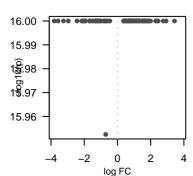
Riesl_freeze

Global Summary

%DE = NA # genes with fdr < 0.2 = 8114 (4300 + /3814 -) # genes with fdr < 0.1 = 5861 (3124 + /2737 -) # genes with fdr < 0.05 = 4032 (2136 + /1896 -) # genes with fdr < 0.01 = 2587 (1357 + /1230 -)

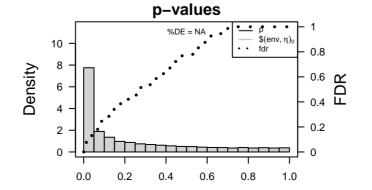
<FC> = 0<p-value> = 0.02<fdr> = 0.38

Portrait Top 100 DE genes 40 30 20 10 1 10 20 30 40 1 10 20 30 40



Differentially expressed genes

| Rank | | log(FC) fdr | | Description | | F | |
|----------------------------|---------------|-------------|-------|----------------|---------|--|---|
| ID | | p-value | | Metagene | | | |
| Ove | rexpressed | | • | | | | (|
| | Vitvi04g01095 | 1.64 | 1e-16 | 7e-14 | 8 x 1 | Binding to a protein. | |
| 1 | - | | | 7e-14 7e-14 | | binding to a protein. | [|
| 2 | Vitvi00g01866 | 1.67 | 1e-16 | | 1 x 28 | A linid bilance alone with all the anatoine and anatoin annual | 2 |
| 3 | Vitvi10g02284 | 1.67 | 1e-16 | 7e-14 | 1 x 28 | A lipid bilayer along with all the proteins and protein complexe | |
| 4 | Vitvi01g00053 | 0.91 | 1e-16 | 7e-14 | 34 x 5 | The component of a membrane consisting of the gene produc | 4 |
| 5 | Vitvi01g00330 | 0.78 | 1e-16 | 7e-14 | 1 x 18 | The component of a membrane consisting of the gene produc | 5 |
| 6 | Vitvi01g00472 | 0.66 | 1e-16 | 7e-14 | 27 x 8 | The control of the co | 7 |
| 7 | Vitvi01g00812 | 1.15 | 1e-16 | 7e-14 | 33 x 3 | The component of a membrane consisting of the gene produc | |
| 8 | Vitvi01g00918 | 1.77 | 1e-16 | 7e-14 | 3 x 1 | A membrane-bounded organelle of eukaryotic cells in which | 8 |
| 9 | Vitvi02g00696 | 0.92 | 1e-16 | 7e-14 | 1 x 13 | The process whose specific outcome is the progression of the | ç |
| 10 | Vitvi02g01268 | 0.37 | 1e-16 | 7e-14 | 29 x 12 | The part of the cytoplasm that does not contain organelles bu | 1 |
| 11 | Vitvi03g01397 | 1.19 | 1e-16 | 7e-14 | 39 x 1 | | 1 |
| 12 | Vitvi03g00133 | 0.76 | 1e-16 | 7e-14 | 12 x 4 | The membrane surrounding a cell that separates the cell from | 1 |
| 13 | Vitvi03g00397 | 2.45 | 1e-16 | 7e-14 | 1 x 1 | Binding to a protein. | 1 |
| 14 | Vitvi04g01854 | 0.88 | 1e-16 | 7e-14 | 36 x 5 | The component of a membrane consisting of the gene produc | 1 |
| 15 | Vitvi04g02091 | 0.76 | 1e-16 | 7e-14 | 16 x 1 | Binding to ADP, adenosine 5'-diphosphate. | 1 |
| 16 | Vitvi05g00376 | 0.73 | 1e-16 | 7e-14 | 5 x 19 | The component of a membrane consisting of the gene produc | 1 |
| 17 | Vitvi06g00646 | 1.07 | 1e-16 | 7e-14 | 12 x 1 | Catalysis of a biochemical reaction at physiological temperatu | 1 |
| 18 | Vitvi06g01215 | 0.56 | 1e-16 | 7e-14 | 3 x 27 | Binding to a protein. | 1 |
| 19 | Vitvi07g00595 | 1.72 | 1e-16 | 7e-14 | 5 x 1 | The component of a membrane consisting of the gene produc | 1 |
| 20 | Vitvi07g01610 | 1.5 | 1e-16 | 7e-14 | 7 x 3 | Any process that modulates the frequency, rate or extent of g | 2 |
| Und | erexpressed | | | | | | ι |
| 1 | Vitvi10g00245 | -2.44 | 1e-16 | 7e-14 | 12 x 18 | Binding to a metal ion. | |
| | Vitvi10g00159 | -0.71 | 1e-16 | 7e-14 7e-14 | 7 x 37 | Smalling to a motal form | |
| 2 | Vitvi01g00241 | -1.51 | 1e-16 | 7e-14 | 35 x 40 | A membrane-bound cytoplasmic organelle of the endomemb | 2 |
| 4 | Vitvi01g00394 | -2.96 | 1e-16 | 7e-14 | 40 x 40 | Binding to a metal ion. | 2 |
| 2 3 4 5 6 | Vitvi05g01596 | -1.93 | 1e-16 | 7e-14 | 34 x 40 | The component of a membrane consisting of the gene produc | |
| 6 | Vitvi06g01226 | -2.04 | 1e-16 | 7e-14 | 40 x 38 | The process whose specific outcome is the progression of the | 6 |
| Ž | Vitvi06g01513 | -3.58 | 1e-16 | 7e-14 | 40 x 40 | | 7 |
| 8 | Vitvi07g00708 | -0.61 | 1e-16 | 7e-14 | 23 x 40 | | Š |
| 9 | Vitvi07g02666 | -1.17 | 1e-16 | 7e-14 | 32 x 40 | A process that is carried out at the cellular level which results | ç |
| 10 | Vitvi08g01423 | -2.02 | 1e-16 | 7e-14 | 39 x 38 | Binding to a protein. | 1 |
| 11 12 13 14 15 | Vitvi08g01664 | -1.15 | 1e-16 | 7e-14 | 29 x 40 | Catalysis of a biochemical reaction at physiological temperatu | 1 |
| | Vitvi10g00523 | -1.98 | 1e-16 | 7e-14 | 40 x 39 | Catalysis of the hydrolysis of any ester bond. | 1 |
| | Vitvi12g00330 | -2.15 | 1e-16 | 7e-14 | 19 x 14 | | 1 |
| | Vitvi12g01873 | -0.77 | 1e-16 | 7e-14 | 29 x 38 | Catalysis of an oxidation-reduction (redox) reaction, a reversi | 1 |
| | Vitvi12g00353 | -0.67 | 1e-16 | 7e-14 | 29 x 37 | Any molecular function by which a gene product interacts sele | 1 |
| 16 | Vitvi13g01882 | -1.34 | 1e-16 | 7e-14 | 29 x 40 | Catalysis of the reaction: S-adenosyl-L-methionine + histoni | 1 |
| 17 | Vitvi13g01001 | -1.67 | 1e-16 | 7e-14 | 36 x 38 | A membrane–bounded organelle of eukaryotic cells in which | 1 |
| 18 | Vitvi14g00242 | -1.48 | 1e-16 | 7e-14 | 27 x 40 | Binding to ATP, adenosine 5'-triphosphate, a universally impo | 1 |
| 19 | Vitvi15g00998 | -1.09 | 1e-16 | 7e-14 | 29 x 37 | Binding to a zinc ion (Zn). | 1 |
| 20 | Vitvi15g00754 | -0.98 | 1e-16 | 7e-14 | 29 x 38 | The component of the endoplasmic reticulum membrane con: | 2 |
| | | | | | | | |



Differentially expressed gene sets

| Rank G | SZ p-val | ue #all | Geneset |
|--------|----------|---------|---------|
|--------|----------|---------|---------|

| | Overex | pressed | | | |
|----|----------------------------|----------|-------|-----|---|
| | 1 | 6.35 | 0e+00 | 140 | Hormonelskigmating sigirtalijtegne Sittmateing signaling |
| | Ż | 6.08 | 0e+00 | 73 | Transcription factipition factors REBP2 EREBP |
| E | 3 | 5.59 | 0e+00 | 64 | Transcriptionniscotipition (atterstranathreptionniscotipition factors |
| (| | 5.49 | 0e+00 | 45 | Galactos@alatatboeismetabolism |
| (| 4 5 | 5.48 | 0e+00 | 15 | Chaperor@haphssenre ≠ DNS.RRX0 / DNAK |
| | 6 | 5.35 | 0e+00 | 17 | Proteasor Prote Asserebili Assertuting factors |
| (| 7 | 5.16 | 0e+00 | 12 | Endoplas Exicloptias invitor metécrobramen embrayo esant do cytosol |
| | 8 | 4.98 | 0e+00 | 157 | Protein priðrætesinggriocessloglæsænicloefæsitaira reticulum |
| • | 9 | 4.92 | 0e+00 | 48 | Transcriptioanfactipition taketors - WRKY |
| Ц | 10 | 4.89 | 0e+00 | 18 | Chaperor@hapts8929 - HSP20 |
| | 11 | 4.42 | 0e+00 | 38 | Protein – Koltozepieren Ghapedia teed na etolip heed pau (Colon A) |
| r | 12 | 4.23 | 0e+00 | 49 | Transcriptioanfactipition MACOrs - NAC |
| | 13 | 4.12 | 0e+00 | 71 | ExosomeEx Psotei as-f Poota insrfoostokvosoosesxosomes |
| (| 14 | 3.59 | 4e-04 | 35 | Mitophagt///fampbragy factors |
| | 15 | 3.37 | 1e-03 | 38 | Protein – Claderin – Cladrated rendiziteto sis docytosis |
| (| 16 | 3.13 | 3e-03 | 77 | Carbohyd Cateborie, talboties meta Galiacotos e Galetatos eis metabolism |
| ι | 17 | 2.97 | 4e-03 | 11 | BiosynthesissynthesisdafraenetaboljametahBl/striesynthesis |
| | 18 | 2.87 | 5e-03 | 28 | Transcription faction is a Basic seu Gae iz imperio (bZIP) |
| (| 19 | 2.76 | 7e-03 | 29 | Other am 10 the cials nime tabidismeta Betia malan Betamatanin dismetabolism |
| ļ | 20 | 2.75 | 7e-03 | 45 | Valine leuk zinien enhelusione auridesobegunainetide gradation |
| | - | expresse | 4 | | |
| | 1 | -8.79 | 0 | 18 | Energy mētaboglismetalbobbos yn Pleusios amilieres às paroteims a proteins |
| | | -8.61 | 0 | 80 | Cytoskele@ntoskeletotubulkeisrotubules |
|) | 2 3 4 5 6 7 | -8.48 | 0 | 18 | Photosyn Pleusios y rathlesis a-paroteims a proteins |
| | 4 | -7.94 | 0 | 217 | Cell motilitiell metilidation explatation valoaktile to noskeleton |
| (| 5 | -7.78 | 0 | 47 | Transporterarestaturer-datestoport Televisport oelevieron carriers |
| • | 6 | -6.2 | 0 | 78 | Energy mētadrglijsmetal Bhidsosyn Placaiosynthesis |
| | 7 | -6.19 | 0 | 38 | Photosyn tPlastic synthesis |
| | 8 | -6.1 | 0 | 219 | Cell growtDealingtrodertithandDatellathicleCell cycle |
| 6 | 9 | -5.44 | 0 | 10 | Photosyn Pleasis sproute es is Ploute is ys Pelnouto (\$750 en chil (\$750 b) dhab) rophyll a |
| | 10 | -5.31 | 0 | 24 | Replication Replication Fith the IR ep DOM Collection Fractors |
| ι | 11 | -5.13 | 0 | 11 | Transcriptioanfactipition faitifiers - GRF |
| | 12 | -4.8 | 0 | 36 | DNA replication |
| | 13 | -4.67 | 0 | 40 | Transport Teasternort Styleytenkoid Teaybektinig beatheviang pathway |
| i | 14 | -4.33 | 0 | 41 | Replication |
| € | 15 | -4.28 | 0 | 41 | Porphyrin Poeptalyoitismetabolism |
| н | <u> 16</u> | -4.25 | 0 | 66 | Exosome Ex Exosoma Ex |
| | 17 | -4.02 | 0 | 34 | Peptidase Septidas leisti itatus in Hibitoihs S1Ramily S10 |
| 0 | 18 | -4 | 0 | 247 | Translatio Translatiosome Ribosome |
| | 19 | -3.8 | 0 | 129 | Enzyme -E8z2yn@elye@s@la@elycosylases |
| I. | 20 | -3.76 | 0 | 211 | Ribosome Ribosome |
| | | | | | |

