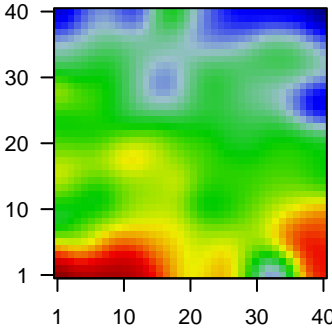


Tocai\_freeze\_r3

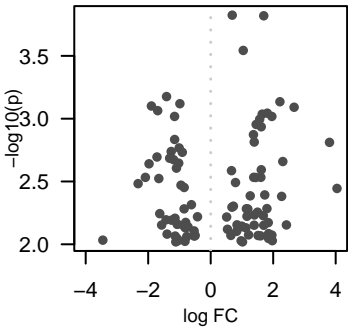
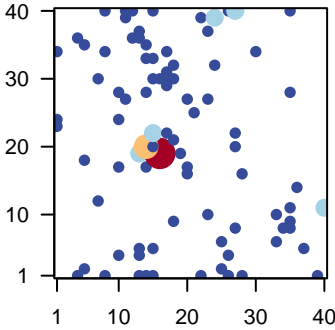
Global Summary

%DE = 0.11  
# genes with fdr < 0.2 = 0 ( 0 + / 0 - )  
# genes with fdr < 0.1 = 0 ( 0 + / 0 - )  
# genes with fdr < 0.05 = 0 ( 0 + / 0 - )  
# genes with fdr < 0.01 = 0 ( 0 + / 0 - )  
  
<FC> = 0  
<p-value> = 0.37  
<fdr> = 0.89

Portrait



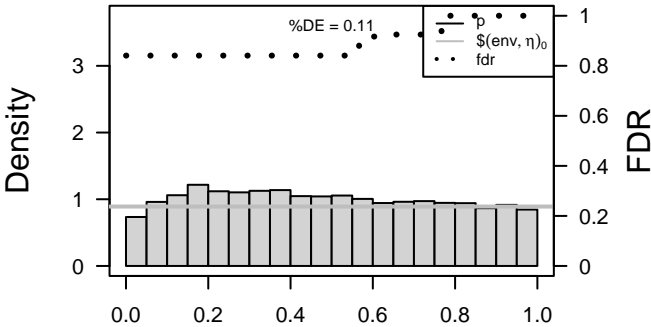
Top 100 DE genes



Differentially expressed genes

Rank	ID	log(FC)	fdr	Description		
		p-value		Metagene		
Overexpressed						
1	Vitv06g01644	0.69	1e-04	0.8	18 x 21	Catalysis of an oxidation-reduction (redox) reaction in which
2	Vitv04g0028E	1.7	2e-04	0.8	33 x 6	The component of a membrane consisting of the gene produc
3	Vitv05g0212C	1.04	3e-04	0.8	33 x 10	Catalysis of the transfer of a glycosyl group from a UDP-suga
4	Vitv01g00331	2.21	7e-04	0.8	25 x 6	The directed movement of lipids into, out of or within a cell, or
5	Vitv09g01537	2.67	8e-04	0.8	39 x 1	
6	Vitv10g0161E	1.81	9e-04	0.8	35 x 9	
7	Vitv10g00631	1.65	9e-04	0.8	14 x 20	
8	Vitv03g0050E	1.96	1e-03	0.8	14 x 1	Binding to a heme, a compound composed of iron complexed
9	Vitv10g0188C	1.57	1e-03	0.8	15 x 20	The component of a membrane consisting of the gene produc
10	Vitv07g0211C	1.45	1e-03	0.8	13 x 19	
11	Vitv06g0064E	1.62	1e-03	0.8	35 x 11	The process in which a signal is passed on to downstream cc
12	Vitv10g00561	1.37	1e-03	0.8	5 x 18	The chemical reactions and pathways involving lipids, compo
13	Vitv04g0143C	1.39	2e-03	0.8	15 x 5	A membrane-bound organelle of eukaryotic cells in which
14	Vitv14g00157	3.8	2e-03	0.8	5 x 2	Binding to a protein.
15	Vitv08g0138C	2.31	2e-03	0.8	26 x 1	
16	Vitv18g0297E	1.62	3e-03	0.8	16 x 19	
17	Vitv15g0007E	0.67	3e-03	0.8	19 x 19	
18	Vitv04g0206Z	1.6	3e-03	0.8	30 x 34	Growth of pollen via tip extension of the intine wall.
19	Vitv17g0145A	1.38	3e-03	0.8	40 x 11	A lipid bilayer along with all the proteins and protein comple
20	Vitv16g0133E	1.44	3e-03	0.8	13 x 4	The component of a membrane consisting of the gene produc
Underexpressed						
1	Vitv11g0037E	-1.41	7e-04	0.8	11 x 27	Catalysis of the hydrolysis of various bonds, e.g. C-O, C-N, (
2	Vitv06g0176C	-0.99	8e-04	0.8	12 x 36	
3	Vitv18g0272E	-1.9	8e-04	0.8	7 x 12	Catalysis of the transfer of a group, e.g. a methyl group, glyco
4	Vitv19g0011E	-1.7	9e-04	0.8	26 x 40	The process resulting in division and partitioning of compo
5	Vitv03g01081	-1.16	1e-03	0.8	8 x 34	Reactions, triggered in response to the presence of a foreign
6	Vitv06g0077Z	-1.15	1e-03	0.8	14 x 28	Binding to a protein.
7	Vitv03g0059E	-1.01	2e-03	0.8	17 x 31	Binding to a protein.
8	Vitv18g0015E	-1.26	2e-03	0.8	15 x 30	Binding to a calcium ion (Ca2+).
9	Vitv11g0044E	-0.91	2e-03	0.8	1 x 24	Binding to a protein.
10	Vitv16g0178E	-1.72	2e-03	0.8	18 x 32	
11	Vitv11g0138E	-1.31	2e-03	0.8	4 x 36	The component of a membrane consisting of the gene produc
12	Vitv06g0061E	-1.19	2e-03	0.8	14 x 35	Catalysis of an oxidation-reduction (redox) reaction, a reversi
13	Vitv00g0087C	-1.02	2e-03	0.8	17 x 29	
14	Vitv10g0057C	-1.97	2e-03	0.8	11 x 40	
15	Vitv14g0245Z	-1.1	2e-03	0.8	27 x 20	Binding to a metal ion.
16	Vitv16g01407	-2.09	3e-03	0.8	15 x 40	Binding to ATP, adenosine 5'-triphosphate, a universally impc
17	Vitv13g0207C	-1.66	3e-03	0.8	1 x 23	Binding to GTP, guanosine triphosphate.
18	Vitv11g0120E	-2.32	3e-03	0.8	27 x 40	The component of a membrane consisting of the gene produc
19	Vitv10g0045E	-0.95	3e-03	0.8	13 x 37	The component of a membrane consisting of the gene produc
20	Vitv03g0124Z	-0.85	4e-03	0.8	16 x 30	Binding to a protein.

p-values



Differentially expressed gene sets

Rank	GSZ	p-value	#all	Geneset
Overexpressed				
1	5.43	0e+00	73	Transcription factor AP2/ERF2 ERF2
2	5.37	0e+00	64	Transcription factor GTPase GTPase factors
3	4.63	0e+00	17	Proteasome Assembly factors
4	4.61	0e+00	38	Protein - Chaperone mediated autophagy (CMA)
5	4.42	0e+00	49	Transcription factor NACs - NAC
6	4.3	0e+00	71	Exosome Proteins - Proteins fast exosomes
7	4.27	0e+00	15	Chaperone HSP70 - DSKO / DNAK
8	3.98	0e+00	140	Hormone signaling signaling signaling
9	3.88	8e-05	153	Plant-pathogen interaction
10	3.8	1e-04	12	Endoplasmic reticulum membrane cytosol
11	3.78	1e-04	26	Transcription factor G2like- G2-like
12	3.59	4e-04	10	SLC39: Metal Ion Transporter
13	3.5	7e-04	13	Peptidase and its inhibitors Family C Family C
14	3.34	1e-03	48	Transcription factor WRKY - WRKY
15	3.3	1e-03	51	Carbon fixation in photosynthetic organisms
16	3.18	2e-03	111	Hormone signaling signaling signaling
17	2.78	6e-03	108	Carbohydrate metabolism Glycolysis
18	2.77	7e-03	28	Transcription factor Basic leucine zipper (bZIP)
19	2.55	1e-02	92	Lipid metabolism Glycolysis
20	2.54	1e-02	44	Energy metabolism Nitrogen Metabolism
Underexpressed				
1	-8.08	0e+00	18	Photosynthesis proteins
2	-8.08	0e+00	18	Energy metabolism Photosynthesis proteins
3	-7.78	0e+00	219	Cell growth and division Cell cycle
4	-6.62	0e+00	24	Replication DNA Replication Factors
5	-5.79	0e+00	41	Replication DNA Replication
6	-5.65	0e+00	36	DNA replication
7	-5.44	0e+00	47	Transport carrier Transport carriers
8	-4.58	0e+00	11	Transcription factor GRF - GRF
9	-4.33	0e+00	80	Cytoskeleton Microtubules
10	-4.11	0e+00	39	Pentose Phosphate and Glucose conversions
11	-3.99	0e+00	217	Cell motility Regulation of cytoskeleton
12	-3.74	1e-04	10	Photosynthesis Photosynthesis
13	-3.33	1e-03	37	Homologous recombination
14	-3.29	1e-03	26	Steroid biosynthesis
15	-3.22	1e-03	28	Transcription factor MTERF - MTERF
16	-3.17	2e-03	38	Photosynthesis
17	-2.92	4e-03	129	Enzyme - Enzyme - Enzyme
18	-2.89	4e-03	195	Carbohydrate metabolism Starch and starch metabolism
19	-2.75	7e-03	22	Replication DNA Replication
20	-2.66	9e-03	34	Peptidase and its inhibitors Family S10

p-values

