Table: GSEA Results Summary

|  |  |
| --- | --- |
|  |  |
| Dataset | means\_all\_collapsed\_to\_symbols.labels.cls#triple\_means\_peak |
| Phenotype | labels.cls#triple\_means\_peak |
| Upregulated in class | triple\_means\_peak\_neg |
| GeneSet | GOBP\_NEGATIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH |
| Enrichment Score (ES) | -0.61886543 |
| Normalized Enrichment Score (NES) | -1.8017199 |
| Nominal p-value | 0.004048583 |
| FDR q-value | 0.095535435 |
| FWER p-Value | 0.765 |



Fig 1: Enrichment plot: GOBP\_NEGATIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH

Profile of the Running ES Score & Positions of GeneSet Members on the Rank Ordered List

Table: GSEA details [[plain text format]](http://docs.google.com/GOBP_NEGATIVE_REGULATION_OF_DEVELOPMENTAL_GROWTH.tsv)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | SYMBOL | TITLE | RANK IN GENE LIST | RANK METRIC SCORE | RUNNING ES | CORE ENRICHMENT |
| 1 | [CDKN1A](https://ensembl.org/Search/Results?q=CDKN1A) | cyclin dependent kinase inhibitor 1A [Source:HGNC Symbol;Acc:HGNC:1784] | 209 | 0.191 | -0.0905 | No |
| 2 | [KCNK2](https://ensembl.org/Search/Results?q=KCNK2) | potassium two pore domain channel subfamily K member 2 [Source:HGNC Symbol;Acc:HGNC:6277] | 251 | 0.154 | -0.0782 | No |
| 3 | [GDF15](https://ensembl.org/Search/Results?q=GDF15) | growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142] | 523 | -0.014 | -0.2560 | No |
| 4 | [MT3](https://ensembl.org/Search/Results?q=MT3) | metallothionein 3 [Source:HGNC Symbol;Acc:HGNC:7408] | 557 | -0.030 | -0.2703 | No |
| 5 | [ARHGAP4](https://ensembl.org/Search/Results?q=ARHGAP4) | Rho GTPase activating protein 4 [Source:HGNC Symbol;Acc:HGNC:674] | 645 | -0.078 | -0.3084 | No |
| 6 | [RGS4](https://ensembl.org/Search/Results?q=RGS4) | regulator of G protein signaling 4 [Source:HGNC Symbol;Acc:HGNC:10000] | 777 | -0.150 | -0.3575 | No |
| 7 | [NRP1](https://ensembl.org/Search/Results?q=NRP1) | neuropilin 1 [Source:HGNC Symbol;Acc:HGNC:8004] | 796 | -0.160 | -0.3283 | No |
| 8 | [OSTN](https://ensembl.org/Search/Results?q=OSTN) | osteocrin [Source:HGNC Symbol;Acc:HGNC:29961] | 797 | -0.162 | -0.2867 | No |
| 9 | [RGS2](https://ensembl.org/Search/Results?q=RGS2) | regulator of G protein signaling 2 [Source:HGNC Symbol;Acc:HGNC:9998] | 841 | -0.185 | -0.2677 | No |
| 10 | [LGMN](https://ensembl.org/Search/Results?q=LGMN) | legumain [Source:HGNC Symbol;Acc:HGNC:9472] | 1367 | -0.381 | -0.5207 | Yes |
| 11 | [PLAC8](https://ensembl.org/Search/Results?q=PLAC8) | placenta associated 8 [Source:HGNC Symbol;Acc:HGNC:19254] | 1416 | -0.413 | -0.4463 | Yes |
| 12 | [BMP4](https://ensembl.org/Search/Results?q=BMP4) | bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:HGNC:1071] | 1462 | -0.459 | -0.3582 | Yes |
| 13 | [SPP1](https://ensembl.org/Search/Results?q=SPP1) | secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:11255] | 1467 | -0.469 | -0.2401 | Yes |
| 14 | [NKD1](https://ensembl.org/Search/Results?q=NKD1) | NKD inhibitor of WNT signaling pathway 1 [Source:HGNC Symbol;Acc:HGNC:17045] | 1480 | -0.494 | -0.1209 | Yes |
| 15 | [RBP4](https://ensembl.org/Search/Results?q=RBP4) | retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922] | 1495 | -0.542 | 0.0094 | Yes |



Fig 2: GOBP\_NEGATIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH

Blue-Pink O' Gram in the Space of the Analyzed GeneSet



Fig 3: GOBP\_NEGATIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH: Random ES distribution

Gene set null distribution of ES for **GOBP\_NEGATIVE\_REGULATION\_OF\_DEVELOPMENTAL\_GROWTH**