

Chard_accfreeze_r3

Global Summary

$$\%DE = 0$$

```
# genes with fdr < 0.2 = 0 ( 0 + / 0 -)
```

```
# genes with fdr < 0.1 = 0 ( 0 + / 0 -)
```

```
# genes with fdr < 0.05 = 0 ( 0 + / 0 -)
```

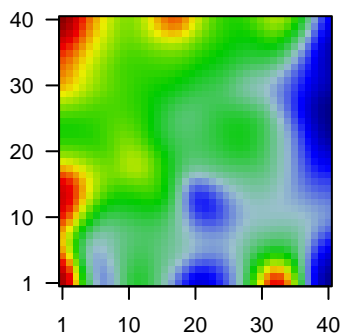
```
# genes with fdr < 0.01 = 0 ( 0 + / 0 -)
```

$$\langle FC \rangle = 0$$

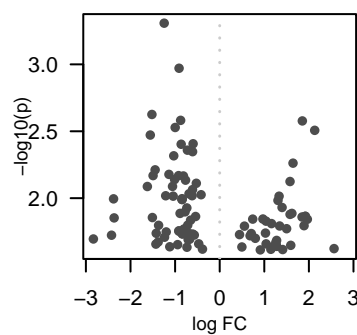
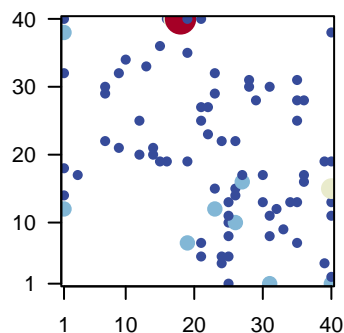
<p-value> = 0.47

 $\langle fdr \rangle = 1$

Portrait

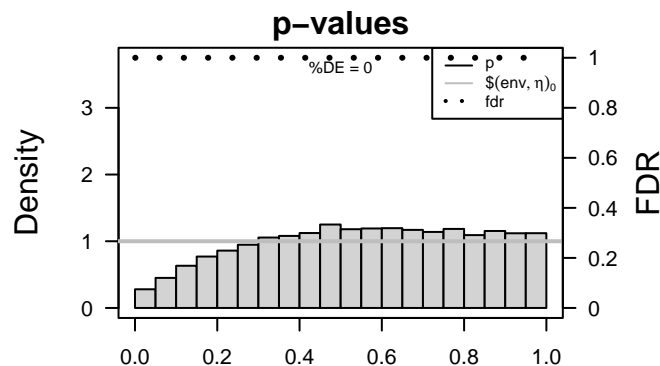


Top 100 DE genes



Differentially expressed genes

Rank	ID	log(FC)	fdr	Description		
		p-value	Metagene			
Overexpressed						
1	Vitv19g01732	1.85	0.003	1	18 x 40	The membrane surrounding a cell that separates the cell from
2	Vitv12g0071C	2.13	0.003	1	1 x 18	Catalysis of the transfer of an acyl group, other than amino-a
3	Vitv01g0060E	1.64	0.005	1	12 x 20	The formation of the principal food-conducting tissue of a vas
4	Vitv14g01642	1.58	0.008	1	21 x 40	The formation of the principal food-conducting tissue of a vas
5	Vitv13g00667	1.33	0.010	1	17 x 40	Binding to a metal ion.
6	Vitv15g00833	1.31	0.010	1	18 x 40	The component of a membrane consisting of the gene produ
7	Vitv09g00744	1.4	0.012	1	7 x 30	
8	Vitv04g0006C	1.62	0.013	1	16 x 40	Catalysis of the hydrolysis of phosphoric monoesters, releas
9	Vitv14g0164E	1.58	0.013	1	18 x 40	The formation of the principal food-conducting tissue of a vas
10	Vitv00g01914	1.92	0.014	1	1 x 12	
11	Vitv10g0227E	1.92	0.014	1	1 x 12	
12	Vitv17g0014E	1.85	0.014	1	1 x 38	A small organelle enclosed by a single membrane, and found
13	Vitv03g0069E	0.97	0.014	1	23 x 32	Catalysis of the transfer of an acyl group, other than amino-a
14	Vitv07g01861	0.74	0.014	1	15 x 36	Binding to ATP, adenosine 5'-triphosphate, a universally imp
15	Vitv06g0145E	1.97	0.014	1	1 x 40	Catalysis of the hydrolysis of internal, alpha-peptide bonds in
16	Vitv19g0058E	1.04	0.015	1	17 x 39	The component of a membrane consisting of the gene produ
17	Vitv01g0082E	1.16	0.015	1	31 x 1	Catalysis of the reaction: a protein with reduced sulfide group
18	Vitv06g0002A	1.89	0.016	1	1 x 38	Any molecular function by which a gene product interacts sel
19	Vitv05g0040Z	1.34	0.016	1	18 x 40	The component of a membrane consisting of the gene produ
20	Vitv13g0134E	0.56	0.016	1	7 x 29	Binding to a nucleotide, any compound consisting of a nucleo
Underexpressed						
1	Vitv05g0154C	-1.24	5e-04	1	23 x 12	Binding to a protein.
2	Vitv04g01543	-0.91	1e-03	1	35 x 13	Catalysis of the transfer of a group, e.g. a methyl group, glyco
3	Vitv09g00301	-1.52	2e-03	1	40 x 15	Binding to nicotinamide adenine dinucleotide, a coenzyme im
4	Vitv13g01021	-0.88	3e-03	1	10 x 34	Catalysis of the transfer of a glycosyl group from one compou
5	Vitv15g00241	-1	3e-03	1	25 x 10	The irregular network of unit membranes, visible only by elect
6	Vitv04g00627	-1.56	3e-03	1	25 x 1	The process resulting in division and partitioning of compo
7	Vitv16g02057	-0.6	4e-03	1	13 x 33	Catalysis of the hydrolysis of various bonds, e.g. C-O, C-N, (
8	Vitv14g0181E	-0.86	4e-03	1	26 x 15	Binding to a nonidentical protein to form a heterodimer.
9	Vitv10g0082E	-0.72	4e-03	1	26 x 22	
10	Vitv04g00253	-0.61	4e-03	1	31 x 11	A membrane-bound organelle of eukaryotic cells in which
11	Vitv11g0080E	-1.03	5e-03	1	28 x 31	The component of a membrane consisting of the gene produ
12	Vitv01g0186C	-1.45	6e-03	1	40 x 19	Binding to a calcium ion (Ca2+).
13	Vitv06g0068E	-1.14	7e-03	1	31 x 30	Binding to ATP, adenosine 5'-triphosphate, a universally imp
14	Vitv00g0220E	-1.49	7e-03	1	35 x 28	
15	Vitv02g0121C	-0.92	7e-03	1	36 x 17	
16	Vitv17g0046E	-0.81	7e-03	1	33 x 9	The inner, i.e. lumen-facing, lipid bilayer of the mitochondrial
17	Vitv13g01077	-1.01	7e-03	1	39 x 19	The component of the nuclear inner membrane consisting of
18	Vitv10g0081E	-0.77	7e-03	1	32 x 12	
19	Vitv01g00547	-0.52	8e-03	1	21 x 25	A membrane-bound organelle of eukaryotic cells in which
20	Vitv13g01394	-1.06	8e-03	1	29 x 28	The component of a membrane consisting of the gene produ



Differentially expressed gene sets

	Rank	GSZ	p-value	#all	Geneset
Overexpressed					
1	9.75	0e+00	73	Transcription factor AP-2, EREBP2, EREBP	
2	9.7	0e+00	64	Transcription factor Other transcription factors	
3	8.05	0e+00	140	Hormone signaling signal transduction signaling	
4	4.84	0e+00	49	Transcription factor MADS – NAC	
5	4.74	0e+00	11	Biosynthesis of secondary metabolites biosynthesis	
6	3.53	5e-04	170	Transcription factor Other CYP4B1-C3HC4	
7	3.23	1e-03	111	Hormone signaling signal transduction signaling	
8	3.23	1e-03	13	Peptidases and proteases in plants G Family papain family	
9	3.19	2e-03	29	Carotenoid biosynthesis biosynthesis	
10	2.93	4e-03	238	Enzyme Ethylglyoxal oxidase transferases	
11	2.87	5e-03	48	Transcription factor WRKY – WRKY	
12	2.82	6e-03	18	Photosynthetic system proteins	
13	2.81	6e-03	64	Ribosome biogenesis in eukaryotes	
14	2.8	6e-03	75	Translation Ribosome biogenesis in eukaryotes	
15	2.75	7e-03	18	Energy metabolism biosynthesis protein synthesis	
16	2.61	1e-02	47	Transporter transporter carrier	
17	2.53	1e-02	25	Biosynthesis of secondary metabolites biosynthesis	
18	2.44	2e-02	62	Ribosome biogenesis in prokaryotes particles	
19	2.33	2e-02	10	Photosynthetic system Photosynthesis	
20	2.29	2e-02	116	Ribosome biogenesis in prokaryotes particles	
Underexpressed					
1	-7.01	0e+00	26	Flavonoid biosynthesis	
2	-4.02	0e+00	129	Enzyme Ethylglyoxal oxidase	
3	-3.89	4e-05	63	Phenylpropanoid biosynthesis	
4	-3.59	4e-04	71	Amino acid metabolism Phenylalanine metabolism	
5	-3.57	5e-04	44	Enzyme Ethylglyoxal oxidase peroxidase acceptor	
6	-3.54	5e-04	211	Ribosome Ribosome	
7	-3.5	7e-04	247	Translation Ribosome Ribosome	
8	-3.33	1e-03	40	Energy metabolism Metabolism metabolism	
9	-3.32	1e-03	44	Energy metabolism Nitrogen Metabolism metabolism	
10	-3.29	1e-03	83	Transcription factor MYB – MYB	
11	-3.26	1e-03	219	Cell growth Cell cycle Cell cycle	
12	-3.2	1e-03	102	Amino sugar metabolism Carbohydrate metabolism	
13	-3.11	2e-03	22	Fatty acid fatty acid elongation	
14	-2.79	6e-03	144	Ribosome Ribosome in eukaryotes	
15	-2.74	7e-03	48	Lipid metabolism Fatty acid fatty acid biosynthesis	
16	-2.71	8e-03	80	Cytoskeleton Microtubule microtubules	
17	-2.67	8e-03	25	Nitrogen Metabolism metabolism	
18	-2.61	1e-02	31	Biosynthesis of secondary metabolites phenylpropanoid metabolism	
19	-2.56	1e-02	39	Pentose phosphate cycle intermediate conversions	
20	-2.54	1e-02	33	Carbohydrate metabolism Carbohydrate metabolism	

