Chard_accfreeze

Global Summary

%DE = NA

genes with fdr < 0.2 = 6315 (3287 + / 3028 −)

genes with fdr < 0.1 = 4206 (2214 + / 1992 −)

genes with fdr < 0.05 = 2807 (1468 + / 1339 −)

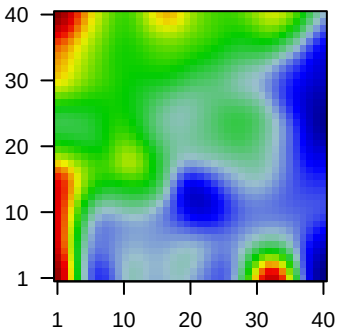
genes with fdr < 0.01 = 1795 (928 + / 867 −)

<FC> = 0

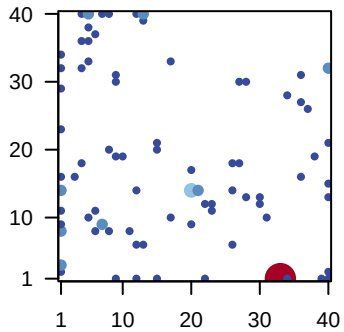
<p−value> = 0.04

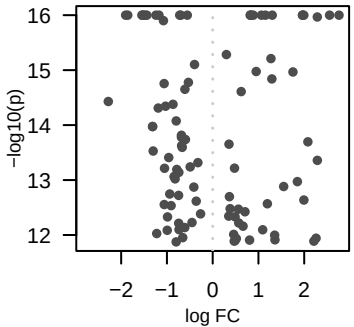
<fdr> = 0.44

Portrait



Top 100 DE genes





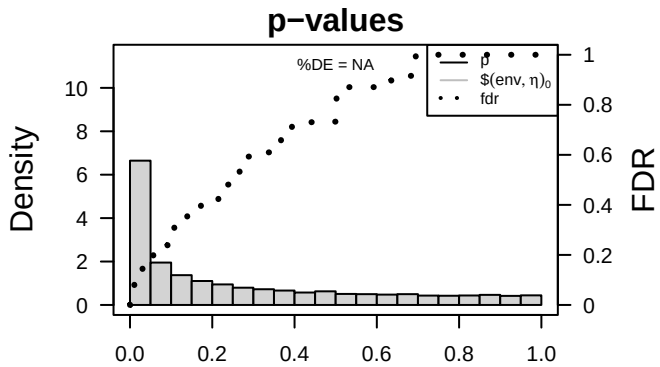
Differentially expressed genes

Rank	ID	log(FC)	p−value	fdr	Description Metagene
Overexpressed					
1	Vitvi10g00165	1.07	1e−16	6e−14	4 x 40
2	Vitvi02g01474	0.89	1e−16	6e−14	4 x 36 Catalysis of an oxidation−reduction (redox) reaction, a reversi
3	Vitvi12g02324	2.55	1e−16	6e−14	33 x 1 Binding to a protein.
4	Vitvi12g02328	1.3	1e−16	6e−14	32 x 1
5	Vitvi13g01327	1.15	1e−16	6e−14	1 x 29 Binding to ADP, adenosine 5'−diphosphate.
6	Vitvi14g01757	0.83	1e−16	6e−14	1 x 34 Catalysis of an oxidation−reduction (redox) reaction in which
7	Vitvi15g01623	0.82	1e−16	6e−14	4 x 18 Catalysis of the transfer of a glycosyl group from a UDP−sug
8	Vitvi00g01747	1.96	1e−16	6e−14	1 x 8
9	Vitvi16g02104	1.96	1e−16	6e−14	1 x 8
10	Vitvi17g00175	1.99	1e−16	6e−14	1 x 14 The component of a membrane consisting of the gene produc
11	Vitvi17g00642	0.84	1e−16	6e−14	15 x 21 The component of a membrane consisting of the gene produc
12	Vitvi17g00787	2.76	1e−16	6e−14	1 x 3 A membrane−bounded organelle of eukaryotic cells in which
13	Vitvi01g00350	2.29	1e−16	1e−13	33 x 1
14	Vitvi03g01259	0.3	5e−16	2e−12	15 x 20 Catalysis of a biochemical reaction at physiological temperat
15	Vitvi10g01431	1.27	6e−16	2e−12	33 x 1
16	Vitvi06g01385	0.95	1e−15	2e−12	1 x 11 Catalysis of the hydrolysis of a peptide bond. A peptide bond
17	Vitvi13g01358	1.75	1e−15	2e−12	1 x 9 Binding to ATP, adenosine 5'−triphosphate, a universally impo
18	Vitvi08g00016	1.29	1e−15	2e−12	1 x 14
19	Vitvi06g00653	0.62	2e−15	5e−12	3 x 16 Binding to a metal ion.
20	Vitvi10g01433	2.08	2e−14	2e−11	33 x 1
Underexpressed					
1	Vitvi10g00227	−1.55	1e−16	6e−14	28 x 30 The component of a membrane consisting of the gene produc
2	Vitvi04g01906	−1.9	1e−16	6e−14	6 x 8 Catalysis of the hydrolysis of various bonds, e.g. C−O, C−N,
3	Vitvi05g00062	−1.52	1e−16	6e−14	22 x 1 Reactions, triggered in response to the presence of a foreign
4	Vitvi07g02633	−1.17	1e−16	6e−14	6 x 37
5	Vitvi08g01195	−0.7	1e−16	6e−14	27 x 30 The process in which a relatively unspecialized cell acquires
6	Vitvi08g01304	−0.72	1e−16	6e−14	38 x 19 Any process that modulates the frequency, rate or extent of c
7	Vitvi12g02140	−1.86	1e−16	6e−14	8 x 8 The component of a membrane consisting of the gene produc
8	Vitvi13g02421	−1.44	1e−16	6e−14	21 x 14
9	Vitvi13g01722	−1.47	1e−16	6e−14	40 x 2 A membrane−bounded organelle of eukaryotic cells in which
10	Vitvi15g01239	−1.24	1e−16	6e−14	9 x 1
11	Vitvi16g01068	−0.56	1e−16	6e−14	31 x 10 The chemical reactions and pathways resulting in the breakdo
12	Vitvi17g01417	−1.53	1e−16	6e−14	20 x 17
13	Vitvi18g02109	−1.08	1e−16	2e−12	8 x 20
14	Vitvi08g01014	−0.4	8e−16	2e−12	36 x 16 Binding to an RNA molecule or a portion thereof.
15	Vitvi04g01751	−0.53	2e−15	2e−12	26 x 6 Catalysis of the transfer of an acyl group to an oxygen atom c
16	Vitvi12g02701	−1.06	2e−15	3e−12	23 x 12 Binding to ADP, adenosine 5'−diphosphate.
17	Vitvi03g01305	−0.61	2e−15	3e−12	40 x 15
18	Vitvi18g01849	−2.28	4e−15	5e−12	37 x 26 Binding to ADP, adenosine 5'−diphosphate.
19	Vitvi16g01866	−0.87	4e−15	5e−12	22 x 12 Binding to ATP, adenosine 5'−triphosphate, a universally impo
20	Vitvi16g01494	−1.03	5e−15	5e−12	1 x 23

Differentially expressed gene sets

Rank	GSZ	p−value	#all	Geneset
Overexpressed				
1	9.36	0e+00	64	Transcription factors − Other transcription factors
2	9.12	0e+00	73	Transcription factors − AP2−EREBP
3	7.2	0e+00	48	Transcription factors − WRKY
4	7.19	0e+00	140	Hormone signaling − Ethylene signaling
5	6.78	0e+00	49	Transcription factors − NAC
6	5.66	0e+00	11	Biosynthesis of secondary metabolites − ABA biosynthesis
7	5.1	0e+00	238	Enzyme − Glycosyltransferases
8	3.61	4e−04	162	Plant specific signaling pathway − Plant−pathogen interaction
9	3.54	5e−04	29	Carotenoid biosynthesis
10	3.34	1e−03	111	Hormone signaling − ABA signaling
11	3.05	3e−03	170	Transcription factors − C3HC4
12	2.96	4e−03	75	Translation − Ribosome biogenesis in eukaryotes
13	2.92	5e−03	86	Signal transduction − Calcium signaling pathway
14	2.82	6e−03	64	Ribosome biogenesis in eukaryotes
15	2.73	8e−03	223	Enzyme − Acting on peptide bonds (peptidases)
16	2.68	8e−03	18	Photosynthesis − proteins
17	2.68	8e−03	116	Ribosome biogenesis − 60S particles
18	2.67	8e−03	153	Plant−pathogen interaction
19	2.49	1e−02	47	Transporters − Electron carriers
20	2.45	2e−02	18	Energy metabolism − Photosynthesis − proteins
Underexpressed				
1	−3.8	0e+00	247	Translation − Ribosome
2	−3.71	2e−04	26	Flavonoid biosynthesis
3	−3.61	4e−04	211	Ribosome
4	−3.53	5e−04	67	Ribosome − Bacteria
5	−3.33	1e−03	44	Energy metabolism − Nitrogen metabolism
6	−3.21	2e−03	72	Ribosome − Mitochondria, Chloroplast
7	−3.08	3e−03	41	Transporters − Primary active transporters − P−type ATPase
8	−2.97	4e−03	48	Lipid metabolism − Fatty acid biosynthesis
9	−2.91	5e−03	71	Amino acid metabolism − Phenylalanine metabolism
10	−2.86	5e−03	39	Pentose and glucuronate interconversions
11	−2.85	5e−03	22	Transcription factors − C2C2−DOF
12	−2.82	6e−03	219	Cell growth and death − Cell cycle
13	−2.71	8e−03	105	Energy metabolism − Oxidative phosphorylation
14	−2.56	1e−02	97	Ribosome − Archaea
15	−2.56	1e−02	81	Enzyme − Carbon−oxygen lyases
16	−2.45	2e−02	25	Nitrogen metabolism
17	−2.45	2e−02	33	alpha−Linolenic acid metabolism
18	−2.32	2e−02	22	Fatty acid elongation
19	−2.27	3e−02	40	Energy metabolism − Methane metabolism
20	−2.25	3e−02	31	Fatty acid biosynthesis

p−values



p−values