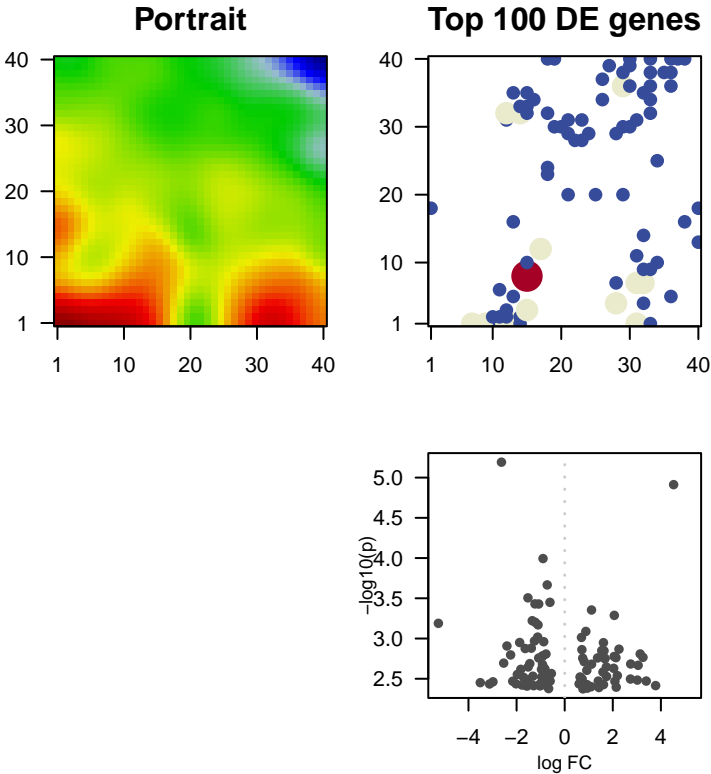


# Chard\_freeze\_r2

## Global Summary

%DE = 0.17  
# genes with  $\text{fdr} < 0.2 = 1 \text{ (0 + / 1 -)}$   
# genes with  $\text{fdr} < 0.1 = 1 \text{ (0 + / 1 -)}$   
# genes with  $\text{fdr} < 0.05 = 0 \text{ (0 + / 0 -)}$   
# genes with  $\text{fdr} < 0.01 = 0 \text{ (0 + / 0 -)}$

<FC> = 0  
<p-value> = 0.32  
<fdr> = 0.83



## Differentially expressed genes

Rank	ID	log(FC)	fdr	Description		
		p-value		Metagene		
Overexpressed						
1	Vitv09g0200E	4.53	1e-05	0.6	31 x 1	An intracellular non-membrane-bounded organelle compris
2	Vitv16g00112	1.12	4e-04	0.6	32 x 7	Binding to ATP, adenosine 5'-triphosphate, a universally impc
3	Vitv18g0281E	2.06	5e-04	0.6	1 x 18	Catalysis of the hydrolysis of any ester bond.
4	Vitv17g0073C	0.88	8e-04	0.6	13 x 16	Catalysis of the transfer of ubiquitin from one protein to anoth
5	Vitv10g0071E	0.7	1e-03	0.6	31 x 11	Binding to a ribosome.
6	Vitv03g0064E	1.61	1e-03	0.6	28 x 4	
7	Vitv11g0150E	2.26	1e-03	0.6	17 x 12	A lipid bilayer along with all the proteins and protein complex
8	Vitv13g0165C	0.71	1e-03	0.6	33 x 9	The action of a molecule that contributes to the structural inte
9	Vitv00g0075E	1.55	1e-03	0.6	15 x 3	
10	Vitv00g01184	1.63	1e-03	0.6	32 x 4	
11	Vitv07g03094	1.55	1e-03	0.6	15 x 3	
12	Vitv19g0102E	3.14	2e-03	0.6	7 x 1	Binding to a heme, a compound composed of iron complexed
13	Vitv16g0188E	2.06	2e-03	0.6	13 x 1	
14	Vitv04g0123E	3.25	2e-03	0.6	9 x 1	Catalysis of the transfer of a glycosyl group from a UDP-sugs
15	Vitv07g0133E	2.13	2e-03	0.6	9 x 1	The chemical reactions and pathways involving lipids, compoi
16	Vitv04g0000E	1.37	2e-03	0.6	31 x 7	
17	Vitv06g01364	0.75	2e-03	0.6	15 x 8	The directed movement of proteins in a cell, including the mo
18	Vitv11g00267	1.67	2e-03	0.6	12 x 3	The membrane surrounding a cell that separates the cell from
19	Vitv11g0043E	1.67	2e-03	0.6	13 x 5	The chemical reactions and pathways involving organic or inc
20	Vitv05g0217E	0.81	2e-03	0.6	25 x 20	
Underexpressed						
1	Vitv07g01921	-2.63	6e-06	0.09	33 x 34	The component of a membrane consisting of the gene produc
2	Vitv02g0127E	-0.9	1e-04	0.60	12 x 32	Catalysis of the transfer of a group, e.g. a methyl group, glyco
3	Vitv01g0007C	-0.73	2e-04	0.60	23 x 28	Catalysis of the transfer of a methyl group to an acceptor mol
4	Vitv14g0179E	-1.53	3e-04	0.60	34 x 25	The component of a membrane consisting of the gene produc
5	Vitv11g0048E	-0.61	4e-04	0.60	22 x 28	The contents of a cell excluding the plasma membrane and n
6	Vitv13g00747	-1.24	4e-04	0.60	21 x 29	Catalysis of a biochemical reaction at physiological temperat
7	Vitv02g0025E	-1.08	4e-04	0.60	28 x 29	The component of a membrane consisting of the gene produc
8	Vitv07g0128C	-1.35	6e-04	0.60	21 x 31	Binding to ATP, adenosine 5'-triphosphate, a universally impc
9	Vitv07g0193C	-1.22	6e-04	0.60	18 x 40	Catalysis of the hydrolysis of internal, alpha-peptide bonds in
10	Vitv07g0244E	-5.25	6e-04	0.60	37 x 40	
11	Vitv08g0179E	-1.11	7e-04	0.60	16 x 34	The contents of a cell excluding the plasma membrane and n
12	Vitv05g00437	-1.12	1e-03	0.60	40 x 13	The component of a membrane consisting of the gene produc
13	Vitv06g01227	-1.26	1e-03	0.60	31 x 31	Catalysis of the transfer of a glycosyl group from one compou
14	Vitv08g00174	-0.87	1e-03	0.60	30 x 30	A membrane-bounded organelle of eukaryotic cells in which
15	Vitv18g0035E	-1.87	1e-03	0.60	33 x 36	A closed structure, found only in eukaryotic cells, that is comp
16	Vitv04g01481	-2.4	1e-03	0.60	35 x 38	The chemical reactions and pathways involving carbohydrate:
17	Vitv19g0027E	-1.39	1e-03	0.60	26 x 37	The chemical reactions and pathways resulting in the formati
18	Vitv11g00401	-1.64	1e-03	0.60	32 x 35	The component of a membrane consisting of the gene produc
19	Vitv01g0170C	-0.78	2e-03	0.60	21 x 20	Binding to nicotinamide-adenine dinucleotide phosphate, a c
20	Vitv18g0123E	-2.25	2e-03	0.60	36 x 36	The space external to the outermost structure of a cell. For c

## Differentially expressed gene sets

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	5.8	0e+00	64	Transcription factors
2	5.37	0e+00	73	Transcription factors
3	4.62	0e+00	140	Hormone signaling
4	3.58	4e-04	26	Flavonoid biosynthesis
5	3.48	7e-04	45	Galactose metabolism
6	3.31	1e-03	42	Tryptophan metabolism
7	3.3	1e-03	11	Biosynthesis of amino acids
8	3.25	1e-03	39	Enzyme
9	3.08	2e-03	92	Lipid metabolism
10	2.98	3e-03	48	Transcription factors
11	2.93	4e-03	18	Chaperone
12	2.91	4e-03	29	Carotenoid biosynthesis
13	2.89	4e-03	108	Carbohydrate metabolism
14	2.85	5e-03	57	Glyoxylate cycle
15	2.83	5e-03	51	Carbon fixation
16	2.8	6e-03	26	Pantoic acid
17	2.67	8e-03	12	SLC15
18	2.64	9e-03	15	Chaperone
19	2.59	1e-02	38	Protein
20	2.47	1e-02	72	Ribosome
<i>Underexpressed</i>				
1	-10.61	0e+00	206	Cell growth
2	-8.4	0e+00	217	Cell motility
3	-7.82	0e+00	80	Cytoskeleton
4	-6.51	0e+00	10	Peptidase
5	-6.19	0e+00	78	Glycosyltransferase
6	-5.89	0e+00	19	Aquaporin
7	-5.41	0e+00	129	Enzyme
8	-5.14	0e+00	219	Cell growth
9	-4.52	0e+00	11	Transcription factors
10	-4.45	0e+00	134	Hormone signaling
11	-4.43	0e+00	66	Exosome
12	-4.26	0e+00	34	Peptidase
13	-4.2	0e+00	18	Photosynthesis
14	-4.19	0e+00	168	Plant hormone
15	-4.17	0e+00	102	Amino acid
16	-4.15	0e+00	24	Replication
17	-4.08	0e+00	30	Glycan
18	-4.02	0e+00	17	Kinase
19	-3.87	8e-05	113	Exosome
20	-3.83	8e-05	18	Energy

