Tocai_freeze_r2

Global Summary

%DE = 0.3

genes with fdr < 0.2 = 2 (1 + / 1 −)

genes with fdr < 0.1 = 2 (1 + / 1 −)

genes with fdr < 0.05 = 2 (1 + / 1 −)

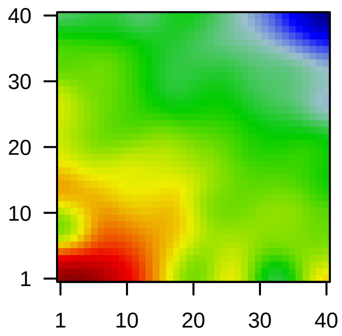
genes with fdr < 0.01 = 0 (0 + / 0 −)

<FC> = 0

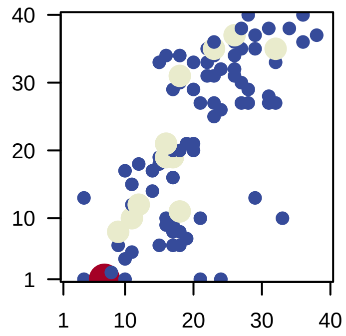
<p−value> = 0.28

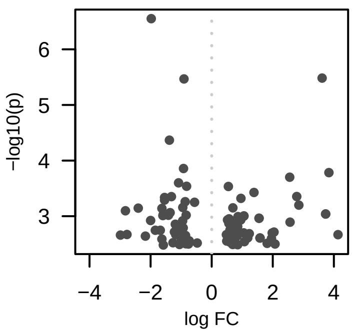
<fdr> = 0.7

Portrait



Top 100 DE genes

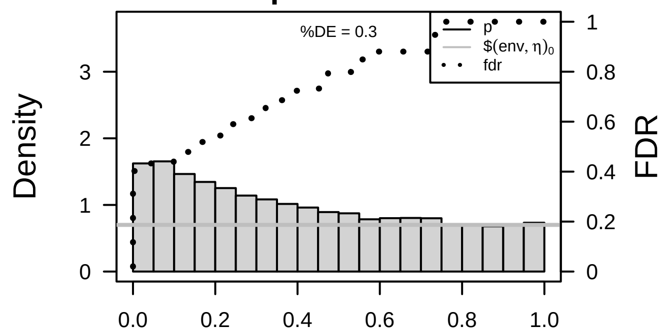




Differentially expressed genes

Rank	ID	log(FC)	p−value	fdr	Metagene	Description
Overexpressed						
1	Vitvi13g00517	3.62	3e−06	0.02	21 x 10	Catalysis of the transfer of an acyl group, other than amino−a
2	Vitvi18g0279€	3.84	2e−04	0.38	4 x 1	
3	Vitvi06g01724	2.55	2e−04	0.38	24 x 1	Catalysis of the reaction: R−X + glutathione = H−X + R−S−glu
4	Vitvi04g0011€	0.55	3e−04	0.38	20 x 20	The process of assisting in the covalent and noncovalent ass
5	Vitvi18g0297€	1.38	4e−04	0.38	33 x 10	
6	Vitvi03g01481	2.78	4e−04	0.38	10 x 17	The part of the cytoplasm that does not contain organelles bu
7	Vitvi14g02031	0.96	5e−04	0.38	16 x 9	The process of assisting in the covalent and noncovalent ass
8	Vitvi04g0035€	2.85	6e−04	0.38	12 x 18	
9	Vitvi07g0182€	0.69	7e−04	0.38	16 x 21	Binding to a metal ion.
10	Vitvi00g0145€	3.73	9e−04	0.38	7 x 1	
11	Vitvi10g02181	3.73	9e−04	0.38	7 x 1	
12	Vitvi00g02181	1.06	1e−03	0.38	11 x 10	
13	Vitvi10g0239€	1.05	1e−03	0.38	11 x 10	
14	Vitvi16g0129€	0.86	1e−03	0.38	14 x 17	The contents of a cell excluding the plasma membrane and n
15	Vitvi09g02107	1.55	1e−03	0.38	18 x 11	An intracellular organelle, about 200 A in diameter, consisting
16	Vitvi00g0164€	1.55	1e−03	0.38	18 x 11	
17	Vitvi18g0170€	0.57	1e−03	0.38	18 x 20	Catalysis of a biochemical reaction at physiological temperatu
18	Vitvi15g0102€	0.83	1e−03	0.38	16 x 21	The contents of a cell excluding the plasma membrane and n
19	Vitvi07g0224€	0.52	1e−03	0.38	15 x 19	The joining together of exons from one or more primary trans
20	Vitvi15g01521	0.95	1e−03	0.38	16 x 10	
Underexpressed						
1	Vitvi19g0001€	−1.98	3e−07	0.02	31 x 27	A lipid bilayer along with all the proteins and protein complexe
2	Vitvi11g0044€	−0.91	3e−06	0.38	23 x 31	Binding to a protein.
3	Vitvi05g0043€	−1.38	4e−05	0.38	16 x 34	The component of a membrane consisting of the gene produc
4	Vitvi10g0015€	−0.92	1e−04	0.38	24 x 32	
5	Vitvi03g00844	−1.08	3e−04	0.38	26 x 31	The component of a membrane consisting of the gene produc
6	Vitvi12g00541	−0.82	3e−04	0.38	20 x 29	The component of a membrane consisting of the gene produc
7	Vitvi01g0168€	−1.32	4e−04	0.38	28 x 27	Binding to a zinc ion (Zn).
8	Vitvi14g0099€	−1.54	5e−04	0.38	26 x 37	A semiautonomous, self replicating organelle that occurs in va
9	Vitvi13g0070€	−1.54	5e−04	0.38	29 x 35	
10	Vitvi08g0139€	−0.87	5e−04	0.38	22 x 31	The accumulation and maintenance in cells or tissues of lipids
11	Vitvi11g0077€	−0.56	6e−04	0.38	23 x 27	The space external to the outermost structure of a cell. For ce
12	Vitvi16g01071	−0.95	7e−04	0.38	18 x 30	Binding to ATP, adenosine 5'−triphosphate, a universally impo
13	Vitvi06g00607	−2.4	7e−04	0.38	36 x 36	Binding to a specific sequence of DNA that is part of a regula
14	Vitvi10g0133€	−1.63	7e−04	0.38	29 x 37	
15	Vitvi02g00017	−2.82	8e−04	0.38	36 x 40	The component of a membrane consisting of the gene produc
16	Vitvi11g0163€	−1.36	9e−04	0.38	21 x 27	Binding to ADP, adenosine 5'−diphosphate.
17	Vitvi11g0110€	−1.58	9e−04	0.38	17 x 29	A small, dense body one or more of which are present in the
18	Vitvi02g0014€	−1.56	9e−04	0.38	31 x 28	Catalysis of the reaction: 1−phosphatidyl−1D−myo−inositol +
19	Vitvi18g01967	−0.84	1e−03	0.38	15 x 33	The component of a membrane consisting of the gene produc
20	Vitvi04g0161€	−1.42	1e−03	0.38	32 x 27	Binding to ATP, adenosine 5'−triphosphate, a universally impo

p−values



Differentially expressed gene sets

Rank	GSZ	p−value	#all	Geneset
Overexpressed				
1	4.68	0e+00	140	Hormone signaling − Ethylene signaling
2	4.53	0e+00	73	Transcription factors − AP2 EREBP
3	4.5	0e+00	45	Galactose metabolism
4	4.16	0e+00	49	Transcription factors − NAC
5	3.79	1e−04	64	Transcription factors − Other transcription factors
6	3.58	4e−04	28	Transcription factors − Basic leucine zipper (bZIP)
7	3.4	9e−04	111	Hormone signaling − ABA signaling
8	3.36	1e−03	45	Valine leucine and isoleucine degradation
9	3.18	2e−03	58	Other amino acids metabolism − Glutathione metabolism
10	3.17	2e−03	26	Transcription factors − G2−like
11	3.11	2e−03	92	Lipid metabolism − Glycerolipid metabolism
12	2.98	3e−03	43	Transcription factors − BZIP
13	2.96	3e−03	35	Mitophagy factors
14	2.82	6e−03	77	Pores ion channels [TC:1]
15	2.8	6e−03	12	Transcription factors − Orphans zf−b box
16	2.78	6e−03	29	Other amino acids metabolism − Beta−alanine metabolism
17	2.72	8e−03	48	Transcription factors − WRKY
18	2.72	8e−03	17	Proteasome − Assembling factors
19	2.63	1e−02	33	alpha−Linolenic acid metabolism
20	2.62	1e−02	139	Spliceosome
Underexpressed				
1	−8.66	0e+00	206	Cell growth and death − Cell wall
2	−8.24	0e+00	18	Energy metabolism − Photosynthesis antenna proteins
3	−8.19	0e+00	18	Photosynthesis − antenna proteins
4	−8.04	0e+00	80	Cytoskeleton − Microtubules
5	−7.95	0e+00	47	Transporter catalog − Electron carriers
6	−7.78	0e+00	217	Cell motility − Regulation of actin cytoskeleton
7	−5.54	0e+00	24	Replication protein − DNA Replication Initiation Factors
8	−5.1	0e+00	19	Aquaporins and small neutral solute transporters [TC:1.A.8]
9	−4.99	0e+00	38	Photosynthesis
10	−4.81	0e+00	219	Cell growth and death − Cell cycle
11	−4.42	0e+00	10	Photosynthesis proteins − Photosystem I (P700 chlorophyll a)
12	−4.41	0e+00	66	Exosome − Exosomal proteins of bladder cancer cells
13	−4.36	0e+00	34	Peptidases and inhibitors − Family S10
14	−4.35	0e+00	78	Energy metabolism − Photosynthesis
15	−4.33	0e+00	41	Porphyrin metabolism
16	−4.32	0e+00	113	Exosome − Exosomal proteins of colorectal cancer cells
17	−4.28	0e+00	26	Steroid biosynthesis
18	−4.17	0e+00	10	Peptidases and inhibitors − Family A1: pepsin family
19	−3.86	8e−05	129	Enzyme − 3.2 Glycosylases
20	−3.85	8e−05	78	Glycosyltransferase − Structural polysaccharide

p−values