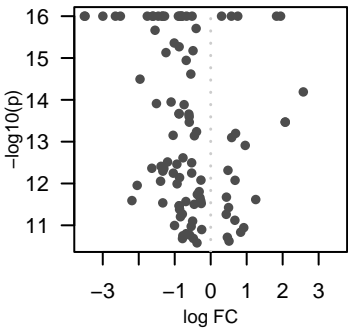
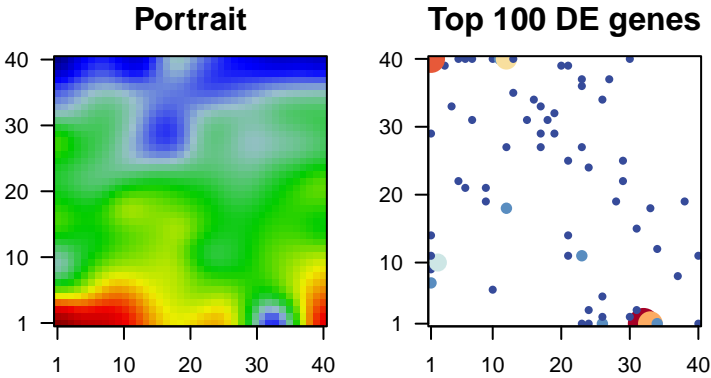


Tocai_freeze

Global Summary

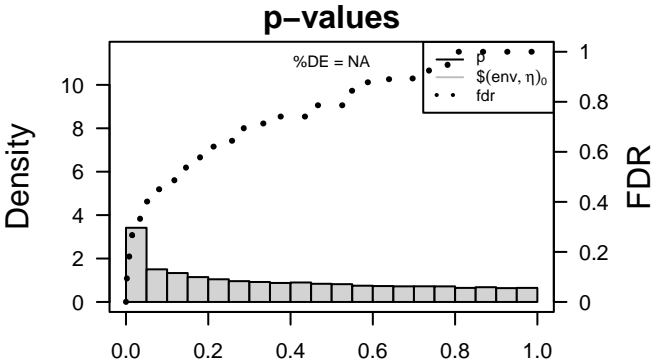
%DE = NA
genes with $\text{fdr} < 0.2$ = 1489 (626 + / 863 -)
genes with $\text{fdr} < 0.1$ = 1066 (429 + / 637 -)
genes with $\text{fdr} < 0.05$ = 851 (326 + / 525 -)
genes with $\text{fdr} < 0.01$ = 532 (177 + / 355 -)

<FC> = 0
<p-value> = 0.13
<fdr> = 0.65



Differentially expressed genes

Rank	ID	log(FC)	fdr	Description		
		p-value	Metagene			
Overexpressed						
1	Vitvi01g00524	0.3	1e-16	7e-13	31 x 15	The component of a membrane consisting of the gene product
2	Vitvi02g0042C	0.75	1e-16	7e-13	24 x 1	Catalysis of the reaction: acetoacetyl-CoA + acetyl-CoA + H ₂ O
3	Vitvi15g00172	1.83	1e-16	7e-13	1 x 29	The contents of a cell excluding the plasma membrane and nucleus
4	Vitvi17g0101E	1.94	1e-16	7e-13	40 x 11	A membrane-bounded organelle of eukaryotic cells in which
5	Vitvi18g0116E	0.57	1e-16	7e-13	33 x 18	
6	Vitvi03g0183E	2.57	6e-15	3e-11	40 x 1	A lipid bilayer along with all the proteins and protein complexes
7	Vitvi18g0338E	2.07	3e-14	4e-11	12 x 18	
8	Vitvi00g0023E	2.07	3e-14	4e-11	12 x 18	
9	Vitvi11g0078E	0.69	6e-14	1e-10	37 x 8	A lipid bilayer along with all the proteins and protein complexes
10	Vitvi09g00867	0.58	8e-14	5e-10	6 x 21	Binding to ADP, adenosine 5'-diphosphate.
11	Vitvi04g0175E	0.96	1e-13	5e-10	23 x 1	The component of a membrane consisting of the gene product
12	Vitvi10g0164E	0.48	5e-13	5e-10	26 x 2	
13	Vitvi13g0012E	0.68	8e-13	9e-10	26 x 1	Binding to a protein.
14	Vitvi19g0044E	0.44	2e-12	2e-09	34 x 12	The component of a membrane consisting of the gene product
15	Vitvi08g0231E	1.25	2e-12	2e-09	10 x 6	The division of a mitochondrion within a cell to form two or more
16	Vitvi14g0247E	0.5	4e-12	5e-09	26 x 1	The protein complexes that form the mitochondrial electron trans
17	Vitvi06g0012E	0.43	5e-12	9e-09	26 x 5	
18	Vitvi19g0166E	0.67	8e-12	1e-08	24 x 3	A membrane-bounded organelle of eukaryotic cells in which
19	Vitvi07g0156E	0.92	1e-11	1e-08	21 x 14	
20	Vitvi16g0196E	0.83	1e-11	1e-08	9 x 19	Binding to ATP, adenosine 5'-triphosphate, a universally important
Underexpressed						
1	Vitvi07g0260E	-2.65	1e-16	7e-13	34 x 1	
2	Vitvi03g01127	-3.51	1e-16	7e-13	33 x 1	The component of a membrane consisting of the gene product
3	Vitvi03g00471	-0.67	1e-16	7e-13	11 x 40	Catalysis of the hydrolysis of ester linkages within nucleic acid
4	Vitvi05g0174E	-0.79	1e-16	7e-13	11 x 40	Catalysis of a biochemical reaction at physiological temperature
5	Vitvi06g00707	-1.35	1e-16	7e-13	1 x 40	Binding to a protein.
6	Vitvi06g0114E	-0.82	1e-16	7e-13	7 x 40	The binding activity of a molecule that brings together two or more
7	Vitvi07g0158E	-3	1e-16	7e-13	33 x 1	
8	Vitvi09g0047E	-1.34	1e-16	7e-13	1 x 40	
9	Vitvi09g0108E	-0.9	1e-16	7e-13	12 x 40	The component of a membrane consisting of the gene product
10	Vitvi09g0193C	-1.76	1e-16	7e-13	32 x 1	
11	Vitvi12g0215E	-1.6	1e-16	7e-13	33 x 1	
12	Vitvi13g02014	-1.28	1e-16	7e-13	1 x 40	Any process that results in a change in state or activity of a cell
13	Vitvi13g0235E	-0.87	1e-16	7e-13	30 x 2	The chemical reactions and pathways resulting in the formation
14	Vitvi16g01877	-1.62	1e-16	7e-13	32 x 1	The component of a membrane consisting of the gene product
15	Vitvi16g0194E	-2.51	1e-16	7e-13	32 x 1	
16	Vitvi16g0115E	-3.49	1e-16	7e-13	32 x 1	
17	Vitvi17g01034	-0.52	1e-16	7e-13	23 x 36	The part of the cytoplasm that does not contain organelles but
18	Vitvi18g02374	-0.82	1e-16	7e-13	31 x 1	
19	Vitvi19g0220E	-1.46	1e-16	7e-13	32 x 1	A lipid bilayer along with all the proteins and protein complexes
20	Vitvi17g00794	-0.4	2e-16	7e-13	4 x 33	Binding to ATP, adenosine 5'-triphosphate, a universally important



Differentially expressed gene sets

Rank	GSZ	p-value	#all	Geneset
Overexpressed				
1	7.33	0e+00	73	Transcription factor binding site (TFBS) - EREBP
2	5.82	0e+00	64	Transcription factor binding site (TFBS) - GTF1A
3	5.41	0e+00	140	Hormone signaling pathway - G-protein coupled receptor (GPCR) signaling
4	4.76	0e+00	153	Plant-pathogen interaction - Plant-pathogen interaction
5	3.88	0e+00	48	Transcription factor binding site (TFBS) - WRKY
6	3.72	2e-04	17	Proteasome assembly - Proteasome assembly
7	3.71	2e-04	26	Flavonoid biosynthesis - Flavonoid biosynthesis
8	3.69	2e-04	49	Transcription factor binding site (TFBS) - NAC
9	3.62	4e-04	38	Protein - Chaperone - Chaperone - Chaperone (CMA)
10	3.25	2e-03	162	Plant species-specific signaling pathway - Plant species-specific signaling pathway
11	3.17	2e-03	26	Transcription factor binding site (TFBS) - G2-like
12	3.17	2e-03	15	Chaperone - Chaperone - Chaperone - Chaperone (CMA)
13	3.17	2e-03	92	Lipid metabolism - Lipid metabolism
14	3.01	4e-03	71	Exosome - Exosome - Exosome - Exosome
15	2.95	4e-03	15	Stillbenoid - Stillbenoid - Stillbenoid - Stillbenoid
16	2.94	4e-03	28	Transcription factor binding site (TFBS) - bZIP
17	2.78	6e-03	12	Endoplasmic reticulum - Endoplasmic reticulum
18	2.73	8e-03	44	Energy metabolism - Energy metabolism
19	2.62	1e-02	43	Transcription factor binding site (TFBS) - bZIP
20	2.49	1e-02	44	Ascorbate - Ascorbate - Ascorbate - Ascorbate
Underexpressed				
1	-5.41	0e+00	18	Energy metabolism - Energy metabolism
2	-5.36	0e+00	18	Photosynthesis - Photosynthesis
3	-4.25	0e+00	47	Transporter - Transporter - Transporter - Transporter
4	-3.56	5e-04	13	Colic acid - Colic acid - Colic acid - Colic acid
5	-3.41	1e-03	101	Starch and sucrose metabolism - Starch and sucrose metabolism
6	-3.32	1e-03	21	Thiamine - Thiamine - Thiamine - Thiamine
7	-3.26	2e-03	24	Replication - Replication - Replication - Replication
8	-3.21	2e-03	41	Replication - Replication - Replication - Replication
9	-3.21	2e-03	219	Cell growth - Cell growth - Cell growth - Cell growth
10	-3.16	2e-03	24	Enzyme - Enzyme - Enzyme - Enzyme
11	-2.97	4e-03	62	Ribosome - Ribosome - Ribosome - Ribosome
12	-2.92	5e-03	26	Steroid biosynthesis - Steroid biosynthesis
13	-2.89	5e-03	28	Transcription factor binding site (TFBS) - MTERF
14	-2.83	6e-03	217	Cell motility - Cell motility - Cell motility - Cell motility
15	-2.8	6e-03	223	Enzyme - Enzyme - Enzyme - Enzyme
16	-2.78	6e-03	44	Hormone signaling pathway - Hormone signaling pathway
17	-2.77	7e-03	66	Exosome - Exosome - Exosome - Exosome
18	-2.75	7e-03	11	Transcription factor binding site (TFBS) - GRF
19	-2.67	8e-03	51	Plant species-specific signaling pathway - Plant species-specific signaling pathway
20	-2.67	8e-03	100	Plant species-specific signaling pathway - Plant species-specific signaling pathway

