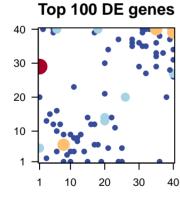
## CabFra\_freeze

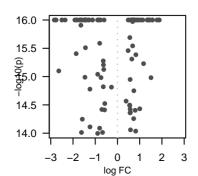
## **Global Summary**

%DE = NA # genes with fdr < 0.2 = 7391 (3847 + /3544 -)# genes with fdr < 0.1 = 3994 (2106 + /1888 -)# genes with fdr < 0.05 = 2249 (1180 + /1069 -)# genes with fdr < 0.01 = 1311 (663 + /648 -)

<FC> = 0< p-value > = 0.04< fdr > = 0.39

## **Portrait** 40 30 · 30 20 20 10 -10 10 20 30 40





## Differentially expressed genes

Description

Rank

Vitvi11g00016 -2.5

Vitvi14g01621 -1.85

Vitvi15g00500 -1.28

	ID	D p-value		Meta	gene						
Overexpressed							Overexpressed				
1	Vitvi00g00245	1.88	1e-16	5e-14	20 x 14		1	6.38	0e+00	48	TranscriptToanfactiontion tal@NY - WRKY
2	Vitvi18g0337€	1.88	1e-16	5e-14	20 x 14		2	5.07	0e+00	45	Galactos@alatatboësmetabolism
3	Vitvi01g01521	0.64	1e-16	5e-14	10 x 9	The cellular process in which a signal is conveyed to trigger a	3	4.85	0e+00	162	Plant spellfantigredifig signalingpathlagenpathcageiointeraction
4	Vitvi01g00227	0.48	1e-16	5e-14	17 x 6	The joining together of exons from one or more primary trans	4	4.69	0e+00	49	Transcriptioanfactipition NACOrs - NAC
5	Vitvi01g01965	1.58	1e-16	5e-14	6 x 4		5	4.27	0e+00	58	Other am Othecials nime takidlismeta Golikarthie Column tattaibolismeta bolism
6	Vitvi01g00392	0.72	1e-16	5e-14	23 x 11	Binding to a protein.	6	3.77	0e+00	77	Pores ion Robrassriels (Thant)els [TC:1]
7	Vitvi01g01993	1.34	1e-16	5e-14	8 x 6		7	3.66	2e-04	42	Tryptopha <b>Tryptxtabalism</b> etabolism
8	Vitvi01g00705	1.57	1e-16	5e-14	19 x 1	Binding to a metal ion.	8	3.49	6e-04	153	Plant-pathagenpathagenointeraction
9	Vitvi03g00288	0.75	1e-16	5e-14	3 x 13		9	3.33	1e-03	51	Biosynthesissynthesisdafraenetabarlismetabarkismbiesynthesis
10	Vitvi03g00298	0.75	1e-16	5e-14	24 x 1	Binding to ATP, adenosine 5'-triphosphate, a universally impo	10	3.14	3e-03	24	Tropane pTpopriatineepigneetiphynietianeclaphyaldidebiadksyltotkolesiosynthesis
11	Vitvi03g01704	1.07	1e-16	5e-14	10 x 4	The component of a membrane consisting of the gene produc	11	3.05	3e-03	80	Transport Transport Styetterring Tettlering factors
12	Vitvi04g01835	0.61	1e-16	5e-14	7 x 12	The series of molecular signals initiated by a ligand binding to	12	2.98	4e-03	28	Transcriptioanfactipition Basicriseu Basicriseu Basicriseu (bZIP)
13	Vitvi05g01401	0.79	1e-16	5e-14	1 x 20	The aggregation, arrangement and bonding together of one o	13	2.93	4e-03	140	Hormonelskigmating signthlytegne stignydding signaling
14	Vitvi06g00946	1.45	1e-16	5e-14	1 x 5	The contents of a cell excluding the plasma membrane and n	14	2.8	6e-03	39	beta-Alan <b>tieta mAdatantiotism</b> etabolism
15	Vitvi07g02204	1.78	1e-16	5e-14	20 x 13	Catalysis of an oxidation-reduction (redox) reaction, a reversi	15	2.76	7e-03	17	Isoquinolih se quika toti debidis quoti tudesio synthesis
16	Vitvi07g00435	0.87	1e-16	5e-14	5 x 12	Binding to a nucleic acid.	16	2.74	8e-03	96	Transporterarestaturger-dectallergs-caRofteers6cat 1 to 6
17	Vitvi09g01220	0.52	1e-16	5e-14	25 x 5	Catalysis of the reaction: protein serine phosphate + H2O = p	17	2.73	8e-03	34	Tyrosine rityertatsiotesmetabolism
18	Vitvi10g00489	0.98	1e-16	5e-14	8 x 6	The membrane surrounding a cell that separates the cell from	18	2.71	8e-03	45	Valine leukratien eutheilusionle varideisobeguraidretide gradation
19	Vitvi10g00107	1.41	1e-16	5e-14	8 x 1	The component of a membrane consisting of the gene produc	19	2.69	8e-03	12	Enzyme -E0/zyssel - Class I
20	Vitvi11g00141	0.67	1e-16	5e-14	14 x 4		20	2.59	1e-02	29	Other am@thecialsnimetalcidlismetalbetis-nalanbetamallatiotismetabolism
Underexpressed							Underexpressed				
1	Vitvi10g01740	-0.84	1e-16	5e-14	28 x 37	A ubiquitin ligase complex in which a cullin from the Cul1 sub	1	-9.78	0	80	Cytoskele@anoskeletotubulkisrotubules
ż	Vitvi10g00349	-1.39	1e-16	5e-14	31 x 40		ż	-9.45	0	18	Photosyn (Pleasissy rathlessisa-paroteinsa proteins
3	Vitvi10g00290	-1.44	1e-16	5e-14	36 x 38		3	-9.35	0	18	Energy m Etadorglijsm etal Bhitistors yn Phessie saymtidres äs paroteimsa proteins
4	Vitvi03g00677	-1.45	1e-16	5e-14	39 x 37	The chemical reactions and pathways involving cytokinins, a	4	-9.04	0	217	Cell motilitigell integlialigation englatation regation and the transcription of the companion of the compan
5	Vitvi03g00851	-1.82	1e-16	5e-14	32 x 40	The irregular network of unit membranes, visible only by elect	5	-8.81	0	206	Cell growtDealingtroutertithan-dDatelautrall-Cell wall
6	Vitvi06g0122€	-1.72	1e-16	5e-14	40 x 38	The process whose specific outcome is the progression of the	6	-7.94	0	47	Transport@iracestpaluntge-rotatenloogo-to-te-benckpoortoealenderon carriers
7	Vitvi07g0037€	-1.67	1e-16	5e-14	40 x 26		7	-6.82	0	38	Photosyn <b>tPleasis</b> synthesis
8	Vitvi07g00654	-1.12	1e-16	5e-14	18 x 40		8	-6.77	0	78	Energy mētadrglijsmetalBhibbosyntPlassiesynthesis
9	Vitvi07g02119		1e-16	5e-14	35 x 36	Catalysis of the hydrolysis of a carboxylic ester bond.	9	-5.99	0	10	Photosyn (Pleasis sproutfees is Plooteins ys Pelnooto (\$9750@nchl ((Prophydralo) rophyll a)
10	Vitvi08g01293		1e-16	5e-14	35 x 40		10	-5.81	0	219	Cell grow@eatingtrouteratthandCoatelladtjacteCell cycle
11			1e-16	5e-14	33 x 40		11	-5.1	0	113	Exosome Ex Escos rema Excessional opino debine cotá lo calor resertade da no cerce la seconda lo calor resertade da no cerce la seconda lo calor resertade da no cerce la seconda lo calor resertado de la seconda lo calor resertado d
12	Vitvi09g00190	-0.76	1e-16	5e-14	24 x 37	The component of a membrane consisting of the gene produc	12	-5.09	0	66	ExosomeExosomemaEpocoteinalqrinollacidateochalracetancer cells
13	Vitvi09g01272	-1.92	1e-16	5e-14	40 x 40		13	-5.03	0	40	Transport Styleskeid Tlaybektonid bertheviang pathway
14	Vitvi10g00494	-0.6	1e-16	5e-14	20 x 30	The contents of a cell excluding the plasma membrane and n	14	-4.95	0	134	Hormonelskigmating sighalingsignating signating

1e-16 5e-14 35 x 40 Binds to and stops, prevents or reduces the activity of an enz

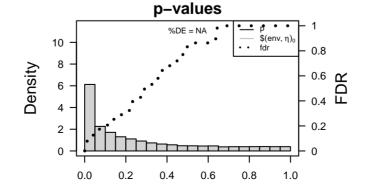
1e-16 5e-14 39 x 28 A lipid bilayer along with all the proteins and protein complexe

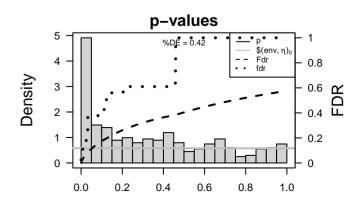
1e-16 5e-14 35 x 29 The component of a membrane consisting of the gene produc

1e-16 5e-14 30 x 29 Binding to a protein kinase, any enzyme that catalyzes the tra

1e-16 5e-14 1 x 29 Binding to a heme, a compound composed of iron complexed

40 x 27 The contents of a cell excluding the plasma membrane and  $\ensuremath{n}$ 





RibosomeRibosome

TranscriptToanfactiontion Califors - GRF

Differentially expressed gene sets

PeptidaseReartidaskibitoris in Hibitoilys A1F.apreilysiA farprilipsin family

Glycosyltr@iysfessylteens@erasterralQtrollyssaradhporlyssaccharide

Glycan bi@dycalmelsiosamuthressisabolismmetalsle/@dycarNele@lyacdartide.gradation

AquaporirAquapdominallameLstralasionletetitalasopudet.erar[3]00rfteAs3[TC:1.A.8]

Rank GSZ p-value #all Geneset

-4.7 Ο

-4.64

-4.4

-4.22

-4.130

-4 12

16

211

10

30

11

19

78