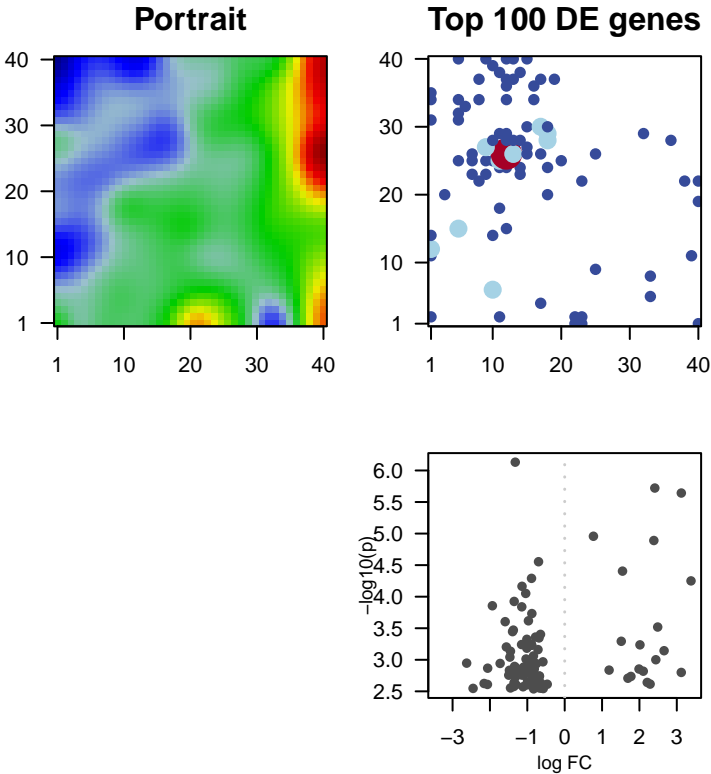


Tocai_freeze_r1

Global Summary

%DE = 0.15
genes with $\text{fdr} < 0.2 = 9 \text{ (6 + / 3 -)}$
genes with $\text{fdr} < 0.1 = 4 \text{ (3 + / 1 -)}$
genes with $\text{fdr} < 0.05 = 2 \text{ (1 + / 1 -)}$
genes with $\text{fdr} < 0.01 = 0 \text{ (0 + / 0 -)}$

<FC> = 0
<p-value> = 0.33
<fdr> = 0.85



Differentially expressed genes

Rank	log(FC)	fdr	Description
ID	p-value	Metagene	
Overexpressed			
1	Vitv10g0187E	2.41	2e-06 0.01 17 x 4
2	Vitv06g01454	3.12	2e-06 0.08 10 x 6 The component of a membrane consisting of the gene product
3	Vitv11g0015E	0.77	1e-05 0.08 18 x 20 A membrane-bound organelle of eukaryotic cells in which
4	Vitv13g0167E	2.39	1e-05 0.17 40 x 1 Catalysis of an oxidation-reduction (redox) reaction, a reversi
5	Vitv07g01961	1.55	4e-05 0.17 12 x 15 The component of a membrane consisting of the gene product
6	Vitv05g0064C	3.38	6e-05 0.19 11 x 2 The formation of a protein dimer, a macromolecular structure
7	Vitv04g0193E	2.49	3e-04 0.43 23 x 1 Catalysis of the hydrolysis of internal, alpha-peptide bonds in
8	Vitv18g0123E	1.51	5e-04 0.43 39 x 11 A cellular process that results in the biosynthesis of constitue
9	Vitv11g0011E	2.01	6e-04 0.43 22 x 2
10	Vitv01g0028E	2.66	7e-04 0.43 40 x 22 The process in which a methyl group is covalently attached to
11	Vitv05g0047E	2.44	1e-03 0.43 10 x 6
12	Vitv12g02307	1.99	1e-03 0.43 11 x 18 The formation of a protein dimer, a macromolecular structure
13	Vitv05g0024E	1.19	1e-03 0.43 32 x 29 Binding to a metal ion.
14	Vitv03g00217	2.1	2e-03 0.43 23 x 2 Catalysis of an oxidation-reduction (redox) reaction, a reversi
15	Vitv18g0042E	3.12	2e-03 0.43 1 x 2 That part of a multicellular organism outside the cells proper,
16	Vitv12g0141E	1.77	2e-03 0.43 36 x 28
17	Vitv13g0032E	1.69	2e-03 0.62 40 x 19 The cell membranes and intracellular regions in a plant are co
18	Vitv19g0210C	2.21	2e-03 0.62 38 x 22 Binding to a metal ion.
19	Vitv11g0141E	2.29	2e-03 0.62 22 x 1 A membrane-bound organelle of eukaryotic cells in which
20	Vitv02g0072E	0.65	3e-03 0.63 16 x 18 The component of a membrane consisting of the gene product
Underexpressed			
1	Vitv08g0154E	-1.32	7e-07 0.01 11 x 25 Binding to a protein.
2	Vitv13g01571	-0.7	3e-05 0.17 20 x 25 An thiol-dependent isopeptidase activity that cleaves ubiquitin
3	Vitv07g0046E	-0.89	5e-05 0.17 13 x 37 Binding to a protein.
4	Vitv19g0189E	-1.14	7e-05 0.29 15 x 30 Catalysis of an oxidation-reduction (redox) reaction, a reversi
5	Vitv12g02534	-1.04	9e-05 0.29 5 x 25 The component of a membrane consisting of the gene product
6	Vitv04g0008E	-1.35	1e-04 0.29 7 x 26 A membrane-bound organelle of eukaryotic cells in which
7	Vitv06g0036E	-1.94	1e-04 0.29 18 x 30 A conserved series of molecular signals found in prokaryotes
8	Vitv01g01664	-1.15	1e-04 0.43 5 x 32
9	Vitv13g01841	-0.88	2e-04 0.43 9 x 27 A membrane-bound organelle of eukaryotic cells in which
10	Vitv17g00864	-0.97	2e-04 0.43 12 x 24 A lipid bilayer along with all the proteins and protein complex
11	Vitv18g00231	-1.59	2e-04 0.43 5 x 15 Binding to ATP, adenosine 5'-triphosphate, a universally impo
12	Vitv01g00354	-1.37	3e-04 0.43 9 x 23 A lipid bilayer along with all the proteins and protein complex
13	Vitv05g0032E	-1.39	4e-04 0.43 10 x 39 Binding to a zinc ion (Zn).
14	Vitv02g00201	-0.65	4e-04 0.43 23 x 22 The process in which one or more ubiquitin groups are added
15	Vitv07g0241E	-0.78	4e-04 0.43 18 x 24 A membrane-bound organelle of eukaryotic cells in which
16	Vitv14g01807	-0.69	5e-04 0.43 12 x 29 Catalysis of the hydrolysis of internal, alpha-peptide bonds in
17	Vitv13g0006E	-1.01	5e-04 0.43 14 x 28 A ubiquitin ligase complex that degrades mitotic cyclins and a
18	Vitv03g0077E	-0.89	6e-04 0.43 11 x 24 Binding to a zinc ion (Zn).
19	Vitv10g00094	-1.15	6e-04 0.43 13 x 40 Catalysis of the transfer of a glycosyl group from one compou
20	Vitv13g0139E	-0.88	6e-04 0.43 11 x 25 Binding to a heme, a compound composed of iron complexed

Differentially expressed gene sets

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	9.26	0	80	CytoskeletonMicrotubuleMicrotubules
2	7.4	0	206	Cell growth and divisionCell wallCell wall
3	7.13	0	217	Cell motilityCell motilityCell motility
4	6.18	0	18	PhotosynthesisPhotosynthesisPhotosynthesis
5	6.18	0	219	Cell growth and divisionCell cycleCell cycle
6	6.18	0	211	RibosomeRibosomeRibosome
7	6.15	0	18	Energy metabolismPhotosynthesisPhotosynthesis
8	5.83	0	24	ReplicationDNA replicationDNA replication
9	5.82	0	78	Energy metabolismPhotosynthesisPhotosynthesis
10	5.79	0	47	TransportTransportTransport
11	5.69	0	26	Flavonoid biosynthesisFlavonoid biosynthesis
12	5.32	0	247	TranslationTranslationTranslation
13	5.2	0	73	TranscriptionTranscriptionTranscription
14	4.75	0	39	Pentose phosphate cyclePentose phosphate cycle
15	4.51	0	144	RibosomeRibosomeRibosome
16	4.48	0	67	RibosomeRibosomeRibosome
17	4.36	0	40	TransportTransportTransport
18	4.2	0	36	DNA replicationDNA replication
19	4.19	0	38	PhotosynthesisPhotosynthesis
20	4.04	0	153	Plant-pathogen interactionPlant-pathogen interaction
<i>Underexpressed</i>				
1	-5.35	0e+00	116	RibosomeRibosomeRibosome
2	-5.34	0e+00	62	RibosomeRibosomeRibosome
3	-4.43	0e+00	75	TranslationTranslationTranslation
4	-4.16	0e+00	151	RNA polymerase II systemRNA polymerase II system
5	-4	0e+00	64	RibosomeRibosomeRibosome
6	-3.83	8e-05	11	BiosynthesisBiosynthesisBiosynthesis
7	-3.81	1e-04	165	TranscriptionTranscriptionTranscription
8	-3.8	1e-04	51	Plant specialisationPlant specialisation
9	-3.39	9e-04	146	TransportTransportTransport
10	-3.14	2e-03	27	EnzymeEnzymeEnzyme
11	-3.1	2e-03	32	Circadian rhythmCircadian rhythm
12	-2.96	3e-03	36	RibosomeRibosomeRibosome
13	-2.82	6e-03	99	mRNA surveillance pathwaymRNA surveillance pathway
14	-2.82	6e-03	27	Regulation of cell growthRegulation of cell growth
15	-2.81	6e-03	115	EnzymeEnzymeEnzyme
16	-2.77	7e-03	67	ReplicationDNA replicationDNA replication
17	-2.73	8e-03	139	SpliceosomeSpliceosomeSpliceosome
18	-2.73	8e-03	128	Ubiquitin systemUbiquitin system
19	-2.72	8e-03	85	Nucleocytoplasmic transportNucleocytoplasmic transport
20	-2.72	8e-03	26	TranscriptionTranscriptionTranscription

