**DSCL V NAWM**

**Top 20 upregulated expressed genes**

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| Affymetrix ID | Gene Symbol | Gene | Fold Change |
| 231814\_at | MUC12 | mucin 12, cell surface associated | 6.07353 |
| 1561257\_at | LOC286083 | uncharacterized LOC286083 | 4.914126 |
| 1565483\_at | EGFR | epidermal growth factor receptor | 4.228013 |
| 1569153\_at | GRAMD4 | GRAM domain containing 4 | 4.103955 |
| 1567058\_at | OR8G2 | olfactory receptor, family 8, subfamily G, member 2 | 4.093202 |
| 217110\_s\_at | MUC4 | mucin 4, cell surface associated | 3.639449 |
| 65585\_at | FAM86B1 | family with sequence similarity 86, member B1 pseudogene | 3.35504 |
| 216113\_at | ABI2 | abl-interactor 2 | 3.323549 |
| 227149\_at | TNRC6C | trinucleotide repeat containing 6C | 3.322617 |
| 1558333\_at | C22orf15 | chromosome 22 open reading frame 15 | 3.317163 |
| 1557027\_at | LOC100287221 | uncharacterized LOC100287221 | 3.289789 |
| 215943\_at | KIAA1661 | KIAA1661 protein | 3.256077 |
| 206475\_x\_at | CSH1 /// CSHL1 | chorionic somatomammotropin hormone 1 (placental lactogen) /// chorionic somatomammotropin hormone-like 1 | 3.102745 |
| 1567056\_at | OR8G2 | olfactory receptor, family 8, subfamily G, member 2 | 3.048332 |
| 1569154\_a\_at | GRAMD4 | GRAM domain containing 4 | 3.028482 |
| 1562495\_at | ANKFY1 | ankyrin repeat and FYVE domain containing 1 | 2.998073 |
| 217665\_at | ZNF813 | zinc finger protein 813 | 2.95655 |
| 207934\_at | RFPL1 | ret finger protein-like 1 | 2.888199 |
| 207444\_at | SLC22A13 | solute carrier family 22 (organic anion/urate transporter), member 13 | 2.87698 |
| 1566785\_x\_at | NSF | N-ethylmaleimide-sensitive factor | 2.874956 |

**Top 20 downregulated genes**

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| Affymetrix ID | Gene Symbol | Gene | Fold Change |
| 223247\_at | MED10 | mediator complex subunit 10 | 0.83 |
| 237437\_s\_at | ADARB2 | adenosine deaminase, RNA-specific, B2 (inactive) | 0.83 |
| 229509\_at | MFSD8 | major facilitator superfamily domain containing 8 | 0.83 |
| 218307\_at | RSAD1 | radical S-adenosyl methionine domain containing 1 | 0.83 |
| 214886\_s\_at | N4BP2L1 | NEDD4 binding protein 2-like 1 | 0.82 |
| 208412\_s\_at | RARB | retinoic acid receptor, beta | 0.82 |
| 227815\_at | VPS33A | vacuolar protein sorting 33 homolog A (S. cerevisiae) | 0.82 |
| 203213\_at | CDK1 | cyclin-dependent kinase 1 | 0.81 |
| 1559283\_a\_at | CNPY1 | canopy FGF signaling regulator 1 | 0.81 |
| 57532\_at | DVL2 | dishevelled segment polarity protein 2 | 0.81 |
| 218174\_s\_at | TMEM254 | transmembrane protein 254 | 0.81 |
| 219817\_at | MAPKAPK5-AS1 | MAPKAPK5 antisense RNA 1 | 0.81 |
| 224750\_at | RNF185 | ring finger protein 185 | 0.80 |
| 34206\_at | ARAP1 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 | 0.80 |
| 215104\_at | NRIP2 | nuclear receptor interacting protein 2 | 0.79 |
| 238158\_at | MEIG1 | meiosis/spermiogenesis associated 1 | 0.79 |
| 238513\_at | PRRG4 | proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane) | 0.79 |
| 218188\_s\_at | TIMM13 | translocase of inner mitochondrial membrane 13 homolog (yeast) | 0.78 |
| 204518\_s\_at | PPIC | peptidylprolyl isomerase C (cyclophilin C) | 0.78 |
| 1557458\_s\_at | SHB | Src homology 2 domain containing adaptor protein B | 0.78 |

**Top 20 upregulated genes in Control v NAWM**

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| Affymetrix ID | Gene Symbol | Gene Title | Fold Change |
| 239792\_at | UBL7-AS1 | UBL7 antisense RNA 1 (head to head) | 9.18 |
| 1560899\_at | ASTN1 | astrotactin 1 | 8.64 |
| 235993\_at | PSMF1 | proteasome inhibitor subunit 1 | 6.58 |
| 1557765\_at | LINC01021 | long intergenic non-protein coding RNA 1021 | 5.75 |
| 230978\_at | LINC00967 | long intergenic non-protein coding RNA 967 | 5.66 |
| 1565483\_at | EGFR | epidermal growth factor receptor | 5.63 |
| 1558391\_s\_at | ZNF599 | zinc finger protein 599 | 5.42 |
| 1558322\_a\_at | PAQR9 | progestin and adipoQ receptor family member IX | 5.27 |
| 214648\_at | GPX5 | glutathione peroxidase 5 | 4.96 |
| 1565484\_x\_at | EGFR | epidermal growth factor receptor | 4.89 |
| 1554744\_at | CARD16 | caspase recruitment domain family, member 16 | 4.86 |
| 204508\_s\_at | CA12 | carbonic anhydrase XII | 4.70 |
| 208481\_at | ASB4 | ankyrin repeat and SOCS box containing 4 | 4.43 |
| 220673\_s\_at | PPP4R4 | protein phosphatase 4, regulatory subunit 4 | 4.33 |
| 1563051\_at | OSBP | oxysterol binding protein | 4.23 |
| 215867\_x\_at | CA12 | carbonic anhydrase XII | 3.86 |
| 1563454\_at | SOX6 | SRY box 6 | 3.85 |
| 233205\_at | KCNMB2-AS1 | KCNMB2 antisense RNA 1 | 3.82 |
| 215561\_s\_at | IL1R1 | interleukin 1 receptor, type I | 3.69 |
| 1558787\_a\_at | TSPAN3 | tetraspanin 3 | 3.66 |

**Top 20 downregulated genes control vs NAWM**

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| Affymetrix ID | Gene Symbol | Gene Title | Fold Change |
| 201151\_s\_at | MBNL1 | muscleblind like splicing regulator 1 | 0.82 |
| 222475\_at | SAP30BP | SAP30 binding protein | 0.81 |
| 1555425\_x\_at | SSH2 | slingshot protein phosphatase 2 | 0.80 |
| 217189\_s\_at | SMG7 | SMG7 nonsense mediated mRNA decay factor | 0.79 |
| 227147\_s\_at | EGLN2 | egl-9 family hypoxia-inducible factor 2 | 0.79 |
| 242621\_at | ZSCAN25 | zinc finger and SCAN domain containing 25 | 0.79 |
| 204178\_s\_at | RBM14 | RNA binding motif protein 14 | 0.78 |
| 214212\_x\_at | FERMT2 | fermitin family member 2 | 0.78 |
| 232022\_at | TFB1M | transcription factor B1, mitochondrial | 0.78 |
| 214886\_s\_at | N4BP2L1 | NEDD4 binding protein 2-like 1 | 0.78 |
| 203239\_s\_at | CNOT3 | CCR4-NOT transcription complex subunit 3 | 0.78 |
| 228544\_s\_at | CSRP2BP /// PET117 | CSRP2 binding protein /// PET117 homolog | 0.77 |
| 213726\_x\_at | TUBB4B | tubulin, beta 4B class IVb | 0.77 |
| 216308\_x\_at | GRHPR | glyoxylate reductase/hydroxypyruvate reductase | 0.77 |
| 227967\_at | TUBGCP5 | tubulin, gamma complex associated protein 5 | 0.77 |
| 214797\_s\_at | CDK18 | cyclin-dependent kinase 18 | 0.77 |
| 202111\_at | SLC4A2 | solute carrier family 4 (anion exchanger), member 2 | 0.77 |
| 231713\_s\_at | ELP2 | elongator acetyltransferase complex subunit 2 | 0.76 |
| 208336\_s\_at | TECR | trans-2,3-enoyl-CoA reductase | 0.76 |
| 213052\_at | PRKAR2A | protein kinase, cAMP-dependent, regulatory, type II, alpha | 0.76 |

**Top 20 upregulated genes in Control v DSCL**

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| --- | --- | --- | --- |
| Affymetrix ID | Gene Symbol | Gene Title | Fold Change |
| 239792\_at | UBL7-AS1 | UBL7 antisense RNA 1 (head to head) | 9.04 |
| 1558668\_s\_at | SPATA22 | spermatogenesis associated 22 | 8.41 |
| 220324\_at | LINC00472 | long intergenic non-protein coding RNA 472 | 7.80 |
| 214059\_at | IFI44 | interferon-induced protein 44 | 7.12 |
| 240776\_at | PGR | progesterone receptor | 6.62 |
| 216049\_at | RHOBTB3 | Rho-related BTB domain containing 3 | 6.61 |
| 204728\_s\_at | WDHD1 | WD repeat and HMG-box DNA binding protein 1 | 6.26 |
| 225297\_at | HAUS1 | HAUS augmin like complex subunit 1 | 5.90 |
| 230943\_at | SOX17 | SRY box 17 | 5.87 |
| 203131\_at | PDGFRA | platelet-derived growth factor receptor, alpha polypeptide | 5.65 |
| 1554744\_at | CARD16 | caspase recruitment domain family, member 16 | 5.52 |
| 211711\_s\_at | PTEN | phosphatase and tensin homolog | 5.41 |
| 241703\_at | RUNDC3B | RUN domain containing 3B | 5.39 |
| 210462\_at | BLZF1 | basic leucine zipper nuclear factor 1 | 5.35 |
| 241981\_at | FAM20A | family with sequence similarity 20, member A | 5.23 |
| 1568711\_a\_at | LOC105369860 | uncharacterized LOC105369860 | 5.14 |
| 211990\_at | HLA-DPA1 | major histocompatibility complex, class II, DP alpha 1 | 5.09 |
| 212819\_at | ASB1 | ankyrin repeat and SOCS box containing 1 | 4.94 |
| 242408\_at | STYX | serine/threonine/tyrosine interacting protein | 4.89 |
| 216086\_at | SV2C | synaptic vesicle glycoprotein 2C | 4.88 |

**Top 20 downregulated genes control v DSCL**

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| Affymetrix ID | Gene Symbol | Gene Title | Fold Change |
| 219019\_at | PIDD1 | p53-induced death domain protein 1 | 0.83 |
| 1559344\_at | LOC101929064 | uncharacterized LOC101929064 | 0.80 |
| 212516\_at | ARAP1 | ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 | 0.80 |
| 226691\_at | TNRC18 | trinucleotide repeat containing 18 | 0.80 |
| 225906\_at | GATSL2 | GATS protein-like 2 | 0.80 |
| 228356\_at | ANKRD11 | ankyrin repeat domain 11 | 0.80 |
| 238033\_at | HEXDC | hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing | 0.79 |
| 228171\_s\_at | PLEKHG4 | pleckstrin homology domain containing, family G (with RhoGef domain) member 4 | 0.79 |
| 213166\_x\_at | MZT2A | mitotic spindle organizing protein 2A | 0.79 |
| 226043\_at | GPSM1 | G-protein signaling modulator 1 | 0.79 |
| 219814\_at | MBNL3 | muscleblind-like splicing regulator 3 | 0.78 |
| 227147\_s\_at | EGLN2 | egl-9 family hypoxia-inducible factor 2 | 0.78 |
| 1566301\_at | PPP1R11 | protein phosphatase 1, regulatory (inhibitor) subunit 11 | 0.78 |
| 222064\_s\_at | AARSD1 | alanyl-tRNA synthetase domain containing 1 | 0.78 |
| 212424\_at | PDCD11 | programmed cell death 11 | 0.77 |
| 223216\_x\_at | FBXO16 /// ZNF395 | F-box protein 16 /// zinc finger protein 395 | 0.77 |
| 217928\_s\_at | PPP6R3 | protein phosphatase 6, regulatory subunit 3 | 0.77 |
| 202573\_at | CSNK1G2 | casein kinase 1, gamma 2 | 0.76 |
| 220272\_at | BNC2 | basonuclin 2 | 0.76 |
| 202401\_s\_at | SRF | serum response factor | 0.76 |