

Supplementary information, Table S2: K-means Clustering of Genes that Show Differential Expression along Germ Cell Development.

Gene Cluster  
SELM Cluster1  
PPDPF Cluster1  
PHPT1 Cluster1  
GAPDH Cluster1  
FKBP8 Cluster1  
FTL Cluster1  
AK5 Cluster1  
MIF Cluster1  
PSMA7 Cluster1  
DCAF12 Cluster1  
KANSL1 Cluster1  
TMEM14C Cluster1  
TUBB Cluster1  
GRN Cluster1  
CRIP2 Cluster1  
CCDC109B Cluster1  
AKR1B1 Cluster1  
TJP1 Cluster1  
RARS Cluster1  
CPEB1 Cluster1  
NT5DC1 Cluster1  
MTPN Cluster1  
RALY Cluster1  
FMR1 Cluster1  
THAP4 Cluster1  
AKIRIN2 Cluster1  
TANC2 Cluster1  
LIN7B Cluster1  
TKT Cluster1  
ARID4A Cluster1  
CDC123 Cluster1  
ZBTB43 Cluster1  
PTRHD1 Cluster1  
RAB11B Cluster1  
WWP1 Cluster1  
MGMT Cluster1  
RPL22L1 Cluster1  
TADA3 Cluster1  
PIAS4 Cluster1  
CDC42BPA Cluster1  
FAM150B Cluster1  
SMS Cluster1  
RPL36 Cluster1  
RPLP0 Cluster1  
RPS18 Cluster1  
RPS19 Cluster1  
RPS16 Cluster1  
SOX4 Cluster1  
RHOXF1 Cluster1  
RPL13A Cluster1  
SOD1 Cluster1  
ASB9 Cluster1  
PTGES2 Cluster1  
RPS23 Cluster1

MARCKSL1 Cluster1  
GTF3A Cluster1  
ELAVL2 Cluster1  
RPL39 Cluster1  
RPL12 Cluster1  
HSPB1 Cluster1  
RPL14 Cluster1  
YWHAB Cluster1  
TBCB Cluster1  
PSIP1 Cluster1  
PDLIM1 Cluster1  
GSTP1 Cluster1  
GADD45GIP1 Cluster1  
TUBA1B Cluster1  
APEX1 Cluster1  
MAGEB2 Cluster1  
ATIC Cluster1  
RPS29 Cluster1  
PABPC4 Cluster1  
ATP1B1 Cluster1  
RPS11 Cluster1  
IGFBP2 Cluster1  
CDCA7L Cluster1  
BEND4 Cluster1  
COPS6 Cluster1  
AKR1A1 Cluster1  
NME4 Cluster1  
MTCH1 Cluster1  
MPG Cluster1  
LPIN2 Cluster1  
RPL26 Cluster1  
SLC25A6 Cluster1  
NAB1 Cluster1  
BOP1 Cluster1  
NME3 Cluster1  
DSCC1 Cluster1  
TEAD1 Cluster1  
ITGB1 Cluster1  
EEF1B2 Cluster1  
POLRMT Cluster1  
CCDC12 Cluster1  
PLPP2 Cluster1  
TAF6 Cluster1  
NFIC Cluster1  
RPL27 Cluster1  
RBMX2 Cluster1  
BARD1 Cluster1  
TGIF2 Cluster1  
NEIL2 Cluster1  
PPP2R1A Cluster1  
LRRFIP1 Cluster1  
HCFC1R1 Cluster1  
TWF2 Cluster1  
ZFP36L2 Cluster1  
RASSF3 Cluster1  
RPS5 Cluster1

POGZ Cluster1  
GMDS Cluster1  
BNIP3 Cluster1  
GAMT Cluster1  
PDCL3 Cluster1  
HEBP2 Cluster1  
INSIG1 Cluster1  
GOLIM4 Cluster1  
C12orf49 Cluster1  
TXNIP Cluster1  
APOO Cluster1  
CNFN Cluster1  
BRMS1 Cluster1  
JARID2 Cluster1  
LLGL2 Cluster1  
DLK1 Cluster1  
ANXA11 Cluster1  
LRRC42 Cluster1  
TSR3 Cluster1  
RNF219 Cluster1  
SSRP1 Cluster1  
HDAC5 Cluster1  
SRP72 Cluster1  
PTMS Cluster1  
NUDT14 Cluster1  
RPL4 Cluster1  
LUZP4 Cluster1  
ADGRL1 Cluster1  
TMEM123 Cluster1  
CAPG Cluster1  
MCUR1 Cluster1  
EIF4EBP1 Cluster1  
UXS1 Cluster1  
PHF13 Cluster1  
MCRS1 Cluster1  
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HOXB7 Cluster1  
BIRC2 Cluster1  
ARPC4 Cluster1  
TNNT1 Cluster1  
PELI2 Cluster1  
COX6B1 Cluster1  
STRN4 Cluster1  
CCDC88C Cluster1  
TCEAL4 Cluster1  
THAP1 Cluster1  
RGMA Cluster1  
TOP1MT Cluster1  
SH3BGRL3 Cluster1  
AGAP1 Cluster1  
ZMYND8 Cluster1  
RPL38 Cluster1  
MAP2K7 Cluster1  
ACTR2 Cluster1  
SNF8 Cluster1  
ATAD3A Cluster1

MAP7D3 Cluster1  
RYK Cluster1  
ZFHX3 Cluster1  
SDC2 Cluster1  
NUDT15 Cluster1  
DND1 Cluster1  
JRK Cluster1  
CHTF8 Cluster1  
MIER2 Cluster1  
LSM10 Cluster1  
C12orf45 Cluster1  
GNB2 Cluster1  
UROS Cluster1  
GTDC1 Cluster1  
TATDN1 Cluster1  
ENAH Cluster1  
RCE1 Cluster1  
NTHL1 Cluster1  
ZFAS1 Cluster1  
ATE1 Cluster1  
KLHL35 Cluster1  
REST Cluster1  
PDLIM7 Cluster1  
OTUB1 Cluster1  
C19orf24 Cluster1  
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BRD2 Cluster1  
SPTAN1 Cluster1  
HPS4 Cluster1  
SCO2 Cluster1  
MYCBP Cluster1  
RIT1 Cluster1  
STAMBP Cluster1  
MIIP Cluster1  
FAM195B Cluster1  
PPP2R2A Cluster1  
NDUFAF6 Cluster1  
SSU72 Cluster1  
ENO1 Cluster1  
ARMC6 Cluster1  
GTF2I Cluster1  
ECHS1 Cluster1  
ATP5D Cluster1  
INTS10 Cluster1  
TNRC6B Cluster1  
CCDC6 Cluster1  
SLC41A3 Cluster1  
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SMAD2 Cluster1  
XAB2 Cluster1  
ATP1A1 Cluster1  
TUFM Cluster1  
ASPSCR1 Cluster1  
BLOC1S1 Cluster1  
MIB2 Cluster1  
TPM3 Cluster1

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PIWIL2 Cluster1  
DDX43 Cluster1  
EPC1 Cluster1  
LBR Cluster1  
GALNS Cluster1  
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TDRD1 Cluster1  
NUTM2B-AS1 Cluster1  
DAZAP2 Cluster1  
UACA Cluster1  
CBL Cluster1  
PABPN1 Cluster1  
NDUFS4 Cluster1  
PCSK1N Cluster1  
ERCC1 Cluster1  
AP2S1 Cluster1  
RPS4X Cluster1  
GNB2L1 Cluster1  
ZNF428 Cluster1  
LMO4 Cluster1  
TPT1 Cluster1  
GLTSCR2 Cluster1  
SERPINE2 Cluster1  
TCF3 Cluster1  
SIX1 Cluster1  
UTF1 Cluster1  
ID4 Cluster1  
L1TD1 Cluster1  
ID1 Cluster1  
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LY6E Cluster1  
AES Cluster1  
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THRA Cluster1  
IRF2BPL Cluster1  
COTL1 Cluster1  
KRT18 Cluster1  
STK24 Cluster1  
RAC3 Cluster1  
PMAIP1 Cluster1  
NOC4L Cluster1  
PALM3 Cluster1  
ID2 Cluster1  
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RHOC Cluster1  
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TOMM34 Cluster1  
PKN1 Cluster1  
FGFR3 Cluster1  
TLK1 Cluster1  
ADAR Cluster1  
DPPA2 Cluster1  
SSBP3 Cluster1  
C1QTNF4 Cluster1

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IDH2 Cluster1  
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MXD4 Cluster1  
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NPW Cluster1  
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PARD3 Cluster1

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SNHG19 Cluster1  
SERINC2 Cluster1  
MAL2 Cluster1  
PRKX Cluster1  
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OGFR Cluster1  
COBL Cluster1  
LIMK1 Cluster1  
EPHX2 Cluster1  
UNC119 Cluster1  
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TACC2 Cluster1  
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NANOS2 Cluster1

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TFAP2A Cluster1  
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SMARCD2 Cluster1  
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CACFD1 Cluster1  
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ECI2 Cluster1  
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NIT2 Cluster1  
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FYN Cluster1  
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SKI Cluster1

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LSR Cluster1  
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NFIA Cluster1  
CTXN1 Cluster1  
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MYO10 Cluster1  
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DLST Cluster1  
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UGCG Cluster1  
PRMT7 Cluster1  
SWSAP1 Cluster1  
MIPEP Cluster1  
CCDC94 Cluster1  
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FOXP4 Cluster1  
PPP2R5D Cluster1  
ADNP Cluster1  
WASL Cluster1  
PEX2 Cluster1  
ASUN Cluster1  
CUL4A Cluster1  
PYM1 Cluster1  
LCMT1 Cluster1  
FAM13A Cluster1  
9-Sep Cluster1  
RHOBTB3 Cluster1  
CLASP1 Cluster1  
VAT1 Cluster1  
PPP2R3A Cluster1  
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CSNK1E Cluster1  
MRAS Cluster1  
HIP1R Cluster1

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SMIM1 Cluster1  
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PHC1 Cluster1

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PIK3C3 Cluster1  
A2M Cluster1  
GMPR Cluster1  
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BCAR1 Cluster1  
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CPNE1 Cluster1  
BIN1 Cluster1  
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RALB Cluster1  
WDR43 Cluster1  
FLCN Cluster1  
RBKS Cluster1  
SPI1 Cluster1  
BSDC1 Cluster1  
MIF4GD Cluster1  
GTF2A1 Cluster1  
SYT14 Cluster1  
LANCL2 Cluster1  
FMN1 Cluster1  
HOPX Cluster1  
ARID3B Cluster1  
MAP3K11 Cluster1  
RAB1B Cluster1  
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PINX1 Cluster1  
HEY2 Cluster1

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VIM Cluster1  
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ETV5 Cluster1  
LAMP1 Cluster1  
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AP2A1 Cluster1  
PTGDS cluster10  
LYPLA1 cluster10  
PSPH cluster10  
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DNAJB7 cluster10  
WDR74 cluster10  
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SLC25A41 cluster10

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ASGR1 cluster10  
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CST8 cluster10  
CTA-243E7.1 cluster10  
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PEX5 cluster10  
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TUBB6 cluster10  
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VGLL3 cluster10  
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JRKL cluster10  
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CAHM cluster10  
WDR26 cluster10  
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FLT1 Cluster9  
KIAA0753 Cluster9  
PACRG Cluster9  
RP11-213G2.2 Cluster9  
ATP6V1E2 Cluster9  
FGD4 Cluster9

AC073628.1 Cluster9  
TULP2 Cluster9  
MFSD14A Cluster9  
ANLN Cluster9  
RP11-262H14.3 Cluster9  
CDKL3 Cluster9  
LINC01010 Cluster9  
AP1G1 Cluster9  
C21orf62-AS1 Cluster9  
DYM Cluster9  
GOLGA6L1 Cluster9  
ULK4 Cluster9  
CYP2R1 Cluster9  
RP5-827L5.1 Cluster9  
NTRK3 Cluster9  
UBR7 Cluster9  
ELAVL4 Cluster9  
ANKMY1 Cluster9  
PBXIP1 Cluster9  
AXDND1 Cluster9  
PEX11G Cluster9  
TMF1 Cluster9  
C3orf38 Cluster9  
RIOK3 Cluster9  
SKAP2 Cluster9  
SLC38A6 Cluster9  
ATP6V1C1 Cluster9  
DNAJC24 Cluster9  
PHF20 Cluster9  
URI1 Cluster9  
MORN5 Cluster9  
NEK10 Cluster9  
SEL1L2 Cluster9  
RP11-2017.2 Cluster9  
RP11-79C6.3 Cluster9  
CCDC53 Cluster9  
AC000036.4 Cluster9  
Clorf141 Cluster9  
ACSL5 Cluster9  
USP50 Cluster9  
RP11-163M18.1 Cluster9  
ZNF415 Cluster9  
PAH Cluster9  
RP11-566H8.3 Cluster9  
RP11-863K10.2 Cluster9  
RP11-386B13.3 Cluster9  
RP11-404O13.1 Cluster9  
TEKT4 Cluster9  
RP11-606D9.1 Cluster9  
RP1-207H1.3 Cluster9  
RP11-92C4.3 Cluster9  
CTD-2050B12.1 Cluster9  
EYS Cluster9  
GALR1 Cluster9  
CPNE8 Cluster9  
HEATR9 Cluster9

RP11-510M2.6 Cluster9  
AC016909.1 Cluster9  
CTC-493L21.1 Cluster9  
CLYBL-AS1 Cluster9  
RP3-446N13.1 Cluster9  
SPAG17 Cluster9  
RP11-259K15.2 Cluster9  
CNIH2 Cluster9  
FCRL5 Cluster9  
RP11-387H17.4 Cluster9  
ZHX3 Cluster9  
BRIP1 Cluster9  
RP11-677I18.3 Cluster9  
LINC00971 Cluster9  
PGR Cluster9  
RP3-430A16.1 Cluster9  
RP11-670N15.1 Cluster9  
FRK Cluster9  
CHN2 Cluster9  
RP11-428J1.5 Cluster9  
KIRREL3-AS2 Cluster9  
RP13-653N12.1 Cluster9  
MAST4 Cluster9  
CCDC68 Cluster9  
RP11-392P7.6 Cluster9  
RP11-713M6.2 Cluster9  
USP25 Cluster9  
LINC01330 Cluster9  
SLC14A2-AS1 Cluster9  
MOSPD1 Cluster9  
SLC16A7 Cluster9