

Supplemental Table 2a

| Annotation Cluster 1 | Enrichment Score | 2.09 |
|-------------------------------------------|-------------------------|-----------------------------------------------|
| Term | p-value | Genes |
| GO0006935~chemotaxis | 0.002 | ROBO1, S100A9, CCL9, CCL17, CCL6 |
| GO0042330~taxis | 0.002 | ROBO1, S100A9, CCL9, CCL17, CCL6 |
| GO0007610~behavior | 0.010 | ROBO1, S100A9, CCL9, ZIC1, APBB1, CCL17, CCL6 |
| GO0007626~locomotory behavior | 0.024 | ROBO1, S100A9, CCL9, CCL17, CCL6 |
| GO0006955~immune response | 0.063 | THEMIS, CCL9, CFI, LTB, CCL17, CCL6 |
| | | |
| Annotation Cluster 2 | Enrichment Score | 1.99 |
| Term | p-value | Genes |
| GO0016477~cell migration | 0.005 | VAV3, TNS1, MDGA1, S100A9, ESR2, APBB1 |
| GO0006928~cell motion | 0.006 | VAV3, TNS1, ROBO1, MDGA1, S100A9, ESR2, APBB1 |
| GO0048870~cell motility | 0.009 | VAV3, TNS1, MDGA1, S100A9, ESR2, APBB1 |
| GO0051674~localization of cell | 0.009 | VAV3, TNS1, MDGA1, S100A9, ESR2, APBB1 |
| GO0001764~neuron migration | 0.041 | MDGA1, ESR2, APBB1 |
| | | |
| Annotation Cluster 3 | Enrichment Score | 0.94 |
| Term | p-value | Genes |
| GO0030029~actin filament-based process | 0.046 | ACTA1, S100A9, CNN1, APBB1 |
| GO0030036~actin cytoskeleton organization | 0.174 | ACTA1, S100A9, CNN1 |
| GO0007010~cytoskeleton organization | 0.186 | ACTA1, S100A9, CNN1, TACC2 |

Supplemental Table 2b

| Annotation Cluster 1 | Enrichment Score | 12.61 |
|----------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GO Term | p-value | Genes |
| 0048232~male gamete generation | 0.000 | RAD51C, RNF17, SOX3, ADAD1, MAEL, GGT1, ZBTB16, SOHLH1, SOHLH2, TAF7L, STRA8, DDX25, OVOL1, PIWIL2, DAZL, SPATA5, TDRD1, CCNB1IP1, MSH4, TLE3, MORC1, HMGA1, REC8, CLGN, TEX15, SYCP3, TCFL5, D1PAS1, SPATA19, DMC1 |
| 0007283~spermato-genesis | 0.000 | RAD51C, RNF17, SOX3, ADAD1, MAEL, GGT1, ZBTB16, SOHLH1, SOHLH2, TAF7L, STRA8, DDX25, OVOL1, PIWIL2, DAZL, SPATA5, TDRD1, CCNB1IP1, MSH4, TLE3, MORC1, HMGA1, REC8, CLGN, TEX15, SYCP3, TCFL5, D1PAS1, SPATA19, DMC1 |
| 0019953~sexual reproduction | 0.000 | RAD51C, RNF17, SOX3, ADAD1, FIGLA, MAEL, ASZ1, GGT1, ZBTB16, SYCP2, SOHLH1, SOHLH2, TAF7L, ZPBP, STRA8, DDX25, OVOL1, PIWIL2, DAZL, DND1, SPATA5, TDRD1, CCNB1IP1, MSH4, TLE3, MORC1, HMGA1, REC8, TEX15, CLGN, TCFL5, SYCP3, D1PAS1, SPATA19, DMC1, TEX11 |
| 0007276~gamete generation | 0.000 | RAD51C, RNF17, SOX3, ADAD1, FIGLA, MAEL, ASZ1, GGT1, ZBTB16, SOHLH1, SOHLH2, TAF7L, STRA8, DDX25, OVOL1, PIWIL2, DAZL, DND1, SPATA5, TDRD1, CCNB1IP1, MSH4, TLE3, MORC1, HMGA1, REC8, CLGN, TEX15, TCFL5, SYCP3, D1PAS1, SPATA19, DMC1 |
| 0032504~multicellular organism reproduction | 0.000 | RAD51C, RNF17, SOX3, ADAD1, FIGLA, MAEL, ASZ1, GGT1, ZBTB16, SOHLH1, SOHLH2, TAF7L, STRA8, DDX25, OVOL1, PIWIL2, DAZL, CHRNA7, DND1, SPATA5, TDRD1, CCNB1IP1, FOXL2, MSH4, TLE3, MORC1, HMGA1, REC8, CLGN, TEX15, TCFL5, SYCP3, D1PAS1, SPATA19, DMC1 |
| 0048609~reproductive process in a multicellular organism | 0.000 | RAD51C, RNF17, SOX3, ADAD1, FIGLA, MAEL, ASZ1, GGT1, ZBTB16, SOHLH1, SOHLH2, TAF7L, STRA8, DDX25, OVOL1, PIWIL2, DAZL, CHRNA7, DND1, SPATA5, TDRD1, CCNB1IP1, FOXL2, MSH4, TLE3, MORC1, HMGA1, REC8, CLGN, TEX15, TCFL5, SYCP3, D1PAS1, SPATA19, DMC1 |
| | | |
| Annotation Cluster 2 | Enrichment Score | 10.53 |
| GO Term | p-value | Genes |
| 0007127~meiosis I | 0.000 | CCNB1IP1, RAD51C, MSH4, MAEL, CPEB1, SYCP1, RAD51, REC8, TEX15, STRA8, SYCP3, OVOL1, PIWIL2, DMC1, TEX11 |

| | | |
|--------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0007126~meiosis | 0.000 | CCNB1IP1, RAD51C, MSH4, MAEL, CPEB1, SYCP2, SYCP1, RAD51, SUV39H2, REC8, CLGN, TEX15, STRA8, SYCP3, OVOL1, PIWIL2, DMC1, TDRD1, TEX11, SMC1B |
| 0051327~M phase of meiotic cell cycle | 0.000 | CCNB1IP1, RAD51C, MSH4, MAEL, CPEB1, SYCP2, SYCP1, RAD51, SUV39H2, REC8, CLGN, TEX15, STRA8, SYCP3, OVOL1, PIWIL2, DMC1, TDRD1, TEX11, SMC1B |
| 0051321~meiotic cell cycle | 0.000 | CCNB1IP1, RAD51C, MSH4, MAEL, CPEB1, SYCP2, SYCP1, RAD51, SUV39H2, REC8, CLGN, TEX15, STRA8, SYCP3, OVOL1, PIWIL2, DMC1, TDRD1, TEX11, SMC1B |
| 0000279~M phase | 0.000 | RAD51C, NEK3, MAEL, CPEB1, SYCP2, SYCP1, STRA8, OVOL1, PIWIL2, TDRD1, HELLS, CCNB1IP1, MSH4, RAD51, SUV39H2, FSD1, REC8, CLGN, TEX15, SYCP3, HORMAD1, HORMAD2, DMC1, SMC1B, TEX11 |
| 0022403~cell cycle phase | 0.000 | RAD51C, NEK3, MAEL, CPEB1, SYCP2, SYCP1, STRA8, OVOL1, PIWIL2, TDRD1, HELLS, CCNB1IP1, MSH4, RAD51, SUV39H2, FSD1, REC8, CLGN, TEX15, SYCP3, HORMAD1, HORMAD2, DMC1, SMC1B, TEX11 |
| 0022402~cell cycle process | 0.000 | RAD51C, NEK3, MAEL, CPEB1, SYCP2, SYCP1, UHMK1, CDKN2A, STRA8, OVOL1, PIWIL2, TDRD1, HELLS, CCNB1IP1, MSH4, RAD51, SUV39H2, FSD1, REC8, CLGN, TEX15, SYCP3, HORMAD1, HORMAD2, DMC1, TEX11, SMC1B |
| 0007049~cell cycle | 0.000 | RAD51C, NEK3, MAEL, CPEB1, SYCP2, SYCP1, UHMK1, CDKN2A, STRA8, FANCI, OVOL1, PIWIL2, TDRD1, HELLS, CCNB1IP1, TRNP1, MSH4, SUV39H2, RAD51, FSD1, REC8, TEX15, CLGN, SYCP3, UBA3, HORMAD1, RBM38, HORMAD2, DMC1, TEX11, SMC1B |
| | | |
| Annotation Cluster 3 | Enrichment Score | 2.73 |
| GO Term | p-value | Genes |
| 0007062~sister chromatid cohesion | 0.001 | RAD51C, SYCP3, STRA8, SMC1B |
| 0045132~meiotic chromosome segregation | 0.001 | RAD51C, SYCP3, STRA8, TEX11 |
| 0007066~female meiosis sister chromatid cohesion | 0.002 | RAD51C, SYCP3, STRA8 |
| 0007143~female meiosis | 0.003 | RAD51C, SYCP3, STRA8, SYCP2 |
| 0051177~meiotic sister chromatid cohesion | 0.004 | RAD51C, SYCP3, STRA8 |

| | | |
|------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | |
| Annotation Cluster 4 | Enrichment Score | 2.33 |
| GO Term | p-value | Genes |
| 0010557~positive regulation of macromolecule biosynthetic process | 0.001 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, LIN28A, ISL1, HMGA1, SHH, SALL4, OVOL2, KRT17, IRF6, PAX8, POU2F2, POU3F3, PIWIL2, DAZL, EAF2, NFIB |
| 0031328~positive regulation of cellular biosynthetic process | 0.002 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, LIN28A, ISL1, HMGA1, SHH, SALL4, OVOL2, KRT17, IRF6, PAX8, POU2F2, POU3F3, PIWIL2, DAZL, EAF2, NFIB |
| 0009891~positive regulation of biosynthetic process | 0.002 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, LIN28A, ISL1, HMGA1, SHH, SALL4, OVOL2, KRT17, IRF6, PAX8, POU2F2, POU3F3, PIWIL2, DAZL, EAF2, NFIB |
| 0010604~positive regulation of macromolecule metabolic process | 0.002 | FGF8, HNF1B, HTATIP2, GLIS1, EHF, LIN28A, SHH, OVOL2, POU2F2, PAX8, POU3F3, PIWIL2, DAZL, UTF1, FOXL2, SIX2, GRHL3, RICTOR, ISL1, HMGA1, SALL4, KRT17, IRF6, EAF2, NFIB |
| 0010628~positive regulation of gene expression | 0.005 | FOXL2, UTF1, HNF1B, FGF8, HTATIP2, GLIS1, SIX2, EHF, GRHL3, ISL1, HMGA1, SHH, SALL4, OVOL2, IRF6, PAX8, POU2F2, POU3F3, EAF2, NFIB |
| 0045941~positive regulation of transcription | 0.008 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, ISL1, HMGA1, SHH, SALL4, OVOL2, IRF6, PAX8, POU2F2, POU3F3, EAF2, NFIB |
| 0045935~positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process | 0.017 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, ISL1, HMGA1, SHH, SALL4, OVOL2, IRF6, PAX8, POU2F2, POU3F3, EAF2, NFIB |
| 0051173~positive regulation of nitrogen compound metabolic process | 0.022 | FOXL2, UTF1, HNF1B, HTATIP2, GLIS1, SIX2, EHF, GRHL3, ISL1, HMGA1, SHH, SALL4, OVOL2, IRF6, PAX8, POU2F2, POU3F3, EAF2, NFIB |
| | | |
| Annotation Cluster 5 | Enrichment Score | 2.21 |
| GO Term | p-value | Genes |
| 0022602~ovulation cycle process | 0.003 | FOXL2, STRA8, MSH4, CHRNA7, DMC1, SOHLH1 |
| 0042698~ovulation cycle | 0.003 | FOXL2, STRA8, MSH4, CHRNA7, DMC1, SOHLH1 |
| 0001541~ovarian follicle development | 0.004 | FOXL2, STRA8, MSH4, DMC1, SOHLH1 |
| 0048511~rhythmic process | 0.049 | FOXL2, STRA8, MSH4, CHRNA7, DMC1, SOHLH1 |
| | | |

| Annotation Cluster 6 | Enrichment Score | 2.13 |
|--------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GO Term | p-value | Genes |
| 0001541~ovarian follicle development | 0.004 | FOXL2, STRA8, MSH4, DMC1, SOHLH1 |
| 0008585~female gonad development | 0.004 | FOXL2, STRA8, MSH4, LHX8, DMC1, SOHLH1 |
| 0046545~development of primary female sexual characteristics | 0.006 | FOXL2, STRA8, MSH4, LHX8, DMC1, SOHLH1 |
| 0008406~gonad development | 0.009 | FOXL2, STRA8, MSH4, LHX8, DMC1, SOHLH1, TEX11 |
| 0046660~female sex differentiation | 0.010 | FOXL2, STRA8, MSH4, LHX8, DMC1, SOHLH1 |
| 0048608~reproductive structure development | 0.017 | FOXL2, STRA8, MSH4, LHX8, DMC1, SOHLH1, SHH, TEX11 |
| | | |
| Annotation Cluster 7 | Enrichment Score | 1.99 |
| GO Term | p-value | Genes |
| 0021795~cerebral cortex cell migration | 0.004 | DAB1, POU3F3, LHX6, RELN |
| 0022029~telencephalon cell migration | 0.005 | DAB1, POU3F3, LHX6, RELN |
| 0021885~forebrain cell migration | 0.006 | DAB1, POU3F3, LHX6, RELN |
| 0021799~cerebral cortex radially oriented cell migration | 0.011 | DAB1, POU3F3, LHX6 |
| 0021543~pallium development | 0.022 | FGF8, DAB1, POU3F3, LHX6, RELN |
| 0021987~cerebral cortex development | 0.039 | DAB1, POU3F3, LHX6, RELN |
| | | |
| Annotation Cluster 8 | Enrichment Score | 1.96 |
| GO Term | p-value | Genes |
| 0044265~cellular macromolecule catabolic process | 0.003 | FOXL2, UCHL1, UBA6, HERC3, RFFL, OAS2, DNAHC12, LIN28A, PSMA8, PSMB9, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, STRA8, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| 0009057~macromolecule catabolic process | 0.007 | FOXL2, UCHL1, UBA6, HERC3, RFFL, OAS2, DNAHC12, LIN28A, PSMA8, PSMB9, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, STRA8, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |

| | | |
|--------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0051603~proteolysis involved in cellular protein catabolic process | 0.013 | UCHL1, UBA6, HERC3, RFFL, DNAHC12, PSMA8, PSMB9, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| 0044257~cellular protein catabolic process | 0.014 | UCHL1, UBA6, HERC3, RFFL, DNAHC12, PSMA8, PSMB9, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| 0043632~modification-dependent macromolecule catabolic process | 0.016 | UCHL1, UBA6, HERC3, RFFL, DNAHC12, PSMA8, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| 0019941~modification-dependent protein catabolic process | 0.016 | UCHL1, UBA6, HERC3, RFFL, DNAHC12, PSMA8, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| 0030163~protein catabolic process | 0.019 | UCHL1, UBA6, HERC3, RFFL, DNAHC12, PSMA8, PSMB9, ATE1, ZYG11B, ASB9, UBE2E3, ARIH1, USP18, SIAH1B, RNF128, UBA3, USP12, USP37, FBXO15, USP45 |
| | | |
| Annotation Cluster 9 | Enrichment Score | 1.91 |
| GO Term | p-value | Genes |
| 0010605~negative regulation of macromolecule metabolic process | 0.002 | SATB1, GTPBP4, SPINK12, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, LIN28A, SHH, ZBTB42, SALL4, CDKN2A, OVOL2, STRA8, RNF128, OVOL1, PIWIL2, POU3F3, TDRD1, HELLS |
| 0010629~negative regulation of gene expression | 0.010 | SATB1, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, LIN28A, SHH, ZBTB42, SALL4, OVOL2, OVOL1, POU3F3, PIWIL2, TDRD1, HELLS |
| 0045892~negative regulation of transcription, DNA-dependent | 0.010 | SATB1, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, OVOL1, POU3F3, HELLS |
| 0051253~negative regulation of RNA metabolic process | 0.011 | SATB1, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, OVOL1, POU3F3, HELLS |
| 0010558~negative regulation of macromolecule biosynthetic process | 0.012 | SATB1, GTPBP4, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, STRA8, RNF128, OVOL1, POU3F3, HELLS |
| 0031327~negative regulation of cellular biosynthetic process | 0.015 | SATB1, GTPBP4, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, STRA8, RNF128, OVOL1, POU3F3, HELLS |

| | | |
|------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 0045934~negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process | 0.016 | SATB1, GTPBP4, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, STRA8, OVOL1, POU3F3, HELLS |
| 0009890~negative regulation of biosynthetic process | 0.016 | SATB1, GTPBP4, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, STRA8, RNF128, OVOL1, POU3F3, HELLS |
| 0051172~negative regulation of nitrogen compound metabolic process | 0.017 | SATB1, GTPBP4, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, STRA8, OVOL1, POU3F3, HELLS |
| 0000122~negative regulation of transcription from RNA polymerase II promoter | 0.020 | SATB1, HMX1, SALL4, GABPA, GLIS1, OVOL1, MAEL, POU3F3, CBX2, SHH, ZBTB42 |
| 0016481~negative regulation of transcription | 0.041 | SATB1, HMX1, GLIS1, GABPA, MAEL, CBX2, ZBTB16, SHH, ZBTB42, SALL4, OVOL2, OVOL1, POU3F3, HELLS |
| | | |
| Annotation Cluster 10 | Enrichment Score | 1.90 |
| GO Term | p-value | Genes |
| 0030539~male genitalia development | 0.003 | FGF8, TEX15, SYCP2, SHH |
| 0046546~development of primary male sexual characteristics | 0.022 | FGF8, TEX15, SYCP2, SHH, TEX11 |
| 0046661~male sex differentiation | 0.028 | FGF8, TEX15, SYCP2, SHH, TEX11 |
| | | |
| Annotation Cluster 11 | Enrichment Score | 1.86 |
| GO Term | p-value | Genes |
| 0034587~piRNA metabolic process | 0.004 | MAEL, PIWIL2, TDRD1 |
| 0043046~DNA methylation during gametogenesis | 0.011 | MAEL, PIWIL2, TDRD1 |
| 0006306~DNA methylation | 0.011 | MAEL, PIWIL2, TDRD1, HELLS |
| 0006305~DNA alkylation | 0.011 | MAEL, PIWIL2, TDRD1, HELLS |
| 0006304~DNA modification | 0.012 | MAEL, PIWIL2, TDRD1, HELLS |
| 0016458~gene silencing | 0.028 | MAEL, PIWIL2, LIN28A, TDRD1, HELLS |

| | | |
|-------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| 0040029~regulation of gene expression, epigenetic | 0.054 | MAEL, PIWIL2, LIN28A, TDRD1, HELLS |
| Annotation Cluster 12 | Enrichment Score | 1.74 |
| GO Term | p-value | Genes |
| 0001701~in utero embryonic development | 0.009 | CCNB1IP1, HNF1B, KIF3A, GABPA, SPINT1, CX43, CDH1, ASCL2, FOXF1A, SALL4, OVOL2, COL4A3BP, KRT8 |
| 0043009~chordate embryonic development | 0.025 | CCNB1IP1, FGF8, HNF1B, KIF3A, GABPA, CX43, SPINT1, SIX2, CDH1, SHH, ASCL2, FOXF1A, SALL4, OVOL2, COL4A3BP, KRT8 |
| 0009792~embryonic development ending in birth or egg hatching | 0.027 | CCNB1IP1, FGF8, HNF1B, KIF3A, GABPA, CX43, SPINT1, SIX2, CDH1, SHH, ASCL2, FOXF1A, SALL4, OVOL2, COL4A3BP, KRT8 |
| Annotation Cluster 13 | Enrichment Score | 1.69 |
| GO Term | p-value | Genes |
| 0051674~localization of cell | 0.013 | ASZ1, CX43, ISL1, SHH, TAF7L, DAB1, OVOL2, POU3F3, CHRNA7, TNN, LHX6, RELN, MESP1 |
| 0048870~cell motility | 0.013 | ASZ1, CX43, ISL1, SHH, TAF7L, DAB1, OVOL2, POU3F3, CHRNA7, TNN, LHX6, RELN, MESP1 |
| 0016477~cell migration | 0.025 | DAB1, OVOL2, ASZ1, CX43, POU3F3, LHX6, RELN, TNN, ISL1, MESP1, SHH |
| 0006928~cell motion | 0.037 | ASZ1, CX43, ISL1, SHH, TAF7L, DAB1, OVOL2, LHX2, POU3F3, RELN, CHRNA7, TNN, LHX6, MESP1 |
| Annotation Cluster 14 | Enrichment Score | 1.51 |
| GO Term | p-value | Genes |
| 0043414~biopolymer methylation | 0.015 | SATB1, MAEL, PIWIL2, TDRD1, HELLS, SUV39H2 |
| 0032259~methylation | 0.022 | SATB1, MAEL, PIWIL2, TDRD1, HELLS, SUV39H2 |
| 0006730~one-carbon metabolic process | 0.090 | SATB1, MAEL, PIWIL2, TDRD1, HELLS, SUV39H2 |
| Annotation Cluster 15 | Enrichment Score | 1.36 |
| GO Term | p-value | Genes |
| 0045727~positive regulation of translation | 0.003 | KRT17, PIWIL2, DAZL, LIN28A |
| 0032270~positive regulation of cellular protein metabolic process | 0.146 | KRT17, PIWIL2, DAZL, RICTOR, LIN28A |

| | | |
|------------------------------------------------------------|-------------------------|-------------------------------------|
| 0051247~positive regulation of protein metabolic process | 0.181 | KRT17, PIWIL2, DAZL, RICTOR, LIN28A |
| Annotation Cluster 16 | Enrichment Score | 1.25 |
| GO Term | p-value | Genes |
| 0045109~inGO Termediate filament organization | 0.028 | KRT17, KRT14, SHH |
| 0045104~inGO Termediate filament cytoskeleton organization | 0.073 | KRT17, KRT14, SHH |
| 0045103~inGO Termediate filament-based process | 0.091 | KRT17, KRT14, SHH |