## my table 1

| **Genes** | **logFC** | **F** | **PValue** | **q** | **RoPE\_rank** | **DESeq2\_rank** | **voom\_rank** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SCG2 | -1.2346 | 22.0504 | 1.64e-05 | 0.3391 | 5 | 1 | 1 |
| AC098476.1 | -1.0064 | 19.3586 | 4.64e-05 | 0.3402 | 4 | 3 | 2 |
| GDA | -1.2798 | 18.6590 | 6.12e-05 | 0.3402 | 29 | 2 | 4 |
| GRIK1-AS1 | 1.4169 | 18.4701 | 6.59e-05 | 0.3402 | 32 |  | 23 |
| CENPU | 0.4709 | 16.4449 | 1.50e-04 | 0.4733 | 12 | 11 | 3 |
| MYBL1 | 0.5699 | 16.3697 | 1.54e-04 | 0.4733 | 19 | 7 | 5 |
| SLC6A20 | -0.7713 | 16.2759 | 1.61e-04 | 0.4733 | 16 | 6 | 10 |
| MRAP2 | -0.3099 | 15.8602 | 1.91e-04 | 0.4893 | 14 | 10 | 7 |
| STOM | -0.5319 | 15.4782 | 2.24e-04 | 0.4893 | 22 | 12 | 11 |
| IL17REL | -1.7700 | 15.3379 | 2.37e-04 | 0.4893 | 30 | 5 | 830 |
| STEAP4 | 0.4353 | 14.7151 | 3.08e-04 | 0.5782 | 21 | 16 | 6 |
| ZNF385D | 1.4584 | 14.4908 | 3.39e-04 | 0.5829 | 9 |  | 8 |
| LGR5 | 1.2442 | 14.1190 | 3.97e-04 | 0.6305 | 284 |  | 71 |
| CST1 | -3.6104 | 13.7078 | 4.74e-04 | 0.6525 | 3,277 | 4 | 6,016 |
| CGNL1 | 0.4477 | 13.7058 | 4.74e-04 | 0.6525 | 31 | 18 | 9 |
| SERPINB9 | -0.5773 | 13.5215 | 5.14e-04 | 0.6624 | 91 | 17 | 20 |
| SLC9A3 | -1.6721 | 13.3222 | 5.60e-04 | 0.6795 | 11 | 8 | 86 |
| SCGB3A1 | 1.3919 | 13.0900 | 6.19e-04 | 0.6795 | 33 | 13 | 12 |
| DPP4 | -1.3465 | 13.0669 | 6.26e-04 | 0.6795 | 204 | 9 | 401 |
| DEPP1 | -0.8028 | 12.6906 | 7.37e-04 | 0.7301 | 44 | 19 | 200 |

## my table 2

| **Genes** | **logFC** | **stat** | **pvalue** | **padj** | **RoPE\_rank** | **edgeR\_rank** | **voom\_rank** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SCG2 | -0.8595 | -5.0779 | 3.82e-07 | 0.0068 | 5 | 1 | 1 |
| GDA | -0.8916 | -4.8820 | 1.05e-06 | 0.0094 | 29 | 3 | 4 |
| AC098476.1 | -0.7017 | -4.6822 | 2.84e-06 | 0.0169 | 4 | 2 | 2 |
| CST1 | -2.3846 | -4.4593 | 8.22e-06 | 0.0367 | 3,277 | 14 | 6,016 |
| IL17REL | -1.2349 | -4.3499 | 1.36e-05 | 0.0486 | 30 | 10 | 830 |
| SLC6A20 | -0.5367 | -4.2057 | 2.60e-05 | 0.0665 | 16 | 7 | 10 |
| MYBL1 | 0.3928 | 4.1814 | 2.90e-05 | 0.0665 | 19 | 6 | 5 |
| SLC9A3 | -1.1609 | -4.1749 | 2.98e-05 | 0.0665 | 11 | 17 | 86 |
| DPP4 | -0.9392 | -4.1344 | 3.56e-05 | 0.0705 | 204 | 19 | 401 |
| MRAP2 | -0.2161 | -4.0287 | 5.61e-05 | 0.0990 | 14 | 8 | 7 |
| CENPU | 0.3263 | 3.9886 | 6.65e-05 | 0.0990 | 12 | 5 | 3 |
| STOM | -0.3688 | -3.9881 | 6.66e-05 | 0.0990 | 22 | 9 | 11 |
| SCGB3A1 | 0.9647 | 3.9426 | 8.06e-05 | 0.1106 | 33 | 18 | 12 |
| RPN1 | -0.0966 | -3.8423 | 1.22e-04 | 0.1553 | 20 | 25 | 14 |
| CLDN5 | -1.5490 | -3.7733 | 1.61e-04 | 0.1916 | 50 | 22 | 385 |
| STEAP4 | 0.2999 | 3.7372 | 1.86e-04 | 0.2074 | 21 | 11 | 6 |
| SERPINB9 | -0.4000 | -3.7053 | 2.11e-04 | 0.2215 | 91 | 16 | 20 |
| CGNL1 | 0.3089 | 3.6776 | 2.35e-04 | 0.2229 | 31 | 15 | 9 |
| DEPP1 | -0.5541 | -3.6755 | 2.37e-04 | 0.2229 | 44 | 20 | 200 |
| AACSP1 | 0.7123 | 3.6424 | 2.70e-04 | 0.2409 | 165 | 21 | 80 |

## my table 3

| **Genes** | **logFC** | **t** | **P.Value** | **adj.P.Val** | **RoPE\_rank** | **edgeR\_rank** | **DESeq2\_rank** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SCG2 | -1.1981 | -4.6547 | 1.89e-05 | 0.3910 | 5 | 1 | 1 |
| AC098476.1 | -1.0365 | -4.4046 | 4.55e-05 | 0.4439 | 4 | 2 | 3 |
| CENPU | 0.5039 | 4.3032 | 6.45e-05 | 0.4439 | 12 | 5 | 11 |
| GDA | -1.2664 | -4.1884 | 9.54e-05 | 0.4924 | 29 | 3 | 2 |
| MYBL1 | 0.5480 | 3.9915 | 1.85e-04 | 0.6008 | 19 | 6 | 7 |
| STEAP4 | 0.4557 | 3.9881 | 1.87e-04 | 0.6008 | 21 | 11 | 16 |
| MRAP2 | -0.3084 | -3.9455 | 2.15e-04 | 0.6008 | 14 | 8 | 10 |
| ZNF385D | 1.6756 | 3.8757 | 2.70e-04 | 0.6008 | 9 | 12 |  |
| CGNL1 | 0.4616 | 3.8667 | 2.78e-04 | 0.6008 | 31 | 15 | 18 |
| SLC6A20 | -0.7529 | -3.8530 | 2.91e-04 | 0.6008 | 16 | 7 | 6 |
| STOM | -0.4900 | -3.7500 | 4.06e-04 | 0.7622 | 22 | 9 | 12 |
| SCGB3A1 | 1.4244 | 3.7025 | 4.73e-04 | 0.8135 | 33 | 18 | 13 |
| PCDHGA7 | 0.4944 | 3.5410 | 7.87e-04 | 0.9998 | 99 | 38 | 43 |
| RPN1 | -0.1357 | -3.4671 | 9.90e-04 | 0.9998 | 20 | 25 | 14 |
| MED24 | -0.2050 | -3.4622 | 1.00e-03 | 0.9998 | 25 | 23 | 22 |
| DOLK | -0.1633 | -3.4510 | 1.04e-03 | 0.9998 | 23 | 26 | 21 |
| PIP5K1B | -0.3728 | -3.4171 | 1.15e-03 | 0.9998 | 39 | 28 | 33 |
| VWA5A | -0.2640 | -3.3637 | 1.36e-03 | 0.9998 | 45 | 29 | 29 |
| CSF2RB | -0.7170 | -3.3573 | 1.38e-03 | 0.9998 | 7 | 392 | 273 |
| SERPINB9 | -0.4958 | -3.3557 | 1.39e-03 | 0.9998 | 91 | 16 | 17 |

## my table 4

| **NAME** | **SIZE** | **ES** | **NES** | **NOM.p.val** | **FDR.q.val** |
| --- | --- | --- | --- | --- | --- |
| HALLMARK\_IL6\_JAK\_STAT3\_SIGNALING | 75 | 0.7382 | 1.3999 | 0.0000 | 0.0230 |
| HALLMARK\_HEDGEHOG\_SIGNALING | 33 | 0.7087 | 1.3051 | 0.0070 | 0.0520 |
| HALLMARK\_INFLAMMATORY\_RESPONSE | 186 | 0.6625 | 1.2848 | 0.0000 | 0.0490 |
| HALLMARK\_TNFA\_SIGNALING\_VIA\_NFKB | 196 | 0.6457 | 1.2553 | 0.0000 | 0.0610 |
| HALLMARK\_KRAS\_SIGNALING\_UP | 175 | 0.6422 | 1.2469 | 0.0000 | 0.0592 |
| HALLMARK\_EPITHELIAL\_MESENCHYMAL\_TRANSITION | 186 | 0.6337 | 1.2285 | 0.0000 | 0.0687 |
| HALLMARK\_PANCREAS\_BETA\_CELLS | 16 | 0.6743 | 1.1830 | 0.1522 | 0.1431 |
| HALLMARK\_ANGIOGENESIS | 30 | 0.6226 | 1.1475 | 0.1700 | 0.2473 |
| HALLMARK\_WNT\_BETA\_CATENIN\_SIGNALING | 40 | 0.6163 | 1.1401 | 0.1280 | 0.2539 |
| HALLMARK\_XENOBIOTIC\_METABOLISM | 176 | 0.5841 | 1.1310 | 0.0190 | 0.2750 |