



Figure S1. Distribution of number of probes per module.

Co-expressed gene network in barley

Keyword search > *Hordeum vulgare* > Contig10934_at

Summary

Probe ID	Contig10934_at
Link to Genevestigator	Link ↗
Affymetrix annotations	<ul style="list-style-type: none"> Probe Set ID: Contig10934_at GeneChip Array: Affymetrix Barley Genome Array Species Scientific Name: <i>Hordeum vulgare</i> Annotation Date: 10-Aug-10 Sequence Type: Exemplar sequence Sequence Source: Affymetrix Proprietary Database Transcript ID: Contig10934 Target Description: BEST BLASTX NR: 11/08/02 AA006848.1 2e-16 (AC099401) Putative abscisic acid-induced protein [Oryza sativa (japonica cultivar-group)] Representative Public ID: Contig10934 Archival UniGene Cluster: --- more ...

BLAST results

vs DB	Program	Description	Score	E value
TAIR ↗	blastx	AT3G22490.1 Symbols: late embryogenesis abundant protein, putative / LEA protein, putative chr3:7969785-7970738 REVERSE	82	2e-16
Bdi ↗	blastx	Bradi4g07340.1	133	5e-32
RAP ↗	blastx	Os06g0341300 AK107654	135	1e-32
TIGR GI Hwu ↗	blastn	TC223621	827	0.0
TIGR GI Tae ↗	blastn	TC416163	549	2e-155

Gene Ontology

- Biological Process
 - GO 0009793 [↗](#)
- Cellular Component
 - GO 0005575 [↗](#)
- Molecular Function
 - GO 0003674 [↗](#)

Co-expressed genes

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Ilum.	Probe name	MR	wPCC	Target Description
1.	Contig6087_s_at	1.7	0.945	BEST BLASTX NR: 10/02/02 NP_196350.1 1e-21 putative protein; protein id: AT5g07330.1 [Arabidopsis thaliana] prtT49872 hypothetical protein T201.40 - Arabidopsis thaliana
2.	Contig3690_s_at	2	0.938	BEST BLASTX NR: 01/29/03 AAF29532.1 5e-36 plasma membrane associated protein [Hordeum vulgare]
3.	Contig1713_s_at	4.9	0.902	BEST BLASTX NR: 10/13/02 AAF01692.1 2e-05 (AF181454) dehydrin, DHV4 [Hordeum vulgare] [Hordeum vulgare subsp. vulgare]
4.	Contig2406_at	5.2	0.923	BEST BLASTX NR: 11/04/02 000747 7e-07 PROTEIN LE25 pit519253 gene le25 protein - tomato
5.	Contig2406_at	5.5	0.905	BEST BLASTX NR: 10/26/02 T04147 2e-33 LEA protein - rice gb AAC03364.1 LEA-like protein [Oryza sativa]
6.	Contig7112_at	6.5	0.903	BEST BLASTX NR: 10/27/02 NP_201479.1 9e-19 putative protein; protein id: A15g68780.1, supported by cDNA: gi_15081693, supported by cDNA: gi_16252266 [Arabidopsis]
7.	Contig4760_s_at	6.6	0.869	BEST BLASTX NR: 11/08/02 BAB32715.1 1e-67 putative late embryogenesis abundant protein LEA14-A [Oryza sativa (japonica cultivar-group)]
8.	Contig8824_at	6.7	0.905	BEST BLASTX NR: 11/04/02 NP_194911.1 4e-18 (NM_119333) putative protein; protein id: A14q31830.1 [Arabidopsis thaliana]
9.	Contig9191_at	7	0.82	BEST BLASTX NR: 11/04/02 BAA82377.1 1e-66 ESTs AU070372 S13446 AU075541 S03553 correspond to a region of the predicted gene - Similar to Arabidopsis thaliana BAC
10.	HV14105u_x_at	7.2	0.908	BEST BLASTX NR:

Home Keyword search Download Quick search

Keyword search

Description of each search function

- ✓ **Keyword...** search for genes using keywords found in all data associated with each barley gene.
- ✓ **Probe IDs...** search for genes using any probe IDs.
- ✓ **GO Terms...** search for genes using GO terms associated with each term.

Keyword Probe IDs GO Terms

Search by Probe IDs

Contig10934_at

Search Clear

e.g., "Contig37"

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A

Keyword search

Barley

1 result for Contig10934_at

- Contig10934_at
 - TAIR9 (E value: 2e-16 Score: 82) AT3G22490.1 | Symbols: | late embryogenesis abundant protein, putative / LEA protein, putative | chr3:7969785-7970738 REVERSE
 - Bdi1 (E value: 5e-32 Score: 133) Bradi4g07340.1
 - RAP2 (E value: 1e-32 Score: 135) Os06g0341300|AK107654
 - HVGI (E value: 0.0 Score: 827) TC223621
 - TAGI (E value: 2e-155 Score: 549) TC416163

B

Download

Co-expressed gene dataset [HeMo analysis result](#) [GO Slim annotation of each module](#)

Co-expressed gene dataset

The tar.gz file includes dataset of weighted Pearson's correlation coefficient (PCC) values for all pair-wise combinations of the available probes as tab-delimited text files. Each tab-delimited file consists of probe id, mutual rank and weighted pcc values.

Download (4.0 GB)

D

C

Figure S2. The interface of the web site used to provide datasets of the co-expression network of barley genes (<http://coexpression.psc.riken.jp/barley/>). (A) The interface provides search queries for the keywords, probe identifiers, and GO terms associated with the probes. (B) The search results are listed with annotations based on similarity searches. Users can navigate to the detailed annotation pages to browse the related annotations. (C) The detailed annotation pages provide summarized basic information on each of the probes, hyperlinks to Genevestigator, GO annotation, and ranked probes that are co-expressed. (D) The web site also provides a user interface for downloading archived datasets of the co-expressed genes in barley.