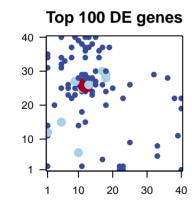
Tocai_freeze_r1

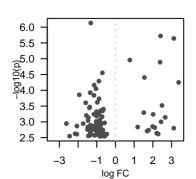
Global Summary

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

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

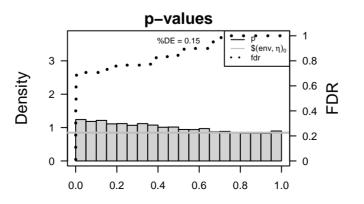
Portrait 40 30 20 10 10 20 30





Differentially expressed genes

Rank ID		log(FC) fdr p-value		Description Metagene		Rank	GSZ	p-value	#all	Geneset		
Overexpressed								Overexp	ressed			
	1	Vitvi10g01879	2.41	2e-06	0.01	17 x 4		1	9.26	0	80	Cytoskele@ontosk
	2	Vitvi06g01454	3.12	2e-06	0.08	10 x 6			7.4	0	206	Cell growtDealingth
3 4 5 6 7 8 9 10 11 12 13 14 15 17 18		Vitvi11g00155	0.77	1e-05	0.08	18 x 20			7.13	0	217	Cell motilificell in
		Vitvi13g01673	2.39	1e-05	0.17	40 x 1			6.18	0	18	PhotosyntPleasies
		Vitvi07g01961	1.55	4e-05	0.17	12 x 15	The component of a membrane consisting of the gene produc	5	6.18	0	219	Cell growtDealingth
		Vitvi05g00640	3.38	6e-05	0.19	11 x 2	The formation of a protein dimer, a macromolecular structure	6	6.18	0	211	RibosomeRiboso
		Vitvi04g01935	2.49	3e-04	0.43	23 x 1	Catalysis of the hydrolysis of internal, alpha-peptide bonds in	7	6.15	0	18	Energy mletæbroglj
		Vitvi18g01232	1.51	5e-04	0.43	39 x 11	The process in which a methyl group is covalently attached to The formation of a protein dimer, a macromolecular structure Binding to a metal ion.		5.83	0	24	Replication
		Vitvi11g00116	2.01	6e-04	0.43	22 x 2			5.82	0	78	Energy m Etæbrgl j
	10	Vitvi01g00286	2.66	7e-04	0.43	40 x 22			5.79	0	47	Transport@racestp
	11	Vitvi05g00475	2.44	1e-03	0.43	10 x 6			5.69	0	26	Flavonoid Ptravsyn
	12	Vitvi12g02307	1.99	1e-03	0.43	11 x 18			5.32	0	247	Translatio Tran Bit
	13	Vitvi05g00242	1.19	1e-03	0.43	32 x 29			5.2	0	73	TranscriptToanfac
	14	Vitvi03g00217	2.1	2e-03	0.43	23 x 2			4.75	0	39	Pentose aPrechtgles
	15	Vitvi18g00425	3.12	2e-03	0.43	1 x 2			4.51	0	144	RibosomeRibEste
	16	Vitvi12g01416	1.77	2e-03	0.43	36 x 28	-	16	4.48	0	67	RibosomeRibBar
	17	Vitvi13g00322	1.69	2e-03	0.62	40 x 19	The cell membranes and intracellular regions in a plant are co		4.36	0	40	Transport Tspastep
	18	Vitvi19q02100		2e-03	0.62	38 x 22	Binding to a metal ion.	17 18	4.2	0	36	DNA repli Dati Aome
	19	Vitvi11g01415	2.29	2e-03	0.62	22 x 1	A membrane–bounded organelle of eukaryotic cells in which The component of a membrane consisting of the gene produc		4.19	0	38	Photosyn tPleasis s
	20	Vitvi02g00723	0.65	3e-03	0.63	16 x 18			4.04	0	153	Plant-pathbagetn
		dorayaraaad						Underexpressed				
		erexpressed				The state of the s						
	1	Vitvi08g01542	-1.32	7e-07	0.01	11 x 25	5 An thiol-dependent isopeptidase activity that cleaves ubiquitil 7 Binding to a protein. 0 Catalysis of an oxidation-reduction (redox) reaction, a reversi The component of a membrane consisting of the gene produc A membrane-bounded organelle of eukaryotic cells in which 0 A conserved series of molecular signals found in prokaryotes A membrane-bounded organelle of eukaryotic cells in which 4 A lipid bilayer along with all the proteins and protein complexe		-5.35	0e+00	116	Ribosome Ritiose
3		Vitvi13g01571	-0.7	3e-05	0.17	20 x 25			-5.34	0e+00	62	RibosomeRitioge
		Vitvi07g00463	-0.89	5e-05	0.17	13 x 37			-4.43	0e+00	75	Translatio Translatio
	4	Vitvi19g01899	-1.14	7e-05	0.29	15 x 30			-4.16	0e+00	151	RNA polyRinAap
4 5 6 7	5	Vitvi12g02534 Vitvi04g00085	-1.04 -1.35	9e-05 1e-04	0.29	5 x 25 7 x 26			-4 -3.83	0e+00 8e-05	64	RibosomeRitioge BiosyntheBiosym
	9	Vitvi04g00068 Vitvi06g00368	-1.94	1e-04	0.29	18 x 30			-3.81	1e-04	11 165	Transcriptions 6
	8	Vitvi01g01664	-1.15	1e-04	0.43	5 x 32			-3.8	1e-04 1e-04	51	Plant spelliantis
	9	Vitvi13q01841	-0.88	2e-04	0.43	9 x 27			-3.39	9e-04	146	Transporterares
10		Vitvi17g00864	-0.97	2e-04 2e-04	0.43	12 x 24			-3.14	2e-03	27	Enzyme -E2bz6ym
	11		-1.59	2e-04	0.43	5 x 15			-3.1	2e-03	32	Circadian@hrethoh
	12	Vitvi01g00354	-1.37	3e-04	0.43	9 x 23	A lipid bilayer along with all the proteins and protein complexe	11 12	-2.96	3e-03	36	Ribosome Ritiose
1	13	Vitvi05g00326	-1.39	4e-04	0.43	10 x 39			-2.82	6e-03	99	mRNA sumv@iNah
	14	Vitvi02g00201	-0.65	4e-04	0.43	23 x 22	The process in which one or more ubiquitin groups are added	13 14	-2.82	6e-03	27	RegulatorRefgralt
	15	Vitvi07g02415	-0.78	4e-04	0.43	18 x 24	A membrane-bounded organelle of eukaryotic cells in which	15	-2.81	6e-03	115	Enzyme -E8as6yn4
	16	Vitvi14g01807	-0.69	5e-04	0.43	12 x 29	Catalysis of the hydrolysis of internal, alpha-peptide bonds in		-2.77	7e-03	67	Replication
	17	Vitvi13g00069	-1.01	5e-04	0.43	14 x 28			-2.73	8e-03	139	Spliceoso@meticeo
	18	Vitvi03g00775	-0.89	6e-04	0.43	11 x 24	Binding to a zinc ion (Zn).	18	-2.73	8e-03	128	Ubiquitin Ыжітел і



Vitvi10g00094 -1.15 6e-04 0.43 13 x 40 Catalysis of the transfer of a glycosyl group from one compou

11 x 25 Binding to a heme, a compound composed of iron complexed

6e-04 0.43

Differentially expressed gene sets

Overe	xpressed			
1	9.26	0	80	Cytoskele@ynoskeletotubulkisrotubules
2	7.4	0	206	Cell growtDedingtrodwiththandOeddathall-Cell wall
3	7.13	0	217	Cell motilityell in etyliutyation etylialatiion eyutoaktiine teyntoskeleton
4				District District Control of the Con

4	6.18	0	18	Photosyn Placatios syrathtesia a-paroteims a proteins			
5	6.18	0	219	Cell growtDedingtrodeththandOddlathicleCell cycle			
6	6.18	0	211	RibosomeRibosome			
7	6.15	0	18	Energy mietaebrglijsmetalBhötstasynfPleasiosaymtiehresäspanoteimaa protei			
8	5.83	0	24	Replication Republication Political Republication Factorism Factor			
9	5.82	0	78	Energy metabolismetaBhitismsynPlacificsynthesis			
10	5.79	0	47	Transport@raratalorger-datatelogort@etersportoalerieron carriers			
11	5.69	0	26	Flavonoid Flavosynutidelsios synthesis			
12	5.32	0	247	Translatio TranslatisomeRibosome			
13	5.2	0	73	Transcription faction factors REBP2 EREBP			
14	4.75	0	39	Pentose afrechtgliseumodagleuinternoarteventeenosinversions			
15	4.51	0	144	RibosomeRib EsakaneyeteSukaryotes			
16	4.48	0	67	RibosomeRibBanteeia-Bacteria			
17	4.36	0	40	Transport Transport Stylesterkoid Titaydaktionid partyrentiang pathway			
18	4.2	0	36	DNA replication			
19	4.19	0	38	Photosyn Pleasissynthesis			
20	4.04	0	153	Plant-pathlagenpiathagenininteraction			
Underexpressed							
1	-5.35	0e+00	116	RibosomeRitiogenesisieg@rees60S Paetid@S particles			

	-5.34	0e+00	62	Ribosomeruu ogen eesisi egen espaini sies particles
	-4.43	0e+00	75	Translatio Translatiosome Ritiogenes isi ong Eneksis y ortesukaryotes
	-4.16	0e+00	151	RNA poly RNAAsellynsysteme II system
	-4	0e+00	64	RibosomeRibiosemesisiongeneaisyonesukaryotes
	-3.83	8e-05	11	BiosyntheBiosylntheesischafraeroetadaruljsmetaAbBlAstriosylnthAetsiosynthesis
	-3.81	1e-04	165	Transcriptions Siphtons Sophice osome
	-3.8	1e-04	51	Plant spe Ellänsignedifig sig Ciadiandian Chrytholi an rhythm
	-3.39	9e-04	146	Transport@ranaspaluntger-@atalogs-calto/Titters/Cat 7 to 17
0	-3.14	2e-03	27	Enzyme -E2026/mTeans266/rinTeanistegengooistrggengous groups
Ĭ	-3.1	2e-03	32	Circadian Circatrolian phythm - plant

3e-03 36 RibosomeRitiosenesisieo@nesitoS Paetidl@S particles 6e-03 mRNA sumwiRiNanserpailhawaye pathway RegulatorRefgaltatohon dritatidhon elnies isiogenesis 6e-03 27 Enzyme -E826/nAeting.6n/actidgatohyalcideanhydrides 6e-03 115 Replication Replication Replication 8e-03 139 Spliceosomeiceosome Ubiquitin sylpiteritin sylpiter Ringin fileg Birtyp fire E3

Nucleocytoplasoviytoplaspoirt transport

TranscriptToamfactipition Carphaens EARSEFAR-RED -2.72

-2.72

8e-03

