Chard_warm_r1

Global Summary

%DE = 0.09

genes with fdr < 0.2 = 41 (0 + / 41 −)

genes with fdr < 0.1 = 15 (0 + / 15 −)

genes with fdr < 0.05 = 12 (0 + / 12 −)

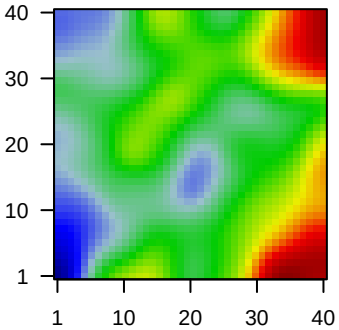
genes with fdr < 0.01 = 0 (0 + / 0 −)

<FC> = 0

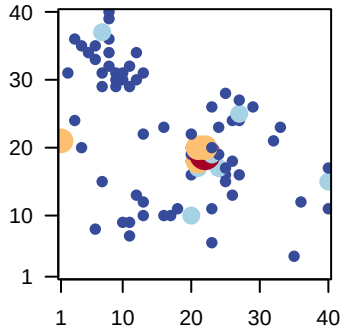
<p−value> = 0.35

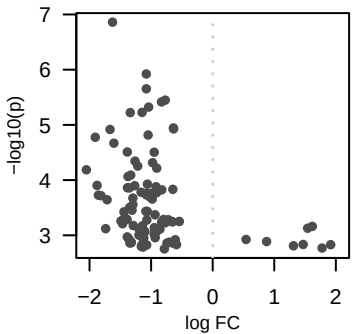
<fdr> = 0.91

Portrait



Top 100 DE genes





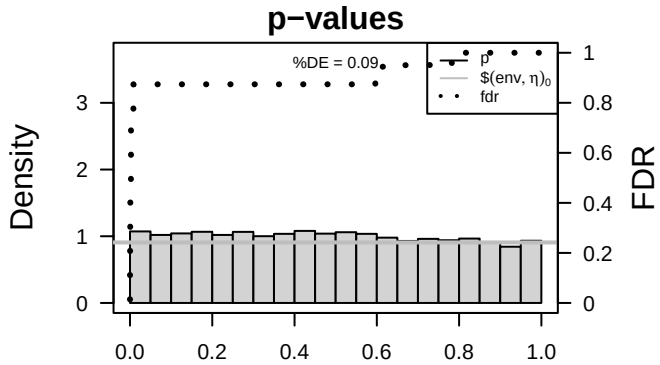
Differentially expressed genes

Rank	ID	log(FC)	p−value	fdr	Description / Metagene
Overexpressed					
1	Vitvi12g02016	1.62	7e−04	0.3	40 x 15 The part of the cytoplasm that does not contain organelles bu
2	Vitvi08g01569	1.54	7e−04	0.3	40 x 17 Catalysis of the hydrolysis of a single C−terminal amino acid
3	Vitvi17g01459	0.54	1e−03	0.5	16 x 23 A membrane−bounded organelle of eukaryotic cells in which
4	Vitvi07g01827	0.88	1e−03	0.5	36 x 12 A lipid bilayer along with all the proteins and protein complexe
5	Vitvi18g02752	1.47	1e−03	0.5	40 x 11
6	Vitvi10g01620	1.92	1e−03	0.5	35 x 4
7	Vitvi07g01669	1.31	2e−03	0.5	13 x 22 Binding to ATP, adenosine 5'−triphosphate, a universally impo
8	Vitvi02g01279	1.78	2e−03	0.5	40 x 15 The component of a membrane consisting of the gene produc
9	Vitvi08g01114	1.11	2e−03	0.5	23 x 32 Binding to an RNA molecule or a portion thereof.
10	Vitvi06g01000	1.13	2e−03	0.5	20 x 28 Binding to a protein.
11	Vitvi11g00238	1.91	2e−03	0.5	35 x 4 Catalysis of the hydrolysis of various bonds, e.g. C−O, C−N, (
12	Vitvi17g01445	1.1	2e−03	0.5	13 x 36
13	Vitvi07g01806	0.62	2e−03	0.5	20 x 31 The component of a membrane consisting of the gene produc
14	Vitvi01g02263	2.08	3e−03	0.8	40 x 20 Catalysis of the transfer of a methyl group to the oxygen atom
15	Vitvi02g01206	0.78	4e−03	0.8	13 x 21
16	Vitvi17g00712	0.68	4e−03	0.8	23 x 30 The component of a membrane consisting of the gene produc
17	Vitvi04g00387	0.79	4e−03	0.8	12 x 23 Binding to a zinc ion (Zn).
18	Vitvi17g00339	3.72	5e−03	0.8	34 x 1 Binding to a heme, a compound composed of iron complexed
19	Vitvi14g01524	1.32	5e−03	0.8	40 x 13 Binding to a metal ion.
20	Vitvi03g00772	1.04	5e−03	0.8	29 x 19
Underexpressed					
1	Vitvi02g00129	−1.63	1e−07	0.01	9 x 31 The component of a membrane consisting of the gene produc
2	Vitvi11g00150	−1.08	1e−06	0.01	25 x 15 The contents of a cell excluding the plasma membrane and n
3	Vitvi16g00147	−1.08	2e−06	0.01	21 x 18 The transfer of electrons from NADH to ubiquinone that occur
4	Vitvi17g00883	−0.77	4e−06	0.01	23 x 20 A membrane−bounded organelle of eukaryotic cells in which
5	Vitvi17g00125	−0.83	4e−06	0.01	25 x 28 A lipid bilayer along with all the proteins and protein complexe
6	Vitvi04g00901	−1.04	5e−06	0.01	24 x 23 A membrane−bounded organelle of eukaryotic cells in which
7	Vitvi17g00487	−1.15	6e−06	0.01	21 x 20 The component of a membrane consisting of the gene produc
8	Vitvi13g01361	−1.34	6e−06	0.03	21 x 17 The directed movement of mRNA from the nucleus to the cyto
9	Vitvi02g01734	−0.64	1e−05	0.03	21 x 20
10	Vitvi00g00483	−0.64	1e−05	0.03	21 x 20
11	Vitvi14g01737	−1.67	1e−05	0.04	21 x 17 The posttranscriptional addition of methyl groups to specific r
12	Vitvi07g00027	−1.05	2e−05	0.04	11 x 32 The targeting of proteins to a membrane that occurs during tr
13	Vitvi12g02007	−1.91	2e−05	0.08	1 x 21 The component of a membrane consisting of the gene produc
14	Vitvi18g01535	−1.6	2e−05	0.08	27 x 27 Binding to GTP, guanosine triphosphate.
15	Vitvi02g01321	−1.39	3e−05	0.08	10 x 30 The action of a molecule that contributes to the structural inte
16	Vitvi13g00112	−0.95	3e−05	0.11	11 x 29 The component of a membrane consisting of the gene produc
17	Vitvi04g01984	−1.26	5e−05	0.11	29 x 26 The component of a membrane consisting of the gene produc
18	Vitvi14g00245	−0.98	5e−05	0.11	12 x 13 The contents of a cell excluding the plasma membrane and n
19	Vitvi18g02186	−1.22	6e−05	0.11	26 x 13 Catalysis of the transfer of a methyl group to an acceptor mol
20	Vitvi05g00232	−0.91	6e−05	0.11	22 x 19

Differentially expressed gene sets

Rank	GSZ	p−value	#all	Geneset
Overexpressed				
1	6.44	0e+00	78	Energy metabolism − Photosynthesis
2	6.09	0e+00	38	Photosynthesis
3	5.82	0e+00	26	Flavonoid biosynthesis
4	5.64	0e+00	206	Cell growth and death − Cell wall
5	4.73	0e+00	44	Hormone signaling − Cytokinin signaling
6	4.62	0e+00	26	Glycosyltransferases − Hydrophobic molecule
7	4.6	0e+00	47	Transporters − Electron carriers
8	4.52	0e+00	134	Hormone signaling − Auxin signaling
9	4.31	0e+00	18	Energy metabolism − Photosynthesis, proteins
10	4.15	0e+00	47	ABC transporters
11	3.97	0e+00	18	Photosynthesis − proteins
12	3.9	4e−05	19	Aquaporin and plasma membrane intrinsic protein [TC:1.A.8]
13	3.75	1e−04	10	Photosynthesis − Photosystem II (P700 chlorophyll a)
14	3.68	3e−04	40	Transporters − Sugar, hexitol and polyol transporting pathway
15	3.68	3e−04	63	Phenylpropanoid biosynthesis
16	3.66	3e−04	28	Exosome − Exosome proteins of milk
17	3.6	4e−04	195	Carbohydrate metabolism − Starch and sucrose metabolism
18	3.52	6e−04	39	Pentose and glucuronate interconversions
19	3.28	1e−03	13	Cutin suberine and wax biosynthesis
20	3.27	1e−03	168	Plant hormone signal transduction
Underexpressed				
1	−5.6	0e+00	49	Transcription factors − NAC
2	−4.76	0e+00	48	Transcription factors − WRKY
3	−4.51	0e+00	36	DNA replication
4	−4.36	0e+00	43	Mitochondrial respiratory chain complex assembly factors
5	−4.35	0e+00	64	Transcription factors − Other transcription factors
6	−4.31	0e+00	116	Ribosome biogenesis − 60S ribosomal particles
7	−4.11	0e+00	62	Ribosome biogenesis − 40S ribosomal particles
8	−3.89	8e−05	73	Transcription factors − AP2−EREBP
9	−3.77	1e−04	41	Replication and DNA repair − DNA replication
10	−3.77	1e−04	153	Plant−pathogen interaction
11	−3.66	3e−04	27	Enzyme − Transferring nitrogenous groups
12	−3.65	3e−04	140	Hormone signaling − Ethylene signaling
13	−3.54	5e−04	247	Translation − Ribosome
14	−3.2	1e−03	64	Ribosome biogenesis − eukaryotes
15	−3.09	2e−03	34	Tyrosine metabolism
16	−3.04	2e−03	44	Proteasome
17	−2.99	3e−03	37	Homologous recombination
18	−2.91	4e−03	144	Ribosome − Eukaryotes
19	−2.89	4e−03	27	Mismatch repair
20	−2.85	5e−03	44	Nucleotide excision repair

p−values



p−values