

Reactome Analysis Result

07 March, 2025

Introduction

This report summarizes the pathway analysis result created by the **Reactome Analysis Service**. For more information, visit <https://www.reactome.org>.

In this reports, pathways found differentially expressed at an adjusted p-value ≤ 0.05 are considered to be significantly regulated.

Analysis Overview

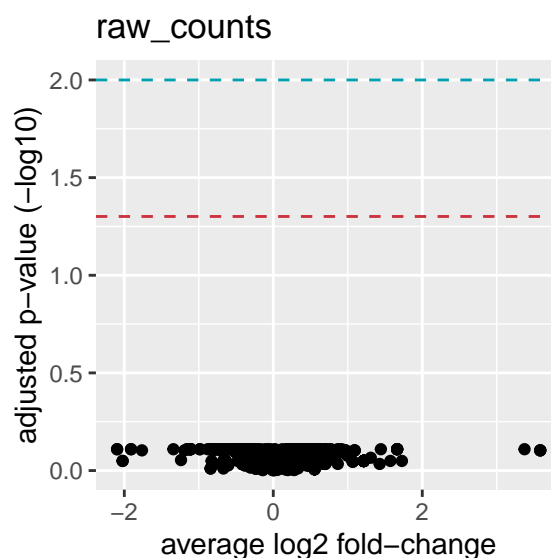
- Number of datasets analysed: 1
- Reactome version: 91
- Disease pathways were included

Dataset summaries

raw_counts:

- 1248 pathways
- 169 fold changes for genes / proteins

Pathway analysis



These volcano plots summarize the pathway results for every dataset. Every point is one pathway. The x-axis represents the average fold-change of all genes / proteins within that pathway. The y-axis represents the p-value where “higher” values are more significant (-log10 transformation). The red line represents $p = 0.05$, and the blue line $p = 0.01$.

Note

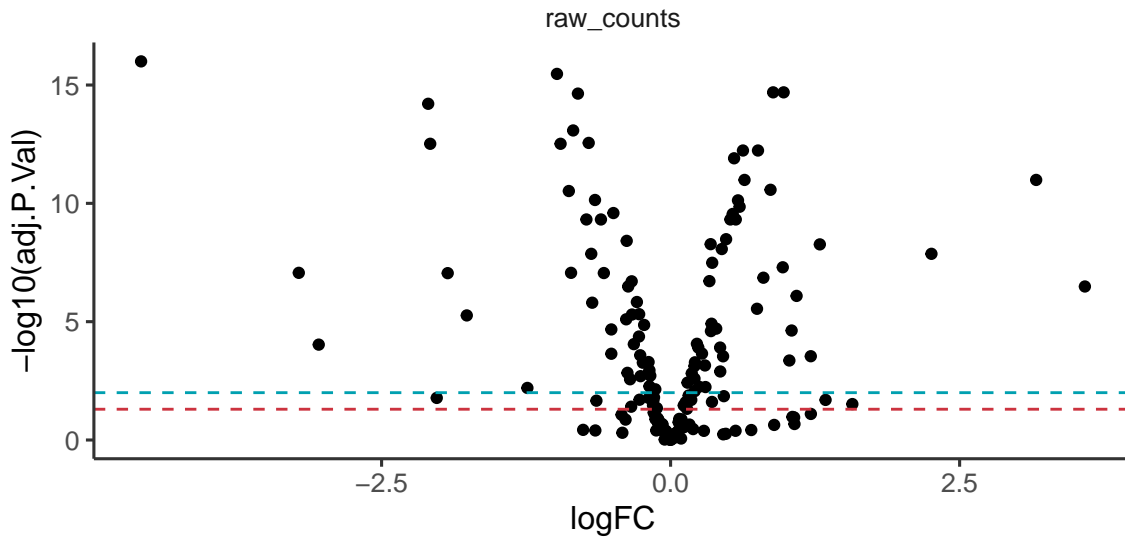
Since this result only contains a single datasets, some analyses are not included in this report.

Top-regulated pathways

Protein / Gene level results

Classical differential expression analysis performed on the genes / proteins of every dataset.

Note: Depending on the gene set analysis method used, the approach used to assess differential expression at the gene / protein level may vary to the approach used for the pathway level.



Top up-regulated protein/genes

raw_counts

Identifier	logFC	AveExpr	t	P.Value	adj.P.Val	B
ENSRNOG000000015182	0.9778436	10.498338	17.05090	0	0	27.94396
ENSRNOG000000023509	0.8869494	10.060531	17.00594	0	0	27.90761
ENSRNOG000000005933	0.6258944	10.524316	13.23823	0	0	20.97864
ENSRNOG000000047466	0.7558922	10.065311	13.21190	0	0	20.95855
ENSRNOG000000019400	0.5493357	12.114474	12.79059	0	0	20.04864
ENSRNOG000000021817	3.1620901	3.677477	11.71998	0	0	19.16804
ENSRNOG000000059381	0.6394522	9.788783	11.70495	0	0	17.82648
ENSRNOG000000008180	0.8643211	7.448377	11.23133	0	0	17.26863
ENSRNOG000000051170	0.5830063	12.049730	10.69150	0	0	15.46024
ENSRNOG000000009495	0.5969325	9.696374	10.39527	0	0	14.87211

Top down-regulated protein/genes
raw_counts

Identifier	logFC	AveExpr	t	P.Value	adj.P.Val	B
ENSRNOG00000001254	-4.5802817	5.946326	-19.91237	0	0	33.24932
ENSRNOG00000038686	-0.9828336	9.498773	-18.60282	0	0	30.56622
ENSRNOG00000020440	-0.8015616	10.090671	-16.79323	0	0	27.56995
ENSRNOG00000010645	-2.0968838	6.860696	-16.08702	0	0	27.16011
ENSRNOG00000003897	-0.8429220	18.884965	-14.52511	0	0	23.55911
ENSRNOG00000011589	-0.7084904	10.682087	-13.80515	0	0	22.10447
ENSRNOG00000033835	-2.0793310	6.297096	-13.64354	0	0	22.73536
ENSRNOG00000018524	-0.9517930	8.884146	-13.66454	0	0	22.12940
ENSRNOG000000052499	-0.8801850	8.327762	-11.14939	0	0	16.93112
ENSRNOG00000011302	-0.6538737	9.542663	-10.73229	0	0	15.70281