Zm00001d028503</i>	1	CLE family OsCLE302 protein; protein	37265122	37266559
<i>Zm00001d028504</i>	1	Transcription factor AIG1	37284320	37286411
<i>Zm00001d028505</i>	1	Phospholipase A2-alpha	37343077	37345202
<i>Zm00001d028508</i>	1	Sucrose synthase 3	37470281	37475086
<i>Zm00001d028509</i>	1	Chaperone DnaJ-domain superfamily protein	37475856	37481112
<i>Zm00001d028510</i>	1	Protein FAF-like chloroplastic	37501237	37502382
<i>Zm00001d028511</i>	1	ARM repeat superfamily protein	37580598	37594480
<i>Zm00001d028512</i>	1	Phosphatidylinositol 4-phosphate 5-kinase 2	37678345	37682334
<i>Zm00001d028513</i>	1	PYM protein	37762852	37767856
<i>Zm00001d028514</i>	1	Mitogen-activated protein kinase kinase kinase 1	37841039	37846575
<i>Zm00001d028515</i>	1	Eukaryotic translation initiation factor NCBP	37916605	37927253
<i>Zm00001d028517</i>	1	COP9 signalosome complex subunit 3	37964752	37965359
<i>Zm00001d028518</i>	1		37968009	37969469
<i>Zm00001d028519</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JX21]	38027330	38032536
<i>Zm00001d028520</i>	1		38036165	38039615
<i>Zm00001d028521</i>	1	Cyclin-dependent kinase B1-1	38042022	38042845
<i>Zm00001d028522</i>	1	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family	38045919	38047692
<i>Zm00001d028523</i>	1		38075569	38076477
<i>Zm00001d028524</i>	1	Ethylene-responsive transcription factor ERF014	38080422	38081126
<i>Zm00001d028525</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JX28]	38120752	38126640
<i>Zm00001d028526</i>	1	Scarecrow-like protein 26	38187938	38189632
<i>Zm00001d028527</i>	1		38215481	38232937
<i>Zm00001d028528</i>	1	Mitochondrial phosphate carrier protein 3 mitochondrial	38234408	38242664
<i>Zm00001d028529</i>	1	hydroxyproline-rich glycoprotein family protein	38255155	38258570
<i>Zm00001d028530</i>	1		38320615	38323024
<i>Zm00001d028531</i>	1	glycine-rich protein	38338679	38342235
<i>Zm00001d028532</i>	1	CONSTANS interacting protein 4	38393485	38403506
<i>Zm00001d028533</i>	1	Calcium ion binding protein	38404713	38407235
<i>Zm00001d028534</i>	1	LAG1 longevity assurance homolog 2	38449782	38457129
<i>Zm00001d028535</i>	1	Protein kinase superfamily protein	38516176	38520014
<i>Zm00001d028536</i>	1	Anthranilate synthase alpha subunit 2 chloroplastic	38520831	38526529
<i>Zm00001d028537</i>	1	zinc finger protein-related P-loop containing nucleoside triphosphate hydrolases	38582039	38583427
<i>Zm00001d028538</i>	1	superfamily protein	38586289	38599861
<i>Zm00001d028539</i>	1	Sulfoquinovosyl transferase SQD2	38638860	38643914
<i>Zm00001d028540</i>	1	Josephin-2	38644815	38647346

<i>Zm00001d028541</i>	1	40S ribosomal protein S25-2	38683757	38684321
<i>Zm00001d028542</i>	1	Peroxisomal nicotinamide adenine dinucleotide carrier	38685403	38697325
<i>Zm00001d028543</i>	1	Coronatine-insensitive protein 1	38734079	38737199
<i>Zm00001d028546</i>	1	SH3 domain-containing protein	38902998	38914734
<i>Zm00001d028547</i>	1	Transmembrane protein	38915529	38915936
<i>Zm00001d028548</i>	1	maternal effect embryo arrest 59	38916237	38917464
<i>Zm00001d028549</i>	1	Cysteine proteinases superfamily protein	38968714	38972965
<i>Zm00001d028550</i>	1	LIM domain-containing protein WLIM2b	38975759	38978074
<i>Zm00001d028552</i>	1	EIN3-binding F-box protein 1	38985184	38986051
<i>Zm00001d028554</i>	1	Cytosolic enolase 3	38993551	38998358
<i>Zm00001d028555</i>	1	17.4 kDa class I heat shock protein 3	38997819	38998295
<i>Zm00001d022715</i>	1		39053114	39058981
<i>Zm00001d028556</i>	1		39084598	39085294
<i>Zm00001d028557</i>	1	17.4 kDa class I heat shock protein	39085728	39086204
<i>Zm00001d028558</i>	1	Clathrin binding protein	39099230	39105322
<i>Zm00001d028560</i>	1	LRR receptor-like serine/threonine-protein kinase FEI 1	39154936	39163793
<i>Zm00001d028561</i>	1	17.4 kDa class I heat shock protein	39214417	39214896
<i>Zm00001d028562</i>	1	Fructose-1,6-bisphosphatase	39215626	39217472
<i>Zm00001d028563</i>	1		39218835	39220465
<i>Zm00001d028564</i>	1		39219196	39219834
<i>Zm00001d028565</i>	1		39236494	39239663
<i>Zm00001d028566</i>	1	DUF3527 domain protein	39242181	39247183
<i>Zm00001d028567</i>	1	Protein DA1-related 2	39386655	39389622
<i>Zm00001d028568</i>	1	Serine/threonine-protein phosphatase	39393998	39401889
<i>Zm00001d028569</i>	1	myosin heavy chain-related	39402992	39408469
<i>Zm00001d028570</i>	1	Serine/threonine-protein kinase ATG1c	39410431	39417092
<i>Zm00001d028571</i>	1	Digalactosyldiacylglycerol synthase 2 chloroplastic	39418149	39423804
<i>Zm00001d028572</i>	1	Mannose-1-phosphate guanylyltransferase 1	39461169	39464573
<i>Zm00001d028574</i>	1	Protein phosphatase 2C 37	39490113	39492146
<i>Zm00001d028575</i>	1	Tropinone reductase	39563411	39569231
<i>Zm00001d028576</i>	1	fringe-related protein	39587411	39593209
<i>Zm00001d028577</i>	1	DNA-binding protein	39677011	39677832
<i>Zm00001d028579</i>	1	splicing factor PWI domain-containing protein	39746224	39755459
<i>Zm00001d028580</i>	1		39750336	39750830
<i>Zm00001d028582</i>	1	AT4G35310 (E=9e-076) CPK5 ATCPK5   CPK5 (calmodulin-domain protein kinase 5); ATP binding / calcium ion binding / calmodulin-dependent protein kinase/ kinase/ protein kinase/ protein serine/threonine kinase uncharacterized protein	39799383	39800220
<i>Zm00001d028584</i>	1	[Source:UniProtKB/TrEMBL;Acc:B6SK93]	39957851	39958327
<i>Zm00001d028585</i>	1	sigma-like factor2B	40036028	40038476

<i>Zm00001d028586</i>	1	Protein TOC75-3 chloroplastic	40092188	40097279
<i>Zm00001d028587</i>	1	Pentatricopeptide repeat-containing protein	40098704	40100074
<i>Zm00001d028588</i>	1	Fes1B	40100220	40103763
<i>Zm00001d028589</i>	1		40102999	40103070
<i>Zm00001d028590</i>	1	Probable E3 ubiquitin-protein ligase RHC2A	40108125	40108961
<i>Zm00001d028591</i>	1	PCS1	40117200	40118564
<i>Zm00001d028592</i>	1		40123313	40123759
<i>Zm00001d028593</i>	1	E3 ubiquitin-protein ligase SDIR1	40162847	40168804
<i>Zm00001d028594</i>	1	PLATZ transcription factor family protein	40221978	40223031
<i>Zm00001d028595</i>	1	Serine/threonine-protein phosphatase BSL3	40238228	40239306
<i>Zm00001d028596</i>	1		40240031	40250055
<i>Zm00001d028597</i>	1	Probable tRNA (guanine(26)-N(2))-dimethyltransferase 2	40253344	40260838
<i>Zm00001d028598</i>	1	ROTUNDIFOLIA like 8	40268286	40268585
<i>Zm00001d028599</i>	1	Laccase-17 Haloacid dehalogenase-like hydrolase (HAD) superfamily protein	40283742	40287068
<i>Zm00001d028601</i>	1		40428759	40431019
<i>Zm00001d022716</i>	1		40462645	40463336
<i>Zm00001d022717</i>	1		40463496	40464275
<i>Zm00001d028603</i>	1	GRAS transcription factor (Fragment) (Fragment) [Source:UniProtKB/TrEMBL;Acc:A0A060D1U6] Serine/threonine-protein phosphatase PP2A catalytic subunit	40510526	40516015
<i>Zm00001d028604</i>	1		40561826	40563132
<i>Zm00001d028605</i>	1		40564067	40565906
<i>Zm00001d022718</i>	1		40567753	40568408
<i>Zm00001d028606</i>	1	Oxysterol-binding protein-related protein 3B	40594616	40599175
<i>Zm00001d022719</i>	1		40617956	40618342
<i>Zm00001d028608</i>	1	Telomere repeat-binding protein 5	40713008	40718506
<i>Zm00001d028609</i>	1		40765847	40768228
<i>Zm00001d028611</i>	1	Callose synthase 11	40777725	40780020
<i>Zm00001d028612</i>	1	Expressed protein; protein	40781478	40787295
<i>Zm00001d028613</i>	1	Protein kinase APK1A chloroplastic	40787502	40790508
<i>Zm00001d028615</i>	1	Probable protein phosphatase 2C 4	40886065	40889048
<i>Zm00001d028616</i>	1	Putative E3 ubiquitin-protein ligase XBAT31	40942152	40945320
<i>Zm00001d028617</i>	1		40994501	40995457
<i>Zm00001d028618</i>	1	RAD3-like DNA-binding helicase protein	40996578	41013371
<i>Zm00001d028619</i>	1	Palmitoyltransferase AKR1	41016994	41022002
<i>Zm00001d028620</i>	1	Putative clathrin assembly protein hAT dimerisation domain-containing protein / transposase-related	41086669	41088588
<i>Zm00001d028621</i>	1		41091131	41112110
<i>Zm00001d022720</i>	1		41115810	41116656
<i>Zm00001d028622</i>	1	60S ribosomal protein L3-1	41158763	41162190
<i>Zm00001d028623</i>	1	U-box domain-containing protein 13	41163185	41168227



<i>Zm00001d028624</i>	1	Probable protein phosphatase 2C 33	41195076	41195404
<i>Zm00001d028625</i>	1	DOF30 transcription factor	41269098	41270850
<i>Zm00001d028627</i>	1	Retrotransposon-like protein	41306017	41327056
<i>Zm00001d028630</i>	1	Heat shock cognate 70 kDa protein 2	41454240	41456420
<i>Zm00001d028631</i>	1		41456759	41459625
<i>Zm00001d028632</i>	1		41460757	41462736
<i>Zm00001d028633</i>	1		41467085	41472952
<i>Zm00001d028635</i>	1	ATP-dependent 6-phosphofructokinase 3	41474845	41476062
<i>Zm00001d028639</i>	1	Heat shock 70 kDa protein 3	41569484	41573603
<i>Zm00001d028640</i>	1		41576807	41578649
<i>Zm00001d028641</i>	1		41589278	41590864
<i>Zm00001d028642</i>	1	Beta-glucuronosyltransferase GlcAT14C	41591107	41596895
<i>Zm00001d028643</i>	1	HSP20-like chaperones superfamily protein	41696883	41698484
<i>Zm00001d028645</i>	1		41716530	41717715
<i>Zm00001d028646</i>	1	DExH-box ATP-dependent RNA helicase DExH12	41719545	41721606
<i>Zm00001d028647</i>	1	Glyoxalase family protein superfamily	41725195	41726068
<i>Zm00001d028649</i>	1	Embryogenesis transmembrane protein-like; protein	41792756	41796270
<i>Zm00001d028650</i>	1		41797664	41797737
<i>Zm00001d028651</i>	1	Cysteine-rich repeat secretory protein 55	41801401	41802524
<i>Zm00001d028652</i>	1		41807789	41810717
<i>Zm00001d028653</i>	1	dTDP-glucose dehydratase homolog csu219 Trifunctional UDP-glucose 46-dehydratase/UDP-4- keto-6-deoxy-D-glucose 35-epimerase/UDP-4-keto-L- rhamnose-reductase RHM2	41833738	41838204
<i>Zm00001d028654</i>	1		41844935	41848759
<i>Zm00001d028655</i>	1	THO complex subunit 4B	41897894	41901694
<i>Zm00001d028656</i>	1	DNA binding protein	42051353	42054601
<i>Zm00001d028657</i>	1		42055800	42056585
<i>Zm00001d028658</i>	1	Thylakoid lumenal 15 kDa protein 1 chloroplastic	42104873	42105539
<i>Zm00001d028659</i>	1		42111830	42113942
<i>Zm00001d028660</i>	1	Acyl-CoA N-acyltransferase with RING/FYVE/PHD- type zinc finger domain	42116981	42126702
<i>Zm00001d028661</i>	1	RNA binding protein Arginine biosynthesis bifunctional protein ArgJ%2C chloroplastic Glutamate N-acetyltransferase Amino-acid acetyltransferase Arginine biosynthesis bifunctional protein ArgJ alpha chain Arginine biosynthesis bifunctional protein ArgJ beta chain	42128655	42129990
<i>Zm00001d028662</i>	1		42229599	42239557
<i>Zm00001d028664</i>	1	Transcription factor bHLH112	42281902	42284171
<i>Zm00001d028665</i>	1		42291247	42292050
<i>Zm00001d028667</i>	1	Zinc finger protein ZAT11	42392374	42392922
<i>Zm00001d028668</i>	1	phosphoinositide binding	42435721	42438109
<i>Zm00001d028669</i>	1	Kinesin-like protein KIN-5B	42440888	42454789

<i>Zm00001d028670</i>	1	Photosynthetic NDH subunit of lumenal location 1 chloroplastic	42455227	42457109
<i>Zm00001d028671</i>	1	ABC transporter B family member 6	42457173	42465916
<i>Zm00001d028672</i>	1	Ribosomal protein S18	42563870	42580521
<i>Zm00001d028673</i>	1	Probable small nuclear ribonucleoprotein G	42582321	42583087
<i>Zm00001d028675</i>	1	Plant-specific domain TIGR01589 family protein	42746694	42748113
<i>Zm00001d028676</i>	1		42757820	42761547
<i>Zm00001d028677</i>	1		42763172	42763245
<i>ENSRNA049439996</i>	1	tRNA-Arg for anticodon UCG	42763172	42763245
<i>Zm00001d028678</i>	1	Tryptophan synthase alpha chain chloroplastic	42769094	42770249
<i>Zm00001d028679</i>	1	Protein binding protein	42783762	42786862
<i>Zm00001d028680</i>	1	Ankyrin repeat-containing protein	42788600	42791622
<i>Zm00001d028685</i>	1		43042365	43043297
<i>Zm00001d028686</i>	1	Receptor-like protein kinase HERK 1	43080647	43083202
<i>Zm00001d028687</i>	1	calcium pump2	43083284	43088852
<i>Zm00001d028688</i>	1		43110371	43111309
<i>Zm00001d028689</i>	1	ATPase%2C coupled to transmembrane movement of substances	43282276	43284648
<i>Zm00001d028690</i>	1		43285358	43291990
<i>Zm00001d028691</i>	1	Expressed protein; protein	43312091	43316577
<i>Zm00001d028692</i>	1	Glutathione S-transferase L2 chloroplastic	43328452	43334856
<i>Zm00001d028693</i>	1	safener induced1	43343008	43345059
<i>Zm00001d028694</i>	1	Ent-kaurenoic acid oxidase 1	43348203	43351664
<i>Zm00001d028695</i>	1	Protein MODIFIER OF SNC1 11	43355977	43359324
<i>Zm00001d028696</i>	1	Expressed protein; protein	43359353	43361346
<i>Zm00001d028697</i>	1	Pentatricopeptide repeat-containing protein	43371703	43373490
<i>Zm00001d028698</i>	1	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase	43439526	43446781
<i>Zm00001d028699</i>	1	Ypt/Rab-GAP domain of gyp1p superfamily protein	43566683	43581725
<i>Zm00001d028701</i>	1	Probable serine/threonine-protein kinase RLCKVII	43615021	43621153
<i>Zm00001d028702</i>	1	50S ribosomal protein L10 chloroplastic	43646003	43646671
<i>Zm00001d028703</i>	1		43648312	43648390
<i>Zm00001d028704</i>	1	Thioredoxin-like protein AAED1 chloroplastic	43713184	43724218
<i>Zm00001d028705</i>	1	topoisomerase-like enzyme3	43725600	43726910
<i>Zm00001d028707</i>	1		43825133	43832815
<i>Zm00001d028708</i>	1	Putative uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:B6SR48]	43891995	43892168
<i>Zm00001d028709</i>	1	ascorbate peroxidase homolog3	43901180	43904278
<i>Zm00001d028710</i>	1		43905140	43907073
<i>Zm00001d028711</i>	1	MAP kinase3	43908553	43911257
<i>Zm00001d028712</i>	1	Arogenate dehydratase/prephenate dehydratase 2 chloroplastic	43999111	44006680
<i>Zm00001d028713</i>	1	Probable sugar phosphate/phosphate translocator	44009629	44012885

<i>Zm00001d028714</i>	1	Probable RNA-binding protein ARP1	44013642	44016256
<i>Zm00001d028715</i>	1	Transducin/WD40 repeat-like superfamily protein	44168660	44172559
<i>Zm00001d028718</i>	1	Hydrophobic protein RCI2B	44179372	44180241
<i>Zm00001d028719</i>	1		44243100	44244480
<i>Zm00001d028720</i>	1	Phosphatidylinositol transfer protein expressed	44244619	44246925
<i>Zm00001d028721</i>	1	LOB domain protein 11	44340623	44341737
<i>Zm00001d028722</i>	1	Universal stress protein PHOS34	44343801	44344223
<i>Zm00001d022721</i>	1		44356128	44357346
<i>Zm00001d028723</i>	1		44359385	44359457
<i>Zm00001d028724</i>	1		44360168	44360240
<i>Zm00001d028725</i>	1	Beta3-glucuronyltransferase	44361606	44365357
<i>Zm00001d028726</i>	1	protein disulfide isomerase9	44373879	44382034
<i>Zm00001d028727</i>	1	alpha/beta-Hydrolases superfamily protein	44512777	44518048
<i>Zm00001d028728</i>	1	RNA pseudouridine synthase 5	44521225	44532226
<i>Zm00001d028730</i>	1		44532354	44536303
<i>Zm00001d028731</i>	1	Dolichyldiphosphatase 1	44536542	44539529
<i>Zm00001d028732</i>	1	Chaperone protein dnaJ 10 SNF1-related protein kinase catalytic subunit alpha	44548793	44552517
<i>Zm00001d028733</i>	1	KIN10	44554395	44560803
<i>Zm00001d028735</i>	1	isopropylmalate dehydrogenase1	44718501	44719536
<i>Zm00001d028736</i>	1	Integral membrane Yip1 family protein	44721407	44722183
<i>Zm00001d028737</i>	1	Glucuronoxylan 4-O-methyltransferase 2	44733389	44733898
<i>Zm00001d028738</i>	1		44765885	44768411
<i>Zm00001d028739</i>	1	Sialyltransferase-like protein 2	44836475	44837783
<i>Zm00001d028740</i>	1		44843630	44844552
<i>Zm00001d028741</i>	1		44865682	44866604
<i>Zm00001d028742</i>	1	fatty acid desaturase8	44975070	44978277
<i>Zm00001d028743</i>	1		45043631	45044143
<i>Zm00001d028744</i>	1	jasmonate-regulated gene 21	45107095	45112661
<i>Zm00001d028745</i>	1	Rhodanese-like family protein	45169934	45171167
<i>Zm00001d028746</i>	1	Phosphoinositide phospholipase C 4	45171565	45179033
<i>Zm00001d028747</i>	1		45260598	45261005
<i>Zm00001d028748</i>	1		45261729	45268817
<i>Zm00001d028749</i>	1	Acyl-CoA N-acyltransferase with RING/FYVE/PHD- type zinc finger domain	45270666	45281429
<i>Zm00001d028750</i>	1	asparagine synthetase3	45286331	45290076
<i>Zm00001d022684</i>	1		45367321	45368700
<i>Zm00001d028751</i>	1	Protein ESKIMO 1	45508893	45512288
<i>Zm00001d028752</i>	1	Probable protein phosphatase 2C 30	45537884	45539961
<i>Zm00001d028753</i>	1	Mitochondrial succinate-fumarate transporter 1	45571871	45574484
<i>Zm00001d028754</i>	1	mitogen-activated protein kinase kinase kinase 13	45596914	45598386

<i>Zm00001d022722</i>	1		45598792	45599482
<i>Zm00001d028755</i>	1	Ran-binding protein 1 homolog a	45602342	45605011
<i>Zm00001d028756</i>	1		45718251	45719477
<i>Zm00001d028757</i>	1	Transcription factor bHLH140	45718296	45723331
<i>Zm00001d028758</i>	1		45719405	45719476
<i>Zm00001d028759</i>	1	Pyruvate decarboxylase isozyme 3	45724685	45729020
<i>Zm00001d028760</i>	1		45800846	45801498
<i>Zm00001d028761</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	45864595	45867995
<i>Zm00001d028762</i>	1	6-phosphofructo-2-kinase/fructose-26-bisphosphatase	45868763	45896495
<i>Zm00001d028763</i>	1	Retrovirus-related Pol polyprotein LINE-1	45881566	45883965
<i>Zm00001d028765</i>	1	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family	45932813	45935826
<i>Zm00001d028766</i>	1	Asparagine synthetase [glutamine-hydrolyzing] 1	45936873	45940038
<i>Zm00001d028767</i>	1		45979356	45980392
<i>Zm00001d028768</i>	1		45981264	45982037
<i>Zm00001d028769</i>	1	tetratricopeptide repeat (TPR)-containing protein	46006891	46011253
<i>Zm00001d028770</i>	1	Protein kinase superfamily protein	46011526	46014654
<i>Zm00001d028771</i>	1	Ubiquitin-activating enzyme E1 2	46017582	46024037
<i>Zm00001d028772</i>	1		46032247	46035061
<i>Zm00001d028773</i>	1	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8-B	46156410	46170403
<i>Zm00001d028774</i>	1	Protein kinase superfamily protein	46171809	46175164
<i>Zm00001d028775</i>	1	Thioredoxin superfamily protein	46181362	46183620
<i>Zm00001d028776</i>	1	Thioredoxin superfamily protein	46187281	46189614
<i>Zm00001d028777</i>	1	male sterile9	46189691	46192097
<i>Zm00001d028778</i>	1		46192688	46194446
<i>Zm00001d028779</i>	1	Mitochondrial import inner membrane translocase subunit tim22	46196145	46197931
<i>Zm00001d028780</i>	1	Tetraspanin-18	46200328	46201633
<i>Zm00001d028782</i>	1	Eukaryotic translation initiation factor 2 subunit alpha	46316119	46319693
<i>Zm00001d028783</i>	1	Expressed protein; protein	46327873	46334046
<i>ENSRNA049473886</i>	1	5S ribosomal RNA	46332168	46332286
<i>Zm00001d028784</i>	1	Mitochondrial substrate carrier family protein	46374276	46377587
<i>Zm00001d028785</i>	1	DUF538 family protein	46379532	46380892
<i>Zm00001d028786</i>	1	40S ribosomal protein S7	46381297	46384012
<i>Zm00001d028787</i>	1	Malonyl CoA-acyl carrier protein transacylase	46389553	46393554
<i>Zm00001d028788</i>	1		46470270	46475798
<i>Zm00001d028789</i>	1	Serine/arginine-rich splicing factor RSZ22	46474470	46476763
<i>Zm00001d028791</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6JZP1]	46477887	46491682
<i>Zm00001d028793</i>	1	Abscisic acid receptor PYL5	46498733	46499395
<i>Zm00001d028794</i>	1		46568384	46570597

<i>Zm00001d028795</i>	1	Phosphatidate cytidyltransferase 3	46571275	46573368
<i>Zm00001d028796</i>	1	meristematic receptor-like kinase	46667081	46670026
<i>Zm00001d028797</i>	1	Laccase-13	46672702	46675540
<i>Zm00001d028798</i>	1		46679328	46679813
<i>Zm00001d028799</i>	1		46732004	46733203
<i>Zm00001d028801</i>	1	26S proteasome regulatory subunit 4 homolog A	46819355	46823093
<i>Zm00001d028802</i>	1		46826505	46831989
<i>Zm00001d028803</i>	1	Protein SCAR2	46852702	46858687
<i>Zm00001d028804</i>	1	U2 small nuclear ribonucleoprotein B''	46898667	46903474
<i>Zm00001d028806</i>	1	Sex determination protein tasselseed-2	46955327	46956671
<i>Zm00001d028807</i>	1	40S ribosomal protein S28	46964052	46965897
<i>Zm00001d028808</i>	1	senescence associated gene 20	47025643	47026431
<i>Zm00001d028809</i>	1	PLAC8 family protein	47129751	47131445
<i>zma-MIR164e</i>	1		47137796	47137911
<i>ENSRNA049996753</i>	1		47137796	47137911
<i>Zm00001d028810</i>	1	LL-diaminopimelate aminotransferase chloroplastic	47141802	47151051
<i>Zm00001d028811</i>	1	Xyloglucan 6-xylosyltransferase 2	47152651	47153994
<i>Zm00001d028812</i>	1	zinc finger (MYND type) family protein / programmed cell death 2 C-terminal domain-containing protein	47211776	47217612
<i>Zm00001d028813</i>	1	transducin family protein / WD-40 repeat family protein	47398578	47403781
<i>Zm00001d028814</i>	1	Pathogenesis-related protein 10	47417314	47418300
<i>Zm00001d028815</i>	1	[Source:UniProtKB/TrEMBL;Acc:Q29SB6]	47440048	47441026
<i>Zm00001d028816</i>	1	Pathogenesis-related protein 10	47445913	47446888
<i>Zm00001d028818</i>	1	Calpain-type cysteine protease DEK1	47566046	47589502
<i>Zm00001d028819</i>	1	Probable pectinesterase/pectinesterase inhibitor 58	47589891	47591591
<i>Zm00001d028820</i>	1	Chaperone DnaJ-domain superfamily protein	47593455	47595021
<i>Zm00001d028821</i>	1	F-box domain containing protein	47599969	47601174
<i>Zm00001d028822</i>	1	F-box domain containing protein expressed	47638498	47639724
<i>Zm00001d028823</i>	1	F-box domain containing protein expressed	47656747	47657982
<i>Zm00001d028824</i>	1	Probable galacturonosyltransferase-like 7	47729285	47730406
<i>Zm00001d028825</i>	1	NAD(P)-binding Rossmann-fold superfamily protein	47748642	47754005
<i>Zm00001d028826</i>	1	COBRA-like protein 7	47787874	47789877
<i>Zm00001d028827</i>	1	Exonuclease DPD1 chloroplastic/mitochondrial	47792436	47800509
<i>Zm00001d028828</i>	1	Zinc finger CCCH domain-containing protein 14	47876114	47877953
<i>Zm00001d028829</i>	1	Calmodulin-binding protein 60 G	47880745	47883443
<i>Zm00001d028830</i>	1	P-loop nucleoside triphosphate hydrolases superfamily protein with CH (Calponin Homology) domain	47982359	47988628
<i>Zm00001d028831</i>	1		47989803	47991767
<i>Zm00001d028832</i>	1	Cytochrome P450 711A1	48068503	48082169
<i>Zm00001d028834</i>	1	Peroxisomal biogenesis factor 11 family protein	48128232	48128960

<i>Zm00001d028835</i>	1		48144847	48146062
<i>Zm00001d028836</i>	1		48280481	48281402
<i>Zm00001d028837</i>	1	Anaphase-promoting complex subunit 11	48282040	48282929
<i>Zm00001d028838</i>	1	Long cell-linked locus protein	48287887	48288669
<i>Zm00001d028839</i>	1	Hypersensitive-induced response protein 2	48330999	48331432
<i>Zm00001d028840</i>	1	DUF4378 domain protein	48333284	48337489
<i>Zm00001d028841</i>	1	Calmodulin-binding protein	48337931	48338995
<i>Zm00001d028842</i>	1	pericarp color2	48424617	48430126
<i>Zm00001d028843</i>	1		48430486	48430558
<i>Zm00001d028844</i>	1		48431072	48431144
<i>Zm00001d028845</i>	1	Transcription factor MYB12	48436711	48438133
<i>Zm00001d028847</i>	1		48443120	48443192
<i>Zm00001d028848</i>	1		48443705	48443777
<i>Zm00001d028849</i>	1	Transcription factor MYB12	48449345	48450829
<i>Zm00001d028850</i>	1	Transcription factor MYB12	48576539	48577961
<i>Zm00001d028852</i>	1		48582949	48583021
<i>Zm00001d028853</i>	1		48583534	48583606
<i>Zm00001d028854</i>	1	Transcription factor MYB12	48589178	48597585
<i>Zm00001d028855</i>	1	LL-diaminopimelate aminotransferase chloroplastic	48617654	48623952
<i>Zm00001d028856</i>	1	Retrovirus-related Pol polyprotein LINE-1	48625761	48627434
<i>Zm00001d028859</i>	1		48750838	48751576
<i>Zm00001d028861</i>	1		48754653	48756047
<i>Zm00001d028862</i>	1	Glycine-rich protein family	48853966	48855453
<i>Zm00001d028863</i>	1	BRCT domain-containing protein	48930452	48937928
<i>Zm00001d028865</i>	1	Probable inactive purple acid phosphatase 1	48944708	48945685
<i>Zm00001d028866</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	48956482	48959493
<i>Zm00001d028867</i>	1	cAMP-regulated phosphoprotein 19-related protein	49060954	49063784
<i>Zm00001d028868</i>	1	Acetate/butyrate--CoA ligase AAE7 peroxisomal	49087869	49093033
<i>Zm00001d028870</i>	1	Multidrug resistance protein ABC transporter family protein	49176439	49177083
<i>Zm00001d022723</i>	1		49220428	49221282
<i>Zm00001d028871</i>	1	conserved oligomeric Golgi complex component-related / COG complex component-related	49267598	49268126
<i>Zm00001d028872</i>	1	Tubulin gamma-2 chain	49274472	49276941
<i>Zm00001d028873</i>	1	Outer envelope pore protein 16-2 chloroplastic	49279038	49280540
<i>Zm00001d028874</i>	1	Xyloglucan 6-xylosyltransferase 2	49292250	49293617
<i>Zm00001d028875</i>	1	Lon protease homolog 2 peroxisomal	49355748	49389986
<i>Zm00001d028876</i>	1	agenet domain-containing protein / bromo-adjacent homology (BAH) domain-containing protein	49474188	49475858
<i>Zm00001d028877</i>	1	Cyclin-dependent kinase B1-1	49476900	49477390
<i>Zm00001d028878</i>	1	protein serine/threonine kinases;ATP binding;catalytics	49478393	49479415
<i>Zm00001d028879</i>	1	Ocs element-binding factor 1	49496883	49497413

<i>Zm00001d028880</i>	1	Calvin cycle protein CP12-2 chloroplastic	49535063	49535443
<i>Zm00001d028881</i>	1	Protein STRUBBELIG-RECEPTOR FAMILY 4	49574147	49575303
<i>Zm00001d028882</i>	1	Actin-11	49580985	49583956
<i>Zm00001d028883</i>	1		49585839	49586662
<i>Zm00001d028884</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6K0A4]	49588054	49597158
<i>Zm00001d028885</i>	1		49597329	49601184
<i>Zm00001d028886</i>	1		49605409	49606601
<i>Zm00001d028887</i>	1	nicotianamine synthase9	49660780	49662585
<i>Zm00001d022724</i>	1		49712587	49712849
<i>Zm00001d028888</i>	1	nicotianamine synthase2 Calcium-dependent phosphotriesterase superfamily protein	49731260	49733065
<i>Zm00001d028889</i>	1		49802519	49804621
<i>Zm00001d028890</i>	1	enhancer of zeste3	49809777	49823368
<i>Zm00001d028891</i>	1		49817861	49817932
<i>Zm00001d028892</i>	1		49823723	49823795
<i>Zm00001d028893</i>	1		49848695	49848767
<i>Zm00001d028894</i>	1	Ubiquitin-conjugating enzyme E2 32 ATP-dependent Clp protease proteolytic subunit 5 chloroplastic	49987804	49990811
<i>Zm00001d028895</i>	1		49992905	49996375
<i>Zm00001d028896</i>	1	ARM repeat superfamily protein	50024922	50033603
<i>Zm00001d028898</i>	1	DEAD-box ATP-dependent RNA helicase 24	50140349	50144895
<i>Zm00001d028899</i>	1	Expressed protein; protein	50154301	50154922
<i>Zm00001d028900</i>	1	Expressed protein; protein	50157165	50159027
<i>Zm00001d028901</i>	1	high chlorophyll fluorescence3	50190087	50200187
<i>Zm00001d028902</i>	1	FIP1[III]-like protein	50201483	50230198
<i>Zm00001d028903</i>	1	heme binding	50231399	50235984
<i>Zm00001d028904</i>	1		50355866	50360668
<i>Zm00001d028905</i>	1	Phytochrome B	50443216	50455013
<i>Zm00001d028906</i>	1		50505948	50506710
<i>Zm00001d028907</i>	1	FAD/NAD(P)-binding oxidoreductase family protein	50514018	50524361
<i>Zm00001d028909</i>	1		50719302	50721399
<i>Zm00001d028910</i>	1		50775179	50786550
<i>Zm00001d028912</i>	1	UPF0481 protein	50862352	50863638
<i>Zm00001d022725</i>	1		50880448	50881572
<i>ENSRNA049465834</i>	1	small nucleolar RNA snoR118	50881018	50881102
<i>ENSRNA049465846</i>	1	Small nucleolar RNA R66	50881178	50881251
<i>Zm00001d028915</i>	1	Chloroplast protein HCF243	51076671	51160417
<i>Zm00001d028916</i>	1	Transcription factor bHLH148	51361873	51362499
<i>Zm00001d028917</i>	1		51458918	51459163
<i>Zm00001d028918</i>	1	NADH ubiquinone oxidoreductase1	51462257	51464279
<i>Zm00001d028919</i>	1	AP2-like ethylene-responsive transcription factor AIL5	51465066	51470982

<i>Zm00001d028920</i>	1	Nuclear poly(A) polymerase 3	51491053	51497733
<i>Zm00001d028921</i>	1	L-Aspartase-like family protein	51589142	51593606
<i>Zm00001d028922</i>	1		51602498	51603012
<i>Zm00001d022726</i>	1		51627328	51627885
<i>Zm00001d028923</i>	1	Probable pre-mRNA-splicing factor ATP-dependent RNA helicase DEAH3	51720934	51725330
<i>Zm00001d028924</i>	1	NifU-like protein 1 chloroplastic	51726622	51727890
<i>Zm00001d028925</i>	1		51729487	51730402
<i>Zm00001d028926</i>	1	Alkaline/neutral invertase A mitochondrial	51754552	51764566
<i>Zm00001d022727</i>	1		51760721	51764538
<i>Zm00001d022728</i>	1		51808400	51808624
<i>Zm00001d028928</i>	1	HIT zinc finger ;PAPA-1-like conserved region	51814805	51816926
<i>Zm00001d028929</i>	1		51817955	51820623
<i>Zm00001d028930</i>	1	myb domain protein 112	51839504	51841800
<i>Zm00001d028931</i>	1	galactinol synthase1	51977839	51979551
<i>Zm00001d028935</i>	1	Pentatricopeptide repeat-containing protein	52162848	52164968
<i>Zm00001d028936</i>	1	Transcription factor TGA6	52167612	52173614
<i>Zm00001d022729</i>	1		52201434	52202212
<i>Zm00001d028939</i>	1		52262916	52262988
<i>Zm00001d028940</i>	1		52307094	52307166
<i>Zm00001d028941</i>	1	VQ motif family protein expressed	52310307	52310813
<i>Zm00001d028946</i>	1	SNF1-related protein kinase regulatory subunit beta-1	52499430	52509398
<i>Zm00001d022730</i>	1		52510141	52510834
<i>Zm00001d022731</i>	1		52510143	52510834
<i>Zm00001d028947</i>	1		52515222	52517115
<i>Zm00001d028948</i>	1	Calmodulin-7	52518690	52523101
<i>Zm00001d028949</i>	1	CBL-interacting protein kinase%3B CIPK-like protein 1	52582858	52587987
<i>Zm00001d022732</i>	1		52594009	52594446
<i>Zm00001d028950</i>	1	DUF3148 family protein	52644689	52645454
<i>Zm00001d028951</i>	1	small basic membrane intrinsic protein2a	52645733	52648243
<i>Zm00001d028952</i>	1	Alpha-L-arabinofuranosidase 1 VQ motif family protein	52672158	52680876
<i>Zm00001d028953</i>	1	[Source:UniProtKB/TrEMBL;Acc:B4FFU9]	52749160	52749765
<i>Zm00001d028954</i>	1	Guanylate kinase	52836664	52841244
<i>Zm00001d028955</i>	1	Membrane steroid-binding protein 1	52850182	52853358
<i>Zm00001d028956</i>	1		52851926	52852000
<i>Zm00001d028957</i>	1	F-box protein	52860772	52861856
<i>Zm00001d028958</i>	1	Endoplasmic reticulum vesicle transporter protein	52873169	52879776
<i>Zm00001d028960</i>	1	Expressed protein; protein WRKY55-superfamily of TFs having WRKY and zinc	52938630	52945326
<i>Zm00001d028962</i>	1	finger domains	53030837	53032126
<i>Zm00001d028963</i>	1	14 kDa zinc-binding protein	53142425	53144911



<i>Zm00001d028964</i>	1		53145602	53154854
<i>Zm00001d028965</i>	1	MADS box interactor-like	53169397	53176921
<i>ENSRNA049465819</i>	1	Small nucleolar RNA snoR80	53173961	53174093
<i>ENSRNA049465733</i>	1	Small nucleolar RNA Z157/R69/R10	53174153	53174255
<i>ENSRNA049465791</i>	1	Small nucleolar RNA Z157/R69/R10	53174343	53174437
<i>Zm00001d028966</i>	1	ELMO/CED-12 family protein	53177235	53181012
<i>Zm00001d028967</i>	1	Probable ADP-ribosylation factor GTPase-activating protein AGD14	53183379	53188438
<i>Zm00001d028968</i>	1	Chaperone protein dnaJ 20 chloroplastic	53190337	53190834
<i>Zm00001d028971</i>	1	Mitochondrial import receptor subunit TOM40-1	53292747	53300706
<i>Zm00001d028972</i>	1		53302218	53303096
<i>Zm00001d028973</i>	1	Lipid binding protein	53309064	53309600
<i>Zm00001d028974</i>	1	ethylene insensitive-like3	53368438	53370381
<i>Zm00001d028975</i>	1	NB-ARC domain containing protein expressed; protein	53393407	53405238
<i>Zm00001d028976</i>	1		53415528	53416657
<i>Zm00001d028977</i>	1		53417301	53424648
<i>Zm00001d028980</i>	1	Exostosin family protein	53451859	53454849
<i>Zm00001d028981</i>	1	Uncharacterised conserved protein UCP022280	53456181	53461952
<i>Zm00001d028982</i>	1	RING/U-box superfamily protein	53462144	53462362
<i>Zm00001d028983</i>	1	Pyruvate kinase family protein	53462988	53463885
<i>Zm00001d028984</i>	1	Myb-related protein 2	53531029	53533986
<i>Zm00001d028986</i>	1	WUSCHEL-related homeobox 11	53579645	53583324
<i>Zm00001d028987</i>	1	Phospholipid-transporting ATPase 1	53748822	53754082
<i>Zm00001d028988</i>	1	Phospholipid-transporting ATPase 1	53759429	53763250
<i>Zm00001d028989</i>	1	RING/U-box superfamily protein	53771917	53776759
<i>Zm00001d022733</i>	1		53871968	53872373
<i>Zm00001d028992</i>	1	Thioredoxin-like 1-1 chloroplastic U11/U12 small nuclear ribonucleoprotein 65 kDa protein	53883358	53885907
<i>Zm00001d028994</i>	1		53953064	53959267
<i>Zm00001d028995</i>	1	Arabidopsis NAC domain containing protein 87	54034211	54036320
<i>Zm00001d028996</i>	1	Transducin/WD40 repeat-like superfamily protein	54038696	54044869
<i>Zm00001d028998</i>	1	hydroxyproline-rich glycoprotein family protein	54251798	54253443
<i>Zm00001d028999</i>	1	NAC domain containing protein 47	54263185	54265683
<i>Zm00001d029000</i>	1		54290649	54293013
<i>Zm00001d022734</i>	1		54294914	54295551
<i>Zm00001d029002</i>	1	Alba DNA/RNA-binding protein	54346520	54348605
<i>Zm00001d029003</i>	1		54370590	54371111
<i>Zm00001d029004</i>	1	Guanine nucleotide exchange factor SPIKE 1	54451904	54484683
<i>Zm00001d029008</i>	1	O-fucosyltransferase family protein	54577150	54580933
<i>Zm00001d029009</i>	1	Apyrase 1	54624061	54639249
<i>Zm00001d029010</i>	1	Zinc finger CCCH domain-containing protein 46	54753176	54756798

<i>Zm00001d029011</i>	1	Endoglucanase 25	54822256	54826599
<i>Zm00001d029012</i>	1	Leucine-rich repeat protein kinase family protein	54928187	54933748
<i>Zm00001d029014</i>	1	Probable dolichyl pyrophosphate Man9GlcNAc2 alpha-13-glucosyltransferase	54937514	54940747
<i>Zm00001d029015</i>	1	Phenylalanine ammonia-lyase 1	54941440	54943661
<i>Zm00001d022735</i>	1		54946258	54946889
<i>Zm00001d029017</i>	1	ABC transporter B family member 27	55037495	55038870
<i>Zm00001d029018</i>	1	Calcium-dependent protein kinase 7	55041075	55043628
<i>Zm00001d029020</i>	1	Protein PHOSPHATE STARVATION RESPONSE 1	55053507	55060129
<i>Zm00001d029023</i>	1	Probable galacturonosyltransferase 7	55108882	55115021
<i>Zm00001d029024</i>	1		55175533	55175609
<i>Zm00001d022736</i>	1		55175834	55177263
<i>Zm00001d029025</i>	1	23-bisphosphoglycerate-independent phosphoglycerate mutase 1	55178515	55181462
<i>Zm00001d029027</i>	1	ycf54 homolog	55241838	55244510
<i>Zm00001d029028</i>	1	Calcium-binding protein CML42	55246805	55247371
<i>Zm00001d029030</i>	1	Yos1-like protein	55369898	55371351
<i>Zm00001d029031</i>	1	Cytochrome P450 CYP714B3	55371816	55378351
<i>Zm00001d029033</i>	1	18S pre-ribosomal assembly protein gar2-related	55450359	55453794
<i>Zm00001d029034</i>	1	ABC transporter B family member 25 mitochondrial	55454318	55483990
<i>Zm00001d029035</i>	1	DNA-binding bromodomain-containing protein	55558413	55560877
<i>Zm00001d029036</i>	1	Hydroxyacylglutathione hydrolase cytoplasmic	55560773	55565406
<i>Zm00001d029038</i>	1	HAD superfamily subfamily IIIB acid phosphatase	55696857	55698513
<i>Zm00001d029039</i>	1	ABC transporter I family member 6 chloroplastic	55700209	55704962
<i>Zm00001d022737</i>	1		55706671	55707810
<i>Zm00001d029040</i>	1	Probable inactive receptor kinase	55709486	55715009
<i>Zm00001d029041</i>	1	Mitochondrial ATP synthase D chain-related protein	55779845	55785436
<i>Zm00001d029042</i>	1		55793069	55793605
<i>Zm00001d029044</i>	1	ABC transporter E family member 2	55927611	55936044
<i>Zm00001d029045</i>	1		55934926	55934997
<i>Zm00001d029046</i>	1	P-loop containing nucleoside triphosphate hydrolases superfamily protein	56029931	56037966
<i>Zm00001d029047</i>	1	Receptor-like protein kinase FERONIA	56040100	56042760
<i>Zm00001d029048</i>	1	Eukaryotic translation initiation factor 2 beta subunit	56094245	56104240
<i>Zm00001d029049</i>	1	Photosystem II repair protein PSB27-H1 chloroplastic	56106212	56106724
<i>Zm00001d029050</i>	1	Serine/threonine-protein kinase AtPK1/AtPK6	56107554	56110129
<i>Zm00001d022738</i>	1		56111082	56111919
<i>Zm00001d022739</i>	1		56111082	56112002
<i>Zm00001d029051</i>	1	Expressed protein; protein	56143995	56146719
<i>Zm00001d029052</i>	1		56147717	56148196
<i>Zm00001d029053</i>	1	Lung seven transmembrane receptor family protein	56214309	56220473
<i>Zm00001d022740</i>	1		56214362	56215304

<i>Zm00001d029055</i>	1	DNA-directed RNA polymerase I subunit 1	56383258	56404978
<i>Zm00001d029056</i>	1	Vacuolar-sorting receptor 1	56681471	56700079
<i>Zm00001d029057</i>	1		56682667	56682740
<i>ENSRNA049465879</i>	1	Eukaryotic small subunit ribosomal RNA	56683616	56683989
<i>Zm00001d029059</i>	1	Probable LRR receptor-like serine/threonine-protein kinase IRK	56743156	56747187
<i>Zm00001d029060</i>	1	65-kDa microtubule-associated protein 3	56811457	56816453
<i>Zm00001d029061</i>	1	PPR containing plant-like protein	56853854	56855533
<i>Zm00001d029062</i>	1	Vicilin-like seed storage protein	56855736	56858177
<i>Zm00001d029063</i>	1		56908508	56908583
<i>Zm00001d029064</i>	1	basic leucine-zipper 52	56911430	56916805
<i>Zm00001d029065</i>	1	Protein LRP16	56919001	56921369
<i>Zm00001d029066</i>	1	PAP/OAS1 substrate-binding domain superfamily	56975151	56982711
<i>Zm00001d029067</i>	1	Plant-specific domain TIGR01568 family protein	56999172	57000011
<i>Zm00001d029068</i>	1		57002520	57002592
<i>Zm00001d029071</i>	1		57045275	57045843
<i>Zm00001d029072</i>	1	Potassium transporter 2	57132195	57138858
<i>Zm00001d029074</i>	1	Uroporphyrinogen decarboxylase 2 chloroplastic	57250815	57254236
<i>Zm00001d029075</i>	1	CBL-interacting serine/threonine-protein kinase 10	57258183	57259499
<i>Zm00001d029076</i>	1		57260575	57260656
<i>ENSRNA049437881</i>	1	tRNA-Ser for anticodon UGA	57260575	57260656
<i>Zm00001d029077</i>	1	Putative tRNA pseudouridine synthase	57261612	57266206
<i>Zm00001d029078</i>	1	DNA binding protein		
<i>Zm00001d029079</i>	1	[Source:UniProtKB/TrEMBL;Acc:B4FLH1]	57267805	57269655
<i>Zm00001d029080</i>	1		57298087	57298659
<i>Zm00001d029081</i>	1		57300175	57301834
<i>Zm00001d029082</i>	1	Protein VAC14 homolog	57327630	57330297
<i>Zm00001d029083</i>	1		57390542	57390612
<i>Zm00001d029084</i>	1	alanine--glyoxylate aminotransferase1	57394910	57397707
<i>Zm00001d029085</i>	1	Fumarate hydratase 1 mitochondrial	57446546	57452595
<i>Zm00001d029086</i>	1	Probable phospholipid hydroperoxide glutathione peroxidase 6 mitochondrial	57453167	57455529
<i>Zm00001d029087</i>	1	RING-H2 finger protein ATL3	57456663	57457157
<i>Zm00001d029088</i>	1	Sucrose synthase 3	57457546	57464810
<i>Zm00001d029089</i>	1	Fumarate hydratase 1 mitochondrial	57477723	57481205
<i>Zm00001d029090</i>	1	Probable phospholipid hydroperoxide glutathione peroxidase 6 mitochondrial	57482407	57483912
<i>Zm00001d029091</i>	1	RING-H2 finger protein ATL3	57485063	57485572
<i>Zm00001d029092</i>	1	sucrose synthase2	57485976	57493258
<i>Zm00001d029093</i>	1	Tubby-like F-box protein 3	57580538	57582365
<i>Zm00001d029094</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	57594777	57598573
<i>Zm00001d029094</i>	1		57596952	57597961

<i>Zm00001d029095</i>	1	Putative GTP diphosphokinase RSH1 chloroplastic	57648248	57697308
<i>Zm00001d029096</i>	1		57821697	57828028
<i>Zm00001d029098</i>	1	sugars will eventually be exported transporter16	57988733	57991597
<i>Zm00001d029099</i>	1		58011744	58012791
<i>Zm00001d029100</i>	1		58018569	58018889
<i>Zm00001d029101</i>	1		58046732	58047412
<i>Zm00001d029102</i>	1	Dormancy-associated protein homolog 3	58055249	58057968
<i>Zm00001d029103</i>	1	4-alpha-glucanotransferase DPE2	58170770	58174845
<i>Zm00001d029104</i>	1	U3 ribonucleoprotein (Utp) family protein	58176945	58182237
<i>Zm00001d029105</i>	1	Blue-light photoreceptor PHR2	58197901	58201581
<i>Zm00001d029106</i>	1	Peter Pan-like protein	58272364	58278067
<i>Zm00001d029107</i>	1	Expressed protein; protein	58280350	58280825
<i>Zm00001d029108</i>	1	Protein STRICTOSIDINE SYNTHASE-LIKE 11	58286021	58287044
<i>Zm00001d029109</i>	1		58299205	58299618
<i>Zm00001d029111</i>	1	Protein STRICTOSIDINE SYNTHASE-LIKE 11	58366033	58367049
<i>Zm00001d029112</i>	1		58369553	58369966
<i>Zm00001d029114</i>	1		58377787	58380792
<i>Zm00001d029115</i>	1	Protein STRICTOSIDINE SYNTHASE-LIKE 11	58439847	58440551
<i>Zm00001d029117</i>	1	Protein STRICTOSIDINE SYNTHASE-LIKE 11	58531960	58532976
<i>Zm00001d029118</i>	1	Sentrin-specific protease 2	58534876	58540001
<i>Zm00001d029119</i>	1	Protein LURP-one-related 2	58589788	58590988
<i>Zm00001d022741</i>	1		58638624	58639086
<i>Zm00001d029120</i>	1	AAA-type ATPase family protein	58742447	58753879
<i>Zm00001d029121</i>	1	ATP-dependent Clp protease proteolytic subunit	58944824	58953954
<i>Zm00001d029122</i>	1	Rapid ALkalinization Factor family protein	59021967	59022404
<i>Zm00001d029123</i>	1	cell cycle checkpoint control protein family	59023014	59027798
<i>Zm00001d029124</i>	1	40S ribosomal protein S21	59028004	59030626
<i>Zm00001d029125</i>	1	Desiccation-related protein PCC13-62	59070431	59071868
<i>Zm00001d029126</i>	1	Heavy metal transport/detoxification superfamily protein	59132630	59134681
<i>Zm00001d022742</i>	1		59163339	59164014
<i>Zm00001d029127</i>	1	Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG3	59251440	59254298
<i>Zm00001d029129</i>	1	Metal tolerance protein C1	59406804	59421124
<i>Zm00001d029130</i>	1		59439362	59445017
<i>Zm00001d029132</i>	1		59750279	59754277
<i>Zm00001d029133</i>	1	Nuclear cap-binding protein subunit 1	59759933	59786192
<i>Zm00001d029134</i>	1	CW-type Zinc Finger	59846904	59876808
<i>Zm00001d029135</i>	1	sugars will eventually be exported transporter12a	59948045	59951123
<i>Zm00001d029136</i>	1	Triacylglycerol lipase SDP1	60086049	60093428
<i>Zm00001d029137</i>	1	protein kinase family protein / WD-40 repeat family protein	60112886	60116740

<i>Zm00001d029138</i>	1	Peptidyl-tRNA hydrolase mitochondrial	60182624	60186722
<i>Zm00001d029139</i>	1	Alpha-humulene/(-)-(E)-beta-caryophyllene synthase	60187028	60190201
<i>Zm00001d029140</i>	1	alpha/beta-Hydrolases superfamily protein	60225658	60228992
<i>Zm00001d029141</i>	1	E3 ubiquitin-protein ligase MIEL1	60322950	60326019
<i>Zm00001d029142</i>	1	Nuclear pore complex protein NUP93A	60327258	60337774
<i>Zm00001d029143</i>	1	Transposon protein	60338845	60344732
<i>Zm00001d029144</i>	1	Probable nucleolar protein 5-1	60427117	60431202
<i>Zm00001d029145</i>	1		60435035	60435518
		ATP-dependent DNA helicase		
<i>Zm00001d029146</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6K333]	60474438	60478310
<i>Zm00001d029147</i>	1	DNA binding protein	60479076	60480055
<i>Zm00001d029148</i>	1		60520942	60525017
<i>Zm00001d029149</i>	1	Zinc finger protein CONSTANS-LIKE 13	60531179	60535397
<i>Zm00001d029150</i>	1	divinyl reductase1	60631458	60632663
<i>Zm00001d029151</i>	1	UDP-glucose 4-epimerase 4	60743343	60747986
<i>Zm00001d029152</i>	1	DNA mismatch repair protein MSH2	60781649	60788101
<i>Zm00001d029153</i>	1		60783846	60784154
<i>Zm00001d029154</i>	1	Inactive beta-amylase 9	60796734	60798703
<i>Zm00001d029155</i>	1		60830426	60831991
		ATP-dependent DNA helicase		
<i>Zm00001d029157</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6K347]	60838632	60844331
<i>Zm00001d029160</i>	1	Tetratricopeptide repeat-like superfamily protein	60845498	60862194
<i>Zm00001d029159</i>	1		60850838	60857331
<i>Zm00001d029161</i>	1		60862510	60868940
		Probable N-acetyl-gamma-glutamyl-phosphate reductase chloroplastic		
<i>Zm00001d029162</i>	1		60868086	60868896
<i>Zm00001d029163</i>	1	Calcium-dependent protein kinase 7	60869629	60871045
<i>Zm00001d029164</i>	1	Beta-amylase	60874573	60876557
<i>Zm00001d029165</i>	1	Tubby protein	60879438	60888390
<i>Zm00001d029166</i>	1		60890788	60890860
<i>Zm00001d029167</i>	1		60891455	60891524
<i>Zm00001d029168</i>	1	Retrotransposon-like protein	60919076	60923232
<i>Zm00001d029169</i>	1		60926351	60927317
<i>Zm00001d029170</i>	1	Superoxide dismutase	60930751	60934311
<i>Zm00001d029171</i>	1		60934860	60934931
<i>ENSRNA049437912</i>	1	tRNA-Pro for anticodon UGG	60934860	60934931
<i>Zm00001d029172</i>	1		60939357	60939878
		Nascent polypeptide-associated complex alpha subunit-like protein		
<i>Zm00001d029173</i>	1		60948835	60951140
<i>Zm00001d029174</i>	1	homolog of nucleolar protein NOP56	60996905	60999925
<i>Zm00001d029176</i>	1	Ribosomal protein L15	61005081	61007689
<i>Zm00001d029177</i>	1	Nuclear/nucleolar GTPase 2	61041496	61045956

<i>Zm00001d029179</i>	1	Aspartokinase 1 chloroplastic	61191144	61192225
<i>Zm00001d029180</i>	1	DNA helicase INO80	61214711	61233546
<i>Zm00001d029181</i>	1		61371988	61377181
<i>Zm00001d029182</i>	1		61372614	61372685
<i>Zm00001d022743</i>	1		61413606	61414242
<i>Zm00001d022744</i>	1		61443299	61443543
<i>Zm00001d029183</i>	1	cytochrome P450 family 81 subfamily D polypeptide 8	61469815	61472476
<i>Zm00001d029184</i>	1	Cytochrome P450 71A26	61494251	61495965
<i>Zm00001d029185</i>	1		61532067	61532456
<i>Zm00001d029188</i>	1	COMPASS-like H3K4 histone methylase component WDR5B	61566224	61570528
<i>Zm00001d029189</i>	1	R3H domain protein	61571718	61574795
<i>Zm00001d029190</i>	1	Very-long-chain 3-oxoacyl-CoA reductase-like protein	61638930	61642292
<i>Zm00001d029191</i>	1	Monocopper oxidase-like protein SKU5	61642456	61663754
<i>Zm00001d029192</i>	1		61646122	61648831
<i>Zm00001d029193</i>	1	SKU5 similar 3	61664668	61668706
<i>Zm00001d029194</i>	1	cytochrome P450 family 81 subfamily D polypeptide 8	61729759	61733298
<i>Zm00001d029195</i>	1	terpene synthase8	61777103	61783441
<i>Zm00001d029196</i>	1	Beta-adaptin-like protein C	61783914	61789718
<i>Zm00001d029197</i>	1	IQ-domain 11	61898636	61901310
<i>Zm00001d029198</i>	1	Probable diphthine methyl ester synthase Pentatricopeptide repeat-containing protein	61904101	61906749
<i>Zm00001d029199</i>	1	mitochondrial	61907040	61908810
<i>Zm00001d029200</i>	1	NAD(P)-binding Rossmann-fold superfamily protein	62026473	62031559
<i>ENSRNA049473644</i>	1	Eukaryotic small subunit ribosomal RNA	62029155	62029637
<i>Zm00001d029201</i>	1	50S ribosomal protein L6	62065593	62069082
<i>Zm00001d029202</i>	1	Electron transporter	62213773	62214369
<i>Zm00001d029203</i>	1	TRAF-like superfamily protein	62216791	62220497
<i>Zm00001d029205</i>	1		62293811	62296945
<i>Zm00001d022745</i>	1		62295510	62296596
<i>Zm00001d029206</i>	1	Protein DGS1 mitochondrial	62408710	62417139
<i>Zm00001d029207</i>	1	Annexin-like protein RJ4 Haloacid dehalogenase-like hydrolase (HAD)	62417036	62418643
<i>Zm00001d029208</i>	1	superfamily protein	62419477	62427352
<i>Zm00001d022746</i>	1		62429321	62430088
<i>Zm00001d029209</i>	1	Phosphatidylinositol 4-phosphate 5-kinase 6	62462278	62466731
<i>Zm00001d029211</i>	1	Phosphatidylinositol 4-phosphate 5-kinase 6	62490387	62493912
<i>Zm00001d029212</i>	1	Rho GTPase activator	62494272	62507307
<i>Zm00001d029213</i>	1		62508254	62508327
<i>Zm00001d029214</i>	1	TRAF type zinc finger domain containing 1	62510497	62516067
<i>Zm00001d029215</i>	1	Villin-2	62728602	62739088
<i>Zm00001d029216</i>	1	Retrovirus-related Pol polyprotein LINE-1	62739706	62742756

<i>Zm00001d029217</i>	1	Probable F-box protein At1g60180	62743193	62743990
<i>Zm00001d029218</i>	1	Protein SRG1	62747068	62748525
<i>Zm00001d029219</i>	1		62802348	62804400
<i>Zm00001d022747</i>	1		62821183	62821762
<i>Zm00001d029222</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	63023725	63024489
<i>Zm00001d029223</i>	1	Protein HUA2-LIKE 3	63025344	63042076
<i>Zm00001d029224</i>	1		63043367	63044286
<i>Zm00001d029226</i>	1	Rhomboid-like protein 19	63127214	63131372
<i>Zm00001d029227</i>	1	alpha/beta-Hydrolases superfamily protein	63131993	63142494
<i>Zm00001d029228</i>	1	DUF2431 domain protein	63142997	63153057
<i>Zm00001d029229</i>	1	2-hydroxyacyl-CoA lyase	63204439	63204717
<i>Zm00001d029230</i>	1		63208323	63209490
<i>Zm00001d029231</i>	1	Aminotransferase%2C class IV family protein	63222181	63234373
<i>Zm00001d029232</i>	1	Phospholipase A1-IIgamma	63237376	63240402
<i>Zm00001d029233</i>	1		63272548	63273003
<i>Zm00001d029234</i>	1	Protein Mo25	63275727	63280169
<i>Zm00001d029235</i>	1	Probable galacturonosyltransferase-like 4	63282987	63283952
<i>Zm00001d029237</i>	1	Probable low-specificity L-threonine aldolase 1	63318026	63324928
<i>Zm00001d029238</i>	1	Peptide methionine sulfoxide reductase B5	63325315	63328026
<i>Zm00001d029241</i>	1	Flavonoid 3-monooxygenase Mitochondrial transcription termination factor family protein	63372703	63375212
<i>Zm00001d029242</i>	1		63479560	63480471
<i>Zm00001d029243</i>	1	Cytochrome P450 84A1	63574227	63576200
<i>Zm00001d029246</i>	1	ARM repeat superfamily protein	63586080	63588689
<i>Zm00001d029247</i>	1	ARM repeat superfamily protein	63590574	63593240
<i>Zm00001d029248</i>	1		63708680	63711620
<i>Zm00001d029249</i>	1	protein; Uncharacterised protein family containing protein expressed Succinate dehydrogenase [ubiquinone] flavoprotein subunit 1 mitochondrial	63744994	63752712
<i>Zm00001d029250</i>	1		63811849	63813987
<i>Zm00001d029251</i>	1		63834316	63858602
<i>Zm00001d029252</i>	1	Gibberellin receptor GID1	63839696	63841358
<i>Zm00001d022748</i>	1		63844652	63844903
<i>Zm00001d029254</i>	1	Solute carrier family 2%2C facilitated glucose transporter member 8	63859845	63864152
<i>Zm00001d029255</i>	1	Transferase%2C transferring glycosyl groups	63865739	63867379
<i>Zm00001d029256</i>	1	Serine/arginine-rich SC35-like splicing factor SCL28	63867544	63873593
<i>Zm00001d029257</i>	1		63916533	63917166
<i>Zm00001d029258</i>	1	Protein kinase superfamily protein	63928318	63930254
<i>Zm00001d029260</i>	1	Stomatal closure-related actin-binding protein 1	63980014	63987394
<i>Zm00001d029261</i>	1		63991060	63992707
<i>Zm00001d029262</i>	1		63994352	63994867

<i>Zm00001d029263</i>	1	Chaperonin	64042656	64045687
<i>Zm00001d029264</i>	1	CDPK-related kinase 1	64207240	64216522
<i>Zm00001d022749</i>	1		64300662	64300922
<i>Zm00001d029266</i>	1	calcium ion binding	64354033	64357203
<i>Zm00001d029269</i>	1	Probable protein phosphatase 2C 33	64402662	64402988
<i>Zm00001d029270</i>	1	Heat stress transcription factor B-4	64404103	64407052
<i>Zm00001d022750</i>	1		64408770	64409657
<i>Zm00001d022751</i>	1		64409734	64410048
<i>Zm00001d029272</i>	1	Peptidyl-prolyl cis-trans isomerase PASTICCINO1	64438231	64479765
<i>Zm00001d029273</i>	1		64441511	64441582
<i>Zm00001d022752</i>	1		64473692	64473923
<i>Zm00001d029274</i>	1	guaiacol peroxidase2	64514340	64515829
<i>Zm00001d029275</i>	1		64547788	64549191
<i>Zm00001d029279</i>	1	Peroxidase 64	64616235	64617629
<i>Zm00001d029280</i>	1	Peroxidase 64	64685464	64686836
<i>Zm00001d029281</i>	1	Novel plant SNARE 13	64728727	64735149
<i>Zm00001d029283</i>	1		64766283	64766363
<i>Zm00001d029285</i>	1	pyruvate dehydrogenase (lipoamide) kinase1	64841576	64846984
<i>Zm00001d029286</i>	1	Putative endonuclease or glycosyl hydrolase	64849409	64853265
<i>Zm00001d029287</i>	1	Probable transcription factor	64853687	64854838
<i>Zm00001d029288</i>	1	Cytochrome P450 709B2	64856366	64858852
<i>Zm00001d029289</i>	1	Cytochrome P450 709B2	64917056	64919569
<i>Zm00001d029290</i>	1	Cytochrome P450 CYP709H1	64986056	64988212
<i>Zm00001d029293</i>	1	MYB-transcription factor 156	65078005	65079230
<i>Zm00001d029295</i>	1	Actin-interacting protein 1-2	65240611	65246632
<i>Zm00001d029297</i>	1	Protein phosphatase 2C 32	65308658	65317095
<i>ENSRNA049473609</i>	1	U5 spliceosomal RNA	65317414	65317534
<i>Zm00001d029299</i>	1		65437607	65438264
<i>Zm00001d029300</i>	1	Low temperature viability protein	65439370	65443562
<i>Zm00001d029301</i>	1		65444404	65444811
		CONTAINS InterPro DOMAIN/s: Hepatocellular carcinoma-associated antigen 59 (InterPro:IPR010756); Has 1239 Blast hits to 998 proteins in 204 species: Archae - 4; Bacteria - 71; Metazoa - 421; Fungi - 109; Plants - 87; Viruses - 5; Other Eukaryotes - /.../ource:		
<i>Zm00001d029303</i>	1	NCBI BLink).	65496452	65501448
<i>Zm00001d029304</i>	1		65503148	65504147
<i>ENSRNA049473557</i>	1	U5 spliceosomal RNA	65544652	65544770
<i>Zm00001d029305</i>	1	Serine/arginine-rich SC35-like splicing factor SCL33	65548177	65549507
<i>Zm00001d029307</i>	1	Triosephosphate isomerase cytosolic	65560691	65565363
<i>Zm00001d029309</i>	1	Cellulose synthase-like protein E1	65571539	65572515
<i>Zm00001d029310</i>	1		65573598	65574338



<i>Zm00001d029311</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6K474]	65576254	65581117
<i>Zm00001d029312</i>	1		65584782	65586417
<i>Zm00001d029313</i>	1	PLASMODESMATA CALLOSE-BINDING PROTEIN 5	65609791	65618895
<i>Zm00001d029314</i>	1	Cationic amino acid transporter	65618909	65621774
<i>Zm00001d029316</i>	1	Succinate dehydrogenase [ubiquinone] flavoprotein subunit 1 mitochondrial	65770171	65774414
<i>Zm00001d029318</i>	1	Probable polyamine transporter	65782144	65786175
<i>Zm00001d029319</i>	1	Probable polyamine transporter	65850139	65850589
<i>Zm00001d029320</i>	1	Probable polyamine transporter	65851496	65852431
<i>Zm00001d029321</i>	1	Cationic amino acid transporter	65854876	65856973
<i>Zm00001d022753</i>	1		65858515	65858921
<i>Zm00001d029324</i>	1	Cystathionine gamma-synthase 1 chloroplastic	65941276	65945017
<i>Zm00001d029325</i>	1	RNA-binding protein CP29B chloroplastic	65991013	65992879
<i>Zm00001d029328</i>	1	RNA-binding KH domain-containing protein	66120056	66126500
<i>Zm00001d029329</i>	1	Polypyrimidine tract-binding protein homolog 1	66242685	66248638
<i>Zm00001d029330</i>	1		66249983	66251264
<i>Zm00001d029331</i>	1	Probable apyrase 5	66251597	66255370
<i>Zm00001d029332</i>	1		66255544	66255624
<i>Zm00001d022754</i>	1		66255869	66256060
<i>Zm00001d029333</i>	1	transferases transferring acyl groups	66318625	66337105
<i>Zm00001d029336</i>	1	Probable methyltransferase PMT2	66388200	66393060
<i>ENSRNA049473656</i>	1	U2 spliceosomal RNA	66394099	66394295
<i>Zm00001d029337</i>	1	ATP binding protein	66484843	66507855
<i>Zm00001d029338</i>	1	LYR motif-containing protein 7 isoform 2	66511144	66511773
<i>ENSRNA049473651</i>	1	U2 spliceosomal RNA	66512570	66512766
<i>Zm00001d029339</i>	1	Transcription factor bHLH47	66569893	66572838
<i>Zm00001d029340</i>	1	40S ribosomal protein S9-2	66592542	66594846
<i>ENSRNA049473622</i>	1	Small nucleolar RNA Z161/Z228	66593801	66593888
<i>ENSRNA049473638</i>	1	Small nucleolar RNA Z162	66593987	66594074
<i>Zm00001d029341</i>	1	Aldose 1-epimerase	66635784	66637299
<i>Zm00001d029342</i>	1	tRNA pseudouridine synthase	66637359	66648456
<i>Zm00001d029343</i>	1	Probable F-actin-capping protein subunit beta	66648726	66655094
<i>Zm00001d029347</i>	1		66823546	66828069
<i>Zm00001d029348</i>	1	Thioredoxin superfamily protein	66840608	66841749
<i>Zm00001d029349</i>	1		66851917	66852891
<i>Zm00001d029350</i>	1	3-ketoacyl-CoA synthase	66934947	66936356
<i>Zm00001d029351</i>	1		67038124	67038195
<i>ENSRNA049439822</i>	1	tRNA-Trp for anticodon CCA	67038124	67038195
<i>Zm00001d029352</i>	1	SAP domain-containing protein	67038607	67043886
<i>Zm00001d029353</i>	1	benzoxazinone synthesis12	67108827	67116860

<i>Zm00001d029354</i>	1		67215649	67217627
<i>Zm00001d029356</i>	1	benzoxazinone synthesis11	67228813	67231314
<i>Zm00001d029357</i>	1	AT3G23300 (E=2e-039)   dehydration-responsive protein-related	67296852	67298387
<i>Zm00001d029358</i>	1		67299416	67300911
<i>Zm00001d029359</i>	1	benzoxazinone synthesis10	67311965	67314047
<i>ENSRNA049473576</i>	1	U2 spliceosomal RNA	67351838	67352015
<i>Zm00001d029360</i>	1	Granule-bound starch synthase 1 chloroplastic/amyloplastic	67387447	67389052
<i>Zm00001d029361</i>	1		67435966	67442277
<i>Zm00001d029362</i>	1	Putative fucosyltransferase-like protein	67484553	67485505
<i>Zm00001d029365</i>	1	Non-specific lipid transfer protein-like 1	67595337	67598412
<i>Zm00001d029366</i>	1	Transducin/WD40 repeat-like superfamily protein	67604993	67609141
<i>Zm00001d029368</i>	1		67790673	67790751
<i>Zm00001d029370</i>	1		67914815	67915561
<i>Zm00001d029371</i>	1	Probable trehalose-phosphate phosphatase J	67927389	67929661
<i>Zm00001d029372</i>	1	Serine carboxypeptidase-like 40	67961562	67965995
<i>Zm00001d029373</i>	1	Serine carboxypeptidase-like 40	67969019	67973213
<i>Zm00001d029374</i>	1		67973762	67976455
<i>Zm00001d029375</i>	1	P-loop containing nucleoside triphosphate hydrolases superfamily protein	68088360	68098674
<i>Zm00001d029376</i>	1		68217683	68221562
<i>Zm00001d029377</i>	1		68224611	68226753
<i>Zm00001d029378</i>	1	Protein LNK1	68244474	68250776
<i>Zm00001d029380</i>	1	Splicing factor%2C arginine/serine-rich 2	68392423	68396629
<i>Zm00001d029383</i>	1	WAT1-related protein	68460719	68463139
<i>Zm00001d029384</i>	1	Cytochrome P450 709B2	68513622	68514446
<i>Zm00001d029385</i>	1	AAA-type ATPase family protein	68534055	68537475
<i>Zm00001d029386</i>	1	alpha/beta-Hydrolases superfamily protein	68537971	68540134
<i>Zm00001d029387</i>	1	LOL3	68548473	68551087
<i>Zm00001d029388</i>	1	Metacaspase-3	68566168	68567926
<i>Zm00001d029389</i>	1	LOL3	68587963	68589883
<i>Zm00001d029390</i>	1		68592325	68597747
<i>Zm00001d029391</i>	1	Phospho-2-dehydro-3-deoxyheptonate aldolase 2 chloroplastic	68665582	68667909
<i>Zm00001d029392</i>	1	F-box protein	68668722	68675980
<i>Zm00001d029393</i>	1	Cytochrome c oxidase subunit 6b-1	68678959	68683422
<i>Zm00001d029394</i>	1	Histone H3	68805980	68808399
<i>Zm00001d029395</i>	1	E3 ubiquitin-protein ligase ATL6	68809509	68810660
<i>Zm00001d029396</i>	1	Os10g0351100 protein	68890355	68892811
<i>Zm00001d029397</i>	1	phospholipase D7	68934359	68938239
<i>Zm00001d029398</i>	1	Serine/threonine-protein kinase PEPKR2	68946232	68947409

<i>Zm00001d029400</i>	1	Vesicle transport v-SNARE 12	69009947	69012985
<i>Zm00001d029402</i>	1	conserved peptide upstream open reading frame 37	69015049	69017291
<i>Zm00001d029403</i>	1		69022007	69025666
<i>Zm00001d029404</i>	1		69028562	69029245
<i>Zm00001d029405</i>	1		69140860	69141753
<i>Zm00001d029406</i>	1		69142291	69142700
<i>Zm00001d022755</i>	1		69161921	69162354
<i>Zm00001d029407</i>	1	Cyclin-D2-1	69168608	69171384
<i>Zm00001d029408</i>	1	GTP-binding protein 1	69295860	69299198
<i>Zm00001d029409</i>	1	Chaperone DnaJ-domain superfamily protein	69302141	69303331
<i>Zm00001d029410</i>	1	Serine carboxypeptidase-like 51	69320905	69324756
<i>Zm00001d029412</i>	1	Patatin-like protein 2	69428973	69430785
<i>Zm00001d029413</i>	1	phosphoglycerate/bisphosphoglycerate mutase	69507214	69508484
<i>Zm00001d022756</i>	1		69511674	69512922
<i>Zm00001d029415</i>	1	2-isopropylmalate synthase 1 chloroplastic	69604756	69609617
<i>Zm00001d029416</i>	1	Probable acetyl-CoA acetyltransferase cytosolic 2 P-loop containing nucleoside triphosphate hydrolases superfamily protein	69619304	69624861
<i>Zm00001d029417</i>	1		69624781	69628628
<i>Zm00001d029418</i>	1	Ribosomal protein L37	69732293	69734824
<i>ENSRNA049473589</i>	1	Small nucleolar RNA Z199	69733235	69733315
<i>ENSRNA049473603</i>	1	Small nucleolar RNA R64/Z200 family	69733783	69733878
<i>Zm00001d029419</i>	1	Probable protein phosphatase 2C 12 Protein WEAK CHLOROPLAST MOVEMENT UNDER BLUE LIGHT 1	69743529	69747782
<i>Zm00001d029420</i>	1		69749777	69753725
<i>Zm00001d029422</i>	1		69844292	69855894
<i>Zm00001d029424</i>	1		69909438	69910768
<i>Zm00001d029425</i>	1		69918378	69918448
<i>Zm00001d029426</i>	1	Splicing factor arginine/serine-rich	70063291	70069406
<i>Zm00001d029427</i>	1		70117826	70118962
<i>Zm00001d029428</i>	1	Putative pentatricopeptide repeat-containing protein mitochondrial S-adenosyl-L-methionine-dependent methyltransferases superfamily protein	70124289	70126529
<i>Zm00001d029429</i>	1		70211480	70219160
<i>Zm00001d029430</i>	1		70218082	70218153
<i>Zm00001d029431</i>	1		70220796	70221773
<i>Zm00001d029432</i>	1	Vacuolar cation/proton exchanger 2	70227975	70231727
<i>Zm00001d029435</i>	1	Transducin/WD40 repeat-like superfamily protein	70296564	70298312
<i>Zm00001d029437</i>	1	PLATZ transcription factor family protein	70442356	70448204
<i>Zm00001d029438</i>	1	RING-H2 finger protein ATL3	70501931	70502683
<i>Zm00001d029441</i>	1	Probable pectinesterase/pectinesterase inhibitor 13	70619120	70621305
<i>Zm00001d029442</i>	1	F-box only protein 13	70784191	70785951
<i>Zm00001d029443</i>	1	1-phosphatidylinositol-3-phosphate 5-kinase FAB1B	70817727	70829834

<i>Zm00001d029444</i>	1	Retrotransposon protein	70865328	70865549
<i>Zm00001d029446</i>	1	hydroxyproline-rich glycoprotein family protein	70972486	70974851
<i>Zm00001d022757</i>	1		71027222	71027744
<i>Zm00001d029447</i>	1	Whole genome shotgun sequence of line PN40024 scaffold_16.assembly12x (Fragment)	71155736	71156329
<i>Zm00001d029448</i>	1	Protein TIFY 10B	71161670	71164215
<i>Zm00001d022758</i>	1		71310948	71314335
<i>Zm00001d029449</i>	1	3beta-hydroxysteroid-dehydrogenase/decarboxylase isoform 2	71317055	71317901
<i>Zm00001d029451</i>	1	3beta-hydroxysteroid-dehydrogenase/decarboxylase isoform 2	71323058	71331632
<i>Zm00001d029454</i>	1	Sterol-4-alpha-carboxylate 3-dehydrogenase%2C decarboxylating	71428751	71437172
<i>Zm00001d029455</i>	1	Ubiquinone biosynthesis protein COQ9 mitochondrial	71518886	71523950
<i>Zm00001d029457</i>	1	nucleoredoxin1	71670964	71675538
<i>Zm00001d029458</i>	1	Mevalonate kinase	71761534	71762515
<i>Zm00001d029459</i>	1	Probable nucleoredoxin 1	71770258	71773654
<i>Zm00001d029460</i>	1	Ids4-like protein	71820234	71820986
<i>Zm00001d029461</i>	1	Protein LAZ1 homolog 2	71830422	71834236
<i>Zm00001d029462</i>	1	inter-alpha-trypsin inhibitor heavy chain-related	71833704	71849570
<i>Zm00001d029464</i>	1	GS3-like protein	71981682	71987438
<i>Zm00001d029466</i>	1		72004069	72004902
<i>Zm00001d029467</i>	1		72008124	72009552
<i>Zm00001d029468</i>	1	root-specific kinase 1	72028770	72032820
<i>Zm00001d022759</i>	1		72249149	72249348
<i>Zm00001d029472</i>	1		72294352	72294433
<i>Zm00001d029473</i>	1	Transcription initiation factor TFIID subunit 9	72294486	72300404
<i>Zm00001d029474</i>	1	Scarecrow-like protein 29	72302363	72303943
<i>Zm00001d029475</i>	1	ATP-dependent protease La (LON) domain protein	72345031	72345957
<i>Zm00001d029476</i>	1	MOB kinase activator-like 2A	72405711	72410458
<i>Zm00001d029477</i>	1		72418220	72422516
<i>Zm00001d029478</i>	1	MOB kinase activator-like 2A	72423918	72427230
<i>Zm00001d029480</i>	1		72566160	72566564
<i>Zm00001d029481</i>	1		72567323	72569843
<i>Zm00001d029482</i>	1	NAD(P)-binding Rossmann-fold superfamily protein	72598357	72602773
<i>Zm00001d029483</i>	1	Probable small nuclear ribonucleoprotein G	72602928	72605955
<i>Zm00001d029486</i>	1		72780661	72786980
<i>Zm00001d029487</i>	1	GBF-interacting protein 1	72828318	72836027
<i>Zm00001d029488</i>	1		72870584	72874612
<i>Zm00001d029489</i>	1	Nuclear transcription factor Y subunit A-8	72880539	72887083
<i>Zm00001d029490</i>	1	E3 ubiquitin-protein ligase BRE1-like 2	72889642	72909600
<i>Zm00001d029491</i>	1		72953451	72953523

<i>Zm00001d029492</i>	1		72954422	72954494
<i>Zm00001d029495</i>	1		73080404	73081606
<i>Zm00001d029497</i>	1	Zinc transporter 2	73243641	73246778
<i>Zm00001d029498</i>	1		73364611	73369802
<i>Zm00001d029499</i>	1	Expressed protein; protein	73370780	73373210
<i>Zm00001d029501</i>	1		73400432	73401355
<i>Zm00001d029502</i>	1	Glucose-6-phosphate 1-dehydrogenase	73436800	73454549
<i>Zm00001d029503</i>	1		73480268	73483679
<i>Zm00001d029504</i>	1		73565439	73575651
<i>Zm00001d029505</i>	1	Nuclear transcription factor Y subunit B-2	73576189	73576857
<i>Zm00001d029506</i>	1	LOB domain-containing protein 42	73706673	73707614
<i>Zm00001d029507</i>	1		73753509	73757673
<i>Zm00001d029508</i>	1		73763001	73764221
<i>Zm00001d029510</i>	1	Urease	73770319	73772509
<i>Zm00001d029511</i>	1	Eukaryotic translation initiation factor 3 subunit E	73861756	73865273
<i>Zm00001d029512</i>	1	Dof zinc finger protein DOF4.6	73971569	73973965
<i>Zm00001d029515</i>	1	ACT domain-containing protein ACR4	74095473	74102001
<i>Zm00001d029516</i>	1	Probable galacturonosyltransferase 11	74158653	74164282
<i>Zm00001d029518</i>	1	Expressed protein; protein	74201488	74202158
<i>Zm00001d029519</i>	1	Cytochrome P450 99A2	74249436	74251275
<i>Zm00001d029520</i>	1		74272011	74274286
<i>Zm00001d029522</i>	1		74505414	74507252
<i>Zm00001d029523</i>	1	Alpha-humulene/(-)-(E)-beta-caryophyllene synthase	74533261	74535868
<i>Zm00001d029524</i>	1		74639062	74640102
<i>Zm00001d029525</i>	1	Probable 6-phosphogluconolactonase 1	74653797	74658730
<i>Zm00001d029526</i>	1	cytochrome P-450 18	74783210	74785241
<i>Zm00001d029527</i>	1	Protein SPIRAL1	74787607	74790957
<i>Zm00001d029528</i>	1	General transcription factor 2-related zinc finger protein	74850276	74852787
<i>Zm00001d029529</i>	1	Ninja-family protein AFP3	74918081	74921222
<i>Zm00001d029530</i>	1	binding	75041778	75049211
<i>Zm00001d029531</i>	1	Expressed protein; protein	75094561	75101160
<i>Zm00001d029534</i>	1	SPFH/Band 7/PHB domain-containing membrane-associated protein family	75283292	75289737
<i>Zm00001d029535</i>	1	ATPase 2 plasma membrane-type	75291751	75294163
<i>Zm00001d029537</i>	1		75321715	75323337
<i>Zm00001d029538</i>	1		75324026	75324829
<i>Zm00001d029539</i>	1	PLASMODESMATA CALLOSE-BINDING PROTEIN 2	75377980	75379495
<i>Zm00001d029540</i>	1	F-box protein	75404341	75406495
<i>Zm00001d029541</i>	1		75441964	75442176
<i>Zm00001d029542</i>	1		75636490	75642893

<i>Zm00001d029543</i>	1	40S ribosomal protein S19-3	75646209	75648062
<i>Zm00001d029544</i>	1	DUF2431 domain protein	75649423	75659170
<i>Zm00001d029545</i>	1	WAT1-related protein	75662193	75664203
<i>Zm00001d029546</i>	1	Metallothionein-like protein 1	75696011	75696823
<i>Zm00001d029547</i>	1		75697606	75697678
<i>ENSRNA049437967</i>	1	tRNA-Lys for anticodon CUU 1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino] imidazole-4-carboxamide isomerase chloroplastic	75697606	75697678
<i>Zm00001d029548</i>	1		75699185	75711640
<i>Zm00001d029550</i>	1	Diacylglycerol kinase 1	75797114	75806603
<i>Zm00001d029551</i>	1		75803417	75804837
<i>Zm00001d029552</i>	1	DNA binding protein	75899277	75902405
<i>Zm00001d029553</i>	1	C2H2-like zinc finger protein	75904497	75905537
<i>Zm00001d029554</i>	1	Eukaryotic translation initiation factor 3 subunit E	76022397	76025899
<i>Zm00001d029555</i>	1	Ubiquitin-fusion protein	76050551	76055119
<i>Zm00001d029557</i>	1	Chaperone protein ClpB3 chloroplastic	76065155	76078721
<i>Zm00001d029558</i>	1	Pathogenesis-related protein 1	76160502	76161041
<i>Zm00001d029559</i>	1	EID1-like F-box protein 2	76180529	76181281
<i>Zm00001d029560</i>	1	RING/U-box superfamily protein	76209755	76212824
<i>Zm00001d029561</i>	1	Probable ubiquitin conjugation factor E4	76215206	76224302
<i>Zm00001d029562</i>	1		76238126	76238812
<i>Zm00001d029563</i>	1	protein; Pentatricopeptide (PPR) repeat-containing protein-like	76518613	76526416
<i>Zm00001d022760</i>	1		76521443	76521692
<i>Zm00001d029564</i>	1	Probable WRKY transcription factor 4	76584638	76589606
<i>Zm00001d029566</i>	1	DUF1336 domain containing protein expressed	76607988	76612585
<i>Zm00001d022761</i>	1		76611152	76612512
<i>Zm00001d029567</i>	1		76613896	76617755
<i>Zm00001d029568</i>	1	Cysteine protease	76658393	76659887
<i>Zm00001d029569</i>	1		76738648	76741308
<i>Zm00001d029570</i>	1		76771828	76773600
<i>Zm00001d029571</i>	1	zinc finger (C3HC4-type RING finger) family protein	76848049	76858595
<i>Zm00001d029572</i>	1	zinc finger (C3HC4-type RING finger) family protein	76869097	76877072
<i>Zm00001d022762</i>	1		77001696	77002256
<i>Zm00001d029573</i>	1	Protein argonaute 7	77065338	77070098
<i>Zm00001d029574</i>	1	cytochrome P450 family 96 subfamily A polypeptide 1	77114982	77117031
<i>Zm00001d029575</i>	1	Protein transport protein SEC31 homolog B	77122775	77123626
<i>Zm00001d029576</i>	1	PRKR interacting protein 1	77168840	77175146
<i>Zm00001d029577</i>	1		77398644	77401233
<i>Zm00001d029578</i>	1	Expressed protein; protein Transcriptional regulatory protein algP	77449634	77455875
<i>Zm00001d029579</i>	1	[Source:UniProtKB/TrEMBL;Acc:B6SZD0]	77559841	77561051

<i>Zm00001d029580</i>	1	3-oxo-Delta(45)-steroid 5-beta-reductase	77668566	77669771
<i>Zm00001d029581</i>	1	3-oxo-Delta(45)-steroid 5-beta-reductase	77742697	77743902
<i>Zm00001d029582</i>	1	3-oxo-Delta(45)-steroid 5-beta-reductase	77813906	77815328
<i>Zm00001d029583</i>	1	Polygalacturonase inhibitor 1	77839833	77840687
<i>Zm00001d029584</i>	1	Zinc finger protein AZF2 late embryogenesis abundant protein-related / LEA protein-related	77937670	77938206
<i>Zm00001d029585</i>	1		77951689	77952879
<i>Zm00001d029586</i>	1	Zinc finger protein AZF2	77958713	77959414
<i>Zm00001d029587</i>	1	Zinc finger protein AZF2	77994564	77995310
<i>Zm00001d029588</i>	1		78029369	78030566
<i>Zm00001d029589</i>	1	Zinc finger protein AZF2	78035871	78036544
<i>Zm00001d029590</i>	1	Probable esterase KAI2	78107028	78113337
<i>Zm00001d029592</i>	1	Protein ROOT HAIR DEFECTIVE 3	78162934	78163760
<i>Zm00001d029593</i>	1		78164222	78167200
<i>Zm00001d029594</i>	1	allene oxide cyclase1	78239819	78241044
<i>Zm00001d029595</i>	1	zinc-binding protein	78348953	78351415
<i>Zm00001d029596</i>	1	Guanosine nucleotide diphosphate dissociation inhibitor	78357846	78361045
<i>Zm00001d029597</i>	1	Leucine-rich repeat (LRR) family protein	78379499	78391111
<i>Zm00001d029598</i>	1	Transcription initiation factor TFIID subunit 4b	78391061	78405511
<i>Zm00001d029599</i>	1		78539089	78540472
<i>Zm00001d022763</i>	1		78644478	78644925
<i>Zm00001d029601</i>	1	LOB domain-containing protein 38	78654675	78656117
<i>Zm00001d029602</i>	1	LOB domain-containing protein 38 interferon-related developmental regulator family protein / IFRD protein family	78655181	78656079
<i>Zm00001d029603</i>	1		78752783	78763899
<i>Zm00001d029604</i>	1	Peroxidase 2	78770081	78773320
<i>Zm00001d029605</i>	1	Pectin acetyltransferase 9	78863290	78866016
<i>Zm00001d029606</i>	1	Big map kinase/bmk	78909786	78911160
<i>Zm00001d029607</i>	1	Protein SHORT-ROOT	79004272	79006164
<i>Zm00001d029608</i>	1	Mechanosensitive ion channel protein 3 chloroplastic	79094881	79118107
<i>Zm00001d029609</i>	1	calcium-dependent kinase family protein	79178553	79178991
<i>ENSRNA049455853</i>	1	5S ribosomal RNA	79310722	79310840
<i>Zm00001d029611</i>	1	Arabinosyltransferase RRA3	79333091	79336790
<i>Zm00001d029613</i>	1	Cytochrome P450 71D7	79506307	79508357
<i>Zm00001d029617</i>	1	ZCF37	79664499	79665299
<i>Zm00001d029618</i>	1		79829911	79830843
<i>Zm00001d029619</i>	1	UDP-glycosyltransferase 74B1	79902963	79905134
<i>Zm00001d029620</i>	1	UDP-glycosyltransferase 74B1	79984693	79986558
<i>Zm00001d022764</i>	1		80077990	80078624
<i>Zm00001d029625</i>	1		80178770	80181075
<i>Zm00001d022765</i>	1		80219130	80220559

<i>Zm00001d029626</i>	1	Xanthine dehydrogenase 1	80234015	80259023
<i>Zm00001d029627</i>	1		80555017	80559987
<i>Zm00001d029628</i>	1	cystatin7	80600855	80601549
<i>Zm00001d029629</i>	1	Serine/arginine-rich SC35-like splicing factor SCL33	80604100	80609775
<i>Zm00001d029630</i>	1	cystatin6	80665246	80665596
<i>Zm00001d029631</i>	1	cystatin8	80672733	80673116
<i>Zm00001d022766</i>	1		80750653	80759115
<i>Zm00001d022767</i>	1		80758438	80759116
<i>Zm00001d029632</i>	1	Thymidine kinase	80760581	80766373
<i>Zm00001d029634</i>	1		80823367	80824177
<i>Zm00001d022768</i>	1		80825366	80827604
<i>Zm00001d029635</i>	1	Putative UPF0481 protein	80850183	80851874
<i>Zm00001d029636</i>	1	Protein SRG1	80857354	80859952
<i>Zm00001d029637</i>	1		80861686	80862310
<i>Zm00001d029638</i>	1	Iron-sulfur cluster assembly protein 1	80880711	80881321
<i>Zm00001d029639</i>	1		80882357	80882949
<i>Zm00001d029640</i>	1		80886197	80899164
<i>Zm00001d029641</i>	1	Helicase	80903570	80908717
<i>Zm00001d029642</i>	1	RNA polymerase II transcription mediators	80918098	80921938
<i>Zm00001d029643</i>	1		80923614	80925142
<i>Zm00001d029644</i>	1	Carboxyl-terminal-processing peptidase 1 chloroplastic	80924894	80926549
<i>Zm00001d029645</i>	1	Putative polyol transporter 1	80944886	80947089
<i>Zm00001d029646</i>	1		80963908	80970474
<i>Zm00001d029647</i>	1		80970556	80976208
<i>Zm00001d022769</i>	1		81271335	81271805
<i>Zm00001d029648</i>	1	copalyl diphosphate synthase2	81308232	81312047
<i>Zm00001d029649</i>	1	Plant UBX domain-containing protein 10	81312293	81321165
<i>Zm00001d029650</i>	1	HIT zinc finger family protein	81321642	81337174
<i>Zm00001d029651</i>	1	binding	81338597	81343775
<i>Zm00001d029652</i>	1	5-oxoprolinase	81357683	81361453
<i>Zm00001d029653</i>	1	methyltransferases;copper ion binding	81455004	81458989
<i>Zm00001d029654</i>	1	trehalase1	81612748	81617458
<i>Zm00001d029656</i>	1	Actin-depolymerizing factor	81672414	81676391
<i>Zm00001d029657</i>	1	Mitochondrial inner membrane protein OXA1	81675775	81704357
<i>Zm00001d029658</i>	1		81677345	81678423
<i>Zm00001d029659</i>	1		81679220	81679765
<i>Zm00001d029660</i>	1		81704947	81705019
<i>Zm00001d029661</i>	1		81705624	81705696
<i>Zm00001d029662</i>	1	Catalytic/ hydrolase	81793904	81795995
<i>Zm00001d029663</i>	1	Pollen ankyrin-like protein	81796157	81800824



<i>Zm00001d029664</i>	1	Shaggy-related protein kinase theta	81803033	81807676
<i>Zm00001d029667</i>	1	Membrane protein	81894379	81896612
<i>Zm00001d029668</i>	1	RHOMBOID-like protein 3	81913858	81916091
<i>Zm00001d029669</i>	1		82029990	82030379
<i>Zm00001d029671</i>	1		82079259	82080705
<i>Zm00001d029672</i>	1	Chaperone protein ClpC1 chloroplastic	82097005	82099710
<i>Zm00001d029673</i>	1	F-box protein PP2-A13	82101246	82103796
<i>Zm00001d029674</i>	1	photosynthetic electron transport2	82234517	82237350
<i>Zm00001d029675</i>	1	ARM repeat superfamily protein	82273478	82278371
<i>Zm00001d029676</i>	1		82279259	82279444
<i>Zm00001d029677</i>	1	Protein DETOXIFICATION 49	82381292	82382977
<i>Zm00001d029679</i>	1	Ethylene-responsive transcription factor ERF025	82474257	82474886
<i>Zm00001d029680</i>	1		82523781	82527259
<i>Zm00001d029681</i>	1	peptidoglycan-binding LysM domain-containing protein	82555547	82555900
<i>Zm00001d029682</i>	1		82565283	82566387
<i>Zm00001d029683</i>	1	irregular pollen exine1	82567028	82569436
<i>Zm00001d029684</i>	1	phospholipase D9	82569590	82575849
<i>Zm00001d029686</i>	1	Subtilisin-like protease	82711001	82713262
<i>Zm00001d029688</i>	1	cytochrome P450 family 704 subfamily A polypeptide 2 P-loop containing nucleoside triphosphate hydrolases superfamily protein	82827141	82831219
<i>Zm00001d029693</i>	1		82889295	82890302
<i>Zm00001d029694</i>	1		82893222	82894918
<i>Zm00001d029696</i>	1	Glutathione S-transferase U16	82924832	82926012
<i>Zm00001d029697</i>	1	Complex 1 protein containing protein	83036895	83045156
<i>Zm00001d029699</i>	1	glutathione transferase42	83058555	83059659
<i>Zm00001d029700</i>	1	glutathione transferase32	83119704	83120481
<i>Zm00001d029701</i>	1	glutathione transferase40	83132970	83133833
<i>Zm00001d029702</i>	1	Glutathione S-transferase U16	83166984	83167370
<i>Zm00001d029703</i>	1	Glutathione S-transferase U16	83192078	83193405
<i>Zm00001d029704</i>	1	glutathione transferase37	83198362	83199180
<i>Zm00001d029705</i>	1	ubiquitin carrier protein 7	83199590	83208877
<i>Zm00001d029706</i>	1	glutathione transferase39	83226938	83228043
<i>Zm00001d029707</i>	1	Glutathione S-transferase GST 38	83264283	83265235
<i>Zm00001d029708</i>	1	glutathione transferase30	83411025	83411720
<i>Zm00001d029709</i>	1		83412402	83413349
<i>Zm00001d029710</i>	1		83500401	83501877
<i>Zm00001d029711</i>	1	Basic-leucine zipper (bZIP) transcription factor family protein	83544940	83547374
<i>Zm00001d029712</i>	1		83593588	83595981
<i>Zm00001d029713</i>	1		83595288	83596073
<i>Zm00001d029714</i>	1		83647801	83656803

<i>Zm00001d029715</i>	1	alpha/beta-Hydrolases superfamily protein Heavy metal transport/detoxification superfamily	83658962	83662343
<i>Zm00001d029716</i>	1	protein	83791692	83792855
<i>Zm00001d022770</i>	1		83800771	83801179
<i>Zm00001d029717</i>	1	Protein LAZ1 homolog 2	83804679	83805639
<i>Zm00001d029718</i>	1	Transcription repressor OFP6	83823527	83824309
<i>Zm00001d029719</i>	1	C-terminal binding protein AN ABC-type Co <sup>2+</sup> transport system%2C permease	84025755	84035792
<i>Zm00001d029720</i>	1	component	84035920	84036564
<i>Zm00001d029721</i>	1	Probable serine/threonine-protein kinase	84037187	84040069
<i>Zm00001d029722</i>	1		84139123	84145156
<i>Zm00001d029723</i>	1	Mu-crystallin	84157846	84158853
<i>Zm00001d029724</i>	1		84159992	84160063
<i>Zm00001d029725</i>	1	DeSI-like protein	84224821	84227369
<i>Zm00001d029726</i>	1		84228888	84232398
<i>Zm00001d029728</i>	1	Embryogenesis transmembrane protein-like	84305846	84307322
<i>Zm00001d029729</i>	1		84332806	84333761
<i>Zm00001d029730</i>	1	Expressed protein; protein	84333107	84333802
<i>Zm00001d029732</i>	1	Glutamate synthase 1 [NADH] chloroplastic TKL_IRAK_CrRLK1L-1.16 - The CrRLK1L-1 subfamily has homology to the CrRLK1L homolog	84348142	84350436
<i>Zm00001d029733</i>	1	expressed	84357815	84359846
<i>Zm00001d029734</i>	1	fringe-related protein	84452971	84455490
<i>Zm00001d029736</i>	1	Bell-like homeodomain protein 3	84581725	84587077
<i>Zm00001d029737</i>	1	TATA-box-binding protein 2	84613322	84615287
<i>Zm00001d029738</i>	1	Alpha/beta hydrolase related protein	84664818	84666506
<i>Zm00001d029740</i>	1	SUMO-conjugating enzyme SCE1	84849115	84851294
<i>Zm00001d029741</i>	1		84866141	84867131
<i>Zm00001d029742</i>	1	F-box protein At-B RNA polymerase II C-terminal domain phosphatase-like	84992627	84993265
<i>Zm00001d029743</i>	1	1	84994689	84996769
<i>Zm00001d029744</i>	1	flavone synthase typeII	85068069	85072051
<i>Zm00001d029745</i>	1	Protein CURVATURE THYLAKOID 1B chloroplastic	85097979	85099597
<i>Zm00001d029747</i>	1	Peroxidase 64	85172704	85174464
<i>Zm00001d029748</i>	1		85231834	85231905
<i>Zm00001d022771</i>	1		85232076	85232639
<i>Zm00001d029749</i>	1	B3 domain-containing transcription factor NGA2	85320646	85321467
<i>Zm00001d029750</i>	1		85465506	85472221
<i>Zm00001d029752</i>	1	Retrovirus-related Pol polyprotein LINE-1	85474834	85477147
<i>Zm00001d029753</i>	1	Tobamovirus multiplication protein 3 P-loop containing nucleoside triphosphate hydrolases	85506043	85509564
<i>Zm00001d029754</i>	1	superfamily protein	85552331	85560838
<i>Zm00001d029755</i>	1		85773606	85775424

<i>Zm00001d029756</i>	1	Pmr5/Cas1p GDSL/SGNH-like acyl-esterase family protein	85778009	85779548
<i>Zm00001d029757</i>	1	Calcium-dependent protein kinase 6	85781466	85782473
<i>Zm00001d029758</i>	1	BEACH domain-containing protein C2	86001408	86007071
<i>Zm00001d029760</i>	1	Protein PLASTID MOVEMENT IMPAIRED 1	86031012	86032992
<i>Zm00001d029761</i>	1	Hexose transporter	86062903	86065425
<i>Zm00001d029762</i>	1	RING-H2 finger protein ATL80	86130014	86134531
<i>Zm00001d029763</i>	1	Putative pentatricopeptide repeat-containing protein mitochondrial	86136740	86137516
<i>Zm00001d029764</i>	1	tRNA-splicing endonuclease subunit Sen2-2	86152046	86157931
<i>Zm00001d029766</i>	1	barley mlo defense gene homolog2	86197157	86199615
<i>Zm00001d029768</i>	1		86261116	86266872
<i>Zm00001d029769</i>	1		86286350	86289464
<i>Zm00001d029771</i>	1	KH domain-containing protein	86329863	86331329
<i>Zm00001d029772</i>	1	Ca <sup>2+</sup> /calmodulin-dependent protein kinase phosphatase	86352222	86355516
<i>Zm00001d029773</i>	1		86389151	86389666
<i>Zm00001d029775</i>	1		86455254	86455759
<i>Zm00001d029776</i>	1	Serine carboxypeptidase-like 34	86460138	86462888
<i>Zm00001d029777</i>	1	Protein EXORDIUM-like 5	86480374	86481381
<i>Zm00001d029778</i>	1	metallothionein2	86529694	86530424
<i>Zm00001d029782</i>	1	Ubiquitin domain-containing protein DSK2b	86636234	86641408
<i>Zm00001d029783</i>	1	Expansin-like A2	86734087	86736135
<i>Zm00001d029784</i>	1	DUF241 domain protein	86745009	86745950
<i>Zm00001d029785</i>	1	Probable serine/threonine-protein kinase	86770300	86776371
<i>Zm00001d029787</i>	1		86784260	86785341
<i>Zm00001d029792</i>	1		87096328	87097200
<i>Zm00001d029793</i>	1	Glutathione S-transferase F9	87097798	87098370
<i>Zm00001d029794</i>	1	Basic endochitinase B	87314979	87316146
<i>Zm00001d029796</i>	1		87323234	87323304
<i>Zm00001d029797</i>	1	Transducin family protein / WD-40 repeat family protein	87442443	87443667
<i>Zm00001d029798</i>	1		87447246	87448133
<i>Zm00001d029799</i>	1	Glutathione S-transferase F9	87448744	87457844
<i>Zm00001d029800</i>	1		87468623	87469510
<i>Zm00001d029801</i>	1	glutathione transferase14	87469723	87475392
<i>Zm00001d029802</i>	1		87532164	87532547
<i>Zm00001d029803</i>	1	Major facilitator superfamily protein	87586799	87591619
<i>Zm00001d029804</i>	1		87657945	87662786
<i>Zm00001d029805</i>	1		87688496	87688811
<i>Zm00001d029806</i>	1	NEP1-interacting protein-like 1	87745831	87748178
<i>Zm00001d029807</i>	1		87791009	87793139
<i>Zm00001d029808</i>	1	magnesium transporter6	87835101	87838643

<i>Zm00001d029809</i>	1	DUF3783 domain protein	87838311	87841671
<i>Zm00001d029810</i>	1	Methylsterol monooxygenase 1-2	88015144	88023582
<i>Zm00001d029811</i>	1	zinc knuckle (CCHC-type) family protein	88024924	88032862
<i>Zm00001d029812</i>	1	Threonine synthase 1 chloroplastic	88072227	88073404
<i>Zm00001d029814</i>	1	Xyloglucan endotransglucosylase/hydrolase protein 32	88197224	88198631
<i>Zm00001d029815</i>	1	ATG1	88272871	88273650
<i>Zm00001d029816</i>	1	Pollen Ole e 1 allergen and extensin family protein	88322356	88323479
<i>Zm00001d029818</i>	1	Expressed protein; protein	88440568	88462988
<i>Zm00001d029819</i>	1		88453704	88453777
<i>Zm00001d029820</i>	1	Cyclin-dependent protein kinase inhibitor SMR1	88468178	88468588
<i>Zm00001d029822</i>	1	cytochrome P450 14	88696531	88703297
<i>Zm00001d029823</i>	1	RING-H2 finger protein ATL57	88801806	88802468
<i>Zm00001d029825</i>	1	Myosin heavy chain-related protein	88860846	88861322
<i>Zm00001d029826</i>	1	Complex 1 protein containing protein	89004569	89011482
<i>Zm00001d029827</i>	1	Beta-expansin 1a	89015335	89016583
<i>Zm00001d029828</i>	1	Eukaryotic translation initiation factor 3 subunit E	89043977	89045196
<i>Zm00001d029829</i>	1	U-box domain-containing protein 33	89157703	89163658
<i>Zm00001d029831</i>	1		89235332	89235405
<i>Zm00001d029832</i>	1	Protein trichome birefringence-like 12	89260097	89271027
<i>Zm00001d029833</i>	1	Tetratricopeptide repeat protein SKI3	89356091	89363713
<i>Zm00001d029834</i>	1	Generic methyltransferase	89472879	89473774
<i>Zm00001d029835</i>	1	plant/K24M7-17 protein	89474423	89475256
<i>Zm00001d029836</i>	1	B3 domain-containing transcription factor LEC2	89480274	89481750
<i>Zm00001d029837</i>	1		89483117	89483753
<i>Zm00001d029838</i>	1		89484088	89484694
<i>Zm00001d029839</i>	1	Protein NEN2	89562549	89567492
<i>Zm00001d029840</i>	1	Short-chain dehydrogenase TIC 32 chloroplastic	89587618	89589865
<i>Zm00001d029841</i>	1	myosin heavy chain-related	89617721	89620070
<i>Zm00001d029842</i>	1	Divalent ion symporter	89643144	89645830
<i>Zm00001d029844</i>	1	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family	89748954	89749586
<i>Zm00001d029846</i>	1	Translocase of chloroplast 120 chloroplastic	89860313	89863306
<i>Zm00001d029847</i>	1	U-box domain-containing protein 37	89925889	89928127
<i>Zm00001d029848</i>	1	Branched-chain-amino-acid aminotransferase	89930073	89935999
<i>Zm00001d029849</i>	1	Phosphatidylinositol N-acetylglucosaminyltransferase subunit P-related	89947372	89952516
<i>Zm00001d029850</i>	1	Rop guanine nucleotide exchange factor 2	89958471	89961843
<i>Zm00001d022772</i>	1		89963202	89963463
<i>Zm00001d029851</i>	1		90087215	90088432
<i>Zm00001d022773</i>	1		90133458	90133915
<i>Zm00001d022774</i>	1		90181043	90181878

<i>Zm00001d029852</i>	1	DUF3527 domain protein	90292761	90297408
<i>Zm00001d029853</i>	1	Proline oxidase	90315517	90318180
<i>Zm00001d029855</i>	1	Scarecrow-like protein 6	90443929	90445866
<i>Zm00001d029856</i>	1	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8 mitochondrial	90494694	90507232
<i>Zm00001d029857</i>	1		90507863	90509394
<i>Zm00001d029858</i>	1	Cortical cell-delineating protein	90524506	90524934
<i>Zm00001d029859</i>	1	extensin-like protein	90820008	90820409
<i>Zm00001d029860</i>	1	3-hydroxyisobutyryl-CoA hydrolase-like protein 2 mitochondrial	90857432	90869865
<i>Zm00001d029861</i>	1	Probable respiratory burst oxidase homolog protein I	90928628	90936923
<i>Zm00001d029862</i>	1	Probable xyloglucan galactosyltransferase GT19	90963400	90964767
<i>Zm00001d029863</i>	1		90965218	90965288
<i>ENSRNA049439777</i>	1	tRNA-Gly for anticodon GCC	90965218	90965288
<i>Zm00001d029864</i>	1		90965548	90965618
<i>ENSRNA049439764</i>	1	tRNA-Gly for anticodon GCC	90965548	90965618
<i>Zm00001d029865</i>	1	Flavin-containing monooxygenase FMO GS-OX5	90965701	90968044
<i>Zm00001d029868</i>	1		91135733	91139783
<i>Zm00001d029869</i>	1	zinc finger (C2H2 type) family protein	91144009	91144932
<i>Zm00001d029872</i>	1	Oxysterol-binding protein-related protein 2A	91251568	91258234
<i>Zm00001d029873</i>	1		91279799	91282098
<i>Zm00001d029874</i>	1	Phosphatidate cytidyltransferase 3	91282692	91285316
<i>Zm00001d022775</i>	1		91362643	91362856
<i>Zm00001d029875</i>	1	myb-like transcription factor family protein	91421593	91425126
<i>Zm00001d029878</i>	1	O-fucosyltransferase family protein	91625270	91627450
<i>Zm00001d029879</i>	1		91814773	91819708
<i>Zm00001d029881</i>	1		91831167	91832237
<i>Zm00001d029883</i>	1	Sialyltransferase-like protein 2	91987577	91988973
<i>Zm00001d029884</i>	1	Ethylene-responsive transcription factor ERF035	91990667	91991467
<i>Zm00001d029885</i>	1	Zinc finger protein CONSTANS-LIKE 5	92217234	92219505
<i>Zm00001d029886</i>	1		92222078	92224093
<i>Zm00001d029887</i>	1	Ribosomal L18p/L5e family protein	92228035	92232678
<i>Zm00001d029888</i>	1	Expressed protein; protein	92327821	92333275
<i>Zm00001d029889</i>	1	G2484-1 protein	92552607	92564979
<i>Zm00001d029890</i>	1		92616516	92616589
<i>Zm00001d029891</i>	1		92682108	92682713
<i>Zm00001d029892</i>	1	Metalloendoproteinase 1-MMP	92733943	92735043
<i>Zm00001d029893</i>	1	E3 ubiquitin-protein ligase CCNB1IP1 homolog	92785998	92787072
<i>Zm00001d029895</i>	1		92848119	92851941
<i>Zm00001d029896</i>	1	GATA transcription factor 2	92897029	92898887
<i>Zm00001d029898</i>	1	Transcription factor UNE10	93133919	93138777

<i>Zm00001d029897</i>	1	Transcription factor UNE10	93134346	93135167
<i>Zm00001d029899</i>	1	beta expansin2	93193094	93195786
<i>Zm00001d029901</i>	1	Palmitoyl-acyl carrier protein thioesterase chloroplastic	93282552	93286175
<i>Zm00001d029902</i>	1	Palmitoyl-acyl carrier protein thioesterase chloroplastic	93288908	93291071
<i>Zm00001d029903</i>	1	Expansin-B4	93424792	93426256
<i>Zm00001d029906</i>	1	Beta-expansin 7	93520069	93521826
<i>Zm00001d029907</i>	1	Expansin-B4	93607426	93608645
<i>Zm00001d029908</i>	1	alpha/beta-Hydrolases superfamily protein	93678853	93696426
<i>Zm00001d029909</i>	1		93696265	93701038
<i>Zm00001d029910</i>	1	ARF guanine-nucleotide exchange factor GNOM	93744451	93750150
<i>Zm00001d029912</i>	1		93786404	93786472
<i>Zm00001d029913</i>	1	Expansin-B4	93847218	93848525
<i>Zm00001d029914</i>	1		94029117	94029197
<i>Zm00001d029916</i>	1	RNA-binding (RRM/RBD/RNP motifs) family protein	94180761	94183368
<i>Zm00001d029917</i>	1	Zinc finger protein ZAT9 Gallus gallus similar to zinc finger RNA binding protein (LOC427010) mRNA.	94202204	94203229
<i>Zm00001d029918</i>	1		94336239	94343520
<i>Zm00001d029919</i>	1	Holliday junction resolvase	94344537	94348781
<i>Zm00001d029920</i>	1	Putative glucuronosyltransferase PGSIP7	94346625	94349899
<i>Zm00001d022776</i>	1		94472928	94473586
<i>Zm00001d029921</i>	1	QWRF motif-containing protein 7	94473957	94476161
<i>Zm00001d029922</i>	1	Flavin-containing monooxygenase FMO GS-OX5	94478791	94481263
<i>Zm00001d029923</i>	1	extensin-like protein	94574574	94575251
<i>Zm00001d029924</i>	1	Flavin-containing monooxygenase FMO GS-OX5	94651061	94653582
<i>Zm00001d029925</i>	1		94653482	94653554
<i>Zm00001d029926</i>	1		94654215	94654287
<i>Zm00001d029927</i>	1		94681341	94682976
<i>Zm00001d029929</i>	1		94856063	94858803
<i>Zm00001d029931</i>	1	10A19I.15	94938570	94939328
<i>Zm00001d029932</i>	1	Protein NRT1/ PTR FAMILY 6.3	94940936	94945167
<i>Zm00001d029933</i>	1	Protein NRT1/ PTR FAMILY 6.3	95012189	95014753
<i>Zm00001d029934</i>	1	Homeobox-leucine zipper protein HAT4	95220121	95221774
<i>Zm00001d029937</i>	1	Glycoprotein	95421201	95422724
<i>Zm00001d029938</i>	1	Protein ARABIDILLO 1	95642045	95656709
<i>Zm00001d029940</i>	1	Ethylene-responsive transcription factor ERF105	95770465	95771190
<i>Zm00001d029941</i>	1		95814516	95814589
<i>Zm00001d029942</i>	1		95815193	95815265
<i>Zm00001d029943</i>	1		95844369	95844441
<i>Zm00001d029944</i>	1		95845375	95845447
<i>Zm00001d022777</i>	1		95892165	95892415
<i>Zm00001d029946</i>	1		95962495	95966999

<i>Zm00001d029947</i>	1	Protein BRANCHLESS TRICHOME	96083307	96084227
<i>Zm00001d029948</i>	1	Serine/threonine-protein kinase D6PKL1	96084382	96087383
<i>Zm00001d029950</i>	1	Putative membrane lipoprotein	96145951	96147477
<i>Zm00001d029951</i>	1		96159180	96159253
<i>ENSRNA049438083</i>	1	tRNA-Trp for anticodon CCA	96159180	96159253
<i>Zm00001d029952</i>	1		96159388	96159459
<i>Zm00001d029954</i>	1		96222919	96223230
<i>Zm00001d029955</i>	1	Phospholipase A1-Ibeta2 chloroplastic	96293447	96295018
<i>Zm00001d029956</i>	1		96451153	96452710
<i>Zm00001d029958</i>	1	UDP-glycosyltransferase TURAN	96463990	96470850
<i>Zm00001d029959</i>	1	Long chain base biosynthesis protein 2a	96468354	96470757
<i>Zm00001d029960</i>	1		96473604	96473677
<i>ENSRNA049439730</i>	1	tRNA-Ile for anticodon AAU	96473604	96473677
<i>Zm00001d022778</i>	1		96486120	96487476
<i>Zm00001d029961</i>	1		96571420	96571492
<i>Zm00001d029962</i>	1		96572340	96572411
<i>Zm00001d029963</i>	1	myb-like transcription factor family protein	96573408	96575415
<i>Zm00001d029964</i>	1	Protein kinase superfamily protein	96639688	96641941
<i>Zm00001d022779</i>	1		96664461	96665160
<i>Zm00001d029965</i>	1	Peptide methionine sulfoxide reductase	96701518	96704228
<i>Zm00001d029966</i>	1		96702497	96702578
<i>Zm00001d029967</i>	1		96759914	96762330
<i>Zm00001d029968</i>	1	Nucleoside diphosphate kinase family protein	96900888	96902992
<i>Zm00001d029969</i>	1	nucleoside diphosphate kinase1	96905186	96905818
<i>Zm00001d029970</i>	1	Cyclin-U4-2	97044621	97046748
<i>Zm00001d029972</i>	1		97092721	97097566
<i>Zm00001d029973</i>	1	Nucleic acid binding protein	97097237	97100691
<i>Zm00001d029974</i>	1	FRIGIDA interacting protein 2	97104476	97105441
<i>Zm00001d029975</i>	1	Serine/threonine-protein kinase SRK2C	97112730	97116269
<i>Zm00001d029976</i>	1	calcineurin B-like1	97209569	97214377
<i>Zm00001d029978</i>	1	Casein kinase II subunit beta-1	97311624	97317291
<i>Zm00001d029979</i>	1	Histone H3 K4-specific methyltransferase SET7/9 family protein	97322758	97327037
<i>Zm00001d029980</i>	1	Metacaspase-1	97331766	97337093
<i>Zm00001d029981</i>	1	Putative CCR4-associated factor 1 homolog 3	97337143	97338258
<i>Zm00001d029982</i>	1		97371800	97371872
<i>ENSRNA049438128</i>	1	tRNA-Lys for anticodon UUU	97371800	97371872
<i>Zm00001d029983</i>	1	Beta-amylase 3 chloroplastic	97416254	97419693
<i>Zm00001d029986</i>	1		97645170	97653845
<i>Zm00001d029987</i>	1	OSJNBa0008M17.14 protein; protein	97698097	97698974
<i>Zm00001d029988</i>	1	Retrotransposon protein	97704275	97706222

<i>Zm00001d029991</i>	1		97887934	97889041
<i>Zm00001d029992</i>	1	Retrotransposon-like protein	97989715	98012316
<i>Zm00001d029994</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	98229242	98231508
<i>Zm00001d029995</i>	1		98257223	98260515
<i>Zm00001d029996</i>	1	E3 ubiquitin-protein ligase ATL4	98331414	98332553
<i>Zm00001d029997</i>	1	chloroplast chaperonin 10	98382117	98384521
<i>Zm00001d029999</i>	1	Pentatricopeptide repeat-containing protein	98390539	98392128
<i>Zm00001d030001</i>	1		98395850	98397572
<i>Zm00001d030002</i>	1	Peroxidase 44	98510056	98512418
<i>Zm00001d022782</i>	1		98533265	98534260
<i>Zm00001d030004</i>	1	OSJNBb0016D16.16 protein; protein	98579791	98580687
<i>Zm00001d030005</i>	1	Dynamamin-related protein 1E	98585427	98594780
<i>Zm00001d030006</i>	1		98793288	98794243
<i>Zm00001d030007</i>	1		98891019	98893883
<i>Zm00001d030008</i>	1	65-kDa microtubule-associated protein 3 Haloacid dehalogenase-like hydrolase domain- containing protein Sgpp	98939104	98942980
<i>Zm00001d030009</i>	1		98960515	98962408
<i>Zm00001d030010</i>	1		98966769	98969288
<i>Zm00001d030011</i>	1	Eukaryotic translation initiation factor 3 subunit B	99113829	99118558
<i>Zm00001d022783</i>	1		99226404	99226754
<i>Zm00001d030012</i>	1	Probable methyltransferase PMT14	99314880	99319254
<i>Zm00001d030014</i>	1	Tobamovirus multiplication protein 2A	99420958	99424537
<i>Zm00001d030015</i>	1		99533695	99534006
<i>Zm00001d030016</i>	1	Disease resistance protein RPM1	99772449	99776664
<i>ENSRNA049471190</i>	1	Small nucleolar RNA snoR14	99779224	99779312
<i>ENSRNA049471198</i>	1	Small nucleolar RNA U61	99779457	99779543
<i>Zm00001d030017</i>	1	DNA-directed DNA polymerases	99828448	99829100
<i>Zm00001d030018</i>	1	TOM2B	99937288	99940239
<i>Zm00001d022784</i>	1		99939838	99940267
<i>Zm00001d030019</i>	1		99940331	99944552
<i>Zm00001d030020</i>	1	Pyruvate kinase	99945344	99950682
<i>Zm00001d030021</i>	1	BR-signaling kinase 2	100085601	100090561
<i>Zm00001d030023</i>	1	NAC-transcription factor43	100385980	100387952
<i>Zm00001d030024</i>	1		100454578	100455387
<i>Zm00001d030026</i>	1	DnaJ homolog subfamily C GRV2	100613958	100647262
<i>Zm00001d030027</i>	1		100647463	100647533
<i>ENSRNA049438140</i>	1	tRNA-Gly for anticodon GCC	100647463	100647533
<i>Zm00001d030028</i>	1	myc transcription factor7	100650752	100652869
<i>Zm00001d030030</i>	1		100657980	100662543
<i>Zm00001d030031</i>	1	ADP-ribosylation factor GTPase-activating protein AGD10	100836103	100840993



<i>Zm00001d030032</i>	1	PLATZ transcription factor family protein	101087719	101089690
<i>Zm00001d030034</i>	1	glucose-inhibited division family A protein	101177296	101179297
<i>Zm00001d030035</i>	1	Plant invertase/pectin methylesterase inhibitor superfamily protein	101302858	101303517
<i>Zm00001d030037</i>	1	Replication factor C subunit 3	101375207	101379033
<i>Zm00001d030038</i>	1	E3 ubiquitin-protein ligase ATL6	101381149	101382079
<i>Zm00001d030040</i>	1	nonsense-mediated mRNA decay NMD3 family protein	101466317	101468065
<i>ENSRNA049468787</i>	1	U1 spliceosomal RNA	101591384	101591544
<i>Zm00001d030041</i>	1		101592589	101592677
<i>Zm00001d030043</i>	1	Putative GTP diphosphokinase RSH1 chloroplastic	101711246	101722568
<i>ENSRNA049468782</i>	1	U1 spliceosomal RNA	101753240	101753395
<i>Zm00001d030044</i>	1		101754201	101754289
<i>Zm00001d030045</i>	1	Abscisic acid receptor PYR1	101898451	101899089
<i>Zm00001d030046</i>	1	ATP-dependent DNA helicase	101996063	102012658
<i>Zm00001d030047</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6K996]	102024178	102025181
<i>Zm00001d030048</i>	1	pfkB-like carbohydrate kinase family protein	102060297	102063588
<i>Zm00001d030049</i>	1		102065091	102065169
<i>Zm00001d022785</i>	1		102198655	102198942
<i>Zm00001d030051</i>	1	BAH domain ;TFIIS helical bundle-like domain	102215687	102221905
<i>Zm00001d030053</i>	1	AT-hook motif nuclear-localized protein 13	102359351	102363384
<i>Zm00001d030055</i>	1	ATP-dependent DNA helicase	102366092	102372405
<i>Zm00001d030056</i>	1	[Source:UniProtKB/TrEMBL;Acc:A0A1D6K9B3]	102374433	102374803
<i>Zm00001d030057</i>	1		102376437	102378258
<i>Zm00001d030059</i>	1		102561060	102561768
<i>Zm00001d030061</i>	1	RING/FYVE/PHD zinc finger superfamily protein	102710038	102723105
<i>Zm00001d030062</i>	1	Plant intracellular Ras-group-related LRR protein 4	102953025	102967621
<i>Zm00001d030063</i>	1		102955110	102957336
<i>Zm00001d030064</i>	1		102955412	102955483
<i>Zm00001d030065</i>	1		102999589	102999661
<i>Zm00001d030067</i>	1		103085031	103086221
<i>Zm00001d030068</i>	1		103202199	103204660
<i>Zm00001d030069</i>	1	Homeodomain leucine zipper family IV protein	103280320	103286276
<i>Zm00001d030070</i>	1		103299212	103301753
<i>Zm00001d030072</i>	1		103373766	103374379
<i>Zm00001d030073</i>	1		103631545	103632715
<i>Zm00001d030074</i>	1	fibrillin1	103634381	103637965
<i>Zm00001d030075</i>	1		103722504	103725530
<i>Zm00001d030076</i>	1		103900652	103901825
<i>Zm00001d030077</i>	1	Thioesterase superfamily protein	104096505	104097569
<i>Zm00001d030079</i>	1	FAD-binding domain-containing protein	104118705	104119586

<i>Zm00001d030080</i>	1	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10-A	104119711	104120879
<i>Zm00001d030083</i>	1	low phytic acid2	104172633	104173661
<i>Zm00001d030086</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein CONTAINS InterPro DOMAIN/s: ATPase vacuolar ER assembly factor Vma12 (InterPro:IPR021013); Has 1807 Blast hits to 1807 proteins in 277 species: Archae - 0; Bacteria - 0; Metazoa - 736; Fungi - 347; Plants - 385; Viruses - 0; Other Eukaryotes - 339 /.../ce: NCBI BLink).	104416569	104417982
<i>Zm00001d030087</i>	1		104669720	104674047
<i>Zm00001d022786</i>	1		104756234	104756542
<i>Zm00001d030088</i>	1	late embryogenesis abundant protein	104831289	104831774
<i>Zm00001d030090</i>	1	NAD(P)-binding Rossmann-fold superfamily protein	104849146	104852816
<i>Zm00001d030091</i>	1		105035216	105041237
<i>Zm00001d030093</i>	1		105073056	105073732
<i>Zm00001d030094</i>	1	Putative WEB family protein chloroplastic	105181711	105186026
<i>ENSRNA049468771</i>	1	Eukaryotic small subunit ribosomal RNA	105341167	105341286
<i>Zm00001d030095</i>	1	Putative WEB family protein chloroplastic	105495065	105498733
<i>Zm00001d030096</i>	1		105529115	105532226
<i>Zm00001d030098</i>	1	Protein HAIKU1	105553409	105554335
<i>Zm00001d030099</i>	1		105647014	105648033
<i>Zm00001d030100</i>	1	BEST Arabidopsis thaliana protein match is: Chalcone-flavanone isomerase family protein (TAIR:AT5G66230.1); Has 39 Blast hits to 39 proteins in 11 species: Archae - 0; Bacteria - 0; Metazoa - 0; Fungi - 0; Plants - 39; Viruses - 0; Other Eukaryotes /.../ource: NCBI BLink).	105695540	105696196
<i>Zm00001d030101</i>	1		105700155	105702010
<i>Zm00001d030102</i>	1	65-kDa microtubule-associated protein 3 Probable xyloglucan endotransglucosylase/hydrolase protein 30	105807559	105812770
<i>Zm00001d030103</i>	1		105862947	105867700
<i>Zm00001d030105</i>	1		105944592	105948305
<i>Zm00001d030106</i>	1	40S ribosomal protein S4-3	106122816	106129515
<i>Zm00001d030108</i>	1	Lysine-specific demethylase REF6	106180425	106186974
<i>Zm00001d030109</i>	1	Probable inactive shikimate kinase like 2 chloroplastic	106376178	106378884
<i>Zm00001d030110</i>	1	Probable inactive poly [ADP-ribose] polymerase SRO1	106378899	106383615
<i>Zm00001d022787</i>	1		106383904	106384543
<i>Zm00001d030114</i>	1	60S ribosomal protein L7-2	106840123	106842310
<i>Zm00001d030116</i>	1	Synaptotagmin-2	107042927	107056687
<i>Zm00001d030117</i>	1	Glycerol-3-phosphate acyltransferase chloroplastic	107088822	107096192
<i>Zm00001d030120</i>	1	10A19L.15	107119503	107119955
<i>Zm00001d030121</i>	1	roothairless6	107181209	107185354
<i>Zm00001d030123</i>	1	Putative pentatricopeptide repeat-containing protein	107336969	107338846
<i>Zm00001d030124</i>	1		107460666	107465036

<i>Zm00001d030126</i>	1	26S proteasome non-ATPase regulatory subunit 13 homolog A	107682051	107686329
<i>Zm00001d030127</i>	1	Plastidal glycolate/glycerate translocator 1 chloroplastic S-adenosyl-L-methionine-dependent methyltransferases superfamily protein	107762967	107765646
<i>Zm00001d030129</i>	1	LrgB-like family protein	107865921	107867117
<i>Zm00001d030130</i>	1	Choline-phosphate cytidyltransferase 2	107993630	108004988
<i>Zm00001d030131</i>	1	4-coumarate--CoA ligase-like 6	108193722	108197646
<i>Zm00001d030132</i>	1	CSC1-like protein	108199942	108209147
<i>Zm00001d030133</i>	1	ATP-dependent DNA helicase [Source:UniProtKB/TrEMBL;Acc:A0A1D6KA83]	108282883	108288994
<i>Zm00001d030134</i>	1	Enhancer of polycomb-like transcription factor protein Probable NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12	108360901	108369330
<i>Zm00001d030136</i>	1	Probable WRKY transcription factor 14	108371939	108373055
<i>Zm00001d030138</i>	1		108425304	108427389
<i>Zm00001d030139</i>	1		108483337	108484748
<i>Zm00001d022788</i>	1		108578069	108578695
<i>Zm00001d030143</i>	1	Tetratricopeptide repeat (TPR)-like superfamily protein	108592134	108595742
<i>Zm00001d030146</i>	1	Ribosomal protein L35 AT5G44030 (E=6e-024) CESA4 IRX5 NWS2   CESA4 (CELLULOSE SYNTHASE A4); cellulose synthase/transferase transferring glycosyl groups	108663640	108666094
<i>Zm00001d030147</i>	1		108667392	108669981
<i>Zm00001d030148</i>	1		108714459	108717659
<i>Zm00001d030149</i>	1	ATP-dependent Clp protease proteolytic subunit	108717575	108726921
<i>Zm00001d030150</i>	1		108954398	108954927
<i>Zm00001d030151</i>	1	Nuclear transcription factor Y subunit B-2	108955564	108956702
<i>Zm00001d030152</i>	1	RING/U-box superfamily protein	109046445	109047845
<i>Zm00001d030153</i>	1	plastid transcriptionally active 18	109048438	109048917
<i>Zm00001d030154</i>	1		109218162	109224977
<i>Zm00001d030155</i>	1	UPF0451 C17orf61-like protein	109359801	109361667
<i>Zm00001d030157</i>	1	ADP-ribosylation factor B1B	109410589	109413669
<i>Zm00001d022789</i>	1		109416213	109416947
<i>Zm00001d030158</i>	1	Protein NRT1/ PTR FAMILY 8.3	109418604	109421962
<i>Zm00001d030159</i>	1	Protein NRT1/ PTR FAMILY 8.3	109469384	109473198
<i>Zm00001d030161</i>	1	RING/U-box superfamily protein	109710093	109710714
<i>Zm00001d030162</i>	1	Phytanoyl-CoA dioxygenase	109712819	109716309
<i>Zm00001d030163</i>	1		109742559	109745194
<i>Zm00001d030164</i>	1		109844576	109871086
<i>Zm00001d030165</i>	1	Stearoyl-[acyl-carrier-protein] 9-desaturase 7 chloroplastic	109910640	109911650
<i>Zm00001d030166</i>	1	Glycosyltransferase-like KOBITO 1	110002061	110007926
<i>Zm00001d030167</i>	1	Ankyrin repeat family protein	110010761	110013627
<i>Zm00001d030168</i>	1	Transcription factor VOZ1	110015221	110015965
<i>Zm00001d030169</i>	1	Mitogen-activated protein kinase 17	110061563	110078934
<i>Zm00001d030171</i>	1	Serine/threonine-protein kinase	110297474	110299921

<i>Zm00001d030172</i>	1	Serine carboxypeptidase-like 19	110342608	110348109
<i>Zm00001d030173</i>	1	Calmodulin-binding receptor-like cytoplasmic kinase 3	110378372	110389224
<i>Zm00001d030174</i>	1	Lecithin-cholesterol acyltransferase-like 1	110508512	110509792
<i>Zm00001d030176</i>	1		110660706	110660888
<i>Zm00001d030177</i>	1		110786228	110786665
<i>Zm00001d030179</i>	1		110823196	110824905
<i>Zm00001d030180</i>	1		110825776	110826168
<i>Zm00001d030181</i>	1	Protein PHLOEM PROTEIN 2-LIKE A10	111081054	111082160
<i>Zm00001d030182</i>	1		111116230	111116739
<i>Zm00001d030183</i>	1		111117544	111123936

**Table 5.4** Number and time of samples collected in greenhouses and field conditions.

	Genotype	Control Samples	Treatment Samples
Day 0	R	3	3
	S	3	3
Total		12 Samples	
Day 7	R	3	3
	S	3	3
Total		12 Samples	
Day 10	R	3	3
	S	3	3
Total	12 Samples		
Day 14	R	3	3
	S	3	3
Total	12 samples		

**Table 5.5** Differentially expressed genes in the six different DE studies with  $P < 0.001$ .

Group1	Group2	Group3	Group4	Group5	Group6
<i>Zm00001d053538</i>	<i>Zm00001d050021</i>	<i>Zm00001d007281</i>	<i>Zm00001d033948</i>	<i>Zm00001d025347</i>	<i>Zm00001d045728</i>

Zm00001d018632	Zm00001d002521	Zm00001d049413	Zm00001d044502	Zm00001d013692	Zm00001d012551
Zm00001d032497	Zm00001d011843	Zm00001d041772	Zm00001d018013	Zm00001d047671	Zm00001d047893
Zm00001d039866	Zm00001d032357	Zm00001d035683	Zm00001d033657	Zm00001d007827	Zm00001d027824
Zm00001d039908	Zm00001d002160	Zm00001d024372	Zm00001d026140	Zm00001d020589	Zm00001d049625
Zm00001d053908	Zm00001d044376	Zm00001d041788	Zm00001d032562	Zm00001d017279	Zm00001d033067
Zm00001d031460	Zm00001d012316	Zm00001d005536	Zm00001d039415	Zm00001d034839	Zm00001d015243
Zm00001d047992	Zm00001d034075	Zm00001d042278	Zm00001d035336	Zm00001d009858	Zm00001d008340
Zm00001d050918	Zm00001d039419	Zm00001d003796	Zm00001d019087	Zm00001d026649	Zm00001d041067
Zm00001d018781	Zm00001d020872	Zm00001d036537	Zm00001d040032	Zm00001d023870	Zm00001d008408
Zm00001d005458	Zm00001d017245	Zm00001d027691	Zm00001d000452	Zm00001d044339	Zm00001d042443
Zm00001d016083	Zm00001d011208	Zm00001d042097	Zm00001d035409	Zm00001d003044	Zm00001d051872
Zm00001d011938	Zm00001d013258	Zm00001d040679	Zm00001d051965	Zm00001d052380	Zm00001d016625
Zm00001d028529	Zm00001d040544	Zm00001d044765	Zm00001d035570	Zm00001d035178	Zm00001d022036
Zm00001d020872	Zm00001d027374	Zm00001d048775	Zm00001d026277	Zm00001d010798	Zm00001d009775
Zm00001d053102	Zm00001d009660	Zm00001d024053	Zm00001d021480	Zm00001d018940	Zm00001d047210
Zm00001d005023	Zm00001d037794	Zm00001d038235	Zm00001d049024	Zm00001d044683	Zm00001d043601
Zm00001d044747	Zm00001d013259	Zm00001d043151	Zm00001d053174	Zm00001d047452	Zm00001d013294
ENSRNA049478193	Zm00001d053908	Zm00001d040979	Zm00001d049515	Zm00001d041418	Zm00001d020530
Zm00001d024518	Zm00001d031835	Zm00001d005530	Zm00001d048722	Zm00001d006595	Zm00001d012973
ENSRNA049479579	Zm00001d028814	Zm00001d012508	Zm00001d049731	Zm00001d017276	Zm00001d049419
Zm00001d050242	Zm00001d018966	Zm00001d052685	Zm00001d005599	Zm00001d018370	Zm00001d048592
Zm00001d045339	Zm00001d024497	Zm00001d053398	Zm00001d036691	Zm00001d006315	Zm00001d040837
Zm00001d021422	Zm00001d038089	Zm00001d049771	Zm00001d050775	Zm00001d027304	Zm00001d026684
Zm00001d040463	Zm00001d045391	Zm00001d004531	Zm00001d009676	Zm00001d047054	Zm00001d048688
Zm00001d045740	Zm00001d052493	Zm00001d043649	Zm00001d016679	Zm00001d041763	Zm00001d003140
Zm00001d000310	Zm00001d051114	Zm00001d047180	Zm00001d005779	Zm00001d037382	Zm00001d043461
Zm00001d017915	Zm00001d048993	Zm00001d008003	Zm00001d010113	Zm00001d011717	Zm00001d015798
Zm00001d027894	Zm00001d042512	Zm00001d017562	Zm00001d015497	Zm00001d020292	Zm00001d022272
Zm00001d011412	Zm00001d024478	Zm00001d016818	Zm00001d006398	Zm00001d044920	Zm00001d040517
Zm00001d051635	Zm00001d022608	Zm00001d000561	Zm00001d035396	Zm00001d012574	Zm00001d033931
Zm00001d034075	Zm00001d002158	Zm00001d006566	Zm00001d026408	Zm00001d034505	Zm00001d042935
Zm00001d028704	Zm00001d021195	Zm00001d019693	Zm00001d013713	Zm00001d021739	Zm00001d012734
Zm00001d032232	Zm00001d024772	Zm00001d013664	Zm00001d021528	Zm00001d053007	Zm00001d017787
Zm00001d046922	Zm00001d030772	Zm00001d036575	Zm00001d025839	Zm00001d028367	Zm00001d028111
ENSRNA049478662	ENSRNA049461634	Zm00001d050009	Zm00001d028083	Zm00001d020852	Zm00001d014957
Zm00001d044315	Zm00001d026720	Zm00001d035819	Zm00001d005083	Zm00001d028957	Zm00001d007496
Zm00001d013228	Zm00001d013224	Zm00001d013606	Zm00001d042175	Zm00001d047808	Zm00001d035519
Zm00001d037232	Zm00001d023859	Zm00001d012902	Zm00001d031159	Zm00001d037784	Zm00001d049359
Zm00001d023293	Zm00001d018801	Zm00001d026442	Zm00001d051713	Zm00001d016625	Zm00001d020355
Zm00001d036275	Zm00001d016691	Zm00001d031505	Zm00001d021633	Zm00001d019228	Zm00001d052136

Zm00001d016864	Zm00001d038523	Zm00001d015333	Zm00001d025277	Zm00001d031833	Zm00001d011086
Zm00001d021039	Zm00001d008530	Zm00001d043982	Zm00001d002458	Zm00001d017482	Zm00001d017869
ENSRNA049478827	Zm00001d016083	Zm00001d012316	Zm00001d003088	Zm00001d027837	Zm00001d043356
Zm00001d007084	Zm00001d001250	Zm00001d013557	Zm00001d023724	Zm00001d000967	Zm00001d015743
Zm00001d039821	Zm00001d027557	Zm00001d012064	Zm00001d014030	Zm00001d052673	Zm00001d042175
Zm00001d036151	Zm00001d049325	Zm00001d015050	Zm00001d022475	Zm00001d024767	Zm00001d011887
Zm00001d048136	Zm00001d025859	Zm00001d013435	Zm00001d047143	Zm00001d045304	Zm00001d049418
Zm00001d001814	Zm00001d021029	Zm00001d029360	Zm00001d001912	Zm00001d019124	Zm00001d022477
Zm00001d034498	Zm00001d033931	Zm00001d046912	Zm00001d015579	Zm00001d049769	Zm00001d018370
Zm00001d045017	Zm00001d041277	Zm00001d023303	Zm00001d002479	Zm00001d050872	Zm00001d003468
Zm00001d039419	Zm00001d009011	Zm00001d037001	Zm00001d018553	Zm00001d029761	Zm00001d049121
Zm00001d000942	Zm00001d034045	Zm00001d012823	Zm00001d032375	Zm00001d011035	Zm00001d023516
Zm00001d024357	Zm00001d039856	Zm00001d040375	Zm00001d046181	Zm00001d047796	Zm00001d007012
Zm00001d015842	Zm00001d018252	Zm00001d009054	Zm00001d019247	Zm00001d040837	Zm00001d053007
Zm00001d030762	Zm00001d053932	Zm00001d051452	Zm00001d010369	Zm00001d003148	Zm00001d027885
Zm00001d032864	Zm00001d035015	Zm00001d013503	Zm00001d052940	Zm00001d035476	Zm00001d045519
ENSRNA049478963	Zm00001d006882	Zm00001d030821	Zm00001d012509	Zm00001d033338	ENSRNA049454868
ENSRNA049478138	Zm00001d049771	Zm00001d044548	Zm00001d041746	Zm00001d018429	Zm00001d052375
Zm00001d015799	Zm00001d034597	Zm00001d052656	Zm00001d003610	Zm00001d051114	Zm00001d016441
Zm00001d044284	Zm00001d027148	Zm00001d039231	Zm00001d014292	Zm00001d023411	Zm00001d027809
Zm00001d035383	Zm00001d046055	Zm00001d018611	Zm00001d032016	Zm00001d027916	Zm00001d002350
ENSRNA049477485	Zm00001d002437	Zm00001d024664	Zm00001d039538	Zm00001d023580	Zm00001d035321
Zm00001d002071	Zm00001d045433	Zm00001d033061	Zm00001d023759	Zm00001d025831	Zm00001d023870
Zm00001d016647	Zm00001d004817	Zm00001d040823	Zm00001d031119	Zm00001d033391	ENSRNA049459156
Zm00001d020476	Zm00001d000350	Zm00001d051072	Zm00001d027762	Zm00001d020748	Zm00001d028367
Zm00001d035019	Zm00001d033037	Zm00001d019250	Zm00001d047033	Zm00001d034298	Zm00001d033980
Zm00001d021300	Zm00001d022621	Zm00001d010258	Zm00001d007018	Zm00001d036340	Zm00001d023873
Zm00001d029974	Zm00001d006861	Zm00001d011152	Zm00001d051085	Zm00001d003140	Zm00001d006868
Zm00001d037894	Zm00001d011515	Zm00001d008196	Zm00001d015046	Zm00001d028267	Zm00001d023635
Zm00001d035481	Zm00001d004976	Zm00001d034772	Zm00001d017471	Zm00001d007858	Zm00001d002934
Zm00001d045657	Zm00001d042753	Zm00001d037794	Zm00001d027788	Zm00001d038925	Zm00001d016771
Zm00001d008142	Zm00001d003966	Zm00001d004914	Zm00001d016180	Zm00001d025323	Zm00001d047087
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<i>Zm00001d010684</i>	<i>Zm00001d041753</i>
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<i>Zm00001d040188</i>	<i>Zm00001d033098</i>
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<i>Zm00001d043101</i>	<i>Zm00001d028410</i>
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<i>Zm00001d003877</i>	<i>Zm00001d017251</i>
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<i>Zm00001d027468</i>	<i>Zm00001d029676</i>
<i>Zm00001d051452</i>	<i>Zm00001d029461</i>

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<i>Zm00001d011069</i>	<i>Zm00001d021180</i>
<i>Zm00001d034519</i>	<i>Zm00001d011269</i>
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<i>Zm00001d034055</i>	<i>Zm00001d011569</i>
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<i>Zm00001d019725</i>	<i>Zm00001d024866</i>
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<i>Zm00001d028389</i>	<i>Zm00001d021459</i>
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<i>Zm00001d021935</i>	<i>Zm00001d048307</i>
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<i>Zm00001d036050</i>	<i>Zm00001d019589</i>
<i>Zm00001d022467</i>	<i>Zm00001d021473</i>
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Zm00001d051520	Zm00001d032209
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Zm00001d006522	Zm00001d017849
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Zm00001d050606	Zm00001d032681
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	<i>Zm00001d044667</i>
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**Table 5.6 Commonly differentially expressed genes between group 5 and group 6**

S.No	Gene Name	CHR	Position	Description
				uncharacterized protein
1	Zm00001d025347	10	115120324	[Source:UniProtKB/TrEMBL;Acc:B6SVC3]
2	Zm00001d013692	5	17664188.5	Translation initiation factor eIF-2B delta subunit
3	Zm00001d047671	9	138754825	Transcription factor MYB12
4	Zm00001d007827	2	240432172	early light inducible protein1
5	Zm00001d020589	7	123818662	DUF581 family protein
6	Zm00001d017279	5	191540146	phenylalanine ammonia lyase7
7	Zm00001d034839	1	303575037	Purple acid phosphatase 15
8	Zm00001d009858	8	85447908	Trans-cinnamate 4-monooxygenase
9	Zm00001d026649	10	149383191	opaque endosperm7
10	Zm00001d023870	10	25715866.5	Glutaredoxin-C13
11	Zm00001d044339	3	225458719	aldehyde dehydrogenase3
12	Zm00001d003044	2	30145769.5	Beta-glucosidase 47
13	Zm00001d052380	4	188749394	scarecrow1

14	<i>Zm00001d035178</i>	6	8038176.5	Cytochrome P450 71A26
15	<i>Zm00001d010798</i>	8	128194703	oxidative stress 3
16	<i>Zm00001d018940</i>	7	9987767	early light inducible protein2
17	<i>Zm00001d044683</i>	3	234824932	Probable chalcone--flavonone isomerase 3
18	<i>Zm00001d047452</i>	9	130653189	Putative cytochrome P450 superfamily protein
19	<i>Zm00001d041418</i>	3	118361388	Auxin-responsive protein IAA4
20	<i>Zm00001d006595</i>	2	211792291	Sphingosine kinase 1
21	<i>Zm00001d017276</i>	5	191475753	phenylalanine ammonia lyase8
22	<i>Zm00001d018370</i>	5	219422693	Leucine aminopeptidase 2 chloroplastic
23	<i>Zm00001d006315</i>	2	204314883	Mitochondrial phosphate carrier protein 1 mitochondrial
24	<i>Zm00001d027304</i>	1	2300518	ATPase 2 plasma membrane-type
25	<i>Zm00001d047054</i>	9	116808080	Pyruvate kinase
26	<i>Zm00001d041763</i>	3	136454947	Cytokinin-O-glucosyltransferase 2
27	<i>Zm00001d037382</i>	6	123792319	UDP-glycosyltransferase 72B1
28	<i>Zm00001d011717</i>	8	159813039	Ras-related protein RABG3a
29	<i>Zm00001d020292</i>	7	104445006	MND1-interacting protein 1
30	<i>Zm00001d044920</i>	9	7249014.5	NAD(P)H dehydrogenase C1
31	<i>Zm00001d012574</i>	8	176824914	Probable inactive purple acid phosphatase 1
32	<i>Zm00001d034505</i>	1	294872953	Vesicle-associated membrane protein 722
33	<i>Zm00001d021739</i>	7	161898567	PLAC8 family protein
34	<i>Zm00001d053007</i>	4	208798453	
35	<i>Zm00001d028367</i>	1	32295882.5	Purple acid phosphatase 3
36	<i>Zm00001d020852</i>	7	134726349	Cellulose synthase-like protein E1
37	<i>Zm00001d028957</i>	1	52861314	F-box protein
38	<i>Zm00001d047808</i>	9	142334122	initiator binding protein1
39	<i>Zm00001d037784</i>	6	137682333	salmon silks 1
40	<i>Zm00001d016625</i>	5	170513819	Os02g0519800 protein
41	<i>Zm00001d019228</i>	7	22846567.5	ZIP zinc/iron transport family protein
42	<i>Zm00001d031833</i>	1	203133985	Mitochondrial 2-oxoglutarate/malate carrier protein
43	<i>Zm00001d017482</i>	5	197273955	Uncharacterised conserved protein (UCP012943)
44	<i>Zm00001d027837</i>	1	14703378	Cytochrome P450 704B1
45	<i>Zm00001d000967</i>	2	168529174	
46	<i>Zm00001d052673</i>	4	196894869	Chalcone synthase C2
47	<i>Zm00001d024767</i>	10	87219622	Aspartic proteinase A1
48	<i>Zm00001d045304</i>	9	18542014	HXXXD-type acyl-transferase family protein
49	<i>Zm00001d019124</i>	7	18108113.5	viviparous9
50	<i>Zm00001d049769</i>	4	44000863.5	SMR7 [Source:UniProtKB/TrEMBL;Acc:K7TXW6]

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51	<i>Zm00001d050872</i>	4	127893863	loricrin-related
52	<i>Zm00001d029761</i>	1	86064164	Protein PLASTID MOVEMENT IMPAIRED 1
53	<i>Zm00001d011035</i>	8	137158360	Glutathione S-transferase DHAR2 Trifunctional UDP-glucose 46-dehydratase/UDP-4-keto-6-deoxy-D-glucose 35-epimerase/UDP-4-keto-L-rhamnose-reductase RHM2
54	<i>Zm00001d047796</i>	9	141981466	Glutaredoxin-C13
55	<i>Zm00001d040837</i>	3	69486030.5	Enhancer of rudimentary homolog
56	<i>Zm00001d003148</i>	2	33776122.5	L-type lectin-domain containing receptor kinase VIII.1
57	<i>Zm00001d035476</i>	6	28520878	NAD(P)-linked oxidoreductase superfamily protein
58	<i>Zm00001d033338</i>	1	259501027	phosphoenolpyruvate carboxylase kinase1
59	<i>Zm00001d018429</i>	5	220588956	PseudoARR-B transcription factor%3B Two-component response regulator-like PRR1
60	<i>Zm00001d051114</i>	4	143869172	myb-like transcription factor family protein
61	<i>Zm00001d023411</i>	10	5024672.5	Phosphoinositide phosphatase SAC2
62	<i>Zm00001d027916</i>	1	17543475	Aldehyde dehydrogenase
63	<i>Zm00001d023580</i>	10	10655734.5	ammonium transporter1
64	<i>Zm00001d025831</i>	10	131244719	
65	<i>Zm00001d033391</i>	1	261540765	
66	<i>Zm00001d020748</i>	7	131104329	Polyadenylate-binding protein RBP47B
67	<i>Zm00001d034298</i>	1	288723275	Transcription factor PIF4
68	<i>Zm00001d036340</i>	6	84777752.5	photosystem II1
69	<i>Zm00001d003140</i>	2	33435920.5	Cytochrome P450 71A26
70	<i>Zm00001d028267</i>	1	28640715.5	trehalose-6-phosphate synthase2
71	<i>Zm00001d007858</i>	2	241035837	Pyridoxal reductase chloroplastic
72	<i>Zm00001d038925</i>	6	167144298	
73	<i>Zm00001d025323</i>	10	114055622	Probable protein phosphatase 2C 40
74	<i>Zm00001d008625</i>	8	15172659	Inner membrane protein ALBINO3 chloroplastic
75	<i>Zm00001d016588</i>	5	168634817	Glycerophosphodiester phosphodiesterase GDPD2
76	<i>Zm00001d008987</i>	8	28721609.5	Putative cytochrome P450 superfamily protein
77	<i>Zm00001d018348</i>	5	218962103	PAP fibrillin family protein
78	<i>Zm00001d012488</i>	8	175395279	Major facilitator superfamily protein
79	<i>Zm00001d018891</i>	7	8486312	chloroplast RNA processing4
80	<i>Zm00001d028954</i>	1	52838954	Guanylate kinase
81	<i>Zm00001d015356</i>	5	86085705	4-hydroxyphenylpyruvate dioxygenase 1
82	<i>Zm00001d007403</i>	2	230955206	Chalcone synthase WHP1
83	<i>Zm00001d025526</i>	10	121361382	serine carboxypeptidase1
84	<i>Zm00001d035136</i>	6	6622021	succinate dehydrogenase7

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85	<i>Zm00001d015268</i>	5	82141111	Protein CHLOROPLAST IMPORT APPARATUS 2
86	<i>Zm00001d039634</i>	3	9746858.5	dwarf plant1
87	<i>Zm00001d020915</i>	7	136481022	Pirin-like protein 2
88	<i>Zm00001d044541</i>	3	231341014	SPX domain-containing protein 3
89	<i>Zm00001d045519</i>	9	25259556	Oligopeptide transporter 7
90	<i>Zm00001d038205</i>	6	151493961	barley mlo defense gene homolog8
91	<i>Zm00001d028153</i>	1	24330997	30S ribosomal protein S10 chloroplastic
92	<i>Zm00001d037257</i>	6	118385816	Chaperone protein dnaJ 16
93	<i>Zm00001d040570</i>	3	50657903	Encodes alpha-helical IF (intermediate filament)-like protein.
94	<i>Zm00001d015743</i>	5	115453849	Transcription factor HY5
95	<i>Zm00001d002168</i>	2	7090226.5	Receptor-like serine/threonine-protein kinase SD1-8
96	<i>Zm00001d053616</i>	4	236548172	26S protease regulatory subunit 8 homolog B
97	<i>Zm00001d008591</i>	8	13720926.5	Octicosapeptide/Phox/Bem1p family protein
98	<i>Zm00001d002999</i>	2	29176703	gibberellin 2-oxidase2
99	<i>Zm00001d042567</i>	3	172185663	RNA polymerase III RPC4
100	<i>Zm00001d027581</i>	1	8372880	GATA zinc finger domain-containing protein 10
101	<i>Zm00001d011734</i>	8	160235544	Inorganic pyrophosphatase 1
102	<i>Zm00001d048609</i>	4	1279172	Serine/arginine-rich SC35-like splicing factor SCL30
103	<i>Zm00001d034319</i>	1	289131364	Dihydroceramide fatty acyl 2-hydroxylase FAH1 Probable xyloglucan endotransglucosylase/hydrolase protein
104	<i>Zm00001d024378</i>	10	68055481	21
105	<i>Zm00001d016408</i>	5	161312975	
106	<i>Zm00001d046300</i>	9	79372625	phosphatidylethanolamine-binding protein26
107	<i>Zm00001d044468</i>	3	228987305	maternal effect embryo arrest 18
108	<i>Zm00001d052034</i>	4	177029201	Thioredoxin H-type 2
109	<i>Zm00001d021709</i>	7	160910217	isopentenyl pyrophosphate isomerase1
110	<i>Zm00001d004768</i>	2	137854898	Glycosyl hydrolase superfamily protein
111	<i>Zm00001d044929</i>	9	7561143	
112	<i>Zm00001d005300</i>	2	168528374	Transcription factor MYB44
113	<i>Zm00001d021180</i>	7	145139294	BAG-associated GRAM protein 1
114	<i>Zm00001d021050</i>	7	141290294	Ribulose-phosphate 3-epimerase
115	<i>Zm00001d044975</i>	9	8984084.5	Anthocyanin regulatory C1 protein
116	<i>Zm00001d003493</i>	2	46025508	ribosomal protein L32 homolog32
117	<i>Zm00001d028122</i>	1	23498131	
118	<i>Zm00001d048719</i>	4	4178671	Glutaredoxin-C13
119	<i>Zm00001d032947</i>	1	244393271	Chitinase 1
120	<i>Zm00001d047253</i>	9	124181522	sucrose synthase1

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121	<i>Zm00001d013230</i>	5	6782733	bentazon resistance1
122	<i>Zm00001d010743</i>	8	126502877	Putative CBL-interacting protein kinase family protein
123	<i>Zm00001d023873</i>	10	25872553	Glutaredoxin-C13
124	<i>Zm00001d016771</i>	5	175544537	Ammonium transporter 2
125	<i>Zm00001d043411</i>	3	199020259	gibberellin 2-oxidase3
126	<i>Zm00001d048721</i>	4	4186003.5	Lipase
127	<i>Zm00001d044133</i>	3	220058826	
128	<i>Zm00001d030090</i>	1	104850981	NAD(P)-binding Rossmann-fold superfamily protein
129	<i>Zm00001d042443</i>	3	167614695	BTB/POZ and TAZ domain-containing protein 2
130	<i>Zm00001d023277</i>	10	2015945.5	Protein DETOXIFICATION 21
131	<i>Zm00001d037174</i>	6	114781975	
132	<i>Zm00001d039541</i>	3	7731794.5	C2H2 and C2HC zinc fingers superfamily protein
133	<i>Zm00001d016019</i>	5	139874236	
134	<i>Zm00001d035243</i>	6	16654316	Amino acid permease 6
135	<i>Zm00001d025572</i>	10	122643495	Sugar transport protein 5
136	<i>Zm00001d046385</i>	9	86540056	
137	<i>Zm00001d040836</i>	3	69002645.5	Glutaredoxin-C13
138	<i>Zm00001d004635</i>	2	124421702	Leucine-rich repeat protein kinase family protein
139	<i>Zm00001d029715</i>	1	83660652.5	alpha/beta-Hydrolases superfamily protein
140	<i>Zm00001d000060</i>	B73V4_ctg10	293066.5	NAD(P)-linked oxidoreductase superfamily protein
141	<i>Zm00001d024783</i>	10	87874442.5	Putative HLH DNA-binding domain superfamily protein
142	<i>Zm00001d034721</i>	1	300734096	RNA helicase4
143	<i>Zm00001d009967</i>	8	92807995	UDP-sulfoquinovose synthase chloroplastic
144	<i>Zm00001d013825</i>	5	21493565	
145	<i>Zm00001d013443</i>	5	11711634	CCT motif family protein
146	<i>Zm00001d046555</i>	9	95833744.5	embryo specific18
147	<i>Zm00001d032598</i>	1	231629820	Transducin/WD40 repeat-like superfamily protein
148	<i>Zm00001d032300</i>	1	221084369	Major facilitator superfamily protein
149	<i>Zm00001d048763</i>	4	5143215.5	ARM repeat superfamily protein
150	<i>Zm00001d006539</i>	2	210702290	Beta-amylase
151	<i>Zm00001d036965</i>	6	107625990	Zinc transporter 4
152	<i>Zm00001d039280</i>	3	973779.5	Probable ubiquitin-conjugating enzyme E2 25
153	<i>Zm00001d033456</i>	1	263159417	
154	<i>Zm00001d039077</i>	6	169626862	Ethylene-responsive transcription factor ERF061
155	<i>Zm00001d039105</i>	6	170117612	Putative MAP kinase family protein
156	<i>Zm00001d011890</i>	8	164047091	cytokinin oxidase 3
157	<i>Zm00001d040599</i>	3	52510270.5	Quinolate synthase chloroplastic

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			Putative ATPase%2C V1 complex%2C subunit B protein isoform 1%3B Putative ATPase%2C V1 complex%2C subunit B protein isoform 2%3B Vacuolar ATP synthase subunit B
158	<i>Zm00001d036961</i>	6	107441038 isoform 1
159	<i>Zm00001d021507</i>	7	154422246 Asparagine--tRNA ligase chloroplastic/mitochondrial
160	<i>Zm00001d042867</i>	3	182502083 Bowman-Birk inhibitor1
161	<i>Zm00001d046112</i>	9	63975262.5 Spermidine synthase
162	<i>Zm00001d042830</i>	3	181378809 Duplicated homeodomain-like superfamily protein
163	<i>Zm00001d023865</i>	10	25419347
164	<i>Zm00001d014794</i>	5	63462369.5 physical impedance induced protein2
165	<i>Zm00001d029325</i>	1	65991946 RNA-binding protein CP29B chloroplastic
166	<i>Zm00001d038891</i>	6	166504617 Phosphoethanolamine N-methyltransferase 3 P-loop containing nucleoside triphosphate hydrolases
167	<i>Zm00001d044208</i>	3	221910583 superfamily protein
168	<i>Zm00001d023869</i>	10	25662202 Glutaredoxin-C13
169	<i>Zm00001d011144</i>	8	140401675 DCD (Development and Cell Death) domain protein
170	<i>Zm00001d014072</i>	5	31557892.5
171	<i>Zm00001d039296</i>	3	1214210.5 Casein kinase I isoform delta-like
172	<i>Zm00001d004564</i>	2	118179174 Aconitate hydratase 3 mitochondrial
173	<i>Zm00001d016832</i>	5	177782147 Protein AIG1
174	<i>Zm00001d015618</i>	5	101495781 Probable cinnamyl alcohol dehydrogenase
175	<i>Zm00001d034630</i>	1	298531688 Leukotriene A-4 hydrolase homolog
176	<i>Zm00001d043031</i>	3	187051458 Nodulin-like protein
177	<i>Zm00001d043025</i>	3	186842349 Probable WRKY transcription factor 33
178	<i>Zm00001d040517</i>	3	47815953 Vegetative cell wall protein gp1
179	<i>Zm00001d037060</i>	6	110983985 DNAJ heat shock N-terminal domain-containing protein
180	<i>Zm00001d011080</i>	8	138416774 Protease inhibitor%3B Proteinase inhibitor
181	<i>Zm00001d019207</i>	7	21928570 NAC domain-containing protein 2
182	<i>Zm00001d006446</i>	2	208457910 salmon silk2
183	<i>Zm00001d008600</i>	8	14149731.5 Sulfoquinovosyl transferase SQD2
184	<i>Zm00001d017907</i>	5	209973870 Protein TIC 20-v chloroplastic Photosynthetic NDH subunit of lumenal location 5
185	<i>Zm00001d011104</i>	8	139083857 chloroplastic
186	<i>Zm00001d039177</i>	6	171867941 Polygalacturonase inhibitor 1
187	<i>Zm00001d022237</i>	7	173380259 RNA binding protein 1
188	<i>Zm00001d002943</i>	2	27774518.5 Probable methyltransferase PMT25
189	<i>Zm00001d028571</i>	1	39420976.5 Digalactosyldiacylglycerol synthase 2 chloroplastic

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190	<i>Zm00001d052781</i>	4	200740966	Two-component response regulator-like APRR9 Pyridoxal phosphate (PLP)-dependent transferases superfamily
191	<i>Zm00001d052731</i>	4	199255097	protein
192	<i>Zm00001d011086</i>	8	138469099	Actin-7
193	<i>Zm00001d047392</i>	9	128621477	Transducin/WD40 repeat-like superfamily protein
194	<i>Zm00001d013113</i>	5	4877792	Expp1 protein
195	<i>Zm00001d017849</i>	5	208735187	
196	<i>Zm00001d006137</i>	2	199599252	UDP-glycosyltransferase 74B1
197	<i>Zm00001d034532</i>	1	295770183	Vacuolar protein sorting-associated protein 32 homolog 1
198	<i>Zm00001d007572</i>	2	235056963	CRM family member3
199	<i>Zm00001d006107</i>	2	198321750	pyruvate dehydrogenase3
200	<i>Zm00001d010061</i>	8	97789957.5	
201	<i>Zm00001d016066</i>	5	142584427	F-box/kelch-repeat protein
202	<i>Zm00001d014990</i>	5	71268342	WD repeat-containing protein RUP2
203	<i>Zm00001d003379</i>	2	42235004.5	Major latex protein 22%3B Pathogenesis-related protein 2
204	<i>Zm00001d015844</i>	5	125784919	alpha/beta hydrolase family protein
205	<i>Zm00001d020463</i>	7	116458535	Sugar transport protein 7
206	<i>Zm00001d003311</i>	2	39752987	Probable 2-oxoglutarate-dependent dioxygenase AOP1
207	<i>Zm00001d017178</i>	5	188140244	
208	<i>Zm00001d049965</i>	4	56194102	Ribonucleoprotein
209	<i>Zm00001d028038</i>	1	21193911	Methionine--tRNA ligase chloroplastic/mitochondrial
210	<i>Zm00001d048720</i>	4	4182079.5	Glutaredoxin-C13
211	<i>Zm00001d028229</i>	1	27304216.5	myosin-related
212	<i>Zm00001d031979</i>	1	208400976	Dihydroneopterin aldolase 2
213	<i>Zm00001d034986</i>	6	841923	Cytochrome P450 71A26
214	<i>Zm00001d032132</i>	1	214041481	
215	<i>Zm00001d038248</i>	6	152314844	RNA-binding (RRM/RBD/RNP motifs) family protein
216	<i>Zm00001d017787</i>	5	206754709	Monodehydroascorbate reductase 4 peroxisomal
217	<i>Zm00001d047128</i>	9	119416665	MureinE1
218	<i>Zm00001d032138</i>	1	214254429	

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