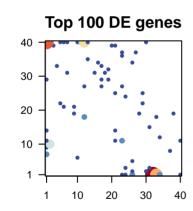
Tocai_freeze

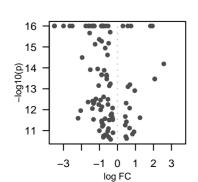
Global Summary

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

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

Portrait 40 30 20 · 10 10 20 30





Differentially expressed genes

n_value

7e-13 32 x 1

7e-13 32 x 1

7e-13 23 x 36

7e-13 31 x 1

1e-16

1e-16

1e-16

1e-16

1e-16

1e-16

2e-16

Vitvi13g02353 -0.87

Vitvi16g01877 -1.62

Vitvi16g01949 -2.51

Vitvi16g01158 -3.49

Vitvi17g01034 -0.52

Vitvi18g02374 -0.82

Vitvi19g02208 -1.46

fdr

Description

Metagene

log(FC)

Rank

ID

	ID p-va		iue	e wetagene							
Ove	verexpressed					Overexpressed					
1	Vitvi01g00524	0.3	1e-16	7e-13	31 x 15	The component of a membrane consisting of the gene produc	1	7.33	0e+00	73	TranscriptToanfactipition ARCOEREBP2 EREBP
2	Vitvi02g00420	0.75	1e-16	7e-13	24 x 1	Catalysis of the reaction: acetoacetyl-CoA + acetyl-CoA + H	2	5.82	0e+00	64	TranscriptToanfactipition (attierstran@threptioanfactipition factors
3	Vitvi15g00172	1.83	1e-16	7e-13	1 x 29	The contents of a cell excluding the plasma membrane and n	3	5.41	0e+00	140	Hormone Isligmating signital/jregne Eithnyteing signaling
4	Vitvi17g01015	1.94	1e-16	7e-13	40 x 11	A membrane-bounded organelle of eukaryotic cells in which	4	4.76	0e+00	153	Plant-pathagenpiathageiointeraction
5	Vitvi18g01163	0.57	1e-16	7e-13	33 x 18		5	3.88	0e+00	48	TranscriptToanfactipition taletois - WRKY
6	Vitvi03g01833	2.57	6e-15	3e-11	40 x 1	A lipid bilayer along with all the proteins and protein complexe	6	3.72	2e-04	17	Proteason Prote Asseme blinks secretaring factors
7	Vitvi18g03382	2.07	3e-14	4e-11	12 x 18		7	3.71	2e-04	26	Flavonoid Flavos yn tildelsis synthesis
8	Vitvi00g00239	2.07	3e-14	4e-11	12 x 18		8	3.69	2e-04	49	TranscriptToanfactipition MacCors - NAC
9	Vitvi11g00788	0.69	6e-14	1e-10	37 x 8	A lipid bilayer along with all the proteins and protein complexe	9	3.62	4e-04	38	Protein - Poloagierer@hapeliateelnaettipteetgau(@plaa)gy (CMA)
10	Vitvi09g00867	0.58	8e-14	5e-10	6 x 21	Binding to ADP, adenosine 5'-diphosphate.	10	3.25	2e-03	162	Plant speEllansigmadifig sigNahitepatPlagetnpiathogotiointeraction
11	Vitvi04g01756	0.96	1e-13	5e-10	23 x 1	The component of a membrane consisting of the gene produc	11	3.17	2e-03	26	TranscriptToanfactipition (a)2tdilse- G2-like
12	Vitvi10g01645	0.48	5e-13	5e-10	26 x 2		12	3.17	2e-03	15	Chaperor@haphs@n7@ ≠ DNS.R7K0 / DNAK
13	Vitvi13g00129	0.68	8e-13	9e-10	26 x 1	Binding to a protein.	13	3.17	2e-03	92	Lipid met alipoidismetaGblyisenolipüdymentalipoidism etabolism
14	Vitvi19g00446	0.44	2e-12	2e-09	34 x 12	The component of a membrane consisting of the gene produc	14	3.01	4e-03	71	ExosomeEx Psote ias-f Poota insrfao.andiaioasoaseexosomes
15	Vitvi08g02315	1.25	2e-12	2e-09	10 x 6	The division of a mitochondrion within a cell to form two or mo	15	2.95	4e-03	15	Stilbenoic Stilberylloid tain on the ptagini gerobbigios year blesis synthesis
16	Vitvi14g02473	0.5	4e-12	5e-09	26 x 1	The protein complexes that form the mitochondrial electron tra	16	2.94	4e-03	28	TranscriptToanfactipttoon Bastiorslev@aeizipenæin(eZtiP)per (bZIP)
17	Vitvi06g00129	0.43	5e-12	9e-09	26 x 5		17	2.78	6e-03	12	Endoplas Erind optias inviron metécrobramen amb cantes sant d cytosol
18	Vitvi19g01668	0.67	8e-12	1e-08	24 x 3	A membrane-bounded organelle of eukaryotic cells in which	18	2.73	8e-03	44	Energy mētæbrgljsmetalslitilisgen inlietalgelismetabolism
19	Vitvi07g01569	0.92	1e-11	1e-08	21 x 14		19	2.62	1e-02	43	TranscriptToanfactipition faZti9rs - BZIP
20	Vitvi16g01965	0.83	1e-11	1e-08	9 x 19	Binding to ATP, adenosine 5'-triphosphate, a universally impo	20	2.49	1e-02	44	AscorbateAsodrbitateratedratetabatiesmetabolism
Underexpressed							Underexpressed				
4	•	-2.65	1e-16	7e-13	34 x 1		4	-5.41	0e+00	18	Energy mētaboglismetal blobbos yn Pleusias symbleres is paroteins
2			1e-16	7e-13 7e-13	34 x 1	The component of a membrane consisting of the gene produc	2	-5.41 -5.36	0e+00	18	Photosynthesiasyrathlesias-proteins
3	Vitvi03g01127 Vitvi03g00471		1e-16	7e-13	11 x 40	Catalysis of the hydrolysis of ester linkages within nucleic acid	3	-3.36 -4.25	0e+00	47	Transporteraretatorer-dateisporteteraretatoren carriers
4	Vitvi05g01742		1e-16	7e-13	11 x 40	Catalysis of a biochemical reaction at physiological temperatu	4	-3.56	5e-04	13	CofactorsCorfdctionsnim drieitabrilismmetaTbolismmine Thiesationissmetabolism
5	Vitvi06q00707		1e-16	7e-13	1 x 40	Binding to a protein.	5	-3.41	1e-03	101	Starch an 8 taguta consecuta belia metabolism
ĕ	Vitvi06q01146		1e-16	7e-13	7 x 40	The binding activity of a molecule that brings together two or	ŏ	-3.32	1e-03	21	Thiamine Thetatioesmetabolism
7	Vitvi07g01586	-3	1e-16	7e-13	33 x 1	, , , , , , , , , , , , , , , , , , ,	7	-3.26	2e-03	24	Replication phyticiation phyticial republication Factors
8	Vitvi09g00479	-1.34	1e-16	7e-13	1 x 40		8	-3.21	2e-03	41	Replication Reprintational Replication
9	Vitvi09g01089	-0.9	1e-16	7e-13	12 x 40	The component of a membrane consisting of the gene produc	9	-3.21	2e-03	219	Cell grow@catingtroutertithandCattliactlycleCell cycle
10	Vitvi09g01930	-1.76	1e-16	7e-13	32 x 1		10	-3.16	2e-03	24	Enzyme -Eñzlyn©atalīyslin © thelysainglotreaticam slickradicom sif hydrons
11	Vitvi12g02153	-1.6	1e-16	7e-13	33 x 1		11	-2.97	4e-03	62	RibosomeRitiogenesisieg@@@spartisl@sparticles
12	Vitvi13g02014	-1.28	1e-16	7e-13	1 x 40	Any process that results in a change in state or activity of a co	12	-2.92	5e-03	26	Steroid bi 6teyrutlubsie synthesis

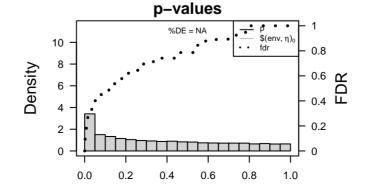
The chemical reactions and pathways resulting in the formatic

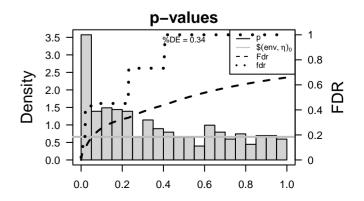
The component of a membrane consisting of the gene produc

The part of the cytoplasm that does not contain organelles but

7e-13 32 x 1 A lipid bilayer along with all the proteins and protein complexe

7e-13 4 x 33 Binding to ATP, adenosine 5'-triphosphate, a universally impo





Transcriptioanisactipition MatteRF- MTERF

Transcription faction (aRtiors - GRF

Cell motilitiell in etility ation enjudation cytical stille try noskeleton

Hormonelskigmating signatinkignin Gigotalining signaling

Plant spe Elfant signed in g signed and an Chrystodian rhythm

Plant spellfansispredifig signaliveg development

Enzyme -E8z4ynActing.4n Actintiqle no pedtide deptidates (este ptidases)

ExosomeExExpromeaExorateinalofinhaintenchalanderetlancer cells

Differentially expressed gene sets

Rank GSZ p-value #all Geneset

28

217

223

44

66

11

51

100

-2.89

-2.83

-28

-2.78

-2.77

-2.75

-2.67

-2.67

13

15

18

5e-03

6e-03

6e-03

6e-03

7e-03

7e-03

8e-03

8e-03