Sangio_freeze

Global Summary

%DE = NA

genes with fdr < 0.2 = 9609 (4833 + / 4776 −)

genes with fdr < 0.1 = 6209 (3124 + / 3085 −)

genes with fdr < 0.05 = 4490 (2270 + / 2220 −)

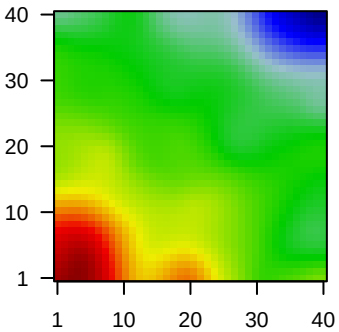
genes with fdr < 0.01 = 2499 (1204 + / 1295 −)

<FC> = 0

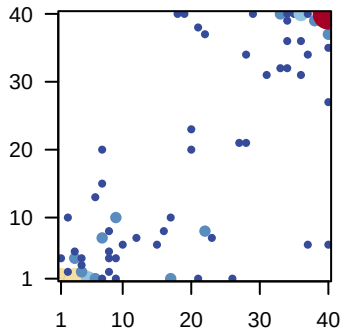
<p−value> = 0.01

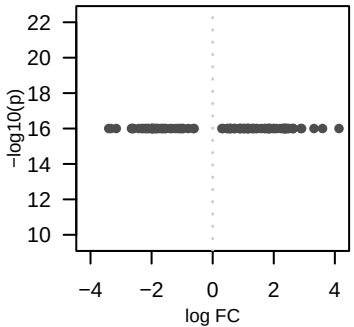
<fdr> = 0.32

Portrait



Top 100 DE genes





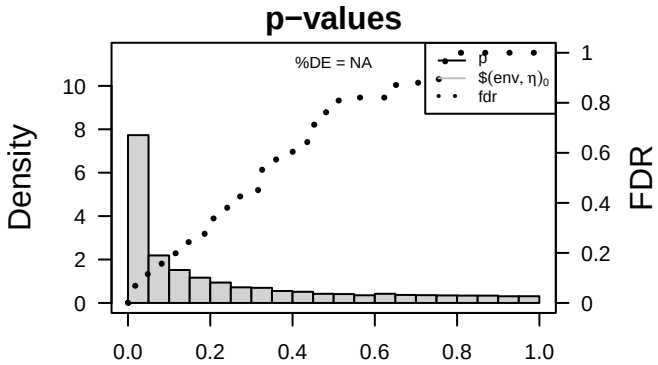
Differentially expressed genes

Rank	ID	log(FC)	p−value	fdr	Metagene	Description
Overexpressed						
1	Vitvi10g01230	0.73	1e−16	1e−14	7 x 15	Binding to a zinc ion (Zn).
2	Vitvi00g00111	0.48	1e−16	1e−14	22 x 8	
3	Vitvi07g02776	0.48	1e−16	1e−14	22 x 8	Binding to a protein.
4	Vitvi10g00459	2.49	1e−16	1e−14	4 x 2	
5	Vitvi00g01795	1.04	1e−16	1e−14	17 x 1	
6	Vitvi07g02735	1.04	1e−16	1e−14	17 x 1	
7	Vitvi00g01135	0.87	1e−16	1e−14	9 x 10	
8	Vitvi02g01826	0.87	1e−16	1e−14	9 x 10	
9	Vitvi01g00295	1.82	1e−16	1e−14	4 x 1	
10	Vitvi01g00317	2.64	1e−16	1e−14	1 x 1	The component of a membrane consisting of the gene produc
11	Vitvi01g00380	1.11	1e−16	1e−14	9 x 4	The contents of a cell excluding the plasma membrane and n
12	Vitvi01g01027	1.7	1e−16	1e−14	21 x 1	The component of a membrane consisting of the gene produc
13	Vitvi01g02029	2.22	1e−16	1e−14	6 x 1	
14	Vitvi01g01703	2.32	1e−16	1e−14	3 x 5	The component of a membrane consisting of the gene produc
15	Vitvi01g01777	1.16	1e−16	1e−14	9 x 1	
16	Vitvi02g00792	2.27	1e−16	1e−14	4 x 1	The chemical reactions and pathways involving carbohydrate
17	Vitvi02g00031	2.47	1e−16	1e−14	3 x 1	Binding to a metal ion.
18	Vitvi02g00429	2.34	1e−16	1e−14	2 x 1	
19	Vitvi02g00463	1.17	1e−16	1e−14	7 x 7	
20	Vitvi00g00236	2.41	1e−16	1e−14	1 x 1	
Underexpressed						
1	Vitvi01g01311	−1.04	1e−16	1e−14	31 x 31	The irregular network of unit membranes, visible only by elect
2	Vitvi01g00710	−2.66	1e−16	1e−14	40 x 40	The chemical reactions and pathways involving carbohydrate
3	Vitvi01g00631	−1.07	1e−16	1e−14	36 x 31	A process that is carried out at the cellular level which results
4	Vitvi01g01799	−2.29	1e−16	1e−14	40 x 40	Binding to a metal ion.
5	Vitvi02g01529	−0.99	1e−16	1e−14	34 x 36	Binding to a zinc ion (Zn).
6	Vitvi02g00022	−2.64	1e−16	1e−14	40 x 40	The chemical reactions and pathways involving carbohydrate
7	Vitvi03g01388	−3.16	1e−16	1e−14	40 x 40	
8	Vitvi03g00710	−1.15	1e−16	1e−14	28 x 21	Catalysis of the transfer of a methyl group to an acceptor mol
9	Vitvi03g01759	−1.97	1e−16	1e−14	40 x 39	The component of a membrane consisting of the gene produc
10	Vitvi04g00100	−0.61	1e−16	1e−14	21 x 38	
11	Vitvi04g00357	−2.31	1e−16	1e−14	40 x 6	
12	Vitvi04g00367	−1.74	1e−16	1e−14	40 x 37	Catalysis of a biochemical reaction at physiological temperatu
13	Vitvi04g00442	−3.33	1e−16	1e−14	40 x 40	A more or less rigid stucture lying outside the cell membrane
14	Vitvi04g00484	−0.8	1e−16	1e−14	28 x 34	Binding to a heme, a compound composed of iron complexed
15	Vitvi04g01475	−2.42	1e−16	1e−14	40 x 40	The component of a membrane consisting of the gene produc
16	Vitvi05g01366	−1.68	1e−16	1e−14	34 x 40	The chemical reactions and pathways involving carbohydrate
17	Vitvi06g00383	−2.11	1e−16	1e−14	36 x 40	Binding to ATP, adenosine 5'−triphosphate, a universally impo
18	Vitvi06g00801	−2.58	1e−16	1e−14	33 x 40	The component of a membrane consisting of the gene produc
19	Vitvi06g01057	−2.2	1e−16	1e−14	40 x 40	Binding to ATP, adenosine 5'−triphosphate, a universally impo
20	Vitvi06g01281	−1.96	1e−16	1e−14	36 x 40	Binding to a metal ion.

Differentially expressed gene sets

Rank	GSZ	p−value	#all	Geneset
Overexpressed				
1	7.13	0e+00	48	Transcription factors − WRKY
2	6.6	0e+00	45	Galactose metabolism
3	5.76	0e+00	49	Transcription factors − NAC
4	5.41	0e+00	162	Plant−pathogen interaction
5	4.61	0e+00	58	Glutathione metabolism
6	4.36	0e+00	77	Galactose metabolism
7	4.21	0e+00	153	Plant−pathogen interaction
8	4.1	0e+00	92	Glycerolipid metabolism
9	3.64	2e−04	51	Biosynthesis of secondary metabolites
10	3.64	2e−04	12	Class I
11	3.63	2e−04	42	Tryptophan metabolism
12	3.55	5e−04	77	Pores ion channels [TC:1]
13	3.54	5e−04	24	Tropane, piperidine and pyridine alkaloid biosynthesis
14	3.51	5e−04	80	Transporters − Tethering factors
15	3.47	6e−04	33	alpha−Linolenic acid metabolism
16	3.46	7e−04	34	Tyrosine metabolism
17	3.4	1e−03	140	Hormone signaling − Ethylene signaling
18	3.34	1e−03	17	Isoquinoline alkaloid biosynthesis
19	3.05	3e−03	26	Flavonoid biosynthesis
20	2.91	5e−03	71	Glutathione metabolism
Underexpressed				
1	−12.77	0e+00	18	Energy metabolism − Photosynthesis proteins
2	−12.03	0e+00	18	Photosynthesis proteins
3	−11.48	0e+00	47	Transporters − Electron carriers
4	−8.33	0e+00	38	Photosynthesis
5	−8.3	0e+00	80	Cytoskeleton − Microtubules
6	−8.28	0e+00	217	Cell motility − Regulation of cytoskeleton
7	−7.67	0e+00	78	Energy metabolism − Photosynthesis
8	−7.37	0e+00	10	Photosynthesis − Photosystem II (P700 chlorophyll a)
9	−7.15	0e+00	206	Cell growth and death − Cell wall
10	−6.2	0e+00	40	Transporters − Type I protein secretion pathway
11	−4.31	0e+00	219	Cell growth and death − Cell cycle
12	−4.28	0e+00	10	Peptidases and inhibitors − Aspartic peptidase family
13	−4.27	0e+00	41	Porphyrin metabolism
14	−3.93	0e+00	134	Hormone signaling − Auxin signaling
15	−3.93	0e+00	66	Exosome − Exosome proteins of breast cancer cells
16	−3.84	0e+00	19	Transcription factors − AUX/IAA
17	−3.81	0e+00	113	Exosome − Exosome proteins of colorectal cancer cells
18	−3.79	0e+00	26	Steroid biosynthesis
19	−3.78	0e+00	19	Aquaporin − Aquaporins [TC:1.A.8]
20	−3.56	5e−04	44	Hormone signaling − Cytokinin signaling

p−values



p−values