

Chard_acclim

Global Summary

%DE = NA

genes with $\text{fdr} < 0.2 = 3869$ (2137 + / 1732 -)

genes with $\text{fdr} < 0.1 = 2449$ (1320 + / 1129 -)

genes with $\text{fdr} < 0.05 = 1864$ (976 + / 888 -)

genes with $\text{fdr} < 0.01 = 1121$ (556 + / 565 -)

$$\langle FC \rangle = 0$$

$\langle p\text{-value} \rangle = 0.07$

$\langle \text{fdr} \rangle = 0.52$

Differentially expressed genes

Rank	ID	log(FC)	fdr	Description		
		p-value	Metagene			
Overexpressed						
1	Vitv12g02324	2.75	1e-16	1e-13	33 x 1	Binding to a protein.
2	Vitv13g01759	0.75	1e-16	1e-13	28 x 24	Binding to single-stranded DNA.
3	Vitv13g01298	2.19	1e-16	1e-13	12 x 18	Catalysis of an oxidation-reduction (redox) reaction in which
4	Vitv16g01495	0.93	1e-16	1e-13	36 x 10	A lipid bilayer along with all the proteins and protein complexes
5	Vitv17g00148	1.24	1e-16	1e-13	1 x 38	A small organelle enclosed by a single membrane, and found
6	Vitv19g00105	0.56	1e-16	1e-13	13 x 35	Any process that modulates the rate of GTP hydrolysis by a G
7	Vitv07g02036	0.29	1e-16	2e-13	24 x 28	The modification of histones by removal of acetyl groups.
8	Vitv10g02163	1.32	3e-16	6e-13	13 x 40	
9	Vitv10g00358	1.32	3e-16	6e-13	13 x 40	
10	Vitv12g02454	2.07	1e-15	1e-12	34 x 1	Catalysis of the transfer of an acyl group, other than amino-ac
11	Vitv03g0069C	0.43	5e-15	5e-12	27 x 21	A lipid bilayer along with all the proteins and protein complexes
12	Vitv07g01674	0.33	1e-14	5e-11	23 x 29	The component of a membrane consisting of the gene product
13	Vitv01g0035C	1.88	4e-14	5e-11	33 x 1	
14	Vitv12g02316	1.26	5e-14	5e-11	32 x 37	Binding to a protein.
15	Vitv11g0144E	2	1e-13	3e-10	33 x 1	Any molecular entity that serves as an electron acceptor and
16	Vitv07g0144E	0.48	2e-13	3e-10	22 x 40	An thiol-dependent isopeptidase activity that cleaves ubiquitin
17	Vitv09g00722	0.23	2e-13	3e-10	8 x 28	Binding to ATP, adenosine 5'-triphosphate, a universally impo
18	Vitv16g00152	0.51	4e-13	3e-10	23 x 27	The component of a membrane consisting of the gene product
19	Vitv00g0148E	1.26	5e-13	4e-10	34 x 1	
20	Vitv07g02812	1.26	5e-13	4e-10	34 x 1	Reactions, triggered in response to the presence of a foreign
Underexpressed						
1	Vitv04g0041E	-0.46	1e-16	1e-13	16 x 7	Binding to the oxidized form, FAD, of flavin-adenine dinucleot
2	Vitv05g01751	-1.88	1e-16	1e-13	21 x 13	
3	Vitv08g01057	-1.04	1e-16	1e-13	13 x 1	
4	Vitv18g0210E	-1.08	1e-16	1e-13	8 x 20	
5	Vitv13g01917	-0.79	2e-16	6e-13	25 x 1	
6	Vitv16g01494	-1.06	4e-16	6e-13	1 x 23	
7	Vitv17g00094	-0.68	5e-16	6e-13	24 x 13	A protein complex that interacts with the carboxy-terminal do
8	Vitv06g0021E	-1.13	5e-16	1e-12	10 x 1	The component of a membrane consisting of the gene product
9	Vitv14g01367	-1.39	6e-16	1e-12	1 x 1	Binding to ATP, adenosine 5'-triphosphate, a universally impo
10	Vitv05g0006E	-1.45	8e-16	1e-12	22 x 1	Reactions, triggered in response to the presence of a foreign
11	Vitv18g0184E	-2.33	1e-15	1e-12	37 x 26	Binding to ADP, adenosine 5'-diphosphate.
12	Vitv03g00161	-1.28	1e-15	1e-12	12 x 1	
13	Vitv12g02011	-1.74	1e-15	1e-12	23 x 11	Binding to ADP, adenosine 5'-diphosphate.
14	Vitv10g00227	-1.43	1e-15	4e-12	28 x 30	The component of a membrane consisting of the gene product
15	Vitv04g0147C	-0.78	3e-15	4e-12	14 x 1	The space external to the outermost structure of a cell. For ce
16	Vitv07g01831	-0.77	3e-15	4e-12	14 x 1	Binding to ATP, adenosine 5'-triphosphate, a universally impo
17	Vitv05g02001	-1.12	3e-15	4e-12	20 x 13	The contents of a cell excluding the plasma membrane and n
18	Vitv12g02701	-1.05	3e-15	5e-12	23 x 12	Binding to ADP, adenosine 5'-diphosphate.
19	Vitv16g0186E	-0.87	4e-15	5e-12	22 x 12	Binding to ATP, adenosine 5'-triphosphate, a universally impo
20	Vitv07g0040C	-1.06	5e-15	5e-12	23 x 10	The action of a molecule that contributes to the structural int

Differentially expressed gene sets

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	6.37	0e+00	18	Energy metabolismPhotosynthesisprotein synthesisproteins
2	6.25	0e+00	18	Photosynthesisprotein synthesisproteins
3	5.23	0e+00	47	Transporttransporter transporttransportation carriers
4	4.44	0e+00	38	Photosynthesisphotosynthesis
5	4.2	0e+00	10	Photosynthesisprotein synthesisPhotosynthesischlorophyll a
6	3.91	0e+00	78	Energy metabolismPhotosynthesisprotein synthesis
7	3.58	4e-04	217	Cell motilityCell RegulationRegulation of cytoskeleton
8	3.5	5e-04	26	Steroid biosynthesissteroid synthesis
9	3.4	1e-03	10	Peptidasehydrolases and hydrolase familyA family protein family
10	3.25	2e-03	80	Cytoskeletalcytoskeletonmicrotubules
11	3.24	2e-03	40	Transporttransport systemtargeting targeting pathway
12	3.17	2e-03	66	ExosomeExosomeExosome degradation of chromatin cancer cells
13	3.16	2e-03	31	Chromosome chromosome associated proteins gene silencing
14	3.04	3e-03	219	Cell growthcell divisionCell cycleCell cycle
15	3.04	3e-03	17	Kinase - Rafkinfamily RAK family
16	3.02	4e-03	18	Transcription factor transcription factors - ARF
17	2.99	4e-03	11	Transcription factor transcription factors - GRF
18	2.94	4e-03	21	ThiamineThiamine metabolism
19	2.7	8e-03	32	Circadian rhythmplant - plant
20	2.65	9e-03	113	ExosomeExosomeExosome degradation of chromatin cancer cells
<i>Underexpressed</i>				
1	-6.06	0e+00	73	Transcription factor transcription factors EREBP
2	-5.98	0e+00	140	Hormone signaling signaling signaling signaling
3	-4.8	0e+00	48	Transcription factor transcription factors WRKY - WRKY
4	-4.76	0e+00	49	Transcription factor transcription factors NAC - NAC
5	-4.24	0e+00	45	GalactoseGalactose metabolism
6	-3.86	0e+00	153	Plant-pathogenpathogenesis interaction
7	-3.46	7e-04	64	Transcription factor transcription factors transcription factors
8	-3.41	1e-03	51	Other metabolic reactionsSingle reactions
9	-3.13	3e-03	26	Transcription factor transcription factors G2like - G2-like
10	-3.12	3e-03	77	Carbohydratecarbohydrate metabolismGlycolysisglycolysis
11	-2.87	5e-03	11	CofactorsCofactors and cofactorsVitamin-B6metabolism
12	-2.87	5e-03	10	Lipoleic acidlipoleic acid metabolism
13	-2.83	6e-03	15	Chaperonachaperone / chaperone / DNAK
14	-2.75	7e-03	58	Other amino acidsamino acid metabolismGlutathioneGlutathione metabolism
15	-2.75	7e-03	29	Transcription factor transcription factors GRAS - GRAS
16	-2.67	8e-03	44	Energy metabolismmetabolismMetabolismmetabolism
17	-2.64	9e-03	162	Plant signaling signaling signaling signaling
18	-2.62	1e-02	38	Protein - Chaperone mediated autophagyChaperone (CMA)
19	-2.58	1e-02	71	ExosomeExosomes-Protein secretionexosomes exosomes
20	-2.5	1e-02	17	ProteaseProteasome assemblyfactoring factors

