CabFra_freeze_r1

Global Summary

%DE = 0.2

genes with fdr < 0.2 = 7 (4 + / 3 −)

genes with fdr < 0.1 = 0 (0 + / 0 −)

genes with fdr < 0.05 = 0 (0 + / 0 −)

genes with fdr < 0.01 = 0 (0 + / 0 −)

<FC> = 0

<p−value> = 0.31

<fdr> = 0.8

Differentially expressed genes

Rank	ID	log(FC)	p−value	fdr	Description	Metagene
Overexpressed						
1	Vitvi16g01003	1.04	2e−05	0.1	18 x 7	Binding to a protein.
2	Vitvi08g01803	0.94	5e−05	0.1	16 x 7	The contents of a cell excluding the plasma membrane and n
3	Vitvi08g02393	2.11	5e−05	0.1	12 x 9	Any process that modulates the frequency, rate or extent of D
4	Vitvi06g01479	0.67	5e−05	0.1	16 x 22	The modification of histones by addition of methyl groups.
5	Vitvi08g02274	3.11	9e−05	0.3	8 x 1	
6	Vitvi18g00682	1.15	1e−04	0.3	27 x 1	
7	Vitvi14g00264	0.57	2e−04	0.3	19 x 19	Any molecular function by which a gene product interacts sele
8	Vitvi19g01585	1.08	2e−04	0.3	15 x 6	Catalysis of a biochemical reaction at physiological temperatu
9	Vitvi17g01086	1.26	3e−04	0.3	20 x 9	The part of the cytoplasm that does not contain organelles bu
10	Vitvi14g00149	2.77	3e−04	0.3	18 x 12	The component of a membrane consisting of the gene produc
11	Vitvi00g01556	1.13	4e−04	0.3	30 x 15	
12	Vitvi07g02971	1.13	4e−04	0.3	30 x 15	Binding to a protein.
13	Vitvi18g02973	1.38	4e−04	0.3	33 x 10	
14	Vitvi19g00020	0.7	4e−04	0.3	17 x 19	A membrane−bounded organelle of eukaryotic cells in which
15	Vitvi08g01125	0.68	4e−04	0.4	17 x 23	The directed movement of poly(A)+ mRNA out of the nucleus
16	Vitvi08g02334	2.49	5e−04	0.4	40 x 1	The chemical reactions and pathways involving carbohydrates
17	Vitvi07g00491	0.69	6e−04	0.4	16 x 21	The component of a membrane consisting of the gene produc
18	Vitvi12g01865	1.01	6e−04	0.5	17 x 7	A semiautonomous, self replicating organelle that occurs in va
19	Vitvi01g00530	0.77	7e−04	0.5	18 x 8	A membrane−bounded organelle of eukaryotic cells in which
20	Vitvi01g00985	0.79	7e−04	0.5	19 x 9	The chemical reactions and pathways resulting in the breakd
Underexpressed						
1	Vitvi15g01046	−1.17	3e−05	0.1	15 x 37	The component of a membrane consisting of the gene produc
2	Vitvi03g00495	−1.08	6e−05	0.1	11 x 23	Organized structure of distinctive morphology and function, b
3	Vitvi19g01703	−1.56	6e−05	0.1	16 x 35	Catalysis of an oxidation−reduction (redox) reaction, a reversi
4	Vitvi07g00091	−3.78	7e−05	0.3	38 x 37	The component of a membrane consisting of the gene produc
5	Vitvi18g01977	−1.17	2e−04	0.3	15 x 36	The process resulting in division and partitioning of componer
6	Vitvi12g02377	−1.11	3e−04	0.3	17 x 31	Binding to a phospholipid, a class of lipids containing phosph
7	Vitvi10g00899	−0.72	4e−04	0.3	22 x 27	The component of a membrane consisting of the gene produc
8	Vitvi13g00107	−1.99	4e−04	0.3	28 x 38	The contents of a cell excluding the plasma membrane and n
9	Vitvi16g00146	−1.38	4e−04	0.3	28 x 26	Binding to ATP, adenosine 5'−triphosphate, a universally impo
10	Vitvi08g00777	−1.53	5e−04	0.4	30 x 33	The component of a membrane consisting of the gene produc
11	Vitvi02g00023	−1.08	6e−04	0.4	17 x 37	A membrane−bounded organelle of eukaryotic cells in which
12	Vitvi06g00258	−0.93	7e−04	0.5	8 x 27	Catalysis of the transfer of a group, e.g. a methyl group, glyco
13	Vitvi09g00052	−0.77	8e−04	0.5	23 x 30	A lipid bilayer along with all the proteins and protein complexe
14	Vitvi19g00217	−0.84	1e−03	0.6	21 x 32	Binding to an RNA molecule or a portion thereof.
15	Vitvi19g01548	−1.77	1e−03	0.6	29 x 27	A chlorophyll−containing plastid with thylakoids organized intc
16	Vitvi19g00417	−0.93	1e−03	0.6	23 x 34	Go 0006342
17	Vitvi16g01380	−1.59	1e−03	0.6	30 x 35	The component of the plasma membrane consisting of the ge
18	Vitvi06g00700	−1.13	1e−03	0.6	29 x 25	The component of a membrane consisting of the gene produc
19	Vitvi15g00677	−0.58	2e−03	0.6	24 x 26	The component of a membrane consisting of the gene produc
20	Vitvi14g00345	−0.91	2e−03	0.6	8 x 37	The network of interconnected tubular and cisternal structures

Differentially expressed gene sets

Rank	GSZ	p−value	#all	Geneset
Overexpressed				
1	4.38	0e+00	140	Hormone signaling − Ethylene signaling
2	4.25	0e+00	153	Plant−pathogen interaction
3	4.22	0e+00	73	Transcription factors − AP2 EREBP
4	4.07	0e+00	13	Cutin suberine and wax biosynthesis
5	4.04	0e+00	162	Plant−pathogen interaction
6	3.88	8e−05	64	Transcription factors − Other transcription factors
7	3.86	8e−05	18	Chaperones − HSP20
8	3.79	1e−04	28	Transcription factors − Basic leucine zipper (bZIP)
9	3.67	3e−04	48	Transcription factors − WRKY
10	3.67	3e−04	118	Transcription factors − Helix−turn−Helix
11	3.63	3e−04	17	Proteasome − Assembly factors
12	3.24	1e−03	12	Endoplasmic reticulum membrane and cytosol
13	3.08	2e−03	15	Chaperones − HSP70 / DNAK
14	3.08	2e−03	86	Signal transduction − Calcium−Calcium signaling pathway
15	3.07	2e−03	43	Transcription factors − BZIP
16	2.96	3e−03	58	Other amino acid metabolism − Glutathione metabolism
17	2.94	4e−03	111	Hormone signaling − ABA signaling
18	2.89	4e−03	45	Galactose metabolism
19	2.89	4e−03	157	Protein processing in endoplasmic reticulum
20	2.8	6e−03	49	Transcription factors − NAC
Underexpressed				
1	−8.87	0	80	Cytoskeleton − Microtubules
2	−8.25	0	18	Energy metabolism − Photosynthesis proteins
3	−8.22	0	18	Photosynthesis proteins
4	−7.77	0	217	Cell motility − Regulation of cytoskeleton
5	−7.34	0	47	Transporters − Transporter catalog − Electron carriers
6	−7.28	0	206	Cell growth and death − Cell wall
7	−6.32	0	24	Replication and repair − DNA Replication Factors
8	−5.68	0	66	Exosome − Exosome proteins − Proteins connected to cancer cells
9	−5.62	0	219	Cell growth and death − Cell cycle
10	−5.57	0	41	Replication and repair − DNA replication
11	−5.54	0	38	Photosynthesis
12	−5.39	0	78	Energy metabolism − Photosynthesis
13	−5.37	0	36	DNA replication
14	−4.79	0	10	Photosynthesis − Photosystem II (P700 chlorophyll a)
15	−4.71	0	113	Exosome − Exosome proteins − Proteins connected to cancer cells
16	−4.65	0	19	Aquaporins − Plasma membrane tetrameric type 1 [TC:1.A.8]
17	−4.52	0	211	Ribosome
18	−4.28	0	40	Transporters − Types of transporting ATPases
19	−4.21	0	44	Replication and repair − DNA Replication Factors
20	−3.99	0	65	Phagosome