

Supplemental Figure S1. Multiple sequence alignments of ELF3 orthologs (A) and percentage of identical amino acid sequences (B). Protein sequences of AtELF3 (AT2G25930.1), BdELF3 (Bradi2g14290.1), SvELF3a (Sevir.5G206400.1) and SvELF3b (Sevir.3G123200.1) were used for multiple sequence alignments and for generating percentage of identical amino acids by Clustal Omega alignment with default parameters.

Supplemental Figure S2. Diel and circadian expression of *BdELF3* from the DIURNAL database. GCRMA (GeneChip Robust Multiarray Averaging) values from the DIURNAL database (Mockler et al., 2007) were plotted to show time-course expression profiles of *Bradi2g14290* (*BdELF3*) under either diel (A) or circadian conditions (B). Diel expression of *AtELF3* from DIURNAL database was used for comparison in (A). Shade boxes indicate dark periods. In (B), Circadian expression data was obtained by entraining plants with either photo- (LDHH) or thermo- (LLHC) conditions followed by sampling under the Free-Running condition (F) with constant light and temperature.

Supplemental Figure S3. Example of the Diel Explorer interface. The search interface (left) and plotting interface of Diel Explorer are shown (right). Users can search by gene or ortholog id, or by gene ontology term. Alternately, users can filter data by period, phase (lag) or significance cut offs. Data can be plotted in a line graph or heatmap.

Supplemental Figure S4. Summary of circadian regulated genes in *S. viridis*. Distribution of circadian regulated genes in *S. viridis* was plotted by their phases, with the y axis showing the number of genes considered significantly (Bonferroni Adjusted P-Value < 0.001) cycling under photo- (LDHH) or thermo- (LLHC) entrainment in *S. viridis* followed by free-running condition (F).

Supplemental Figure S5. Circadian expression of selected *A. thaliana* clock genes from the DIURNAL database. GCRMA (GeneChip Robust Multiarray Averaging) values were plotted to show time-course expression profiles of selected *A. thaliana* clock genes under

either photo- (LL23_LDHH) or thermo-entrainment (LL_LLHC) from the DIURNAL database (Mockler et al., 2007). Each gene cycles with a correlation of > 0.9 when compared to a best fit model (24-hour rhythm).

Supplemental Figure S6. Anti-FLAG western of ELF3 transgenic lines used for complementation analysis. Representative blot of protein extracts from day 12 seedlings taken at Zeitgeber time 12 grown under 12-hour light :12-hour dark growth conditions at 22 °C that were probed with FLAG antibody to detect the 3xFLAG epitope. RPT5 is used as a loading control.

Supplemental Figure S7. Relative Amplitude Error vs period plots. The periods and relative amplitude error (RAE) of 8 AtELF3 *elf3-2* (A), BdELF3 *elf3-2* (B), and SvELF3 *elf3-2* (C) seedlings were plotted along with wild type and *elf3-2* mutants (Note, only 3 of 8 *elf3* seedlings has measurable rhythms). RAE=0.5 was used as a cutoff (dotted line), above which a seedling is not considered rhythmic (Plautz et al., 1997). Note that wild type and *elf3* mutant data were reproduced on all plots for comparison purposes.

Supplemental Figure 1

A

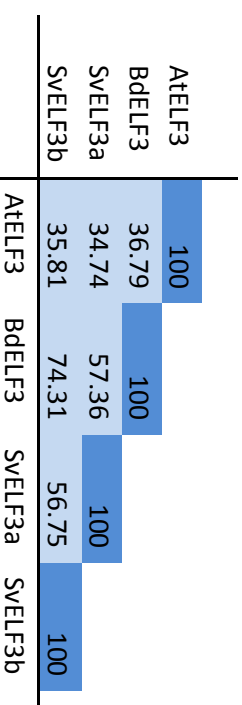
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 SVELLF3a 1 **W**R**G****G**A**G****G**R**E****L**O**G**K**V**G**P**L**F**P**R**L**H**V**S** **G**A**K**G**G**G**P**R**A**P**R**I**N**K**A**L**Y**E**O**F **V**S**S** **R**E**F**S
 SVELLF3b 1 **M**R**R**-**G**A**G**K---**D**E**A**D**K**V**G**V**G**P**L**F**P**R**L**H**V**N**D**I**V**K **G**G**P**R**A**P**R**I**N**K**M**A**L**Y**E**O**F**S**V**S**H**R**E**F**S**A
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 BDELF3 51 **H**R**A**S-----**S**S**A**L**S****S**A**S**P**C**O**I**G**S**D**R**P**L**E**P**S**F**C**V**E**S**N**E**A**R**S**S**H
 SVELLF3a 61 **S**A**S****S**T**R**A-----**A**G**S**L**V** **S**T**S**A**S**O**I**X**S**S**R**P**L**E**H**O**H**D**V**S**N**G**P**H**S**S**E**K
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 BDELF3 99 **I**N**T**S**N**G**R**D**E**N**A**T**R**E**S**G**R**S**T**O**L**K**S**K**D**V**A**A**G**S**T**A**E**C**S**S**O**R**E**-**N**S**V**K**N**S**G**K**K**I **I**N**D**D
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 BDELF3 208 **N**T**D**K**R****I**E**G**T**N**V**S**D**K**R**S**D**S**E**P**I**K**A**P**E**T**M**T**N**L** **V**E**R**S**S**P**O**I**S**K**E**K**A**G**A**D**K****L**S**S**
 SVELLF3a 216 **S**A**V**N**R****H**L**E**R**I****D**E**S**D**V**S**M**S**S**R**K**I**K**E**K**E**S**V**O**G**K**I**V**E**E****S**L**E**P**O**A**K**E**K**K**N**K**D**A**K**A**C**O
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 BDELF3 268 **H**R**D**K**L****S**D**L**N**V****D**K**O****H**A**R**T**E****H**O**A**R**R**I**N**E**N**A**E**S**O**A**A**F**K**A**N**G**P**S**S**---**I**N---**E**R**N**G**A**S
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 SVELLF3a 334 **N**L**D**S**L**R**E**L**S**K**R**K---**R**G**H**-**D**V**E** **O**N**D**I**S**D**S**S**V**E**C****P**G**M**E**S**P**D**E**L**V**G**A**I**G**R**K**H**F**M**K
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 BDELF3 492 **I**S**N**P**A** **P**A**A****E**D**N**K**S****N****W**O**L**E**F**-----**O**N**O****M**L**V**P**V**M**S**P**S**E**G**L**V****K**K**P****V****G****C**P**P**A**G**S**F**L
 SVELLF3a 503 **I**S**N**P**P****M**P**A****E**D**N**K**O**N**W**O**L****E****F**-----**O**N**O****M**L**V**P**V**M**S**P**S**E**G**L**V****K**K**P****V****A**G**P**C**P****E****L****G**S**L**
 SVELLF3b 505 **I**S**N**P**P****M**P**T**P**S**D**N**K**O**N**W**O**L** **E**P**F**-----**P****O****W**L**V**P**V**M**S**P**S**E**G**L**V****K**K**P****V****A**G**H****C**P**P**A**G**S**F**L
 ABELEF3 497 **G****G****Y**-----**G**H**M**P**T**P**M**V---**P**O**Y**H**P****G**M**G**R-----**P**R**P**G**N**G**X**P**P**R**G**M**P**T**I**N
 BDELF3 545 **A**P**F****A**S**C**A**P**L**S**L**P**S**T**A**G**D**E**N**S****P****Y**G**L****H**M**P**H**O**P**O**H**W**G**G**P**P** **P**M**P****E****M****P****F****P****F****S****M**P---**V**M
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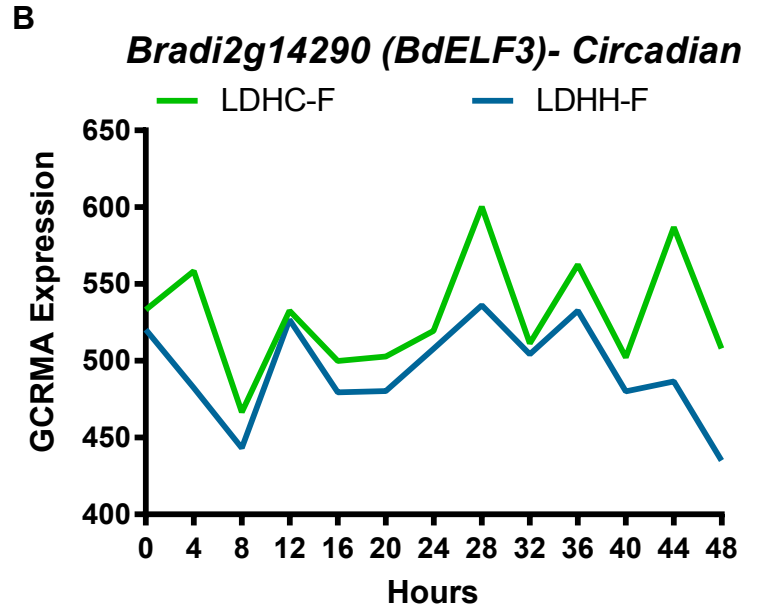
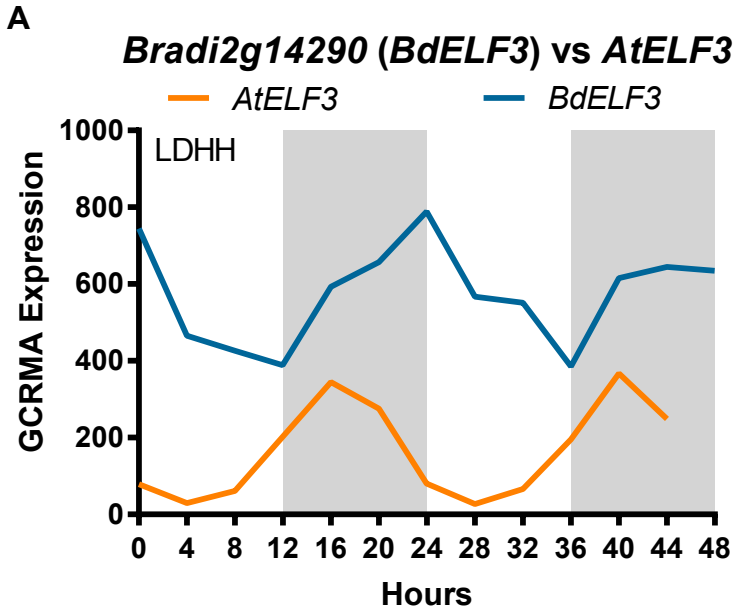
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 SVELLF3b 617 **T**H**V**S**A**S**A**V**E**O**V**S**H**A**A**S**H**E**N**G**H** **E**O**H**S**R**S**S**C**N**M**S**N-----**I**R**S**E**A**L**S**A**D**I-----**W**R**F**H
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ABELEF3 648 **V**T**O****L****P**D**C**G**V**T**E**V**I****K****V**P**H**N**A****K**L**A**S**E****N**A**A**R**L**I**O**S**I**O**E**R**K**R**D**S**K**P
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ATELF3 AT12G25930.1
 BDELf3 Brad12g14290.1
 SVELLF3a Sevir.5G206400.1
 SVELLF3b Sev.ir.3G123200.1



Supplemental Figure 2



Diel Explorer

Welcome Sample Info Search and Browse Data Plot Data Adding Your Own Data Contact Us

Search Data with GENEID or GO

Search using small sets of GENEIDS

GENEIDS, Orthologs, or GO separated by a comma are allowed
example: **Sevir:2G310Z00.1,Sevir:1G000100.1**

Search using small sets of GO TERMS

example: **GO:00:0008270**

Search using small sets of ORTHOLOG GENEIDS

example: **AT3G17390.1,LOC_0501g59080.1**

refresh page to clear search

Search Data with File

Genes, Orthologs, or GO Selected with Search

Browse and Filter Data

Normalize Data

Yes

NO

Species:

All

Entrainment:

ldhlf

Benjamin-Hochberg Q-Value:

1e-06

Adjusted P-Value:

1e-06

Period:

All

Lag (Phase):

2

Download Selected Data

Show 25 entries

GENEID	BH Q	ADLP	PERIOD	LAG	AMPLITUDE	dataset	species	locusName
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Sevir:2G310Z00.1	1.01e-12	5.19e-16	26	2	5909.517645	ldhlf	setana.viridis	Sevir:2G310Z00
Sevir:3G255600.1	6.17e-08	8.12e-10	26	2	173.735429	ldhlf	setana.viridis	Sevir:3G255600
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Sevir:9G089300.1	2.31e-08	2.52e-10	26	2	3.249368	ldhlf	setana.viridis	Sevir:9G089300
Sevir:9G175700.1	4.18e-10	1.73e-12	26	2	1316.979309	ldhlf	setana.viridis	Sevir:9G175700
Sevir:9G369500.1	1.01e-07	2.50e-09	28	2	2.346460	ldhlf	setana.viridis	Sevir:9G369500

Showing 1 to 9 of 9 entries

Previous 1 Next

Diel Explorer

Welcome Sample Info Search and Browse Data Plot Data Adding Your Own Data Contact Us

Plot Data

Warning: Attempting to plot too much data on line graph will be slow/unresponsive and messy.

Plot Selected Data as Line Graph

Plot Selected Data as Heatmap

Color Line Graph By

Dataset

GENEID

Scale Heatmap

Row

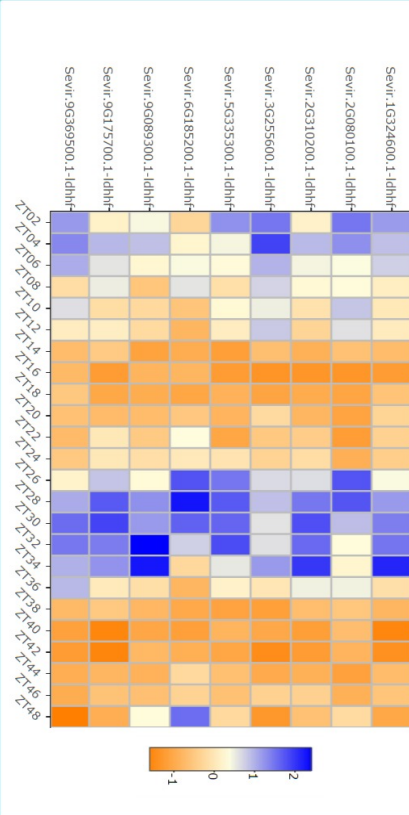
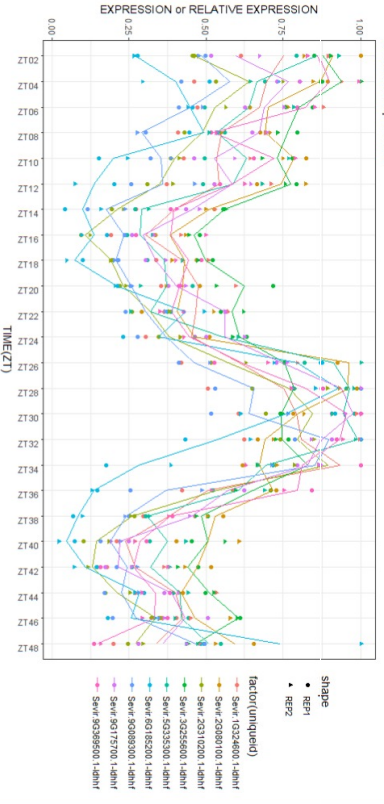
Column

Average Replicates

Yes

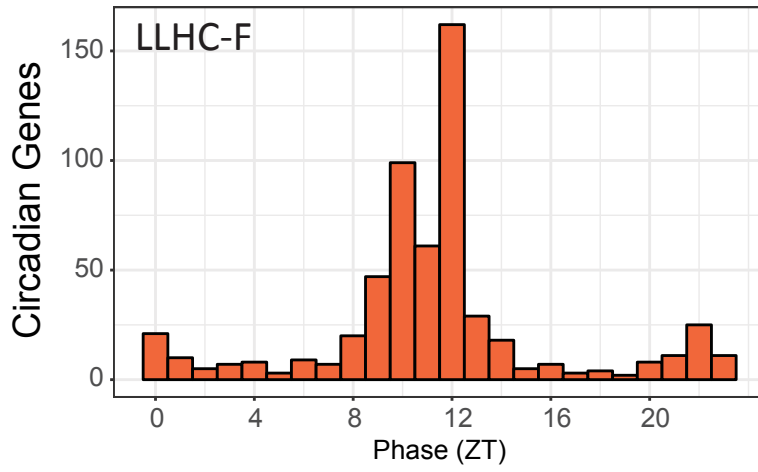
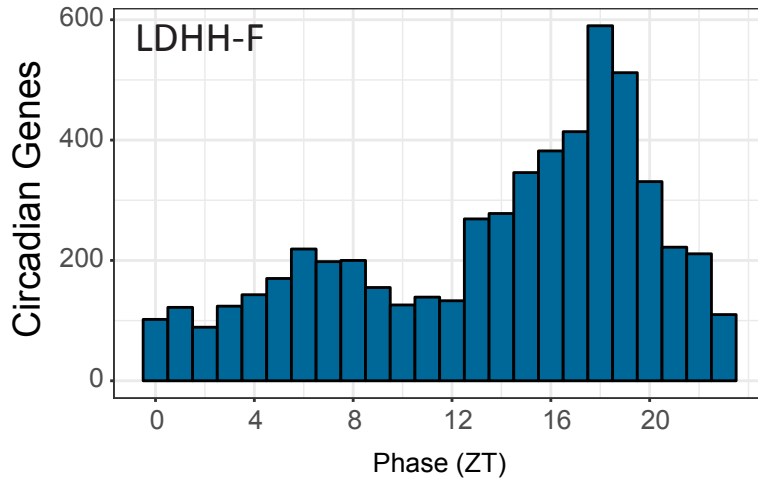
No

Download Line Graph Download Heatmap



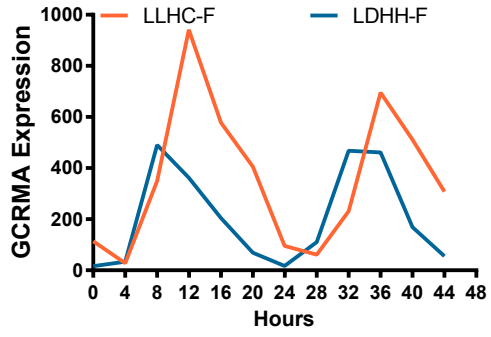
Supplemental Figure 4

Phase of Circadian Genes in *S. viridis*

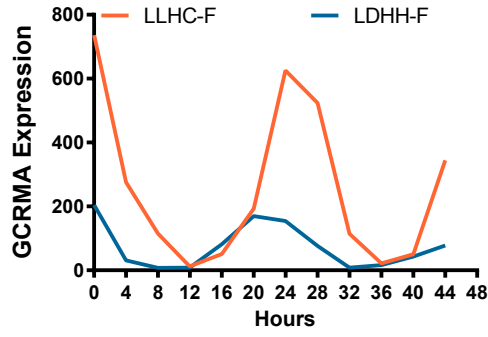


Supplemental Figure 5

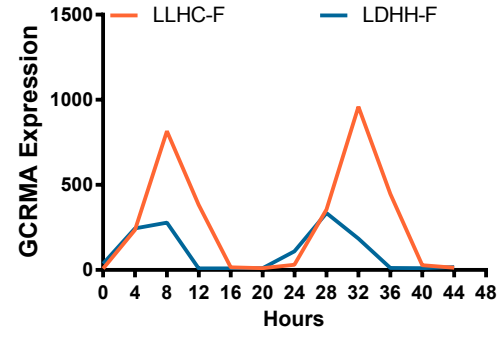
AT5G61380 (AtTOC1)



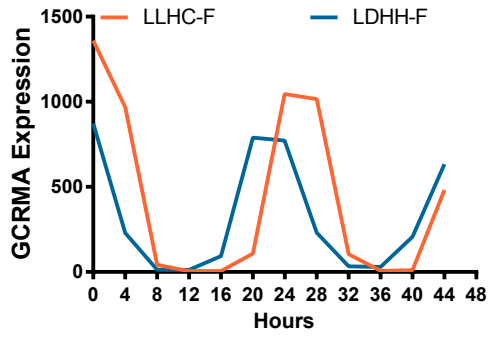
AT5G17300 (AtRVE1)



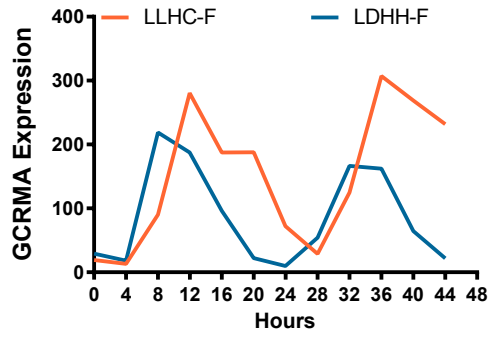
AT5G02810 (AtPRR7)



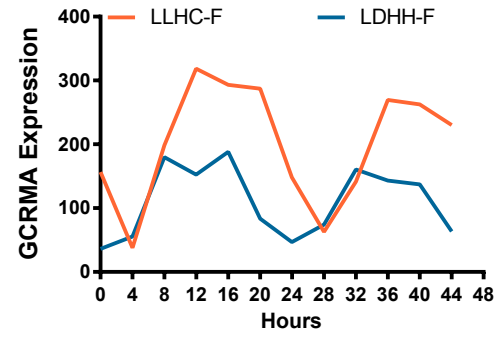
AT1G01060 (AtLHY)



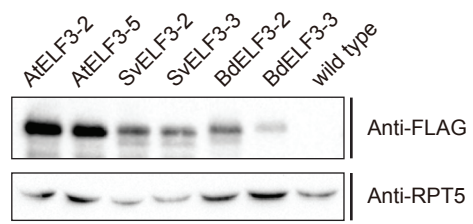
AT3G46640 (AtLUX)



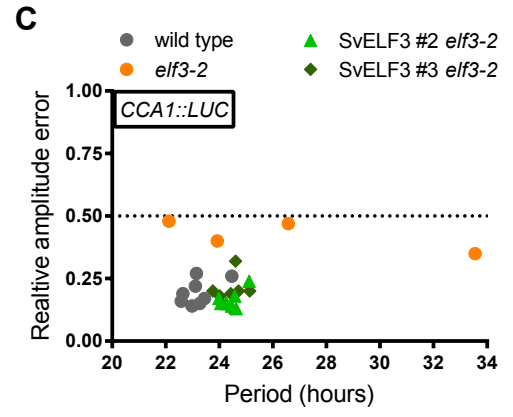
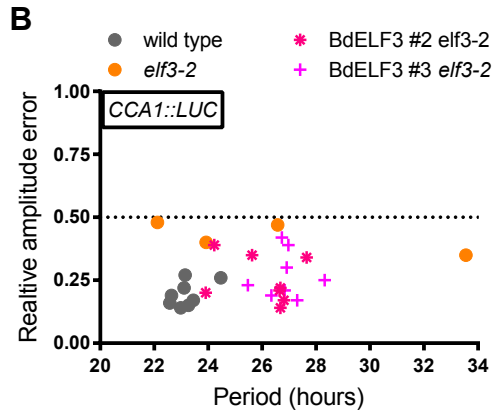
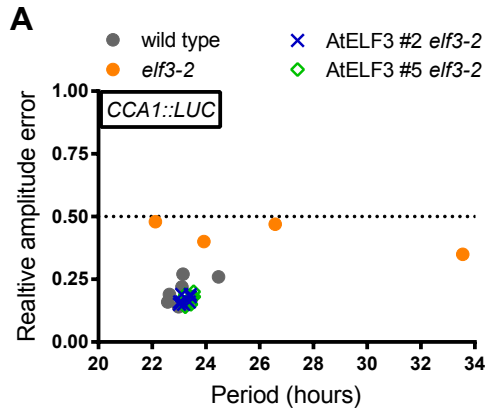
AT2G25930 (AtELF3)



Supplemental Figure 6



Supplemental Figure 7



Supplemental Table 1. List of all primers used.

Primers used for cloning <i>At/Bd/SvELF3</i> coding sequence (CDS) without any stop codon ^a		
Amplified Fragments	Forward primer (5'→3')	Reverse primer (5'→3')
<i>AtELF3</i>	<u>CACCAT</u> GAAGAGAGGGGAAAGATGAG	AGGCTTAGAGGAGTCATAGCG
<i>SvELF3</i>	<u>CACCAT</u> GACGAGGGGAGGTG	TGGGTCATTTGTCGCCTCTCC

Primers used to generate yeast two-hybrid constructs, all with a stop codon ^a		
Amplified fragments	Forward primer (5'→3')	Reverse primer (5'→3')
<i>BdELF3-stop</i>	<u>CACCAT</u> GAGGAGGGGCGGCGG	TTACGGATCATTCTGTTGCCTCTCC
<i>SvELF3-stop</i>	<u>CACCAT</u> GACGAGGGGAGGTG	CTATGGGTCATTTGTCGCCTCTCC
<i>AtELF4</i>	<u>CACCAT</u> GAAGAGGAACGGCGAGACGA	TTAAGCTCTAGTTCGGCAGCACC
<i>AtLUX-Nt</i> (amino acids 1-143)	<u>CACCAT</u> GGGAGAGGAAGTACAAA	CTATTTAAGTGTTTTCCAGATAG
<i>AtLUX-Ct</i> (amino acids 144-324)	<u>CACCAT</u> GCGACCGCGTTTAGTGTGGACA	TTAATTCTCATTGCGCTTCCACCT

Primer sets for genotyping		
Mutant name	for wild type PCR (5'→3')	for mutant PCR (5'→3')
<i>elf3-2</i> ^b	TGAGTATTTGTTCTCTCGAGC and CATATGGAGGGAAGTAGCCATTAC	TGGTATTATTCTCCGCTCTTTC and TTGTTCCATTAGCTGTTCAACCTA

^a CACC (underscored) were added to forward primers for cloning into the pENTR/D-TOPO vector

^b (Nusinow et al., 2011)

Supplemental Table 2. A full list of At/Bd/SvELF3 associated proteins identified from AP-MS

Total Unique Peptide Count

Identified Proteins (283)	Accession Number	Molecular Weight	ATELF3-1	ATELF3-2	SvELF3#2 rep1	SvELF3#2 rep2	SvELF3#3 rep1	SvELF3#3 rep2	BdELF3#2 rep1	BdELF3#2 rep2	BdELF3#3 rep1	BdELF3#3 rep2
Symbols: PHYB, HY3, OOP1 phytochrome B chr2:8140079-8144151 FORWARD LENGTH=1172	AT2G18790.1	129 kDa	33	34	41	40	43	40	31	31	36	35
Symbols: PHYD phytochrome D chr4:9195602-9199486 REVERSE LENGTH=1164	AT4G16250.1	129 kDa	10	11	11	13	13	12	11	10	13	12
Symbols: HSC70-1, HSP70-1, AT-HSC70-1, HSC70 heat shock cognate protein 70-1 chr5:554055-556334 REVERSE LENGTH=651	AT5G02500.1	71 kDa	15	12	25	22	24	30	12	12	7	9
Symbols: Heat shock protein 70 (Hsp 70) family protein chr3:2903434-2905632 REVERSE LENGTH=649	AT3G09440.1 (+1)	71 kDa	16	15	22	21	22	26	15	14	6	10
Symbols: HSP70, ATHSP70 heat shock protein 70 chr3:3991487-3993689 REVERSE LENGTH=650	AT3G12580.1	71 kDa	12	9	15	16	17	20	10	10	4	6
Symbols: Heat shock protein 70 (Hsp 70) family protein chr5:550296-552565 REVERSE LENGTH=653	AT5G02490.1	71 kDa	13	11	13	13	14	18	10	9	4	6
Symbols: Hsp70b heat shock protein 70b chr1:5502386-5504326 REVERSE LENGTH=646	AT1G16030.1	71 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: BdELF3_HFC	ATMGcustom02	86 kDa	1	0	1	0	1	0	26	27	22	20
Symbols: PHYC phytochrome C chr5:14008049-14011619 FORWARD LENGTH=1111	AT5G35840.1	124 kDa	22	23	27	32	27	33	20	18	19	22
Symbols: SvELF3_HFC	ATMGcustom01	87 kDa	1	0	20	29	23	33	1	1	1	1
Symbols: AteLF3_HFC	ATMGcustom03	84 kDa	21	19	0	0	0	0	0	0	0	1
Symbols: TZP zinc knuckle (CCHC-type) family protein chr5:17527261-17530207 FORWARD LENGTH=831	AT5G43630.1	91 kDa	14	12	13	20	13	24	12	13	14	14
Symbols: RBCL ribulose-bisphosphate carboxylases chrC:54958-56397 FORWARD LENGTH=479	ATCG00490.1	53 kDa	14	13	13	18	11	19	14	14	9	10
Symbols: PHYE phytochrome E chr4:10042312-10045948 REVERSE LENGTH=1112	AT4G18130.1	123 kDa	12	19	13	18	12	17	6	10	15	14
Symbols: TUB2 tubulin beta chain 2 chr5:25181560-25183501 FORWARD LENGTH=450	AT5G62690.1 (+1)	51 kDa	10	9	2	7	3	9	7	5	4	3
Symbols: TUB5 tubulin beta-5 chain chr1:6938033-6940481 REVERSE LENGTH=449	AT1G20010.1	50 kDa	9	7	0	7	0	7	4	4	3	2
Symbols: TUB6 beta-6 tubulin chr5:3961317-3962971 REVERSE LENGTH=449	AT5G12250.1	51 kDa	7	6	0	4	0	6	6	4	3	2
Symbols: TUB9 tubulin beta-9 chain chr4:11182218-11183840 FORWARD LENGTH=444	AT4G20890.1	50 kDa	9	8	0	6	2	7	5	4	3	2
Symbols: TUB7 tubulin beta-7 chain chr2:12644258-12645932 REVERSE LENGTH=449	AT2G29550.1	51 kDa	9	8	0	5	3	8	6	5	3	2
Symbols: TUB4 tubulin beta chain 4 chr5:17858442-17860994 REVERSE LENGTH=444	AT5G44340.1	50 kDa	9	8	0	5	2	7	6	4	3	2
Symbols: TUB8 tubulin beta 8 chr5:8042962-8044528 FORWARD LENGTH=449	AT5G23860.1 (+1)	51 kDa	9	8	0	6	3	6	6	5	3	0
Symbols: PCH1 F-box family protein chr2:7074940-7079181 FORWARD LENGTH=778	AT2G16365.1 (+2)	89 kDa	9	9	9	9	14	11	9	9	11	11
Symbols: GAPC-2, GAPC2 glyceraldehyde-3-phosphate dehydrogenase C2 chr1:4608465-4610494 REVERSE LENGTH=338	AT1G13440.1	37 kDa	8	7	4	15	6	12	4	3	6	2
Symbols: GAPC, GAPC-1, GAPC1 glyceraldehyde-3-phosphate dehydrogenase C subunit 1 chr3:1081077-1083131 FORWARD LENGTH=338	AT3G04120.1	37 kDa	7	7	4	15	6	12	4	3	6	2
Symbols: ATPA ATP synthase subunit alpha chrC:9938-11461 REVERSE LENGTH=507	ATCG00120.1	55 kDa	12	9	1	10	0	13	9	8	7	4
Symbols: TUA4, TOR2 tubulin alpha-4 chain chr1:1356421-1358266 REVERSE LENGTH=450	AT1G04820.1 (+1)	50 kDa	6	7	5	9	6	10	2	5	2	1
Symbols: TUA3 tubulin alpha-3 chr5:6682761-6684474 REVERSE LENGTH=450	AT5G19770.1 (+1)	50 kDa	4	4	3	6	3	8	1	3	1	0
Symbols: TUA6 Tubulin/Fts2 family protein chr4:8548753-8550319 REVERSE LENGTH=427	AT4G14960.1	47 kDa	6	6	4	8	5	8	2	6	2	1
Symbols: ACT8 actin 8 chr1:18216539-18217947 FORWARD LENGTH=377	AT1G49240.1 (+1)	42 kDa	3	3	2	5	3	4	3	3	3	3
Symbols: ACT7 actin 7 chr5:3052809-3054220 FORWARD LENGTH=377	AT5G09810.1	42 kDa	4	4	1	6	4	6	4	3	2	1
Symbols: ACT1, AAc1 actin 1 chr2:15779761-15781241 FORWARD LENGTH=377	AT2G37620.1 (+2)	42 kDa	0	0	0	4	1	2	0	0	0	0
Symbols: ACT4 actin 4 chr5:23950109-23951586 FORWARD LENGTH=377	AT5G59370.1 (+1)	42 kDa	0	0	0	4	0	3	1	1	1	0
Symbols: Actin family protein chr2:17578683-17580222 FORWARD LENGTH=329	AT2G42170.1	37 kDa	1	1	1	1	1	1	1	1	1	0
Symbols: Actin-like ATPase superfamily protein chr2:17560211-17561945 FORWARD LENGTH=378	AT2G42100.1	42 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ATRRAB8, ATRRABE1B, RABE1b RAB GTPase homolog E1B chr4:10990036-10991466 FORWARD LENGTH=476	AT4G20360.1	52 kDa	6	5	9	10	8	12	5	4	3	3
Symbols: Ribosomal protein S5 family protein chr2:17460016-17461398 REVERSE LENGTH=285	AT2G41840.1	31 kDa	5	6	2	3	4	5	5	2	1	1
Symbols: XW6 Ribosomal protein S5 family protein chr1:21689115-21690085 FORWARD LENGTH=284	AT1G58380.1 (+3)	31 kDa	6	5	3	2	5	5	3	3	1	0
Symbols: Ribosomal protein S5 family protein chr3:21279824-21280887 REVERSE LENGTH=276	AT3G57490.1	30 kDa	3	0	0	0	0	0	0	0	0	0
Symbols: TIC time for coffee chr3:7913181-7918967 FORWARD LENGTH=1555	AT3G22380.2	165 kDa	5	5	4	12	3	15	4	3	1	1
Symbols: ELF4 Protein of unknown function (DUF1313) chr2:16734545-16734880 REVERSE LENGTH=111	AT4G0080.1	12 kDa	4	4	3	5	4	4	4	4	5	5
Symbols: GAPA, GAPA-1 glyceraldehyde 3-phosphate dehydrogenase A subunit chr3:9795226-9796848 FORWARD LENGTH=396	AT3G26650.1	42 kDa	11	8	3	13	4	15	5	4	3	2
Symbols: GAPA-2 glyceraldehyde 3-phosphate dehydrogenase A subunit 2 chr1:4392634-4393850 REVERSE LENGTH=350	AT1G19003.1 (+1)	38 kDa	11	8	3	11	4	12	5	3	2	1
Symbols: Ribosomal protein L6 family chr1:12010986-12012223 FORWARD LENGTH=194	AT1G31120.1 (+1)	22 kDa	4	4	6	10	5	9	4	5	5	5
Symbols: Ribosomal protein L6 family chr4:6463201-6464458 REVERSE LENGTH=194	AT4G10450.1	22 kDa	1	2	0	3	0	2	2	2	2	2
Symbols: COP1, ATCOP1, DET340, FUS1, EMB168 Transducin/WD40 repeat-like superfamily protein chr2:13978000-13983282 FORWARD LENGTH=675	AT2G2950.1	76 kDa	8	9	6	4	3	5	1	2	6	4
Symbols: IMPA-2 importin alpha isoform 2 chr4:9134450-9137134 REVERSE LENGTH=535	AT4G16143.1 (+1)	59 kDa	2	2	1	8	0	8	10	9	2	4
Symbols: AT-IMP, ATKAP ALPHA, AIMP ALPHA, IMPA-1, IMPA1 importin alpha isoform 1 chr3:2120559-2123555 FORWARD LENGTH=532	AT3G06720.1 (+1)	59 kDa	0	0	0	2	0	2	2	1	0	0
Symbols: IMPA-6 importin alpha isoform 6 chr1:584397-587036 FORWARD LENGTH=538	AT1G02690.1 (+1)	59 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: IMPA-4 importin alpha isoform 4 chr1:2994506-2997833 FORWARD LENGTH=538	AT1G09270.1 (+2)	59 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: MTO3, SAM53, MAT4 S-adenosylmethionine synthetase family protein chr3:5952484-5953665 REVERSE LENGTH=393	AT3G17390.1	43 kDa	9	7	2	5	0	6	1	0	0	0
Symbols: MAT3 methionine adenosyltransferase 3 chr2:15479721-15480893 REVERSE LENGTH=390	AT2G6880.1 (+1)	42 kDa	4	2	2	1	0	2	0	0	0	0
Symbols: SAM-2, MAT2, SAM2, AtSAM2 S-adenosylmethionine synthetase 2 chr4:796298-797479 REVERSE LENGTH=393	AT4G01850.1 (+1)	43 kDa	5	2	0	1	0	2	0	0	0	0
Symbols: SAM1, SAM-1, MAT1, AtSAM1 S-adenosylmethionine synthetase 1 chr1:519037-520218 FORWARD LENGTH=393	AT1G02500.1 (+1)	43 kDa	4	1	0	2	0	3	0	0	0	0
Symbols: RCA rubisco activase chr2:16570951-1657345 REVERSE LENGTH=474	AT2G39730.1	52 kDa	7	7	3	4	6	7	6	3	2	2
Symbols: PCL1, LUX Homeodomain-like superfamily protein chr3:17183248-17184219 FORWARD LENGTH=323	AT3G46640.1 (+1)	35 kDa	1	1	3	6	3	7	1	1	1	3
Symbols: GS2, GLN2, ATGSL1 glutamine synthetase 2 chr5:13831220-13833239 FORWARD LENGTH=430	AT5G35630.1 (+2)	47 kDa	6	5	3	8	3	7	5	4	1	1
Symbols: CAT3, SEN2, ATCAT3 catalase 3 chr1:7143142-7146193 FORWARD LENGTH=485	AT1G20620.5	56 kDa	13	11	2	8	1	9	7	4	1	1
Symbols: Clathrin, heavy chain chr3:3482575-3491667 REVERSE LENGTH=1705	AT3G11130.1	193 kDa	16	10	0	2	0	5	2	1	0	0
Symbols: Clathrin, heavy chain chr3:2587171-2595411 REVERSE LENGTH=1703	AT3G08530.1	193 kDa	15	9	0	2	0	5	2	1	0	0
Symbols: Ribosomal protein S3 family protein chr3:19951547-19952782 FORWARD LENGTH=249	AT3G53870.1	27 kDa	4	4	3	4	3	5	2	2	1	1
Symbols: Ribosomal protein S3 family protein chr2:13450384-13451669 FORWARD LENGTH=250	AT2G31610.1	28 kDa	5	5	3	4	3	6	3	2	1	1
Symbols: Ribosomal protein S3 family protein chr5:13710355-13712192 REVERSE LENGTH=248	AT5G35530.1	27 kDa	5	5	3	4	3	5	3	1	1	1
Symbols: EIF4A1, RH4, TIF4A1 eukaryotic translation initiation factor 4A1 chr3:4592635-4594128 REVERSE LENGTH=412	AT3G13920.1 (+1)	47 kDa	7	6	3	5	5	7	3	2	2	2
Symbols: EIF4A-2 eif4a-2 chr1:20260495-20262018 FORWARD LENGTH=412	AT1G54270.1	47 kDa	5	4	3	5	5	7	3	2	2	2
Symbols: EIF4A-III eukaryotic initiation factor 4A-III chr3:6863790-6866242 FORWARD LENGTH=408	AT3G19760.1	? kDa	0	0	0	0	0	0	0	0	0	0
Symbols: BIP, BIP2 Heat shock protein 70 (Hsp 70) family protein chr5:16807697-16810480 REVERSE LENGTH=668	AT5G42020.1	74 kDa	3	5	5	9	7	11	1	2	3	2
Symbols: DAYSLEEPER BED zinc finger; NAT family dimerisation domain chr3:14321838-14323928 FORWARD LENGTH=696	AT3G42170.1	79 kDa	3	5	0	7	0	12	3	4	2	0
MLK2 Symbols: Protein kinase family protein chr3:1014412-1018244 REVERSE LENGTH=701	AT3G03940.1	78 kDa	8	4	0	3	0	1	8	6	6	5
MLK1 Symbols: Protein kinase family protein chr5:6010215-6013724 REVERSE LENGTH=691	AT5G18190.1	77 kDa	5	5	0	2	0	1	6	6	5	5
Symbols: GABP glyceraldehyde-3-phosphate dehydrogenase B subunit chr1:16127552-16129584 FORWARD LENGTH=447	AT1G42970.1	48 kDa	9	7	1	11	1	15	5	4	3	1
Symbols: SPA1 SPA (suppressor of phyA-105) protein family chr2:19022572-19026821 REVERSE LENGTH=1029	AT2G46340.1	115 kDa	8	7	2	4	2	4	0	6	5	0
Symbols: Ribulose biphosphate carboxylase (small chain) family protein chr5:15377501-15378206 REVERSE LENGTH=181	AT5G38410.1	20 kDa	5	4	4	7	5	7	5	3	2	5
Symbols: Ribulose biphosphate carboxylase (small chain) family protein chr5:15384350-15385155 REVERSE LENGTH=181	AT5G38430.1	20 kDa	4	3	2	3	2	3	3	1	2	1
Symbols: PHYA, FHY2, FRE1, HYS phytochrome A chr1:3095498-3099216 REVERSE LENGTH=1122	AT1G09570.1	125 kDa	1	1	7	5	7	2	0	2	6	3
Symbols: Ribosomal protein L4/L1 family chr3:2953813-2955444 FORWARD LENGTH=406	AT3G09630.1 (+1)	45 kDa	1	1	1	2	1	7	2	1	1	0
Symbols: Ribosomal protein L4/L1 family chr5:657830-659526 FORWARD LENGTH=407	AT5G02870.1 (+1)	45 kDa	2	2	1	2	1	6	2	1	0	0
Symbols: PSC51, ATPPCS delta1-pyrroline-5-carboxylate synthase 1 chr2:16598516-16602939 REVERSE LENGTH=717	AT2G38000.1 (+1)	78 kDa	7	6	1	4	1	9	4	3	2	0
Symbols: PSC52 delta 1-pyrroline-5-carboxylate synthase 2 chr3:20624278-20628989 REVERSE LENGTH=726	AT3G55610.1	79 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: RBSC1A ribulose biphosphate carboxylase small chain 1A chr1:25048465-25049249 REVERSE LENGTH=180	AT1G67090.1	20 kDa	5	5	4	7	5	7	4	3	1	3
Symbols: ATCMS, ATMETS, ATMS1 Cobalamin-independent synthase family protein chr5:5935771-5939												

Symbols: PGK1 phosphoglycerate kinase 1 chr3:4061127-4063140 REVERSE LENGTH=481	AT3G12780.1	50 kDa	5	4	0	6	0	9	3	2	1	0
Symbols: PGK phosphoglycerate kinase chr1:29924347-29926295 REVERSE LENGTH=401	AT1G79550.1 (+1)	42 kDa	2	0	0	0	0	0	1	1	1	0
Symbols: Phosphoglycerate kinase family protein chr1:21028622-21030454 FORWARD LENGTH=405	AT1G56190.2	43 kDa	3	0	0	3	0	4	0	0	0	0
Symbols: LOS1 Ribosomal protein S5/Elongation factor G/III/V family protein chr1:20968245-20971077 REVERSE LENGTH=843	AT1G56070.1	94 kDa	4	3	1	3	2	9	1	1	0	0
Symbols: structural constituent of ribosome chrC:82826-83482 REVERSE LENGTH=218	ATCG08000.1	25 kDa	6	4	1	4	1	6	1	0	0	0
Symbols: CAT2 catalase 2 chr4:16700937-16703215 REVERSE LENGTH=492	AT4G35090.1	57 kDa	10	6	2	8	1	7	4	4	1	1
Symbols: Ribosomal protein S27a / Ubiquitin family protein chr1:8314940-8315410 FORWARD LENGTH=156	AT1G23410.1 (+3)	18 kDa	3	3	1	2	1	2	3	2	1	2
Symbols: UBQ9 ubiquitin 9 chr5:14952782-14953750 REVERSE LENGTH=322	AT5G37640.1	36 kDa	0	2	0	0	0	0	0	0	0	0
Symbols: UBQ12 ubiquitin 12 chr1:20549533-20550225 FORWARD LENGTH=230	AT1G55060.1	26 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: UBQ8 ubiquitin 8 chr3:3004111-3006006 REVERSE LENGTH=631	AT3G09790.1	72 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: GTP binding Elongation factor Tu family protein chr1:2455559-2457001 FORWARD LENGTH=449	AT1G07920.1 (+5)	50 kDa	4	3	1	4	1	6	3	1	2	1
Symbols: Ribosomal protein L13 family protein chr3:9064613-9065871 FORWARD LENGTH=206	AT3G24830.1	23 kDa	1	1	1	1	2	1	2	2	0	0
Symbols: Ribosomal protein L13 family protein chr3:2252092-2253332 FORWARD LENGTH=206	AT3G07110.1 (+1)	23 kDa	2	3	1	1	1	2	1	2	3	0
Symbols: Ribosomal protein L13 family protein chr5:19771315-19772686 REVERSE LENGTH=206	AT5G48760.1 (+1)	24 kDa	0	0	0	1	0	1	1	1	0	0
Symbols: Ribosomal protein L13 family protein chr4:7655133-7656542 REVERSE LENGTH=206	AT4G13170.1	24 kDa	0	2	0	1	0	0	0	2	0	0
Symbols: HOG1, EMB1395, SAHH1, MEE58, ATSAHH1 S-adenosyl-L-homocysteine hydrolase chr4:8054931-8056676 FORWARD LENGTH=485	AT4G13940.1	53 kDa	3	4	1	3	1	5	1	2	0	0
Symbols: SAHH2, ATSAHH2 S-adenosyl-L-homocysteine (SAH) hydrolase 2 chr3:8588013-8589671 REVERSE LENGTH=485	AT3G2810.1	53 kDa	2	2	0	1	1	3	0	1	2	0
Symbols: HOG1, SAHH1 S-adenosyl-L-homocysteine hydrolase chr4:8054931-8056676 FORWARD LENGTH=325	AT4G13940.4	36 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: CRB, CSP41B, HIP1.3 chloroplast RNA binding chr1:3015473-3018035 FORWARD LENGTH=378	AT1G09340.1	43 kDa	4	3	1	1	1	4	0	1	0	0
Symbols: ACC1, AT-ACC1, EMB22, GK, PAS3 acetyl-CoA carboxylase 1 chr1:13534196-13543773 FORWARD LENGTH=2254	AT1G36160.1 (+1)	251 kDa	12	1	0	1	0	2	0	0	0	0
Symbols: Ribosomal protein S5 domain 2-like superfamily protein chr5:6090253-6090693 REVERSE LENGTH=146	AT5G18380.1 (+1)	17 kDa	3	4	1	3	1	2	3	3	0	0
Symbols: Ribosomal protein S5 domain 2-like superfamily protein chr2:3781442-3781882 FORWARD LENGTH=146	AT2G09990.1	17 kDa	2	2	0	2	0	1	2	2	0	0
Symbols: CA1 carbonic anhydrase 1 chr3:194853-197873 REVERSE LENGTH=347	AT3G01500.2 (+1)	37 kDa	2	2	1	3	1	5	3	1	0	0
Symbols: CA2, CA18, BETA CA2 carbonic anhydrase 2 chr5:4758257-4762382 FORWARD LENGTH=331	AT5G14740.1 (+1)	37 kDa	1	1	1	3	1	6	1	0	0	0
Symbols: ATAN1, LWD1 Transducin/WD40 repeat-like superfamily protein chr1:14385114-14396154 REVERSE LENGTH=346	AT1G12910.1	39 kDa	5	7	5	8	4	5	4	3	3	3
Symbols: MLK4 Protein kinase family protein chr3:4469434-4473234 FORWARD LENGTH=703	AT3G13670.1	79 kDa	5	6	0	0	0	10	6	6	7	0
Symbols: RPS6, RPS6A ribosomal protein S6 chr4:15346306-15347714 REVERSE LENGTH=250	AT4G31700.1	28 kDa	2	4	0	1	0	4	4	2	1	1
Symbols: Ribosomal protein L30/L7 family protein chr2:132943-134264 REVERSE LENGTH=242	AT2G01250.1	28 kDa	4	3	1	0	1	2	1	2	1	0
Symbols: Ribosomal protein L30/L7 family protein chr2:18249227-18250417 REVERSE LENGTH=247	AT2G44120.2	29 kDa	2	3	0	1	0	2	0	1	0	0
Symbols: Ribosomal protein L30/L7 family protein chr3:4433809-4435109 FORWARD LENGTH=244	AT3G13580.1 (+2)	28 kDa	1	2	0	0	0	1	1	0	0	0
Symbols: Coatomer, alpha subunit chr2:9152428-9156577 FORWARD LENGTH=1218	AT2G21390.1	136 kDa	2	0	0	2	0	9	0	0	0	0
Symbols: Coatomer, alpha subunit chr1:22919814-22923728 FORWARD LENGTH=1216	AT1G62020.1	137 kDa	2	1	0	0	0	5	0	0	0	0
Symbols: CAB3, AB180, LHC81.2 chlorophyll A/B binding protein 3 chr1:10472443-10473246 REVERSE LENGTH=267	AT1G29910.1 (+1)	28 kDa	2	2	2	2	1	1	1	1	0	0
Symbols: LHC82.2, LHC82 photosystem II light harvesting complex gene 2.2 chr2:1799436-1800329 REVERSE LENGTH=265	AT2G0570.1 (+2)	29 kDa	1	1	2	1	1	2	0	0	0	0
Symbols: CAB1, AB140, CAB140, LHC81.3 chlorophyll A/B binding protein 1 chr1:10478071-10478874 FORWARD LENGTH=267	AT1G29930.1	28 kDa	2	2	2	2	2	1	1	1	0	0
Symbols: HSP60-2 heat shock protein 60-2 chr2:14075093-14078568 REVERSE LENGTH=585	AT2G33210.1 (+1)	62 kDa	1	3	1	3	1	2	1	0	0	0
Symbols: HSP60, HSP60-3B heat shock protein 60 chr3:8669013-8672278 FORWARD LENGTH=577	AT3G23990.1	61 kDa	2	3	1	3	2	1	2	1	0	0
Symbols: Ribosomal protein S3Ae chr3:1329751-1331418 FORWARD LENGTH=262	AT3G08480.1	30 kDa	1	2	0	1	0	3	1	1	1	0
Symbols: Ribosomal protein S3Ae chr4:16548724-16550222 FORWARD LENGTH=262	AT4G34670.1	30 kDa	2	2	1	2	1	3	1	0	0	0
Symbols: UBP12 ubiquitin-specific protease 12 chr5:2019545-2027834 REVERSE LENGTH=1116	AT5G06600.1 (+1)	131 kDa	0	0	0	3	0	3	1	1	0	0
Symbols: UBP13 ubiquitin-specific protease 13 chr3:3761758-3770290 REVERSE LENGTH=1115	AT3G1910.1 (+1)	131 kDa	0	0	0	3	1	2	1	0	0	0
Symbols: NIT1, ATNIT1, NIT1 nitrilase 1 chr3:15986901-15988841 FORWARD LENGTH=346	AT3G44310.1 (+1)	38 kDa	1	2	1	0	4	1	1	1	1	1
Symbols: ARP1, emb220, RPL3A, RP1 ribosomal protein 1 chr1:16266992-16268631 FORWARD LENGTH=389	AT1G43170.1 (+7)	45 kDa	2	1	0	2	0	1	1	0	0	0
Symbols: RD21, RD21A Granulin repeat cysteine protease family protein chr1:17283139-17285609 REVERSE LENGTH=462	AT1G47128.1	51 kDa	0	3	0	2	0	2	0	2	0	0
Symbols: ATPB, PB ATP synthase subunit beta chrC:52660-54156 REVERSE LENGTH=498	ATCG04080.1	54 kDa	4	5	0	3	0	3	2	2	1	0
Symbols: PYK10, PSR3.1, BGLU23, LEB Glycosyl hydrolase superfamily protein chr3:2840657-2843730 REVERSE LENGTH=524	AT3G09260.1	?	1	1	1	3	0	3	1	1	0	0
Symbols: KAS1, KAS1 3-ketoacyl-acyl carrier protein synthase 1 chr5:18774439-18776629 REVERSE LENGTH=473	AT5G46290.1	50 kDa	2	4	3	1	2	3	2	2	0	0
Symbols: RPL2.1 ribosomal protein L2 chrC:84337-85843 REVERSE LENGTH=274	ATCG0830.1 (+1)	30 kDa	3	2	0	2	0	3	3	4	0	0
Symbols: ASN2 asparagine synthetase 2 chr5:25969224-25972278 FORWARD LENGTH=578	AT5G65010.1 (+1)	65 kDa	3	2	0	1	0	4	2	2	0	0
Symbols: ASN1, DIN6, AT-ASN1 glutamine-dependent asparagine synthase 1 chr3:17438445-17441043 REVERSE LENGTH=512	AT3G47340.2	58 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ASN3 asparagine synthetase 3 chr5:3212934-3216418 REVERSE LENGTH=578	AT5G10240.1 (+1)	65 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: PIP2A, PIP2, PIP2.1 plasma membrane intrinsic protein 2A chr3:19803906-19805454 REVERSE LENGTH=287	AT3G53420.1 (+1)	30 kDa	4	4	0	0	1	2	1	0	0	0
Symbols: Ribosomal protein S10p/S20e family protein chr3:16471606-16472312 REVERSE LENGTH=124	AT3G45030.1 (+2)	14 kDa	2	1	1	1	1	2	1	1	1	1
Symbols: Ribosomal protein S10p/S20e family protein chr3:17453671-17454437 REVERSE LENGTH=122	AT3G47370.1 (+2)	14 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Coatomer, beta subunit chr4:15269460-15272693 FORWARD LENGTH=948	AT4G31490.1	106 kDa	5	2	0	1	0	4	0	0	0	0
Symbols: Coatomer, beta subunit chr4:15264145-15267384 FORWARD LENGTH=948	AT4G31480.1 (+1)	106 kDa	5	2	0	1	0	3	0	0	0	0
Symbols: MLK3 Protein kinase family protein chr2:10985118-10988652 REVERSE LENGTH=673	AT2G25760.1	76 kDa	2	3	0	1	0	5	4	4	4	4
Symbols: RPT3 regulatory particle triple-A ATPase 3 chr5:23569155-23571116 FORWARD LENGTH=408	AT5G58290.1	46 kDa	3	3	1	1	1	2	1	1	0	0
Symbols: CPN60B, LEN1 chaperonin 60 beta chr1:20715717-20718673 REVERSE LENGTH=600	AT1G55490.1 (+1)	64 kDa	2	4	0	3	0	2	2	2	1	0
Symbols: TCP-1/cpn60 chaperonin family protein chr5:22874058-22876966 FORWARD LENGTH=597	AT5G55000.1 (+1)	63 kDa	0	2	0	0	0	0	0	0	0	0
Symbols: ATARCA, RACK1A_AT, RACK1A Transducin/WD40 repeat-like superfamily protein chr1:6222325-6223901 FORWARD LENGTH=327	AT1G18080.1	36 kDa	1	1	0	2	0	3	1	0	0	0
Symbols: RACK1B_AT receptor for activated C kinase 1B chr1:17981977-17983268 REVERSE LENGTH=326	AT1G48630.1	36 kDa	3	0	0	0	0	2	0	1	0	0
Symbols: RACK1C_AT receptor for activated C kinase 1C chr3:6211109-6212371 REVERSE LENGTH=326	AT3G18130.1	36 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA2, PMA2, HA2 H(+)-ATPase 2 chr4:14770820-14775920 REVERSE LENGTH=948	AT4G30190.1 (+1)	104 kDa	4	3	0	1	0	2	0	0	0	0
Symbols: AHA1, PMA, OST2, HA1 H(+)-ATPase 1 chr2:8221858-8222768 FORWARD LENGTH=949	AT2G18960.1	104 kDa	4	2	0	1	0	2	0	0	0	0
Symbols: AHA7, HA7 H(+)-ATPase 7 chr3:22298763-22303509 FORWARD LENGTH=961	AT3G60330.1 (+1)	106 kDa	1	0	0	0	0	0	0	0	0	0
Symbols: AHA4, HA4 H(+)-ATPase 4 chr3:17693015-17697801 FORWARD LENGTH=960	AT3G47950.1	106 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA3, ATAH3, HA3 H(+)-ATPase 3 chr5:23231208-23236381 REVERSE LENGTH=949	AT5G57350.1 (+1)	104 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA10 autoinhibited H(+)-ATPase isoform 10 chr1:5904058-5908898 FORWARD LENGTH=947	AT1G17260.1	105 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ATPase, F1 complex, alpha subunit protein chr2:3361474-3364028 FORWARD LENGTH=777	AT2G07698.1	86 kDa	2	2	1	3	1	4	1	0	0	0
Symbols: LWD2 Transducin/WD40 repeat-like superfamily protein chr3:9793276-9794316 FORWARD LENGTH=346	AT3G26640.1	39 kDa	5	5	3	5	3	6	4	3	3	3
Symbols: ATPase, V1 complex, subunit B protein chr1:7016971-7020290 FORWARD LENGTH=487	AT1G20260.1 (+2)	54 kDa	3	3	0	2	0	5	1	2	0	0
Symbols: ATGSTF8, ATGSTF5, GST6, GSTF8 glutathione S-transferase phi 8 chr2:19558213-19559266 FORWARD LENGTH=263	AT2G47730.1	29 kDa	3	2	0	0	0	4	0	0	0	0
Symbols: ATPC1 ATPase, F1 complex, gamma subunit protein chr4:2350761-2351882 REVERSE LENGTH=373	AT4G04640.1	41 kDa	1	5	3	2	1	2	1	2	1	0
Symbols: FBA2 fructose-bisphosphate aldolase 2 chr4:18163714-18165659 REVERSE LENGTH=398	AT4G38970.1	43 kDa	2	2	0	3	1	3	2	1	0	0
Symbols: RPL16A ribosomal protein large subunit 16A chr2:17791794-17792946 FORWARD LENGTH=182	AT2G42740.1 (+4)	21 kDa	2	2	1	1	1	2	1	2	1	1
Symbols: Transketolase chr3:22454004-22456824 FORWARD LENGTH=741	AT3G60750.1 (+1)	80 kDa	3	2	0	0	0	7	1	0	0	0
Symbols: binding chr5:19317899-19327014 FORWARD LENGTH=1606	AT5G47690.2 (+1)	181 kDa	6	0	0	2	0	6	0	0	0	0
Symbols: SAC52, RPL10, RPL10A Ribosomal protein L16p/L10e family protein chr1:4888270-4889408 FORWARD LENGTH=220	AT1G14320.1	25 kDa	1	2	1	1	1	2	1	2	1	1
Symbols: CAC3 acetyl Co-enzyme A carboxylase carboxyltransferase alpha subunit chr2:15917612-15920749 FORWARD LENGTH=769	AT2G38040.1 (+1)	85 kDa	3	1	0	0	0	4	0	0	0	0
Symbols: RAN-1, RAN1, ATRAN1 RAS-related nuclear protein-1 chr5:6760364-6761747 FORWARD LENGTH=221	AT5G20010.1 (+2)											

Symbols: Histone superfamily protein chr1:2369212-2369523 FORWARD LENGTH=103	AT1G07660.1 (+8)	11 kDa	1	1	1	3	1	3	1	1	1	1
Symbols: oxidoreductases, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor;copper ion binding chr2:8613168-8615649 FORWARD LENGTH=401	AT2G19940.1 (+1)	44 kDa	5	1	0	1	0	3	1	0	0	0
Symbols: ATRP5B, RPS5B ribosomal protein 5B chr2:15647883-15649042 REVERSE LENGTH=207	AT2G37270.1 (+3)	23 kDa	0	3	1	0	0	0	2	2	2	1
Symbols: Thioredoxin superfamily protein chr3:3672189-3673937 FORWARD LENGTH=266	AT3G11630.1	29 kDa	0	0	1	0	0	0	2	1	2	0
Symbols: PIP1B, TMP-A, ATHH2, PIP1.2 plasma membrane intrinsic protein 1B chr2:18910450-18911703 FORWARD LENGTH=286	AT2G45960.1 (+2)	31 kDa	1	1	1	0	2	1	1	2	0	0
Symbols: RPL27A, RPL27AB Ribosomal protein L18e/L15 superfamily protein chr1:8263007-8263447 FORWARD LENGTH=146	AT1G23290.1 (+1)	16 kDa	1	1	1	0	1	2	1	2	1	0
Symbols: Ribosomal protein L18ae/LX family protein chr2:14532916-14534161 REVERSE LENGTH=178	AT2G34480.1	21 kDa	2	1	1	0	2	0	1	0	1	0
Symbols: Ribosomal protein L18ae/LX family protein chr3:4910773-4911933 FORWARD LENGTH=178	AT3G14600.1	21 kDa	0	0	0	0	1	0	0	0	0	0
Symbols: EMB2719, HAP15 PAM domain (PCI/PINT associated module) protein chr1:7001409-7004154 REVERSE LENGTH=488	AT1G20200.1	56 kDa	3	3	0	0	1	0	3	0	0	0
Symbols: PAM domain (PCI/PINT associated module) protein chr1:28524623-28526718 REVERSE LENGTH=487	AT1G75990.1	56 kDa	3	0	0	0	1	0	3	0	0	0
Symbols: APS1 ATP sulfurylase 1 chr3:8112837-8114734 FORWARD LENGTH=463	AT3G22890.1	51 kDa	3	0	1	0	2	0	3	0	0	0
Symbols: APS2, ASA1 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr1:6914835-6916657 REVERSE LENGTH=476	AT1G19920.1	54 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: APS3 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr4:8413443-8415311 REVERSE LENGTH=465	AT4G14680.1	52 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Tetraatricopeptide repeat (TPR)-like superfamily protein chr3:22565440-22566678 REVERSE LENGTH=412	AT3G60980.1	47 kDa	0	0	0	0	0	0	5	5	0	0
Symbols: SPA2 SPA1-related 2 chr4:6772163-6776675 FORWARD LENGTH=1036	AT4G11110.1	115 kDa	5	6	0	0	0	0	0	0	0	0
Symbols: PORB protchlorophyllide oxidoreductase B chr4:13725648-13727107 FORWARD LENGTH=401	AT4G27440.1 (+1)	43 kDa	3	2	0	0	1	0	1	1	0	0
Symbols: ATPF ATP synthase epsilon chain chrC:52265-52663 REVERSE LENGTH=132	ATCG00470.1	14 kDa	2	2	0	1	0	1	1	2	0	0
Symbols: RPL14 ribosomal protein L14 chrC:80696-81064 REVERSE LENGTH=122	ATCG00780.1	14 kDa	2	2	0	1	0	2	1	2	0	0
Symbols: C2 calcium/lipid-binding plant phosphoribosyltransferase family protein chr5:2127200-2129584 REVERSE LENGTH=794	ATSG06850.1	91 kDa	0	0	0	0	2	0	5	0	0	0
Symbols: FDH formate dehydrogenase chr5:4777043-4779190 FORWARD LENGTH=384	ATSG14780.1	42 kDa	2	1	0	1	0	3	0	1	0	0
Symbols: TOC1, APRR1, PRR1, ATOC1 CCT motif-containing response regulator protein chr5:24675540-24678176 FORWARD LENGTH=618	ATSG61380.1	69 kDa	2	2	2	0	3	0	0	1	1	1
Symbols: ELP4-L2 ELP4-like 2 chr1:27344988-27345347 FORWARD LENGTH=119	AT1G72630.1	13 kDa	0	1	0	1	0	1	2	2	2	1
Symbols: STV1, RPL24B, RPL24 Ribosomal protein L24e family protein chr3:19660749-19661912 REVERSE LENGTH=163	AT3G53020.1	19 kDa	2	2	0	1	0	1	2	2	0	0
Symbols: glycine-rich protein chr4:11944050-11945565 REVERSE LENGTH=356	AT4G22740.1 (+1)	39 kDa	2	2	0	0	0	2	1	0	0	0
Symbols: Ribosomal L28e protein family chr2:8511752-8512995 FORWARD LENGTH=143	AT2G19730.1 (+2)	16 kDa	1	1	0	0	0	0	0	2	0	0
Symbols: Ribosomal protein S11 family protein chr2:15169925-15171159 FORWARD LENGTH=150	AT2G36160.1	16 kDa	2	2	1	3	1	3	0	1	3	0
Symbols: Ribosomal protein S11 family protein chr3:3623757-3624866 REVERSE LENGTH=150	AT3G11510.1	16 kDa	1	2	1	2	1	2	2	0	0	0
Symbols: Coatomer, beta' subunit chr3:5411699-5418313 REVERSE LENGTH=909	AT3G15980.1 (+3)	102 kDa	3	1	0	0	0	0	4	0	0	0
Symbols: structural molecules chr1:30084522-30091949 FORWARD LENGTH=1135	AT1G79990.1 (+2)	129 kDa	2	0	0	0	0	2	0	0	0	0
Symbols: XIK, ATXK, XI-17 Myosin family protein with Dil domain chr5:6927064-6936825 REVERSE LENGTH=1545	AT5G20490.1 (+1)	175 kDa	1	2	0	0	0	0	0	0	0	0
Symbols: MYA1, ATMYA1, XI-1 myosin 1 chr1:6039453-6049309 FORWARD LENGTH=1520	AT1G17580.1	173 kDa	1	1	0	0	0	0	0	0	0	0
Symbols: XIC, ATXIC Myosin family protein with Dil domain chr1:2779963-2788325 FORWARD LENGTH=1538	AT1G08730.1	175 kDa	0	1	0	0	0	0	0	0	0	0
Symbols: HSP81-2, ERD8, HSP90.2, ATHsp90.2 heat shock protein 81-2 chr5:22686923-22689433 FORWARD LENGTH=699	AT5G56030.1 (+1)	80 kDa	3	2	0	1	0	1	1	1	0	0
Symbols: PIP3, PIP3A, PIP2.7, SIMP1 plasma membrane intrinsic protein 3 chr4:16708672-16709958 FORWARD LENGTH=280	AT4G31001.1 (+1)	30 kDa	3	3	1	2	1	0	2	0	0	0
Symbols: RPS4 chloroplast ribosomal protein S4 chrC:45223-45828 REVERSE LENGTH=201	ATCG00380.1	23 kDa	1	1	0	0	0	0	2	2	0	0
Symbols: LOS2, ENO2 Enolase chr2:15321081-15323786 REVERSE LENGTH=444	AT2G36530.1	48 kDa	1	1	0	1	0	0	2	1	1	0
Symbols: ATPase, V0/AD complex, subunit C/D chr3:10778025-10780350 FORWARD LENGTH=351	AT3G28715.1	41 kDa	2	1	0	1	0	1	1	0	0	0
Symbols: ATPase, V0/AD complex, subunit C/D chr3:10773144-10775594 REVERSE LENGTH=351	AT3G28710.1	41 kDa	1	1	0	2	0	2	0	0	0	0
Symbols: cpHsc70-1 chloroplast heat shock protein 70-1 chr4:12590094-12593437 FORWARD LENGTH=718	AT4G24280.1	77 kDa	0	0	0	2	0	5	1	0	0	0
Symbols: CPHsc70-2EAT SHOCK PROTEIN 70-2, HSC70-7, cpHsc70-2 chloroplast heat shock protein 70-2 chr5:20330470-2036295 FORWARD LENGTH=718	AT5G49910.1	77 kDa	0	0	0	3	0	4	1	0	0	0
Symbols: LUH LEUNIG homolog chr2:13867235-13871844 FORWARD LENGTH=787	AT2G32700.1 (+6)	86 kDa	0	0	0	1	0	0	3	0	0	0
Symbols: emb1138 DEAD box RNA helicase (RH3) chr5:9285540-9288871 REVERSE LENGTH=747	AT5G26742.1 (+1)	81 kDa	3	2	0	0	1	0	0	0	0	0
Symbols: RPS11 ribosomal protein S11 chrC:78960-79376 REVERSE LENGTH=138	ATCG00750.1	15 kDa	2	2	0	1	0	1	2	2	0	0
Symbols: Ribosomal protein S4 (RPS4A) family protein chr2:7546598-7548138 FORWARD LENGTH=261	AT2G17360.1 (+3)	30 kDa	2	0	1	1	0	1	1	1	0	0
Symbols: PFL, RPS18A, PFL1 Ribosomal protein S13/S18 family chr1:8067990-8069163 FORWARD LENGTH=152	AT1G22780.1 (+2)	18 kDa	0	1	1	1	0	1	0	1	1	0
Symbols: P40, AP40, RP40, RPSAA 40s ribosomal protein SA chr1:27243148-27244842 REVERSE LENGTH=298	AT1G72370.1 (+1)	32 kDa	1	3	0	2	0	2	0	1	0	0
Symbols: RPSAB 40s ribosomal protein SA B chr3:1309544-1310846 REVERSE LENGTH=280	AT3G04770.2	31 kDa	0	0	0	1	0	0	0	0	0	0
Symbols: CLPC, ATHSP93-V, HSP93-V, DCA1, CLPC1 CLPC homologue 1 chr5:20715710-20719800 REVERSE LENGTH=929	AT5G50920.1	?	4	2	0	0	0	0	0	0	0	0
Symbols: ATCLPC, ATHSP93-III, HSP93-III Clp ATPase chr3:18122363-18126008 REVERSE LENGTH=952	AT3G48870.1 (+1)	106 kDa	3	2	0	0	0	0	0	0	0	0
Symbols: SPA4 SPA1-related 4 chr1:19783748-19786690 FORWARD LENGTH=794	AT1G53090.1 (+1)	89 kDa	3	6	0	0	0	0	0	0	0	0
Symbols: AAA-type ATPase family protein chr2:8692736-8694837 FORWARD LENGTH=443	AT2G20140.1 (+1)	49 kDa	1	5	3	0	0	0	0	0	0	0
Symbols: RPT6A, ATSGUG1 regulatory particle triple-A ATPase 6A chr5:6752144-6754918 FORWARD LENGTH=419	AT5G19990.1 (+1)	47 kDa	1	1	0	0	1	0	2	1	0	0
Symbols: Lactate/malate dehydrogenase family protein chr1:1189418-1191267 REVERSE LENGTH=332	AT1G04410.1	36 kDa	0	0	2	0	0	1	0	0	0	0
Symbols: Aldolase superfamily protein chr3:19627383-19628874 REVERSE LENGTH=358	AT3G52930.1	39 kDa	0	1	0	1	0	1	0	0	1	0
Symbols: Aldolase superfamily protein chr5:963389-964982 REVERSE LENGTH=359	AT5G03690.2	39 kDa	0	0	0	0	1	0	0	0	0	0
Symbols: Aldolase superfamily protein chr4:13391566-13392937 FORWARD LENGTH=358	AT4G26530.1 (+1)	38 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: CHL11, CH42, CH-42, CHL11, CHL1-1 P-loop containing nucleoside triphosphate hydrolases superfamily protein chr4:10201897-10203361 REVERSE LENGTH=424	AT4G18480.1	46 kDa	2	1	0	0	0	0	2	0	0	0
Symbols: CHL12, CHL12, CHL1-2 magnesium chelatase i2 chr5:18628095-18629565 FORWARD LENGTH=418	AT5G45930.1	46 kDa	2	0	0	0	0	0	0	0	0	0
Symbols: transducin family protein / WD-40 repeat family protein chr3:23431009-23437241 REVERSE LENGTH=1104	AT3G63460.1 (+2)	120 kDa	1	1	0	0	1	0	2	0	0	0
Symbols: vacuolar ATP synthase subunit H family protein chr3:14228846-14232228 REVERSE LENGTH=441	AT3G42050.1	50 kDa	2	1	0	1	0	1	0	0	0	0
Symbols: RPL18 ribosomal protein L18 chr3:1621511-1622775 FORWARD LENGTH=187	AT3G05590.1 (+1)	21 kDa	2	1	1	1	0	2	1	1	0	0
Symbols: RPT5A, ATS6A.2 regulatory particle triple-A ATPase 5A chr3:1603540-1605993 FORWARD LENGTH=424	AT3G05530.1	47 kDa	3	2	0	0	0	1	2	2	0	0
Symbols: AGT, AGT1, SGAT alanine:glyoxylate aminotransferase chr2:5539417-5540902 REVERSE LENGTH=401	AT2G13360.1 (+1)	44 kDa	1	1	1	0	1	0	1	2	0	0
Symbols: Ribosomal protein L22p/L17e family protein chr1:9515230-9516725 FORWARD LENGTH=176	AT1G27400.1 (+1)	20 kDa	0	0	1	2	0	0	0	0	0	0
Symbols: VHA-A vacuolar ATP synthase subunit A chr1:29660463-29664575 FORWARD LENGTH=623	AT1G78900.1 (+1)	69 kDa	1	0	0	0	0	2	0	0	0	0
Symbols: RPT1A regulatory particle triple-A 1A chr1:20065921-20068324 REVERSE LENGTH=426	AT1G53750.1	48 kDa	2	1	0	1	0	0	0	0	0	0
Symbols: ATJ2, J2 DNAJ homologue 2 chr5:7303798-7305668 REVERSE LENGTH=419	AT5G22060.1	46 kDa	2	2	0	0	0	0	2	0	0	0
Symbols: ATJ3, ATJ DNAJ homologue 3 chr3:15869115-15871059 REVERSE LENGTH=420	AT3G41110.1 (+1)	46 kDa	2	2	0	0	0	0	1	0	0	0
Symbols: RPS1, ARRP51 ribosomal protein S1 chr5:11619262-11621223 REVERSE LENGTH=416	AT5G30510.1	45 kDa	1	0	0	3	0	0	4	0	0	0
Symbols: ACCD acetyl-CoA carboxylase carboxyl transferase subunit beta chrC:57075-58541 FORWARD LENGTH=488	ATCG00500.1	56 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: RPS8 ribosomal protein S8 chrC:80068-80472 REVERSE LENGTH=134	ATCG00770.1	15 kDa	1	2	0	1	0	1	1	1	0	0
Symbols: SSR16 small subunit ribosomal protein 16 chr4:16535084-16536092 REVERSE LENGTH=113	AT4G34620.1	13 kDa	1	1	0	1	0	1	1	1	2	0
Symbols: Sucrose-6P-phosphate phosphohydrolase family protein chr2:15053952-15055776 FORWARD LENGTH=422	AT2G35840.1 (+2)	48 kDa	1	0	0	0	0	2	0	0	0	0
Symbols: GTP binding Elongation factor Tu family protein chr4:1295751-1298354 REVERSE LENGTH=454	AT4G02930.1	49 kDa	3	0	0	1	0	0	0	0	0	0
Symbols: ECT2 evolutionarily conserved C-terminal region 2 chr4:438574-4388220 REVERSE LENGTH=667	AT3G13460.1 (+3)	72 kDa	3	2	0	0	0	0	0	0	0	0
Symbols: Glycine cleavage T-protein family chr1:4001801-4003245 FORWARD LENGTH=408	AT1G11860.1 (+2)	44 kDa	1	1	0	1	0	1	0	2	0	0
Symbols: NOP56 homolog of nuclear protein NOP56 chr1:20984544-20986993 REVERSE LENGTH=522	AT1G56110.1	59 kDa	1	0	0	0	0	0	2	0	0	0
Symbols: RPS15A ribosomal protein S15A chr1:2408413-2409065 REVERSE LENGTH=130	AT1G07770.1 (+2)	15 kDa	1	1	1	0	0	1	3	0	0	0
Symbols: Ribosomal protein S8 family protein chr2:16517588-16518265 REVERSE LENGTH=136	AT2G39590.1	15 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: RPN1A, ATRPN1A 26S proteasome regulatory subunit S2 1A chr2:8859211-8864699 FORWARD LENGTH=891	AT2G20580.1	?	2	1	0	0	0	0	0	0	0	0
Symbols: PAC1 20S proteasome alpha subunit C1 chr3:7792819-												

Symbols: RPL16 ribosomal protein L16 chrC:81189-82652 REVERSE LENGTH=135	ATCG00790.1	15 kDa	1	0	0	1	0	2	0	0	0	0
Symbols: PUB12, ATPUB12 PLANT U-BOX 12 chr2:12367001-12370608 REVERSE LENGTH=962	AT2G28830.1	107 kDa	1	0	0	1	0	1	0	0	0	0
Symbols: NAD(P)-binding Rossmann-fold superfamily protein chr3:11193767-11194948 REVERSE LENGTH=298	AT3G29250.1	32 kDa	0	0	0	1	0	0	0	0	0	0
Symbols: ILA ILITYHIA chr1:24065232-24081908 REVERSE LENGTH=2610	AT1G64790.1 (+1)	285 kDa	3	0	0	0	0	0	0	0	0	0
Symbols: APUM5, PUM5 pumilio 5 chr3:7059098-7062660 REVERSE LENGTH=961	AT3G20250.1	107 kDa	3	1	0	1	0	0	0	0	0	0
Symbols: ATTP57, TP57, ATTP5A trehalose-phosphatase/synthase 7 chr1:1955413-1958153 FORWARD LENGTH=851	AT1G06410.1	97 kDa	1	0	0	0	0	3	0	0	0	0
Symbols: transcription regulators chr1:373335-386682 FORWARD LENGTH=2431	AT1G02080.1 (+1)	270 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: ATGSTF9, GLUTTR, ATGSTF7, GSTF9 glutathione S-transferase PH19 chr2:13139132-13140057 FORWARD LENGTH=215	AT2G30860.1 (+1)	24 kDa	0	2	0	1	0	0	0	0	0	0
Symbols: Ribosomal protein L35Ae family protein chr1:27928415-27929466 REVERSE LENGTH=112	AT1G74270.1	13 kDa	1	0	0	2	0	1	0	0	0	0
Symbols: ATU2AF35B, U2AF35B Zinc finger C-x8-C-x5-C-x3-H type family protein chr5:17170445-17171296 REVERSE LENGTH=283	AT5G42820.1 (+1)	33 kDa	2	0	0	1	0	1	0	0	0	0
Symbols: ATU2AF35A U2 snRNP auxiliary factor small subunit, putative chr1:9615302-9616042 FORWARD LENGTH=246	AT1G27650.2	29 kDa	0	0	0	1	0	1	0	0	0	0
Symbols: Zinc finger C-x8-C-x5-C-x3-H type family protein chr3:16328221-16328448 REVERSE LENGTH=75	AT3G44785.1	9 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: PIF5, PIF5 phytochrome interacting factor 3-like 6 chr3:21828189-21829895 REVERSE LENGTH=442	AT3G59060.1 (+3)	49 kDa	0	0	1	0	0	2	0	0	0	0
Symbols: PIF4, SRL2, ATPIF4 phytochrome interacting factor 4 chr2:17887003-17888823 FORWARD LENGTH=430	AT2G43010.1 (+1)	48 kDa	0	0	1	0	0	1	0	0	0	0
Symbols: Ribosomal protein L31e family protein chr2:8513577-8514346 FORWARD LENGTH=119	AT2G19740.1 (+2)	14 kDa	0	0	0	2	0	2	0	0	0	0
Symbols: Ribosomal protein L31e family protein chr5:22944003-22944767 REVERSE LENGTH=85	AT5G56710.2	10 kDa	0	0	0	1	0	1	0	0	0	0
Symbols: Coatomer epsilon subunit chr1:10858546-10860173 REVERSE LENGTH=292	AT1G30630.1	33 kDa	0	0	0	2	0	2	0	0	0	0
Symbols: SHM4 serine hydroxymethyltransferase 4 chr4:8048013-8050021 REVERSE LENGTH=471	AT4G19930.1	52 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: RPL22 ribosomal protein L22 chrC:83467-83949 REVERSE LENGTH=160	ATCG00810.1	19 kDa	0	0	0	1	0	2	0	0	0	0
Symbols: PBE1 20S proteasome beta subunit E1 chr1:4452644-4454663 FORWARD LENGTH=274	AT1G13060.1 (+2)	30 kDa	0	2	0	0	0	0	0	0	0	0
Symbols: PSB8 photosystem II reaction center protein B chrC:72371-73897 FORWARD LENGTH=508	ATCG00680.1	56 kDa	1	1	0	0	0	2	0	0	0	0
Symbols: NRPB1, RPB1, RNA_POL_II_LSRNA_POL_II_L5, RNA_POL_II_L5 RNA polymerase II large subunit chr4:16961115-16967892 REVERSE LENGTH=1839	AT4G38000.1	205 kDa	2	0	0	0	0	0	0	0	0	0
Symbols: EMB2761 threonyl-tRNA synthetase, putative threonine-tRNA ligase, putative chr2:1698466-1701271 REVERSE LENGTH=650	AT2G04842.1	75 kDa	0	0	0	0	2	0	0	0	0	0
Symbols: ELF4_L4 ELF4-like 4 chr1:5997932-5998276 FORWARD LENGTH=114	AT1G17455.1 (+1)	13 kDa	0	0	0	0	0	2	2	2	1	0
Symbols: AAA-type ATPase family protein chr1:17009220-17011607 FORWARD LENGTH=399	AT1G45000.1 (+2)	45 kDa	2	2	0	0	0	2	0	0	0	0
Symbols: PHO71, NPH1, JK22a, RPT1 phototropin 1 chr3:16818557-16823860 FORWARD LENGTH=996	AT3G45780.1 (+1)	112 kDa	2	0	0	0	0	1	0	0	0	0
Symbols: PHO72, NPH1 phototropin 2 chr5:23524771-23529993 FORWARD LENGTH=915	AT5G58140.1 (+3)	102 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ZFN1 zinc finger protein 1 chr3:614075-615916 FORWARD LENGTH=397	AT3G02830.1	44 kDa	2	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L35Ae family protein chr1:15651585-15652427 REVERSE LENGTH=111	AT1G41880.1	13 kDa	0	0	0	2	0	1	0	0	0	0
Symbols: SPA3 SPA1-related 3 chr3:5169327-5172480 REVERSE LENGTH=837	AT3G15354.1	93 kDa	1	2	0	0	0	0	0	0	0	0
Symbols: PRP39 Tetratricopeptide repeat (TPR)-like superfamily protein chr1:1051803-1056550 FORWARD LENGTH=768	AT1G04080.1 (+1)	85 kDa	2	0	0	0	0	0	0	0	0	0
Symbols: ABA1, LOS6, NPQ2, ATABA1, ZEP, IBS3, ATZEP zeaxanthin epoxidase (ZEP) (ABA1) chr5:26753745-26757090 REVERSE LENGTH=667	AT5G67030.1 (+1)	74 kDa	2	0	0	0	0	0	0	0	0	0

Percent Coverage

Identified Proteins (283)	Accession Number	Molecular Weight	AtELF3-1	AtELF3-2	SvELF3#2 rep1	SvELF3#2 rep2	SvELF3#3 rep1	SvELF3#3 rep2	BdELF3#2 rep1	BdELF3#2 rep2	BdELF3#3 rep1	BdELF3#3 rep2
Symbols: PHYB, HY3, OOP1 phytochrome B chr2:8140079-8144151 FORWARD LENGTH=1172	AT2G18790.1	129 kDa	36.80%	37.40%	54.20%	42.20%	49.60%	45.00%	33.70%	32.90%	39.80%	37.30%
Symbols: PHYD phytochrome D chr4:9195602-9199486 REVERSE LENGTH=1164	AT4G16250.1	129 kDa	10.10%	11.00%	11.90%	11.70%	14.70%	11.90%	11.10%	10.10%	13.60%	11.80%
Symbols: HSC70-1, HSP70-1, AT-HSC70-1, HSC70 heat shock cognate protein 70-1 chr5:554055-556334 REVERSE LENGTH=651	AT5G02500.1	71 kDa	36.10%	28.40%	55.60%	51.00%	53.80%	58.70%	28.40%	28.10%	16.70%	22.60%
Symbols: Heat shock protein 70 (Hsp 70) family protein chr3:2903434-2905632 REVERSE LENGTH=649	AT3G09440.1 (+1)	71 kDa	37.30%	33.60%	49.90%	44.40%	51.00%	47.80%	33.60%	31.70%	12.80%	24.50%
Symbols: HSP70, ATHSP70 heat shock protein 70 chr3:3991487-3993689 REVERSE LENGTH=650	AT3G12580.1	71 kDa	27.80%	20.80%	31.20%	36.90%	37.50%	41.70%	22.60%	22.30%	8.77%	15.10%
Symbols: Heat shock protein 70 (Hsp 70) family protein chr5:550296-552565 REVERSE LENGTH=653	AT5G02490.1	71 kDa	31.70%	24.50%	29.60%	28.20%	31.40%	39.20%	22.70%	20.80%	8.73%	15.00%
Symbols: Hsp70b heat shock protein 70b chr1:5502386-5504326 REVERSE LENGTH=646	AT1G16030.1	71 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: BdELF3_HFC	ATMGcustom02	86 kDa	2.38%	0	1.00%	0.00%	1.00%	0.00%	41.70%	42.70%	35.30%	33.10%
Symbols: PHYC phytochrome C chr5:14008049-14011619 FORWARD LENGTH=1111	AT5G35840.1	124 kDa	29.40%	28.90%	37.40%	38.70%	37.10%	42.10%	24.10%	22.00%	22.70%	26.80%
Symbols: SvELF3_HFC	ATMGcustom01	87 kDa	2.38%	0	40.20%	48.00%	42.40%	54.40%	1.00%	1.00%	1.00%	2.38%
Symbols: AtELF3_HFC	ATMGcustom03	84 kDa	35.80%	31.40%	0	0	0	0	0.00%	0	0	2.51%
Symbols: TZP zinc knuckle (CCHC-type) family protein chr5:17527261-17530207 FORWARD LENGTH=831	AT5G43630.1	91 kDa	21.40%	17.00%	22.50%	32.50%	22.00%	36.10%	17.80%	19.30%	20.20%	21.70%
Symbols: RBCL ribulose-bisphosphate carboxylases chrC:54958-56397 FORWARD LENGTH=479	ATCG00490.1	53 kDa	32.20%	30.10%	39.20%	34.20%	29.00%	46.10%	32.20%	21.50%	22.80%	0
Symbols: PHYE phytochrome E chr4:10042312-10045948 REVERSE LENGTH=1112	AT4G18130.1	123 kDa	16.00%	26.60%	18.30%	23.20%	18.50%	23.50%	7.46%	14.10%	19.20%	18.40%
Symbols: TUB2 tubulin beta chain 2 chr5:25181560-25183501 FORWARD LENGTH=450	AT5G62690.1 (+1)	51 kDa	31.10%	27.10%	9.78%	23.10%	12.90%	28.90%	20.70%	16.90%	13.30%	11.10%
Symbols: TUB5 tubulin beta-5 chain chr1:6938033-6940481 REVERSE LENGTH=449	AT1G20010.1	50 kDa	25.60%	20.90%	0	21.60%	0	27.60%	20.90%	10.20%	7.57%	5.35%
Symbols: TUB6 beta-6 tubulin chr5:3961317-3962971 REVERSE LENGTH=449	AT5G12250.1	51 kDa	20.70%	18.30%	0	14.30%	0	20.30%	18.30%	10.20%	7.57%	5.35%
Symbols: TUB9 tubulin beta-9 chain chr4:11182218-11183840 FORWARD LENGTH=444	AT4G02890.1	50 kDa	28.40%	24.30%	0	20.90%	7.21%	23.20%	15.80%	10.40%	7.66%	5.41%
Symbols: TUB7 tubulin beta-7 chain chr2:12644258-12645932 REVERSE LENGTH=449	AT2G29550.1	51 kDa	27.40%	23.40%	0	16.70%	12.90%	26.30%	18.30%	16.00%	7.57%	5.35%
Symbols: TUB4 tubulin beta chain 4 chr5:17859442-17860994 REVERSE LENGTH=444	AT5G44340.1	50 kDa	28.40%	24.30%	0	18.20%	7.21%	26.60%	18.50%	10.40%	7.66%	5.41%
Symbols: TUB8 tubulin beta 8 chr5:8042962-8044528 FORWARD LENGTH=449	AT5G23860.1 (+1)	51 kDa	28.70%	24.70%	0	20.50%	12.90%	20.30%	18.30%	16.00%	7.57%	0
Symbols: PCH1 F-box family protein chr2:7074940-7079181 FORWARD LENGTH=778	AT2G16365.1 (+2)	89 kDa	14.90%	14.90%	17.50%	25.10%	21.00%	28.70%	15.40%	16.60%	18.60%	18.60%
Symbols: GAPC-2, GAPC2 glyceraldehyde-3-phosphate dehydrogenase C2 chr1:4608465-4610494 REVERSE LENGTH=338	AT1G13440.1	37 kDa	37.30%	31.70%	22.50%	58.60%	34.90%	52.70%	20.70%	15.40%	16.60%	10.40%
Symbols: GAPC, GAPC-1, GAPC1 glyceraldehyde-3-phosphate dehydrogenase C subunit 1 chr3:1081077-1083131 FORWARD LENGTH=338	AT3G04120.1	37 kDa	37.30%	31.70%	22.50%	58.60%	34.90%	52.70%	20.70%	12.70%	27.20%	10.40%
Symbols: ATPA ATP synthase subunit alpha chrC:9938-11461 REVERSE LENGTH=507	ATCG00120.1	55 kDa	31.60%	20.90%	2.37%	26.60%	0	35.70%	22.70%	20.90%	18.30%	9.86%
Symbols: TUA4, TOR2 tubulin alpha-4 chain chr1:1356421-1358266 REVERSE LENGTH=450	AT1G04820.1 (+1)	50 kDa	20.20%	21.30%	18.70%	32.90%	21.30%	35.60%	8.44%	16.90%	6.44%	4.44%
Symbols: TUA3 tubulin alpha-3 chr5:6682761-6684474 REVERSE LENGTH=450	AT5G19770.1 (+1)	50 kDa	11.10%	10.90%	11.10%	20.70%	9.11%	26.40%	4.00%	12.70%	2.00%	0
Symbols: TUA6 Tubulin/Tts2 family protein chr4:8548753-8550319 REVERSE LENGTH=427	AT4G14960.1	47 kDa	21.30%	19.20%	16.40%	31.40%	19.20%	32.30%	8.90%	21.10%	6.79%	4.68%
Symbols: ACT8 actin 8 chr1:18216539-18217947 FORWARD LENGTH=377	AT1G49240.1 (+1)	42 kDa	12.50%	12.50%	9.02%	18.30%	11.90%	15.10%	12.50%	12.50%	12.50%	12.50%
Symbols: ACT7 actin 7 chr5:3052809-3054220 FORWARD LENGTH=377	AT5G09810.1	42 kDa	16.70%	16.70%	4.24%	22.50%	16.20%	22.30%	16.70%	12.50%	9.02%	4.24%
Symbols: ACT1, AAC1 actin 1 chr2:15779761-15781241 FORWARD LENGTH=377	AT2G37620.1 (+2)	42 kDa	4.24%	0.00%	0	12.70%	2.92%	5.57%	0.00%	0	0	0
Symbols: ACT4 actin 4 chr5:23950109-23951586 FORWARD LENGTH=377	AT5G59370.1 (+1)	42 kDa	0	0	0	13.30%	0	10.30%	4.77%	4.77%	4.77%	0
Symbols: Actin family protein chr2:17578683-17580222 FORWARD LENGTH=329	AT2G42170.1	37 kDa	5.47%	5.47%	6.99%	5.47%	5.47%	5.47%	5.47%	5.47%	5.47%	0
Symbols: Actin-like ATPase superfamily protein chr2:17560211-17561945 FORWARD LENGTH=378	AT2G42100.1	42 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ATRAB8D, ATRABE1B, RABE1b RAB GTPase homolog E1B chr4:10990036-10991466 FORWARD LENGTH=476	AT4G20360.1	52 kDa	17.60%	14.10%	32.10%	34.70%	30.50%	40.50%	14.10%	11.60%	9.03%	9.03%
Symbols: Ribosomal protein S5 family protein chr2:17460016-17461398 REVERSE LENGTH=285	AT2G41840.1	31 kDa	23.90%	28.40%	9.12%	14.00%	15.10%	20.00%	23.90%	23.90%	10.50%	5.26%
Symbols: XW6 Ribosomal protein S5 family protein chr1:21689115-21690085 FORWARD LENGTH=284	AT1G59380.1 (+3)	31 kDa	27.80%	23.60%	13.40%	9.51%	23.90%	24.30%	14.10%	14.10%	5.28%	0.00%
Symbols: Ribosomal protein S5 family protein chr3:21279824-21280887 REVERSE LENGTH=276	AT3G57490.1	30 kDa	12.70%	0	0	0	0	0	0	0	0	0
Symbols: TIC time for coffee chr3:7913181-7918967 FORWARD LENGTH=1555	AT3G22380.2	165 kDa	5.47%	5.47%	4.18%	12.20%	2.96%	15.30%	4.05%	3.02%	1.29%	1.29%
Symbols: ELF4 Protein of unknown function (OUF1313) chr2:16734545-16734880 REVERSE LENGTH=111	AT2G40080.1	12 kDa	49.50%	49.50%	42.20%	67.60%	60.40%	49.50%	49.50%			

Symbols: MAT3 methionine adenosyltransferase 3 chr2:15479721-15480893 REVERSE LENGTH=390	AT2G36880.1 (+1)	42 kDa	20.50%	11.50%	10.00%	3.85%	0	10.00%	0	0	0	0
Symbols: SAM-2, MAT2, SAM2, ATSAM2 S-adenosylmethionine synthetase 2 chr4:796298-797479 REVERSE LENGTH=393	AT4G01850.1 (+1)	43 kDa	23.70%	9.16%	0	8.62%	0	9.41%	0	0	0	0
Symbols: SAM1, SAM-1, MAT1, ATSAM1 S-adenosylmethionine synthetase 1 chr1:519037-520218 FORWARD LENGTH=393	AT1G02500.1 (+1)	43 kDa	19.80%	5.34%	0	6.62%	0	12.20%	0	0	0	0
Symbols: RCA rubisco activase chr2:16570951-16573345 REVERSE LENGTH=474	AT2G39730.1	52 kDa	23.80%	21.50%	10.80%	15.60%	13.30%	23.20%	21.50%	19.60%	12.00%	8.02%
Symbols: PCL1, LUX Homeodomain-like superfamily protein chr3:17183248-17184219 FORWARD LENGTH=323	AT3G46640.1 (+1)	35 kDa	3.10%	3.10%	10.20%	18.90%	10.20%	22.90%	3.10%	3.10%	3.10%	10.50%
Symbols: GS2, GLN2, ATGS1L glutamine synthetase 2 chr5:13831220-13833239 FORWARD LENGTH=430	AT5G35630.1 (+2)	47 kDa	22.80%	17.70%	16.50%	33.00%	16.50%	22.60%	17.70%	14.00%	3.49%	3.49%
Symbols: CAT3, SEN2, ATCAT3 catalase 3 chr1:7143142-7146193 FORWARD LENGTH=485	AT1G20620.5	56 kDa	37.30%	32.00%	4.74%	24.70%	2.89%	28.00%	23.70%	11.50%	2.27%	2.27%
Symbols: Clathrin, heavy chain chr3:348275-3491667 REVERSE LENGTH=1705	AT3G11130.1	193 kDa	13.30%	8.68%	0	1.94%	0	5.04%	2.17%	1.29%	0	0
Symbols: Clathrin, heavy chain chr3:2587171-2595411 REVERSE LENGTH=1703	AT3G08530.1	193 kDa	12.40%	7.99%	0	1.94%	0	5.05%	2.17%	1.29%	0	0
Symbols: Ribosomal protein S3 family protein chr3:19951547-19952782 FORWARD LENGTH=249	AT3G53870.1	27 kDa	16.90%	16.90%	16.90%	22.50%	16.90%	25.70%	10.40%	10.40%	10.40%	5.22%
Symbols: Ribosomal protein S3 family protein chr2:13450384-13451669 FORWARD LENGTH=250	AT2G31610.1	28 kDa	20.00%	20.00%	16.80%	22.40%	16.80%	30.80%	13.60%	10.40%	5.20%	5.20%
Symbols: Ribosomal protein S3 family protein chr5:13710355-13712192 REVERSE LENGTH=248	AT5G35530.1	27 kDa	20.60%	20.60%	16.90%	22.60%	16.90%	25.80%	14.10%	5.24%	5.24%	5.24%
Symbols: EIF4A1, RH4, TIF4A1 eukaryotic translation initiation factor 4A1 chr3:4592635-4594128 REVERSE LENGTH=412	AT3G13920.1 (+1)	47 kDa	14.60%	12.60%	10.90%	12.10%	22.60%	16.70%	8.25%	5.83%	5.83%	5.83%
Symbols: EIF4A-2 eif4a-2 chr1:20260495-20262018 FORWARD LENGTH=412	AT1G54270.1	47 kDa	10.20%	8.25%	10.90%	12.10%	22.60%	17.50%	8.25%	5.83%	5.83%	5.83%
Symbols: EIF4A-III eukaryotic initiation factor 4A-III chr3:6863790-6866242 FORWARD LENGTH=408	AT3G19760.1	?	0	0	0	0	0	0	0	0	0	0
Symbols: BIP, BIP2 Heat shock protein 70 (Hsp 70) family protein chr5:16807697-16810480 REVERSE LENGTH=668	AT5G42020.1	74 kDa	5.99%	10.30%	7.78%	19.50%	15.60%	23.20%	2.40%	4.64%	6.59%	4.49%
Symbols: DAYSLLEEPER BED zinc finger; hAT family dimerisation domain chr3:14321838-14323928 FORWARD LENGTH=696	AT3G42170.1	79 kDa	19.00%	11.40%	0	15.90%	0	27.20%	7.80%	8.19%	4.02%	0
MLK2 Symbols: Protein kinase family protein chr3:1014412-1018244 REVERSE LENGTH=701	AT3G09340.1	78 kDa	8.27%	7.99%	0	6.56%	0	1.57%	19.80%	13.00%	13.40%	9.42%
MLK1 Symbols: Protein kinase family protein chr5:6010215-6013724 REVERSE LENGTH=691	AT5G18190.1	77 kDa	12.40%	10.70%	0	4.92%	0	1.59%	14.00%	14.00%	10.70%	10.70%
Symbols: GABP glyceraldehyde-3-phosphate dehydrogenase B subunit chr1:16127552-16129584 FORWARD LENGTH=447	AT1G42970.1	48 kDa	26.00%	21.70%	3.36%	34.70%	3.36%	40.50%	16.30%	12.30%	9.62%	3.36%
Symbols: SPA1 SPA (suppressor of phyA-105) protein family chr2:19022572-19026821 REVERSE LENGTH=1029	AT2G46340.1	115 kDa	13.50%	8.84%	2.43%	8.07%	2.82%	8.55%	0	0	8.16%	5.83%
Symbols: Ribulose biphosphate carboxylase (small chain) family protein chr5:15377501-15378306 REVERSE LENGTH=181	AT5G38410.1	20 kDa	26.50%	22.10%	36.50%	39.20%	37.00%	39.20%	26.50%	17.70%	21.50%	17.10%
Symbols: Ribulose biphosphate carboxylase (small chain) family protein chr5:15384350-15385155 REVERSE LENGTH=181	AT5G38430.1	20 kDa	26.00%	21.50%	16.60%	18.80%	16.60%	18.80%	16.60%	7.73%	12.20%	7.73%
Symbols: PHYA, FHY2, FRE1, HY8 phytochrome A chr1:3095498-3099216 REVERSE LENGTH=1122	AT1G09570.1	125 kDa	1.16%	1.34%	11.30%	5.17%	11.20%	2.41%	0.00%	2.23%	7.40%	4.37%
Symbols: Ribosomal protein L4/L1 family chr3:2953813-2955444 FORWARD LENGTH=406	AT3G09630.1 (+1)	45 kDa	3.69%	3.69%	3.45%	6.65%	3.45%	21.70%	7.14%	3.69%	0	0
Symbols: Ribosomal protein L4/L1 family chr5:657830-659264 FORWARD LENGTH=407	AT5G02870.1 (+1)	45 kDa	6.88%	6.88%	3.44%	7.13%	3.44%	18.20%	6.63%	0	0	0
Symbols: PSC1, ATPSC1 delta1-pyrroline-5-carboxylate synthase 1 chr2:16598516-16602939 REVERSE LENGTH=717	AT2G39800.1 (+1)	78 kDa	12.10%	13.20%	3.35%	5.72%	3.35%	18.50%	7.81%	6.00%	3.21%	0
Symbols: PSC2 delta1-pyrroline-5-carboxylate synthase 2 chr3:20624278-20628989 REVERSE LENGTH=726	AT3G55610.1	79 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: RBCS1A ribulose biphosphate carboxylase small chain 1A chr1:2504865-25049249 REVERSE LENGTH=180	AT1G67090.1	20 kDa	26.70%	26.70%	26.70%	38.90%	27.20%	38.90%	22.20%	17.80%	7.78%	17.80%
Symbols: ATCMS, ATMETS, ATMS1 Cobalamin-independent synthase family protein chr5:5935711-5939195 FORWARD LENGTH=765	AT5G17920.1 (+1)	84 kDa	7.06%	9.93%	7.06%	8.76%	5.75%	12.70%	3.92%	1.83%	0	0
Symbols: ATMS3, MS3 methionine synthase 3 chr5:7124397-7128353 REVERSE LENGTH=812	AT5G20980.1 (+1)	91 kDa	2.34%	3.20%	0	3.20%	0	1.97%	0	0	0	0
Symbols: PGK1 phosphoglycerate kinase 1 chr3:4061127-4063140 REVERSE LENGTH=481	AT3G12780.1	50 kDa	16.20%	12.50%	0	17.30%	0	25.20%	10.40%	7.28%	3.53%	0
Symbols: PGK phosphoglycerate kinase chr1:29924347-29926295 REVERSE LENGTH=401	AT1G79550.1 (+1)	42 kDa	8.73%	0	0	0	0	4.24%	4.24%	4.24%	0	0
Symbols: Phosphoglycerate kinase family protein chr1:21028622-21030454 FORWARD LENGTH=405	AT1G56190.2	43 kDa	11.10%	0	11.40%	0	0	13.60%	0	0	0	0
Symbols: LOS1 Ribosomal protein S5/Elongation factor G/III/V family protein chr1:20968245-20971077 REVERSE LENGTH=843	AT1G56070.1	94 kDa	5.93%	4.98%	2.73%	6.52%	4.15%	18.70%	2.14%	2.14%	0	0
Symbols: structural constituent of ribosome chrC:82826-83482 REVERSE LENGTH=218	ATCG00800.1	25 kDa	30.70%	22.50%	9.17%	22.50%	9.17%	31.20%	4.13%	0	0	0
Symbols: CAT2 catalase 2 chr4:16700937-16703215 REVERSE LENGTH=492	AT4G45090.1	57 kDa	27.40%	17.90%	6.91%	24.60%	2.85%	19.50%	12.40%	12.20%	2.24%	2.24%
Symbols: Ribosomal protein S27a / Ubiquitin family protein chr1:8314940-8315410 FORWARD LENGTH=156	AT1G23410.1 (+3)	18 kDa	21.20%	21.20%	10.30%	15.40%	10.30%	15.40%	21.20%	16.00%	5.77%	16.00%
Symbols: UBQ9 ubiquitin 9 chr5:14952782-14953750 REVERSE LENGTH=322	AT5G37640.1	36 kDa	0	7.76%	0	0	0	0	0	0	0	0
Symbols: UBQ12 ubiquitin 12 chr1:20549533-20550225 FORWARD LENGTH=230	AT1G55060.1	26 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: UBQ8 ubiquitin 8 chr3:3004111-3006006 REVERSE LENGTH=631	AT3G09790.1	72 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: GTP binding Elongation factor Tu family protein chr1:2455559-2457001 FORWARD LENGTH=449	AT1G07920.1 (+5)	50 kDa	8.91%	6.90%	2.45%	8.91%	2.45%	14.30%	7.13%	2.45%	4.23%	2.45%
Symbols: Ribosomal protein L13 family protein chr3:9064613-9065871 FORWARD LENGTH=206	AT3G24830.1	23 kDa	5.83%	5.83%	6.80%	6.80%	12.60%	6.80%	5.83%	11.70%	0.00%	0
Symbols: Ribosomal protein L13 family protein chr3:2252092-2253332 FORWARD LENGTH=206	AT3G07110.1 (+1)	23 kDa	11.70%	12.10%	6.80%	6.80%	0	6.80%	11.70%	17.50%	0	0
Symbols: Ribosomal protein L13 family protein chr5:19771315-19772686 REVERSE LENGTH=206	AT5G48760.1 (+1)	24 kDa	0	0	0	6.80%	0	6.80%	5.83%	0	0	0
Symbols: Ribosomal protein L13 family protein chr4:7655133-7656542 REVERSE LENGTH=206	AT4G13170.1	24 kDa	0	6.31%	0	6.80%	0	0	11.70%	0	0	0
Symbols: HOG1, EMB1395, SAHH1, MEE58, ATSAHH1 S-adenosyl-L-homocysteine hydrolase chr4:8054931-8056676 FORWARD LENGTH=485	AT4G13940.1	53 kDa	6.39%	10.50%	5.98%	8.66%	5.98%	17.10%	2.06%	4.54%	0	0
Symbols: SAHH2, ATSAHH2 S-adenosyl-L-homocysteine (SAH) hydrolase 2 chr3:8588013-8589671 REVERSE LENGTH=485	AT3G2810.1	53 kDa	4.33%	4.33%	0	1.86%	0	10.30%	0	2.47%	0	0
Symbols: HOG1, SAHH1 S-adenosyl-L-homocysteine hydrolase chr4:8054931-8056763 FORWARD LENGTH=325	AT4G13940.4	36 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: CRB, CSP41B, HIP1.3 chloroplast RNA binding chr1:3015473-3018035 FORWARD LENGTH=378	AT1G09340.1	43 kDa	16.10%	11.60%	3.70%	4.23%	3.70%	18.00%	3.70%	3.70%	0	0
Symbols: ACC1, AT-ACC1, EMB22, GK, PAS3 acetyl-CoA carboxylase 1 chr1:13534196-13543773 FORWARD LENGTH=2254	AT1G36160.1 (+1)	251 kDa	8.07%	0.80%	0	1.06%	0	2.09%	0	0	0	0
Symbols: Ribosomal protein S5 domain 2-like superfamily protein chr5:6090253-6090693 REVERSE LENGTH=146	AT5G18380.1 (+1)	17 kDa	22.60%	28.10%	6.85%	22.60%	6.85%	13.00%	22.60%	22.60%	0.00%	0
Symbols: Ribosomal protein S5 domain 2-like superfamily protein chr2:3781442-3781882 FORWARD LENGTH=146	AT2G09990.1	17 kDa	15.80%	21.20%	0	15.80%	0	6.16%	15.80%	15.80%	0.00%	0
Symbols: CA1 carbonic anhydrase 1 chr3:194853-197873 REVERSE LENGTH=347	AT3G01500.2 (+1)	37 kDa	8.36%	8.36%	4.90%	13.80%	4.90%	18.40%	11.00%	4.61%	0.00%	0
Symbols: CA2, CA18, BETA CA2 carbonic anhydrase 2 chr5:4758257-4762382 FORWARD LENGTH=331	AT5G14740.1 (+1)	37 kDa	3.93%	3.93%	5.14%	14.50%	5.14%	23.60%	3.93%	0.00%	0	0
Symbols: ATAN11, LW01 Transducin/WD40 repeat-like superfamily protein chr1:4395114-4396154 REVERSE LENGTH=346	AT1G12910.1	39 kDa	21.40%	29.50%	21.10%	30.90%	16.80%	21.10%	21.70%	19.40%	11.00%	11.00%
Symbols: MLK4 Protein kinase family protein chr3:4469434-4473234 FORWARD LENGTH=703	AT3G13670.1	79 kDa	10.20%	12.70%	0	0	0	1.71%	21.20%	9.82%	10.80%	13.40%
Symbols: RPS6, RPS6A ribosomal protein S6 chr4:15346306-15347714 REVERSE LENGTH=250	AT4G31700.1	28 kDa	10.80%	24.00%	0.00%	3.60%	0	20.80%	24.00%	20.80%	10.80%	4.80%
Symbols: Ribosomal protein L30/L7 family protein chr2:132943-134264 REVERSE LENGTH=242	AT2G01250.1	28 kDa	19.00%	15.30%	4.96%	0	4.96%	10.30%	6.20%	9.92%	6.20%	0
Symbols: Ribosomal protein L30/L7 family protein chr2:18249227-18250417 REVERSE LENGTH=247	AT2G44120.2	29 kDa	9.72%	15.00%	0	6.07%	0	10.10%	0.00%	3.64%	0	0
Symbols: Ribosomal protein L30/L7 family protein chr3:4433809-4435109 FORWARD LENGTH=244	AT3G13580.1 (+2)	28 kDa	6.15%	11.50%	0	0	0	4.10%	6.15%	0.00%	0	0
Symbols: Coatomer, alpha subunit chr2:9152428-9156577 FORWARD LENGTH=1218	AT2G21390.1	136 kDa	2.13%	0.00%	0	2.46%	0	10.00%	0	0	0	0
Symbols: Coatomer, alpha subunit chr1:22919814-22923728 FORWARD LENGTH=1216	AT1G62020.1	137 kDa	2.55%	1.23%	0	0.00%	0	5.26%	0	0	0	0
Symbols: CAB3, AB180, LHCB1.2 chlorophyll A/B binding protein 3 chr1:10472443-10473246 REVERSE LENGTH=267	AT1G29910.1 (+1)	28 kDa	7.49%	7.49%	13.90%	7.49%	13.90%	7.49%	4.49%	4.49%	4.49%	0
Symbols: LHCB2.2, LHCB2 photosystem II light harvesting complex gene 2.2 chr2:1799436-1800329 REVERSE LENGTH=265	AT2G05070.1 (+2)	29 kDa	3.02%	3.02%	16.20%	3.02%	3.02%	7.49%	0	0	0.00%	0
Symbols: CAB1, AB140, CAB140, LHCB1.3 chlorophyll A/B binding protein 1 chr1:10478071-10478874 FORWARD LENGTH=267	AT1G29930.1	28 kDa	7.49%	7.49%	13.90%	7.49%	13.90%	7.49%	4.49%	4.49%	4.49%	0
Symbols: HSP60-2 heat shock protein 60-2 chr2:14075093-14078568 REVERSE LENGTH=585	AT2G3210.1 (+1)	62 kDa	2.22%	6.50%	2.22%	7.69%	2.22%	4.44%	2.22%	0	0	0
Symbols: HSP60, HSP60-3B heat shock protein 60 chr3:8669013-8672278 FORWARD LENGTH=577	AT3G23990.1	61 kDa	2.08%	7.80%	0	7.80%	0	6.59%	5.55%	2.08%	0	0
Symbols: Ribosomal protein S3Ae chr3:1329751-1331418 FORWARD LENGTH=262	AT3G04840.1	30 kDa	12.20%	12.20%	5.34%	5.34%	5.34%	16.40%	6.87%	6.87%	6.87%	0
Symbols: Ribosomal protein S3Ae chr4:16548724-16550222 FORWARD LENGTH=262	AT4G34670.1	30 kDa	12.20%	12.20%	5.34%	12.60%	5.34%	16.40%				

Symbols: Coatomer, beta subunit chr4:15269460-15272693 FORWARD LENGTH=948	AT4G31490.1	106 kDa	10.10%	5.91%	0	3.90%	0	7.81%	0.00%	0	0	0
Symbols: Coatomer, beta subunit chr4:15264145-15267384 FORWARD LENGTH=948	AT4G31480.1 (+1)	106 kDa	10.10%	5.91%	0	3.90%	0	6.22%	0	0	0	0
Symbols: MLK3 Protein kinase family protein chr2:10985118-10988652 REVERSE LENGTH=673	AT2G25760.1	76 kDa	4.90%	6.39%	0	3.71%	0	3.71%	12.50%	8.77%	9.06%	9.06%
Symbols: RPT3 regulatory particle triple-A ATPase 3 chr5:23569155-23571116 FORWARD LENGTH=408	AT5G58290.1	46 kDa	9.80%	10.00%	4.66%	6.66%	4.66%	8.09%	2.94%	2.94%	0	0.00%
Symbols: CPN60B, LEN1 chaperonin 60 beta chr1:20715717-20718673 REVERSE LENGTH=600	AT1G55490.1 (+1)	64 kDa	4.17%	10.70%	0	4.33%	0	4.00%	4.33%	0	2.17%	0
Symbols: TCP-1/cpn60 chaperonin family protein chr5:22874058-22876966 FORWARD LENGTH=597	AT5G56500.1 (+1)	63 kDa	0	4.52%	0	0	0	0	0	0	0	0
Symbols: ATARCA, RACK1A_AT, RACK1A Transducin/WD40 repeat-like superfamily protein chr1:62252325-6223901 FORWARD LENGTH=327	AT1G18080.1	36 kDa	2.75%	8.26%	0	8.56%	0	11.30%	3.98%	0	0	0
Symbols: RACK1B_AT receptor for activated C kinase 1B chr1:17981977-17983268 REVERSE LENGTH=326	AT1G48630.1	36 kDa	15.00%	0.00%	0	0	0	6.13%	0	8.28%	0	0
Symbols: RACK1C_AT receptor for activated C kinase 1C chr3:6211109-6212371 REVERSE LENGTH=326	AT3G18130.1	36 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA2, PMA2, HA2 H(+)-ATPase 2 chr4:14770820-14775920 REVERSE LENGTH=948	AT4G30190.1 (+1)	104 kDa	4.75%	3.90%	0	1.58%	0	3.27%	0	0	0	0
Symbols: AHA1, PMA, OST2, HA1 H(+)-ATPase 1 chr2:8221858-8227268 FORWARD LENGTH=949	AT2G18960.1	104 kDa	4.74%	2.74%	0	1.58%	0	3.27%	0	0	0	0
Symbols: AHA7, HA7 H(+)-ATPase 7 chr3:22298763-22303509 FORWARD LENGTH=961	AT3G60330.1 (+1)	106 kDa	1.04%	0	0	0	0	0	0.00%	0	0	0
Symbols: AHA4, HA4 H(+)-ATPase 4 chr3:17693015-17697801 FORWARD LENGTH=960	AT3G47950.1	106 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA3, ATAH3, HA3 H(+)-ATPase 3 chr5:23231208-23236381 REVERSE LENGTH=949	AT5G57350.1 (+1)	104 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: AHA10 autoinhibited H(+)-ATPase isoform 10 chr1:5904058-5908898 FORWARD LENGTH=947	AT1G17260.1	105 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ATPase, F1 complex, alpha subunit protein chr2:3361474-3364028 FORWARD LENGTH=777	AT2G07698.1	86 kDa	2.70%	2.70%	2.83%	5.66%	2.83%	7.08%	1.42%	0.00%	0	0
Symbols: LWD2 Transducin/WD40 repeat-like superfamily protein chr3:9793276-9794316 FORWARD LENGTH=346	AT3G26640.1	39 kDa	21.40%	21.10%	11.00%	15.90%	11.00%	27.20%	15.90%	15.90%	11.00%	11.00%
Symbols: ATPase, V1 complex, subunit B protein chr1:7016971-7020290 FORWARD LENGTH=487	AT1G20260.1 (+2)	54 kDa	10.10%	10.10%	0	6.16%	0	7.19%	3.08%	7.19%	0	0
Symbols: ATGSTF8, ATGSTF5, GST6, GSTF8 glutathione S-transferase phi 8 chr2:19558213-19559266 FORWARD LENGTH=263	AT2G47730.1	29 kDa	15.60%	10.60%	0	0.00%	0	27.00%	0	0	0	0
Symbols: ATPC1 ATPase, F1 complex, gamma subunit protein chr4:2350761-2351882 REVERSE LENGTH=373	AT4G04640.1	41 kDa	18.00%	9.12%	0	6.17%	7.24%	6.17%	3.49%	6.17%	2.68%	0
Symbols: FBA2 fructose-bisphosphate aldolase 2 chr4:18163714-18165659 REVERSE LENGTH=398	AT4G38970.1	43 kDa	10.10%	10.80%	0	13.80%	7.04%	14.60%	10.80%	7.04%	0	0
Symbols: RPL16A ribosomal protein large subunit 16A chr2:17791794-17792946 FORWARD LENGTH=182	AT2G42740.1 (+4)	21 kDa	12.10%	12.10%	7.69%	7.69%	7.69%	7.69%	7.69%	12.10%	12.10%	7.69%
Symbols: Transketolase chr3:22454004-22456824 FORWARD LENGTH=741	AT3G0750.1 (+1)	80 kDa	6.21%	4.18%	0	0.00%	0	18.60%	2.43%	0	0	0
Symbols: binding chr3:19317899-19327014 FORWARD LENGTH=1606	AT5G47690.1 (+1)	181 kDa	5.35%	0	0	2.37%	0	5.98%	0	0	0	0
Symbols: SACS2, RPL10, RPL10A Ribosomal protein L16p/L10e family protein chr1:4888270-4889408 FORWARD LENGTH=220	AT1G14320.1	25 kDa	5.45%	10.50%	5.45%	5.00%	0	10.50%	10.50%	5.45%	5.45%	5.45%
Symbols: CAC3 acetyl Co-enzyme a carboxylase carboxyltransferase alpha subunit chr2:15917612-15920749 FORWARD LENGTH=769	AT2G38040.1 (+1)	85 kDa	6.63%	2.47%	0	0	0	7.41%	0	0	0	0
Symbols: RAN-1, RAN1, ATRAN1 RAS-related nuclear protein-1 chr5:6760364-6761747 FORWARD LENGTH=221	AT5G20010.1 (+2)	25 kDa	10.40%	15.40%	0	11.30%	0	31.20%	5.88%	0	0	0
Symbols: Ribosomal protein S4 chr5:4935124-4936334 REVERSE LENGTH=198	AT5G15200.1	23 kDa	9.60%	9.60%	7.58%	13.10%	7.58%	13.10%	4.55%	0	0	0
Symbols: Ribosomal protein S26e family protein chr2:16918506-16919623 FORWARD LENGTH=133	AT2G40510.1 (+2)	15 kDa	18.00%	18.00%	0	18.00%	0	18.00%	18.00%	18.00%	6.77%	0
Symbols: EMB2296 Ribosomal protein L2 family chr2:7837151-7838160 FORWARD LENGTH=258	AT2G18020.1	28 kDa	12.00%	7.36%	7.36%	4.65%	7.36%	7.36%	7.36%	7.36%	7.36%	0.00%
Symbols: Ribosomal protein L2 family chr4:17097613-17098656 FORWARD LENGTH=258	AT4G6130.1	28 kDa	12.00%	7.36%	0	4.65%	0	0	0	7.36%	0	0
Symbols: Histone superfamily protein chr1:2369212-2369523 FORWARD LENGTH=103	AT1G07660.1 (+8)	11 kDa	9.71%	9.71%	7.77%	29.10%	7.77%	29.10%	9.71%	9.71%	9.71%	9.71%
Symbols: oxidoreductases, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor:copper ion binding chr2:8613168-8615649 FORWARD LENGTH=401	AT2G19940.1 (+1)	44 kDa	19.70%	3.99%	0	3.99%	0	8.98%	3.99%	0	0	0
Symbols: ATPRS5B, RPS5B ribosomal protein 5B chr2:15647883-15649042 REVERSE LENGTH=207	AT2G37270.1 (+3)	23 kDa	17.90%	6.28%	0	0	0	13.50%	13.50%	13.50%	7.25%	0
Symbols: Thioredoxin superfamily protein chr3:3672189-3673937 FORWARD LENGTH=266	AT3G11630.1	29 kDa	0	6.39%	0	0.00%	0	12.40%	6.39%	10.90%	0	0
Symbols: PIP1B, TMP-A, ATHH2, PIP1.2 plasma membrane intrinsic protein 1B chr2:18910450-18911703 FORWARD LENGTH=286	AT2G45960.1 (+2)	31 kDa	3.50%	3.50%	0.00%	9.79%	6.29%	9.79%	3.50%	3.50%	0	0
Symbols: RPL27A, RPL27AB Ribosomal protein L18e/L15 superfamily protein chr1:8263007-8263447 FORWARD LENGTH=146	AT1G23290.1 (+1)	16 kDa	10.30%	10.30%	0.00%	6.85%	0	8.22%	17.10%	10.30%	10.30%	0
Symbols: Ribosomal protein L18ae/LX family protein chr2:14532916-14534161 REVERSE LENGTH=178	AT2G34480.1	21 kDa	8.99%	4.49%	0	9.55%	0	4.49%	0.00%	4.49%	0	0
Symbols: Ribosomal protein L18ae/LX family protein chr3:4910773-4911933 FORWARD LENGTH=178	AT3G14600.1	21 kDa	0	0	0	5.06%	0	0	0	0	0	0
Symbols: EMB2719, HAP15 PAM domain (PCI/PINT associated module) protein chr1:7001409-7001454 REVERSE LENGTH=488	AT1G20200.1	56 kDa	8.20%	8.81%	0	2.66%	0	9.02%	0	0	0	0
Symbols: PAM domain (PCI/PINT associated module) protein chr1:28524623-28526718 REVERSE LENGTH=487	AT1G75990.1	56 kDa	8.21%	0	0	2.67%	0	9.03%	0	0	0	0
Symbols: APS1 ATP sulfurylase 1 chr3:8112837-8114734 FORWARD LENGTH=463	AT3G22890.1	51 kDa	9.07%	2.59%	0	6.70%	0	9.29%	0	0	0	0
Symbols: APS2, ASA1 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr1:6914835-6916657 REVERSE LENGTH=476	AT1G19920.1	54 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: APS3 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr4:8413443-8415311 REVERSE LENGTH=465	AT4G14680.1	52 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Tetra-tyrosine repeat (TPR)-like superfamily protein chr3:22565440-22566678 REVERSE LENGTH=412	AT3G60980.1	47 kDa	0	0	0	0	0	13.80%	14.10%	0	0	0
Symbols: SPA2 SPA1-related 2 chr4:6772163-6776675 FORWARD LENGTH=1036	AT4G11110.1	115 kDa	10.60%	11.60%	0	0	0	0	0	0	0	0.00%
Symbols: PORB protochlorophyllide oxidoreductase B chr4:13725648-13727107 FORWARD LENGTH=401	AT4G27440.1 (+1)	43 kDa	12.50%	7.48%	0	2.99%	0	2.99%	0	0	0	0
Symbols: ATPF ATP synthase epsilon chain chrC:52265-52663 REVERSE LENGTH=132	ATCG00470.1	14 kDa	27.30%	27.30%	0	11.40%	0	11.40%	15.90%	27.30%	0	0
Symbols: RPL14 ribosomal protein L14 chrC:80696-81064 REVERSE LENGTH=122	ATCG00780.1	14 kDa	21.30%	21.30%	0	13.10%	0	23.80%	13.10%	21.30%	0.00%	0.00%
Symbols: C2 calcium/lipid-binding plant phosphoribosyltransferase family protein chr5:2127200-2129584 REVERSE LENGTH=794	AT5G06850.1	91 kDa	0	0	0	4.66%	0	8.44%	0	0	0	0
Symbols: FDH formate dehydrogenase chr5:4777043-4779190 FORWARD LENGTH=384	AT5G14780.1	42 kDa	9.38%	3.12%	0	7.03%	0	16.40%	0	7.03%	0	0
Symbols: TOC1, APRR1, PRR1, ATTOC1 CCT motif-containing response regulator protein chr5:24675540-24678176 FORWARD LENGTH=618	AT5G61380.1	69 kDa	4.05%	4.05%	5.34%	0	7.28%	0	1.94%	0	2.10%	2.10%
Symbols: ELF4-L2 ELF4-like 2 chr1:27344988-27345347 FORWARD LENGTH=119	AT1G72630.1	13 kDa	0	10.90%	0	12.60%	0	10.90%	21.80%	21.80%	21.80%	10.90%
Symbols: STV1, RPL24B, RPL24 Ribosomal protein L24e family protein chr3:19660749-19661912 REVERSE LENGTH=163	AT3G53020.1	19 kDa	14.70%	14.70%	0	7.36%	0	7.36%	14.70%	14.70%	0	0
Symbols: glycine-rich protein chr4:11944050-11945565 REVERSE LENGTH=356	AT4G22740.1 (+1)	39 kDa	12.10%	12.10%	0	0	0	12.10%	7.58%	0.00%	0	0
Symbols: Ribosomal L28e protein family chr2:8511752-8512995 FORWARD LENGTH=143	AT2G19730.1 (+2)	16 kDa	13.30%	13.30%	0	0	0	24.50%	0.00%	0.00%	24.50%	0
Symbols: Ribosomal protein S11 family protein chr2:15169925-15171159 FORWARD LENGTH=150	AT2G31610.1	16 kDa	16.00%	16.00%	8.67%	23.30%	8.67%	23.30%	0	0	0	0
Symbols: Ribosomal protein S11 family protein chr3:3623757-3624886 REVERSE LENGTH=150	AT3G11510.1	16 kDa	8.67%	16.00%	8.67%	16.00%	8.67%	16.00%	0	0	0	0
Symbols: Coatomer, beta' subunit chr3:5411699-5418133 REVERSE LENGTH=909	AT3G15980.1 (+3)	102 kDa	3.74%	1.10%	0	0.00%	0	5.28%	0	0	0	0
Symbols: structural molecules chr1:30084522-30091949 FORWARD LENGTH=1135	AT1G79990.1 (+2)	129 kDa	2.11%	0	0	0	0	1.76%	0	0	0	0
Symbols: XIX, ATXK, XI-17 Myosin family protein with Dil domain chr5:6927064-6936825 REVERSE LENGTH=1545	AT5G20490.1 (+1)	175 kDa	0.91%	2.20%	0	0	0	0	0	0	0	0
Symbols: MYA1, ATMYA1, XI-1 myosin 1 chr1:6039453-6049309 FORWARD LENGTH=1520	AT1G17580.1	173 kDa	1.38%	1.32%	0	0	0	0	0	0	0	0
Symbols: XIX, ATXK Myosin family protein with Dil domain chr1:2779963-2788325 FORWARD LENGTH=1538	AT1G08730.1	175 kDa	0	1.30%	0	0.00%	0	0	0	0	0	0
Symbols: HSP81-2, ERD8, HSP90.2, ATHSP90.2 heat shock protein 81-2 chr5:22686923-22689433 FORWARD LENGTH=699	AT5G56030.1 (+1)	80 kDa	5.72%	4.01%	0	2.00%	0	2.00%	2.00%	0	0	0
Symbols: PIP3, PIP3A, PIP2.7, SIMIP plasma membrane intrinsic protein 3 chr4:16708672-16709958 FORWARD LENGTH=280	AT4G35100.1 (+1)	30 kDa	17.10%	17.10%	6.79%	11.10%	6.79%	0	11.10%	0	3.60%	0
Symbols: RPS4 chloroplast ribosomal protein S4 chrC:45223-45828 REVERSE LENGTH=201	ATCG00380.1	23 kDa	3.98%	3.98%	0	0	0	0.00%	8.96%	0	0	0
Symbols: LOS2, ENO2 Enolase chr2:15321081-15323786 REVERSE LENGTH=444	AT2G36530.1	48 kDa	3.38%	3.38%	0	3.38%	0	7.88%	3.38%	0	0	0
Symbols: ATPase, VU/A0 complex, subunit C/D chr3:10778025-10780350 FORWARD LENGTH=351	AT3G28715.1	41 kDa	9.12%	5.70%	0	4.27%	0	4.27%	5.70%	0	0	0
Symbols: ATPase, VU/A0 complex, subunit C/D chr3:10773144-10775594 REVERSE LENGTH=351	AT3G28710.1	41 kDa	5.70%	5.70%	0	9.97%	0	9.97%	0	0	0	0
Symbols: cpHsc70-1 chloroplast heat shock protein 70-1 chr4:12590094-12593437 FORWARD LENGTH=718	AT4G24280.1	77 kDa	0	0	0	2.92%	0	8.77%	1.95%	0	0	0
Symbols: cpHsc70-2EAT SHOCK PROTEIN 70-2, HSC70-7, cpHsc70-2 chloroplast heat shock protein 70-2 chr5:20303470-20306295 FORWARD LENGTH=718	AT5G49910.1	77 kDa	0	0	0	5.15%	0	6.55%	1.95%	0	0	0
Symbols: LUH LEUNIG_homolog chr2:13867235-13871844 FORWARD LENGTH=787	AT2G32700.1 (+6)	86 kDa	0	0	0	1.52%	0	6.48%	0	0	0	0
Symbols: emb1138 DEAD box RNA helicase (RH3) chr5:9285540-9288871 REVERSE LENGTH=747	AT5G26742.1 (+1)	81 kDa	5.62%	6.02%	0	1.87%	0	0.00%	0	0	0	0

Symbols: Aldolase superfamily protein chr5:963389-964982 REVERSE LENGTH=359	AT5G03690.2	39 kDa	0	0	0	3.90%	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: Aldolase superfamily protein chr4:13391566-13392937 FORWARD LENGTH=358	AT4G26530.1 (+1)	38 kDa	0	0	0	0	0	0	0	3.91%	0	0	0	0	0	0	0	0	0
Symbols: CHL1, CH42, CH-42, CHL11, CHU-1 P-loop containing nucleoside triphosphate hydrolases superfamily protein chr1:10201897-10203361 REVERSE LENGTH=424	AT4G18480.1	46 kDa	8.49%	4.95%	0	0.00%	0	0	7.31%	0	0	0	0	0	0	0	0	0	0
Symbols: CHL2, CHL I2, CHLI-2 magnesium chelatase i2 chr5:18628095-18629565 FORWARD LENGTH=418	AT5G45930.1	46 kDa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: transducin family protein / WD-40 repeat family protein chr3:23431009-23437241 REVERSE LENGTH=1104	AT3G63460.1 (+2)	120 kDa	1.18%	1.18%	0	1.36%	0	2.54%	0	0	0	0	0	0	0	0	0	0	0
Symbols: vacuolar ATP synthase subunit H family protein chr3:14228846-14232228 REVERSE LENGTH=441	AT3G42050.1	50 kDa	6.35%	2.95%	0	4.08%	0	2.95%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPL18 ribosomal protein L18 chr3:1621511-1622775 FORWARD LENGTH=187	AT3G05590.1 (+1)	21 kDa	12.80%	5.88%	6.95%	5.88%	0	13.40%	5.88%	5.88%	0	0	0	0	0	0	0	0	0
Symbols: RPT5A, AT56A.2 regulatory particle triple-A ATPase 5A chr3:1603540-1605993 FORWARD LENGTH=424	AT3G05530.1	47 kDa	13.70%	7.55%	0	0	0	4.27%	7.55%	7.55%	0	0	0	0	0	0	0	0	0.00%
Symbols: AGT, AGT1, SGAT alanine:glyoxylate aminotransferase chr2:5539417-5540902 REVERSE LENGTH=401	AT2G13360.1 (+1)	44 kDa	3.99%	3.99%	4.24%	0	4.24%	6.98%	0	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L22p/L17e family protein chr1:9515230-9516725 FORWARD LENGTH=176	AT1G27400.1 (+1)	20 kDa	0	5.11%	10.80%	0.00%	5.68%	15.90%	0	0	0	0	0	0	0	0	0	0	0
Symbols: VHA-A vacuolar ATP synthase subunit A chr1:29660463-29664575 FORWARD LENGTH=623	AT1G78900.1 (+1)	69 kDa	1.77%	0.00%	0	0	0	4.33%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPT1A regulatory particle triple-A 1A chr1:20065921-20068324 REVERSE LENGTH=426	AT1G53750.1	48 kDa	5.63%	2.11%	0	3.05%	0	3.05%	0	0.00%	0	0	0	0	0	0	0	0	0
Symbols: ATJ2, J2 DNAJ homologue 2 chr5:7303798-7305668 REVERSE LENGTH=419	AT5G2060.1	46 kDa	6.21%	6.21%	0	0	0	2.86%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATJ3, ATJ DNAJ homologue 3 chr3:15869115-15871059 REVERSE LENGTH=420	AT3G44110.1 (+1)	46 kDa	6.19%	6.19%	0	0	0	5.95%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPS1, ARRP51 ribosomal protein S1 chr5:11619262-11621223 REVERSE LENGTH=416	AT5G30510.1	45 kDa	3.61%	0	0	8.17%	0	10.60%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ACCD acetyl-CoA carboxylase carboxyl transferase subunit beta chrC:57075-58541 FORWARD LENGTH=488	ATCG00500.1	56 kDa	6.56%	2.87%	0	0	0	2.66%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPS8 ribosomal protein S8 chrC:80068-80472 REVERSE LENGTH=134	ATCG00770.1	15 kDa	8.96%	17.20%	0	8.96%	0	8.96%	8.21%	8.21%	0	0	0	0	0	0	0	0	0
Symbols: SSR16 small subunit ribosomal protein 16 chr4:16535084-16536092 REVERSE LENGTH=113	AT4G34620.1	13 kDa	13.30%	13.30%	0	13.30%	0	13.30%	13.30%	13.30%	25.70%	0	0	0	0	0	0	0	0
Symbols: Sucrose-6P-phosphate phosphohydrolase family protein chr2:15053952-15055776 FORWARD LENGTH=422	AT2G35840.1 (+2)	48 kDa	4.50%	0	0	0	0	6.16%	0	0	0	0	0	0	0	0	0	0	0
Symbols: GTP binding Elongation factor Tu family protein chr4:1295751-1298354 REVERSE LENGTH=454	AT4G02930.1	49 kDa	8.15%	0	0	3.52%	0	8.37%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ECT2 evolutionarily conserved C-terminal region 2 chr3:4385274-4388220 REVERSE LENGTH=667	AT3G13460.1 (+3)	72 kDa	7.50%	5.55%	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: Glycine cleavage T-protein family chr1:4001801-4003245 FORWARD LENGTH=408	AT1G11860.1 (+2)	44 kDa	5.64%	5.64%	0	5.64%	0	5.64%	9.56%	0	0	0	0	0	0	0	0	0	0
Symbols: NOP56 homolog of nucleolar protein NOP56 chr1:20798454-20986893 REVERSE LENGTH=522	AT1G56110.1	59 kDa	2.87%	0.00%	0	0	0	5.94%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPS15A ribosomal protein S15A chr1:2408413-2409065 REVERSE LENGTH=130	AT1G07770.1 (+2)	15 kDa	6.92%	6.92%	10.80%	0	10.80%	23.10%	0	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein S8 family protein chr2:16517588-16518265 REVERSE LENGTH=136	AT2G35790.1	15 kDa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPN1A, ATRPN1A 26S proteasome regulatory subunit S2 1A chr2:2885211-48864699 FORWARD LENGTH=891	AT2G20580.1	7	0.00%	0.00%	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PAC1 20S proteasome alpha subunit C1 chr3:7792819-7793571 REVERSE LENGTH=250	AT3G21110.1	27 kDa	0	11.20%	0	0	0	4.80%	6.40%	6.40%	0	0	0	0	0	0	0	0	0
Symbols: ATBBC1, BBC1, RSU2 breast basic conserved 1 chr3:18166971-18168047 REVERSE LENGTH=206	AT3G49010.1 (+3)	24 kDa	0	0.00%	0	11.70%	0	17.00%	11.70%	0.00%	0	0	0	0	0	0	0	0	0
Symbols: Tetraatricopeptide repeat (TPR)-like superfamily protein chr3:22535729-22536940 FORWARD LENGTH=403	AT3G60960.1	46 kDa	0	0	0	0	0	2.23%	4.71%	0	0	0	0	0	0	0	0	0	0
Symbols: CPN60A, CH-CPN60A, SLP chaperonin-60alpha chr2:11926603-11929184 FORWARD LENGTH=586	AT2G28000.1	62 kDa	4.44%	2.22%	0	0.00%	0	0.00%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATTIP49A, RIN1 P-loop containing nucleoside triphosphate hydrolases superfamily protein chr5:7391026-7394071 REVERSE LENGTH=458	AT5G22320.1	50 kDa	0.00%	5.02%	0	5.24%	0	2.40%	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPL16 ribosomal protein L16 chrC:81189-82652 REVERSE LENGTH=135	ATCG00790.1	15 kDa	10.40%	0.00%	0	10.40%	0	20.70%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PUB12, AtPUB12 PLANT U-BOX 12 chr2:12367001-12370608 REVERSE LENGTH=962	AT2G28830.1	107 kDa	1.46%	0.00%	0	1.46%	0	1.46%	0	0	0	0	0	0	0	0	0	0	0
Symbols: NAD(P)-binding Rossmann-fold superfamily protein chr3:11193767-11194948 REVERSE LENGTH=298	AT3G29250.1	32 kDa	0	0	0	4.03%	0	18.10%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ILA LUTYHIA chr1:24065232-24081908 REVERSE LENGTH=2610	AT1G64790.1 (+1)	285 kDa	2.07%	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: APUM5, PUM5 pumilio 5 chr3:7059098-7062660 REVERSE LENGTH=961	AT3G20250.1	107 kDa	3.75%	1.04%	0	1.04%	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATPP57, TP57, ATPP5A trehalose-phosphatase/synthase 7 chr1:1955413-1958153 FORWARD LENGTH=851	AT1G06410.1	97 kDa	1.29%	0	0	0	0	3.41%	0	0	0	0	0	0	0	0	0	0	0
Symbols: transcription regulators chr1:373335-386682 FORWARD LENGTH=2431	AT1G02080.1 (+1)	270 kDa	1.93%	0.74%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATGSTF9, GLUTTR, ATGSTF7, GSTF9 glutathione S-transferase PHI 9 chr2:13139132-13140057 FORWARD LENGTH=215	AT2G30860.1 (+1)	24 kDa	0	16.70%	0	3.72%	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L35Ae family protein chr1:27928415-27929466 REVERSE LENGTH=112	AT1G74270.1	13 kDa	22.30%	0	0	33.00%	0	22.30%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATU2AF35B, U2AF35B Zinc finger C-x8-C-x5-C-x3-H type family protein chr5:17170445-17171296 REVERSE LENGTH=283	AT5G42820.1 (+1)	33 kDa	8.13%	0	0	6.36%	0	6.36%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ATU2AF35A U2 snRNP auxiliary factor small subunit, putative chr1:9615302-9616042 FORWARD LENGTH=246	AT1G27650.2	29 kDa	0	0	0	7.32%	0	7.32%	0	0	0	0	0	0	0	0	0	0	0
Symbols: Zinc finger C-x8-C-x5-C-x3-H type family protein chr3:13282221-16328448 REVERSE LENGTH=75	AT3G44785.1	9 kDa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: PIL6, PIF5 phytochrome interacting factor 3-like 6 chr3:21828189-21829895 REVERSE LENGTH=442	AT3G59060.1 (+3)	49 kDa	0	0.00%	2.71%	0	0	9.95%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PIF4, SRL2, AtPIF4 phytochrome interacting factor 4 chr2:17887003-17888823 FORWARD LENGTH=340	AT2G43010.1 (+1)	48 kDa	0	0	2.79%	0	0	0.00%	2.79%	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L31e family protein chr2:8513577-8514346 FORWARD LENGTH=119	AT2G19740.1 (+2)	14 kDa	0	0	0	31.90%	0	31.90%	0	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L31e family protein chr5:22944003-22944767 REVERSE LENGTH=85	AT5G56710.2	10 kDa	0	0	0	9.41%	0	9.41%	0	0	0	0	0	0	0	0	0	0	0
Symbols: Coatomer epsilon subunit chr1:10858546-10860173 REVERSE LENGTH=292	AT1G30630.1	33 kDa	0	0	0	14.70%	0	14.70%	0	0	0	0	0	0	0	0	0	0	0
Symbols: SHM4 serine hydroxymethyltransferase 4 chr4:8048013-8050021 REVERSE LENGTH=471	AT4G13930.1	52 kDa	6.37%	3.40%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: RPL22 ribosomal protein L22 chrC:83467-83949 REVERSE LENGTH=160	ATCG0810.1	19 kDa	0	0	0	8.12%	0	14.40%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PBE1 20S proteasome beta subunit E1 chr1:4452641-4454663 FORWARD LENGTH=274	AT1G13060.1 (+2)	30 kDa	0	14.20%	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0
Symbols: PSB8 photosystem II reaction center protein B chrC:72371-73897 FORWARD LENGTH=508	ATCG0680.1	56 kDa	3.35%	2.17%	0	0	0	5.51%	0	0	0	0	0	0	0	0	0	0	0
Symbols: NRPB1, RPB1, RNA_POL_II_LSRNA_POL_II_LS, RNA_POL_II_LS RNA polymerase II large subunit chr4:16961115-16967892 REVERSE LENGTH=1839	AT4G35800.1	205 kDa	1.96%	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0	0	0
Symbols: EMB2761 threonyl-tRNA synthetase, putative / threonine--tRNA ligase, putative chr2:1698466-1701271 REVERSE LENGTH=650	AT2G04842.1	75 kDa	0	0	0	0.00%	0	4.00%	0	0	0	0	0	0	0	0	0	0	0
Symbols: ELF4-L4 ELF4-like 4 chr1:5997932-5998276 FORWARD LENGTH=114	AT1G17455.1 (+1)	13 kDa	0	0	0	0	0	22.80%	22.80%	11.40%	0.00%	0	0	0	0	0	0	0	0
Symbols: AAA-type ATPase family protein chr1:17009220-17011607 FORWARD LENGTH=399	AT1G45000.1 (+2)	45 kDa	6.02%	6.02%	0	0	0	6.02%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PHOT1, NPH1, JK224, RPT1 phototropin 1 chr3:16818557-16823960 FORWARD LENGTH=996	AT3G45780.1 (+1)	112 kDa	2.51%	0	0	0	0	2.11%	0	0	0	0	0	0	0	0	0	0	0
Symbols: PHOT2, NPL1 phototropin 2 chr5:23524771-23529993 FORWARD LENGTH=915	AT5G58140.1 (+3)	102 kDa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: ZFN1 zinc finger protein 1 chr3:614075-615916 FORWARD LENGTH=397	AT3G02830.1	44 kDa	8.06%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L35Ae family protein chr1:15651585-15652427 REVERSE LENGTH=111	AT1G41880.1	13 kDa	0	0	0	33.30%	0	22.50%	0	0	0	0	0	0	0	0	0	0	0
Symbols: SPA3 SPA1-related 3 chr3:5169327-5172480 REVERSE LENGTH=837	AT3G15354.1	93 kDa	2.03%	3.70%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: PRP39 Tetraatricopeptide repeat (TPR)-like superfamily protein chr1:1051803-1056550 FORWARD LENGTH=768	AT1G04080.1 (+1)	85 kDa	4.95%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symbols: ABA1, LOS6, NPQ2, ATABA1, ZEP, IBS3, ATZEP zeaxanthin epoxidase (ZEP) (ABA1) chr5:26753745-26757090 REVERSE LENGTH=667	AT5G67030.1 (+1)	74 kDa	4.65%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Exclusive Unique Peptide Count

Identified Proteins (283)

	Accession Number	Molecular Weight	ATELF3-1	ATELF3-2	SvELF3#2 rep1	SvELF3#2 rep2	SvELF3#3 rep1	SvELF3#3 rep2	BdELF3#2 rep1	BdELF3#2 rep2	BdELF3#3 rep1	BdELF3#3 rep2
Symbols: PHYB, HY3, OOP1												

Symbols: CA1 carbonic anhydrase 1 chr3:194853-197873 REVERSE LENGTH=347	AT3G01500.2 (+1)	37 kDa	1	1	0	1	0	1	2	1	0	0
Symbols: CA2, CA18, BETA CA2 carbonic anhydrase 2 chr5:4758257-4762382 FORWARD LENGTH=331	AT5G14740.1 (+1)	37 kDa	0	0	0	0	0	0	2	0	0	0
Symbols: ATAN11, LWD1 Transducin/WD40 repeat-like superfamily protein chr1:4395114-4396154 REVERSE LENGTH=346	AT1G12910.1	39 kDa	2	2	2	4	1	2	2	2	0	0
Symbols: MLK4 Protein kinase family protein chr3:4469434-4472334 FORWARD LENGTH=703	AT3G13670.1	79 kDa	3	3	0	0	1	6	3	3	5	
Symbols: RPS6, RPS6A ribosomal protein 56 chr4:15346306-15347714 REVERSE LENGTH=250	AT4G1700.1	28 kDa	2	4	0	1	0	4	4	2	1	
Symbols: Ribosomal protein L30/L7 family protein chr2:132943-134264 REVERSE LENGTH=242	AT2G01250.1	28 kDa	3	2	0	0	0	1	1	1	1	
Symbols: Ribosomal protein L30/L7 family protein chr2:18249227-18250417 REVERSE LENGTH=247	AT2G44120.2	29 kDa	1	1	0	1	0	1	1	0	0	
Symbols: Ribosomal protein L30/L7 family protein chr3:4433809-4435109 FORWARD LENGTH=244	AT3G13580.1 (+2)	28 kDa	1	1	0	0	0	0	1	0	0	
Symbols: Coatomer, alpha subunit chr2:9152428-9156577 FORWARD LENGTH=1218	AT2G21390.1	136 kDa	2	0	0	2	0	5	0	0	0	
Symbols: Coatomer, alpha subunit chr1:22919814-22923728 FORWARD LENGTH=1216	AT1G62020.1	137 kDa	2	1	0	0	0	0	1	0	0	
Symbols: CAB3, AB180, LHCB1.2 chlorophyll A/B binding protein 3 chr1:10472443-10473246 REVERSE LENGTH=267	AT1G29910.1 (+1)	28 kDa	0	0	0	0	0	0	0	0	0	
Symbols: LHCB2.2, LHCB2 photosystem II light harvesting complex gene 2.2 chr2:1799436-1800329 REVERSE LENGTH=265	AT2G05070.1 (+2)	29 kDa	0	0	1	0	0	0	0	0	0	
Symbols: CAB1, AB140, CAB140, LHCB1.3 chlorophyll A/B binding protein 1 chr1:10478071-10478874 FORWARD LENGTH=267	AT1G29930.1	28 kDa	0	0	0	0	0	0	0	0	0	
Symbols: HSP60-2 heat shock protein 60-2 chr2:14075093-14078568 REVERSE LENGTH=585	AT2G33210.1 (+1)	62 kDa	1	1	1	1	1	1	0	1	0	
Symbols: HSP60, HSP60-3B heat shock protein 60 chr3:8669013-8672278 FORWARD LENGTH=577	AT3G23990.1	61 kDa	1	1	0	1	0	2	1	1	0	
Symbols: Ribosomal protein S3Ae chr3:1329751-1331418 FORWARD LENGTH=262	AT3G04840.1	30 kDa	1	1	0	0	0	1	1	1	0	
Symbols: Ribosomal protein S3Ae chr4:16548724-16550222 FORWARD LENGTH=262	AT4G34670.1	30 kDa	1	1	0	1	0	1	1	0	0	
Symbols: UBP12 ubiquitin-specific protease 12 chr5:2019545-2027834 REVERSE LENGTH=1116	AT5G06600.1 (+1)	131 kDa	0	0	0	1	0	1	0	1	0	
Symbols: UBP13 ubiquitin-specific protease 13 chr3:3761758-3770290 REVERSE LENGTH=1115	AT3G11910.1 (+1)	131 kDa	0	0	0	1	1	0	0	0	0	
Symbols: NIT1, ATNIT1, NIT1 nitrilase 1 chr3:15986901-15988841 FORWARD LENGTH=346	AT3G44310.1 (+1)	38 kDa	2	1	0	4	1	4	1	1	1	
Symbols: ARP1, emb2207, RPL3A, RP1 ribosomal protein 1 chr1:16266992-16268631 FORWARD LENGTH=389	AT1G43170.1 (+7)	45 kDa	2	1	0	2	1	1	1	1	0	
Symbols: RD21, RD21A Granulin repeat cysteine protease family protein chr1:17283139-17285609 REVERSE LENGTH=462	AT1G47128.1	51 kDa	4	3	0	2	0	2	0	2	0	
Symbols: ATPB, PB ATP synthase subunit beta chrC:52660-54156 REVERSE LENGTH=498	ATCG00480.1	54 kDa	4	5	0	2	0	2	2	2	1	
Symbols: PPK10, PPK11, BGLU23, LEB Glycosyl hydrolase superfamily protein chr3:2840657-2843730 REVERSE LENGTH=524	AT3G09260.1	?	1	1	1	3	0	3	1	1	0	
Symbols: KAS1, KAS1 3-ketoacyl-acyl carrier protein synthase 1 chr5:18774439-18776629 REVERSE LENGTH=473	AT5G46290.1	50 kDa	4	3	0	1	2	3	2	2	0	
Symbols: RPL2.1 ribosomal protein L2 chrC:84337-85843 REVERSE LENGTH=274	ATCG00830.1 (+1)	30 kDa	3	2	0	2	0	3	3	1	1	
Symbols: ASN2 asparagine synthetase 2 chr5:25969224-25972278 FORWARD LENGTH=578	AT5G65010.1 (+1)	65 kDa	2	1	0	1	0	3	1	1	0	
Symbols: ASN1, DIN6, AT-ASN1 glutamine dependent asparagine synthase 1 chr3:17438445-17441043 REVERSE LENGTH=512	AT3G47340.2	58 kDa	0	0	0	0	0	0	0	0	0	
Symbols: ASN3 asparagine synthetase 3 chr5:3212934-3216418 REVERSE LENGTH=578	AT5G10240.1 (+1)	65 kDa	0	0	0	0	0	0	0	0	0	
Symbols: PIP2A, PIP2, PIP2.1 plasma membrane intrinsic protein 2A chr3:19803906-19805454 REVERSE LENGTH=287	AT3G53420.1 (+1)	30 kDa	4	4	0	1	0	2	1	2	1	
Symbols: Ribosomal protein S10p/S20e family protein chr3:16471606-16472312 REVERSE LENGTH=124	AT3G45030.1 (+2)	14 kDa	1	0	0	0	0	1	0	0	0	
Symbols: Ribosomal protein S10p/S20e family protein chr3:17453671-17454437 REVERSE LENGTH=122	AT3G47370.1 (+2)	14 kDa	0	0	0	0	0	0	0	0	0	
Symbols: Coatomer, beta subunit chr4:15269460-15272693 FORWARD LENGTH=948	AT4G31490.1	106 kDa	0	0	0	0	0	0	0	0	0	
Symbols: Coatomer, beta subunit chr4:15264145-15267384 FORWARD LENGTH=948	AT4G31480.1 (+1)	106 kDa	0	0	0	0	0	0	0	0	0	
Symbols: MLK3 Protein kinase family protein chr2:10985118-10988652 REVERSE LENGTH=673	AT2G25760.1	76 kDa	1	1	0	1	1	3	2	2	2	
Symbols: RPT3 regulatory particle triple-A ATPase 3 chr5:23569155-23571116 FORWARD LENGTH=408	AT5G58290.1	46 kDa	2	2	1	1	1	2	0	0	0	
Symbols: CPN60B, LEN1 chaperonin 60 beta chr1:20715717-20718673 REVERSE LENGTH=600	AT1G55490.1 (+1)	64 kDa	1	2	0	0	1	1	1	0	0	
Symbols: TCP-1/cpn60 chaperonin family protein chr5:22874058-22876966 FORWARD LENGTH=597	AT5G56500.1 (+1)	63 kDa	0	0	0	0	0	0	0	0	0	
Symbols: ATARCA, RACK1A_AT, RACK1A Transducin/WD40 repeat-like superfamily protein chr1:6222325-6223901 FORWARD LENGTH=327	AT1G18080.1	36 kDa	0	1	0	2	0	2	1	0	0	
Symbols: RACK1B_AT receptor for activated C kinase 1B chr1:17981977-17983268 REVERSE LENGTH=326	AT1G48630.1	36 kDa	1	0	0	0	0	0	1	0	0	
Symbols: RACK1C_AT receptor for activated C kinase 1C chr3:6211109-6212371 REVERSE LENGTH=326	AT3G18130.1	36 kDa	0	0	0	0	0	0	0	0	0	
Symbols: AHA2, PMA2, HA2 H(+)-ATPase 2 chr4:14770820-14775920 REVERSE LENGTH=948	AT4G0190.1 (+1)	104 kDa	0	1	0	0	0	0	0	0	0	
Symbols: AHA1, PMA, OST2, HA1 H(+)-ATPase 1 chr2:8221858-8227268 FORWARD LENGTH=949	AT2G18960.1	104 kDa	0	0	0	0	0	0	0	0	0	
Symbols: AHA7, HA7 H(+)-ATPase 7 chr3:22298763-22303509 FORWARD LENGTH=961	AT3G60330.1 (+1)	106 kDa	0	0	0	0	0	0	0	0	0	
Symbols: AHA4, HA4 H(+)-ATPase 4 chr3:17693015-17697801 FORWARD LENGTH=960	AT3G47950.1	106 kDa	0	0	0	0	0	0	0	0	0	
Symbols: AHA3, ATAH3, HA3 H(+)-ATPase 3 chr5:23231208-23236381 REVERSE LENGTH=949	AT5G57350.1 (+1)	104 kDa	0	0	0	0	0	0	0	0	0	
Symbols: AHA10 autoinhibited H(+)-ATPase isoform 10 chr1:5904058-5908898 FORWARD LENGTH=947	AT1G17260.1	105 kDa	0	0	0	0	0	0	0	0	0	
Symbols: ATPase, F1 complex, alpha subunit protein chr2:3361474-3364028 FORWARD LENGTH=777	AT2G07698.1	86 kDa	2	2	1	3	1	4	1	0	0	
Symbols: LWD2 Transducin/WD40 repeat-like superfamily protein chr3:9793276-9794316 FORWARD LENGTH=346	AT3G26640.1	39 kDa	2	1	0	1	0	2	1	0	0	
Symbols: ATPase, V1 complex, subunit B protein chr1:7016971-7020290 FORWARD LENGTH=487	AT1G20260.1 (+2)	54 kDa	1	3	0	2	0	3	2	2	0	
Symbols: ATGSTF8, ATGSTF5, GST6, GSTF8 glutathione S-transferase phi 8 chr2:19558213-19559266 FORWARD LENGTH=263	AT2G47730.1	29 kDa	3	2	0	0	0	4	0	0	0	
Symbols: ATPC1 ATPase, F1 complex, gamma subunit protein chr4:2350761-2351882 REVERSE LENGTH=373	AT4G04640.1	41 kDa	1	5	0	2	1	2	1	2	1	
Symbols: FBA2 fructose-bisphosphate aldolase 2 chr4:18163714-18165659 REVERSE LENGTH=398	AT4G38970.1	43 kDa	2	2	0	3	1	3	2	1	0	
Symbols: RPL16A ribosomal protein large subunit 16A chr2:17791794-17792946 FORWARD LENGTH=182	AT2G42740.1 (+4)	21 kDa	1	2	2	1	1	2	1	2	1	
Symbols: Transketolase chr3:22454004-22456824 FORWARD LENGTH=741	AT3G60750.1 (+1)	80 kDa	3	2	0	0	0	7	1	0	0	
Symbols: binding chr5:19317899-19327014 FORWARD LENGTH=1606	AT5G47690.2 (+1)	181 kDa	6	0	0	2	0	6	0	0	0	
Symbols: SAC52, RPL10, RPL10A Ribosomal protein L16p/L10e family protein chr1:4888270-4889408 FORWARD LENGTH=220	AT1G14320.1	25 kDa	1	2	1	1	0	1	2	2	1	
Symbols: CAC3 acetyl Co-enzyme a carboxylase carboxyltransferase alpha subunit chr2:15917612-15920749 FORWARD LENGTH=769	AT2G38040.1 (+1)	85 kDa	0	3	1	0	0	4	0	0	0	
Symbols: RAN-1, RAN1, ATRAN1 RAS-related nuclear protein-1 chr5:6760364-6761747 FORWARD LENGTH=221	AT5G20010.1 (+2)	25 kDa	2	3	0	2	0	5	1	0	0	
Symbols: Ribosomal protein S4 chr5:4935124-4936334 REVERSE LENGTH=198	AT5G15200.1	23 kDa	2	2	1	2	1	2	1	0	0	
Symbols: Ribosomal protein S26e family protein chr2:16918506-16919623 FORWARD LENGTH=133	AT2G40510.1 (+2)	15 kDa	2	2	0	2	0	2	2	2	1	
Symbols: EMB2296 Ribosomal protein L2 family chr2:7837151-7838160 FORWARD LENGTH=258	AT2G18020.1	28 kDa	1	1	1	0	0	1	1	1	0	
Symbols: Ribosomal protein L2 family chr4:17097613-17098656 FORWARD LENGTH=258	AT4G36130.1	28 kDa	1	1	0	0	0	0	1	0	0	
Symbols: Histone superfamily protein chr1:2369212-2369523 FORWARD LENGTH=103	AT1G07660.1 (+8)	11 kDa	1	1	1	3	1	3	1	1	1	
Symbols: oxidoreductases, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor; copper ion binding chr2:8613168-8615649 FORWARD LENGTH=401	AT2G19940.1 (+1)	44 kDa	5	1	0	0	0	3	1	0	0	
Symbols: ATPR55B, RPS5B ribosomal protein 5B chr2:15647883-15649042 REVERSE LENGTH=207	AT2G37270.1 (+3)	23 kDa	0	0	0	0	0	2	2	2	1	
Symbols: Thioredoxin superfamily protein chr3:3672189-3673937 FORWARD LENGTH=266	AT3G11630.1	29 kDa	0	1	0	0	0	2	1	2	0	
Symbols: PIP1B, TMP-A, ATHH2, PIP1.2 plasma membrane intrinsic protein 1B chr2:18910450-18911703 FORWARD LENGTH=286	AT2G45960.1 (+2)	31 kDa	1	1	0	2	1	2	1	2	0	
Symbols: RPL27A, RPL27AB Ribosomal protein L18e/L15 superfamily protein chr1:8263007-8263447 FORWARD LENGTH=146	AT1G23290.1 (+1)	16 kDa	1	1	0	1	0	1	2	1	1	
Symbols: Ribosomal protein L18ae/LX family protein chr2:14532916-14534161 REVERSE LENGTH=178	AT2G34480.1	21 kDa	1	0	0	0	0	0	0	0	0	
Symbols: Ribosomal protein L18ae/LX family protein chr3:4910773-4911933 FORWARD LENGTH=178	AT3G14600.1	21 kDa	0	0	0	0	0	0	0	0	0	
Symbols: EMB2719, HAP15 PAM domain (PCI/PINT associated module) protein chr1:7001409-7004154 REVERSE LENGTH=488	AT1G20200.1	56 kDa	0	1	0	0	0	0	0	0	0	
Symbols: PAM domain (PCI/PINT associated module) protein chr1:28524623-28526718 REVERSE LENGTH=487	AT1G75980.1	56 kDa	0	0	0	0	0	0	0	0	0	
Symbols: APS1 ATP sulfurylase 1 chr3:8112837-8114734 FORWARD LENGTH=463	AT3G22800.1	51 kDa	2	0	0	2	0	2	0	0	0	
Symbols: APS2, ASA1 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr1:6914835-6916657 REVERSE LENGTH=476	AT1G19920.1	54 kDa	0	0	0	0	0	0	0	0	0	
Symbols: APS3 Pseudouridine synthase/archaeosine transglycosylase-like family protein chr4:8413443-8415311 REVERSE LENGTH=465	AT4G14680.1	52 kDa	0	0	0	0	0	0	0	0	0	
Symbols: Tetratricopeptide repeat (TPR)-like superfamily protein chr3:22565440-22566678 REVERSE LENGTH=412	AT3G60980.1	47 kDa	0	0	0	0	0	5	5	0	0	
Symbols: SPA2 SPA1-related 2 chr4:6772163-6776675 FORWARD LENGTH=1036	AT4G11110.1	115 kDa	5	6	0	0	0	0	0	0	0	
Symbols: PORB protochlorophyllide oxidoreductase B chr4:13725648-13727107 FORWARD LENGTH=401	AT4G27440.1 (+1)	43 kDa	3	2	0	1	0	1	1	0	0	
Symbols: ATPF ATP synthase epsilon chain chrC:52265-52663 REVERSE LENGTH=132	ATCG00470.1	14 kDa	2	2	0	1	0	1	1	2	0	
Symbols: RPL14 ribosomal protein L14 chrC:80696-81064 REVERSE LENGTH=122	ATCG00780.1	14 kDa	2	2	0	1	0	2	1	2	0	
Symbols: C2 calcium/lipid-binding plant phosphoribosyltransferase family protein chr5:2127200-2129584 REVERSE LENGTH=794	AT5G06850.1	91										

Symbols: STV1, RPL24B, RPL24 Ribosomal protein L24e family protein chr3:19660749-19661912 REVERSE LENGTH=163	AT3G53020.1	19 kDa	2	2	0	1	0	1	2	2	0	0
Symbols: glycine-rich protein chr4:11944050-11945565 REVERSE LENGTH=356	AT4G2740.1 (+1)	39 kDa	2	2	0	0	0	2	1	0	0	0
Symbols: Ribosomal L28e protein family chr2:8511752-8512995 FORWARD LENGTH=143	AT2G19730.1 (+2)	16 kDa	1	1	0	0	0	0	0	2	0	0
Symbols: Ribosomal protein S11 family protein chr2:15169925-15171159 FORWARD LENGTH=150	AT2G36160.1	16 kDa	1	1	0	1	0	0	0	0	0	0
Symbols: Ribosomal protein S11 family protein chr3:3623757-3624866 REVERSE LENGTH=150	AT3G11510.1	16 kDa	0	1	0	0	0	0	0	0	0	0
Symbols: Coatomer, beta' subunit chr3:5411699-5418133 REVERSE LENGTH=909	AT3G15980.1 (+3)	102 kDa	1	1	0	0	0	0	0	0	0	0
Symbols: structural molecules chr1:30084522-30091949 FORWARD LENGTH=1135	AT1G79990.1 (+2)	129 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: XIX, ATXK, XI-17 Myosin family protein with Dil domain chr5:6927064-6936825 REVERSE LENGTH=1545	AT5G20490.1 (+1)	175 kDa	1	1	0	0	0	0	0	0	0	0
Symbols: MYA1, ATMVA1, XI-1 myosin I chr1:6039453-6049309 FORWARD LENGTH=1520	AT1G17580.1	173 kDa	1	0	0	0	0	0	0	0	0	0
Symbols: XIX, ATXK Myosin family protein with Dil domain chr1:2779963-2788325 FORWARD LENGTH=1538	AT1G08730.1	175 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: HSP81-2, ERD8, HSP90-2, ATHsp90.2 heat shock protein 81-2 chr5:22686923-22689433 FORWARD LENGTH=699	AT5G56030.1 (+1)	80 kDa	1	3	2	0	1	0	1	0	0	0
Symbols: PIP3, PIP3A, PIP2-7, SIMIP plasma membrane intrinsic protein 3 chr4:16708672-16709958 FORWARD LENGTH=280	AT4G35100.1 (+1)	30 kDa	2	2	1	1	1	1	0	1	0	0
Symbols: RPS4 chloroplast ribosomal protein S4 chrC:45223-45828 REVERSE LENGTH=201	ATCG0380.1	23 kDa	1	2	0	0	0	0	2	2	0	0
Symbols: LOS2, ENO2 Enolase chr2:15321081-15323786 REVERSE LENGTH=444	AT2G36530.1	48 kDa	1	1	1	0	1	0	2	1	0	1
Symbols: ATPase, V0/A0 complex, subunit C/D chr3:10778025-10780350 FORWARD LENGTH=351	AT3G28715.1	41 kDa	2	1	0	0	0	0	1	0	0	0
Symbols: ATPase, V0/A0 complex, subunit C/D chr3:10773144-10775594 REVERSE LENGTH=351	AT3G28710.1	41 kDa	1	1	0	1	0	0	1	0	0	0
Symbols: cpHsc70-1 chloroplast heat shock protein 70-1 chr4:12590094-12593437 FORWARD LENGTH=718	AT4G24280.1	77 kDa	0	0	0	0	0	1	0	0	0	0
Symbols: CPHSC70-2EAT SHOCK PROTEIN 70-2, HSC70-7, cpHsc70-2 chloroplast heat shock protein 70-2 chr5:20303470-20306295 FORWARD LENGTH=718	AT5G49910.1	77 kDa	0	0	0	0	1	0	0	0	0	0
Symbols: LUH LEUNIG_homolog chr2:13867235-13871844 FORWARD LENGTH=787	AT2G2700.1 (+6)	86 kDa	0	0	0	0	0	3	0	0	0	0
Symbols: emb1138 DEAD box RNA helicase (RH3) chr5:9285540-9288871 REVERSE LENGTH=747	AT5G26742.1 (+1)	81 kDa	0	3	2	0	1	0	0	0	0	0
Symbols: RPS11 ribosomal protein S11 chrC:78960-79376 REVERSE LENGTH=138	ATCG00750.1	15 kDa	2	2	0	0	0	1	2	2	0	0
Symbols: Ribosomal protein S4 (RPS4A) family protein chr2:7546598-7548138 FORWARD LENGTH=261	AT2G17360.1 (+3)	30 kDa	2	0	1	1	1	1	1	0	0	0
Symbols: PFL, RPS18A, PFL1 Ribosomal protein S13/S18 family chr1:8067990-8069163 FORWARD LENGTH=152	AT1G2780.1 (+2)	18 kDa	0	0	1	1	2	0	0	1	1	0
Symbols: P40, AP40, RP40, RPSA 40s ribosomal protein SA chr1:27243148-27244842 REVERSE LENGTH=298	AT1G72370.1 (+1)	32 kDa	1	2	0	1	0	0	1	0	0	0
Symbols: RPS4B 40s ribosomal protein SA B chr1:1209544-1310846 REVERSE LENGTH=280	AT3G04770.2	31 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: CLPC, ATHSP93.V, HSP93.V, DCA1, CLPC1 CLPC homologue 1 chr5:20715710-20719800 REVERSE LENGTH=929	AT5G50920.1	?	1	0	0	0	0	0	0	0	0	0
Symbols: ATCLPC, ATHSP93.III, HSP93.III Clp ATPase chr3:18122363-18126008 REVERSE LENGTH=952	AT3G48870.1 (+1)	106 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: SPA4 SPA1-related 4 chr1:19783748-19786690 FORWARD LENGTH=794	AT1G53090.1 (+1)	89 kDa	2	5	0	0	0	0	0	0	0	0
Symbols: AAA-type ATPase family protein chr2:8692736-8694837 FORWARD LENGTH=443	AT2G20140.1 (+1)	49 kDa	5	3	0	0	0	0	1	0	0	0
Symbols: RPT6A, ATSLG1 regulatory particle triple-A ATPase 6A chr5:6752144-6754918 FORWARD LENGTH=419	AT5G19990.1 (+1)	47 kDa	0	0	0	1	0	0	2	0	0	0
Symbols: Lactate/malate dehydrogenase family protein chr1:1189418-1191267 REVERSE LENGTH=332	AT1G04410.1	36 kDa	0	2	0	0	0	1	0	0	0	0
Symbols: Aldolase superfamily protein chr3:19627383-19628874 REVERSE LENGTH=358	AT3G52930.1	39 kDa	0	1	0	0	0	0	0	1	0	0
Symbols: Aldolase superfamily protein chr5:963389-964982 REVERSE LENGTH=359	AT5G03690.2	39 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Aldolase superfamily protein chr4:13391566-13392937 FORWARD LENGTH=358	AT4G26530.1 (+1)	38 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: CHL11, CH12, CH-42, CHL11, CHL1-1 P-loop containing nucleoside triphosphate hydrolases superfamily protein chr4:10201897-10203361 REVERSE LENGTH=424	AT4G18480.1	46 kDa	1	0	0	0	0	1	0	0	0	0
Symbols: CHL2, CHL12, CHL1-2 magnesium chelatase 12 chr5:18628095-18629565 FORWARD LENGTH=418	AT5G45930.1	46 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: transducin family protein / WD-40 repeat family protein chr3:23431009-23437241 REVERSE LENGTH=1104	AT3G63460.1 (+2)	120 kDa	1	1	0	0	1	0	2	0	0	0
Symbols: vacuolar ATP synthase subunit H family protein chr3:14228846-14232228 REVERSE LENGTH=441	AT3G42050.1	50 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: RPL18 ribosomal protein L18 chr3:16215111-1622775 FORWARD LENGTH=187	AT3G05590.1 (+1)	21 kDa	2	2	1	1	0	0	2	1	0	0
Symbols: RPT5A, ATS6A.2 regulatory particle triple-A ATPase 5A chr3:1603540-1605993 FORWARD LENGTH=424	AT3G05530.1	47 kDa	2	1	0	0	0	1	1	1	0	0
Symbols: AGT, AGT1, SGAT alanine glyoxylate aminotransferase chr2:5539417-5540902 REVERSE LENGTH=401	AT2G13360.1 (+1)	44 kDa	1	1	1	0	0	0	2	0	0	0
Symbols: Ribosomal protein L22p/L17e family protein chr1:9515230-9516725 FORWARD LENGTH=176	AT1G27400.1 (+1)	20 kDa	0	1	2	0	0	1	2	0	0	0
Symbols: VHA-A vacuolar ATP synthase subunit A chr1:29660463-29664575 FORWARD LENGTH=623	AT1G78900.1 (+1)	69 kDa	0	1	0	0	0	0	2	0	0	0
Symbols: RPT1A regulatory particle triple-A 1A chr1:20065921-20068324 REVERSE LENGTH=426	AT1G53750.1	48 kDa	2	1	0	1	0	0	0	0	0	0
Symbols: ATJ2, J2 DNAJ homologue 2 chr5:7303798-7305668 REVERSE LENGTH=419	AT5G22060.1	46 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: ATJ3, ATJ DNAJ homologue 3 chr3:15869115-15871059 REVERSE LENGTH=420	AT3G4110.1 (+1)	46 kDa	0	0	0	0	0	0	1	0	0	0
Symbols: RPS1, ARRP5 ribosomal protein S1 chr5:11619262-11621223 REVERSE LENGTH=416	AT5G30510.1	45 kDa	0	1	0	0	3	0	4	0	0	0
Symbols: ACCD acetyl-CoA carboxylase carboxyl transferase subunit beta chrC:57075-58541 FORWARD LENGTH=488	ATCG00500.1	56 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: RPS8 ribosomal protein S8 chrC:80068-80472 REVERSE LENGTH=134	ATCG00770.1	15 kDa	1	2	0	0	1	0	1	1	0	0
Symbols: SSR16 small subunit ribosomal protein 16 chr4:16535084-16536092 REVERSE LENGTH=113	AT4G44620.1	13 kDa	1	1	1	0	1	0	1	1	0	0
Symbols: Sucrose-6F-phosphate phosphohydrolase family protein chr2:15053952-15055776 FORWARD LENGTH=422	AT2G35840.1 (+2)	48 kDa	1	0	0	0	0	0	2	0	0	0
Symbols: GTP binding Elongation factor Tu family protein chr4:1295751-1298354 REVERSE LENGTH=454	AT4G02930.1	49 kDa	3	0	0	1	0	0	3	0	0	0
Symbols: ECT2 evolutionarily conserved C-terminal region 2 chr3:4385274-4388220 REVERSE LENGTH=667	AT3G13460.1 (+3)	72 kDa	0	3	2	0	0	0	0	0	0	0
Symbols: Glycine cleavage T-protein family chr1:4001801-4003245 FORWARD LENGTH=408	AT1G11860.1 (+2)	44 kDa	1	1	0	1	0	1	2	1	0	0
Symbols: NOP56 homolog of nucleolar protein NOP56 chr1:20984544-20986893 REVERSE LENGTH=522	AT1G56110.1	59 kDa	1	0	0	0	0	0	2	0	0	0
Symbols: RPS15A ribosomal protein S15A chr1:2408413-2409065 REVERSE LENGTH=130	AT1G07770.1 (+2)	15 kDa	1	1	1	0	0	1	3	0	0	0
Symbols: Ribosomal protein S8 family protein chr2:16517588-16518265 REVERSE LENGTH=136	AT2G39590.1	15 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: RPN1A, ATRPN1A 26S proteasome regulatory subunit 52 1A chr2:8859211-8864699 FORWARD LENGTH=891	AT2G20580.1	?	2	1	0	0	0	0	0	0	0	0
Symbols: PAC1 20S proteasome alpha subunit C1 chr3:7792819-7793571 REVERSE LENGTH=250	AT3G22110.1	27 kDa	0	2	0	0	0	1	1	1	0	0
Symbols: ATB8C1, B8C1, RSU2 breast basic conserved 1 chr3:18166971-18168047 REVERSE LENGTH=206	AT3G49010.1 (+3)	24 kDa	1	0	0	1	0	0	2	1	0	0
Symbols: Tetratricopeptide repeat (TPR)-like superfamily protein chr3:22535729-22536940 FORWARD LENGTH=403	AT3G60960.1	46 kDa	0	0	0	0	0	0	1	2	0	0
Symbols: CPN60A, CH-CPN60A, SLP chaperonin-60alpha chr2:11926603-11929184 FORWARD LENGTH=586	AT2G28000.1	62 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: ATTP149A, RIN1 P-loop containing nucleoside triphosphate hydrolases superfamily protein chr5:7391026-7394071 REVERSE LENGTH=458	AT5G22330.1	50 kDa	0	2	0	1	0	0	1	0	0	0
Symbols: RPL16 ribosomal protein L16 chrC:81189-82652 REVERSE LENGTH=135	ATCG00790.1	15 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: PUB12, ATPUB12 PLANT U-BOX 12 chr2:12367001-12370608 REVERSE LENGTH=962	AT2G28830.1	107 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: NAD(P)-binding Rossmann-fold superfamily protein chr3:11193767-11194948 REVERSE LENGTH=298	AT3G29250.1	32 kDa	0	0	0	1	0	3	0	0	0	0
Symbols: ILA ILITHYIA chr1:24065232-24081908 REVERSE LENGTH=2610	AT1G64790.1 (+1)	285 kDa	3	0	0	0	0	0	0	0	0	0
Symbols: APUM5, PUM5 pumilio 5 chr3:7059098-7062660 REVERSE LENGTH=961	AT3G20250.1	107 kDa	0	0	0	1	0	0	0	0	0	0
Symbols: ATTP57, TP57, ATTPSA trehalose-phosphatase/synthase 7 chr1:1955413-1958153 FORWARD LENGTH=851	AT1G06410.1	97 kDa	1	0	0	0	0	0	3	0	0	0
Symbols: transcription regulators chr1:373335-386682 FORWARD LENGTH=2431	AT1G02080.1 (+1)	270 kDa	2	1	0	0	0	0	0	0	0	0
Symbols: ATGSTF9, GLUTTR, ATGSTF7, GSTF9 glutathione S-transferase PHI 9 chr2:13139132-13140057 FORWARD LENGTH=215	AT2G30860.1 (+1)	24 kDa	0	2	0	0	1	0	0	0	0	0
Symbols: Ribosomal protein L35Ae family protein chr1:27928415-27929466 REVERSE LENGTH=112	AT1G74270.1	13 kDa	1	0	0	0	0	1	0	0	0	0
Symbols: ATU2AF35B, U2AF35B Zinc finger C-x8-C-x5-C-x3-H type family protein chr5:17170445-17171296 REVERSE LENGTH=283	AT5G42820.1 (+1)	33 kDa	1	0	0	0	0	0	0	0	0	0
Symbols: U2 snRNP auxiliary factor small subunit, putative chr1:9615302-9616042 FORWARD LENGTH=246	AT1G27650.2	29 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Zinc finger C-x8-C-x5-C-x3-H type family protein chr3:16328221-16328448 REVERSE LENGTH=75	AT3G4785.1	9 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: PIL6, PIF5 phytochrome interacting factor 3-like 6 chr3:21828189-21828995 REVERSE LENGTH=442	AT3G59060.1 (+3)	49 kDa	0	0	0	0	0	0	1	0	0	0
Symbols: PIF4, SRL2, ADPIF4 phytochrome interacting factor 4 chr2:17887003-17888823 FORWARD LENGTH=430	AT2G43010.1 (+1)	48 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Ribosomal protein L31e family protein chr2:8513577-8514346 FORWARD LENGTH=119	AT2G19740.1 (+2)	14 kDa	0	0	0	1	0	0	1	0	0	0
Symbols: Ribosomal protein L31e family protein chr5:22944003-22944767 REVERSE LENGTH=85	AT5G56710.2	10 kDa	0	0	0	0	0	0	0	0	0	0
Symbols: Coatomer epsilon subunit chr1:10858546-10860173 REVERSE LENGTH=292	AT1G30630.1	33 kDa	0	0	0	2	0	0	2	0	0	0
Symbols: SHM4 serine hydroxymethyltransferase 4 chr4:8048013-8050021 REVERSE LENGTH=471	AT4G											

