

Bangor University

DOCTOR OF PHILOSOPHY

Analysis of human germ lines genes for clinical applications

Alharbi, Ahmed

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Bangor University

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Download date: 22. Jan. 2025

| MeiCT | Hofmann | Original meiCT List | Drosophila | Known CTA | Rouseaux All |
|--------------|----------------|----------------------------|-------------------|------------------|---------------------|
| ACTL9 | MAGEB2 | SYNGR4 | PIWIL4 | ACRBP | C1orf65 |
| ACTRT1 | MAGEB6 | ARRDC5 | PIWIL2 | ACTL8 | CALR3 |
| ADAD1 | DDX53 | HSPB9 | PIWIL3 | ADAM2 | KLHL10 |
| ADAM2 | SSX2 | ACTRT1 | PIWIL1 | ADAM29 | DNAJC5G |
| ASB17 | SPANXA1 | SSX5 | YTHDC2 | AKAP3 | WDR88 |
| BOLL | SAGE1 | C12orf70 | BICC1 | AKAP4 | MBD3L1 |
| BRDT | MAGEC1 | ODF4 | DAZ2 | ANKRD45 | FAM71C |
| C1orf65 | MAGE2B | C17orf98 | DAZ3 | ARMC3 | WFDC11 |
| C1orf141 | CTAG1B | LRRRC69 | DAZ4 | ARX | SLCO6A1 |
| C3orf22 | SPANXN5 | LUZP4 | BOLL | ATAD2 | C3orf48 |
| C4orf17 | MAGEA1 | LYRM1 | DAZL | BAGE | FBXO39 |
| C5orf47 | CTAG1A | MYL10 | DAZ1 | BAGE2 | FMR1NB |
| C5orf48 | SPANXD | C9orf11 | SYCP1 | BAGE3 | MAGEB18 |
| C8orf74 | MAGEB1 | SLC25A2 | TXN | BAGE4 | CCDC27 |
| C9orf11 | CPXCR1 | CCDC18 | TXNL1 | BAGE5 | ZNF645 |
| C12orf12 | SPANXE | CST8 | ESRP1 | BRDT | C11orf65 |
| C12orf50 | SPANXN4 | NKX2-4 | ESRP2 | C15ORF60 | DYDC1 |
| C16orf78 | PAGE2B | PRDM7 | C16orf73 | C21ORF99 | C3orf30 |
| C17orf98 | MAGEB5 | MAS1 | TDRD1 | CABYR | HIPK4 |
| C19orf67 | LOC203413 | C20orf79 | RNF17 | CAGE1 | C7orf45 |
| C20orf79 | XAGE5 | BTG4 | CHEK2 | CALR3 | C17orf66 |
| C20orf201 | SPANXB1 | CCDC54 | MAEL | CASC5 | CCDC79 |
| C22orf33 | GAGE6 | C4orf17 | TAF6 | CCDC110 | AMAC1 |
| CXorf27 | CSAG2 | SYCP3 | TAF6L | CCDC33 | POTED |
| CAPZA3 | SPANXC | WDR20 | MRE11A | CCDC36 | C15orf32 |
| CATSPER1 | MAGEA2 | CALM2 | NANOS3 | CCDC62 | TSGA10IP |
| CCDC38 | SSX3 | STRA8 | NANOS2 | CCDC83 | TEKT5 |
| CCDC79 | SPANXA2 | TEX12 | NANOS1 | CDCA1 | FAM71B |
| CCDC105 | SPANXN3 | DDX4 | CPEB1 | CEP290 | TMCO5A |
| CCDC116 | PAGE2 | PSMA8 | RP11-152F13.10 | CEP55 | TSGA13 |
| CST8 | MAGEB4 | CYLC2 | OVOL1 | COX6B2 | SPERT |
| CYLC1 | CXorf48 | TEPP | OVOL2 | CPXCR1 | C19orf75 |
| CYLC2 | SSX1 | CCDC105 | OVOL3 | CRISP2 | KLF17 |
| DDX4 | MAGEB3 | CAGE1 | NEK1 | CSAG1 | EXD1 |
| DNAJC5G | FTHL17 | C7orf72 | NEK5 | CSAG2 | C18orf20 |
| DUSP21 | DKKL1 | CCDC38 | NEK3 | CSAG3B | ADIG |
| FABP9 | TSPY1 | C11orf65 | RPS19 | CT16.2 | ZCCHC13 |
| FAM170A | CT70 | C16orf46 | RPS5 | CT45A1 | C9orf43 |
| FAM71B | CT69 | C16orf92 | FKBP6 | CT45A2 | DKFZP434K028 |
| FTMT | MAGEC2 | USP50 | TDRD9 | CT45A3 | ZSWIM2 |
| GK2 | GAGE8 | MBD3L1 | TDRD7 | CT45A4 | C9orf11 |
| HEATR7B2L | GAGE4 | C20orf201 | DDX4 | CT45A5 | DDX53 |
| HMGB4 | GAGE7B | GLIPR1L1 | TXN | CT45A6 | CCDC116 |
| IL31 | PASD1 | TDRD12 | TXNL1 | CT47A1 | DKFZp761D191 |
| IQCF1 | GAGE7 | ARL13A | TGIF2LX | CT47A10 | LOC126536 |
| IQCF3 | GAGE2 | CCDC79 | TGIF2LY | CT47A11 | Hs.662570 |
| KLF17 | MAGEC3 | ODF3 | TGIF2 | CT47A2 | Hs.220558 |
| LUZP4 | MAGEA9 | FTMT | TUBG1 | CT47A3 | PWRN1 |
| LYZL6 | GAGE1 | TNRC18 | | CT47A4 | Hs.662373 |

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|----------|---------|------------|-----------|--------------|
| MAGEB5 | GAGE5 | CYLC1 | CT47A5 | LOC440896 |
| MBD3L1 | PAGE3 | PTPN20B | CT47A6 | LOC253805 |
| NT5C1B | HORMAD1 | WDR27 | CT47A7 | Hs.177930 |
| NUT | CTAGE1 | TCTE3 | CT47A8 | LRRC52 |
| ODF3 | | NT5C1B | CT47A9 | Hs.519941 |
| ODF4 | | C5orf47 | CT47B1 | C10o rf40 |
| PAPOLB | | C22orf33 | CT66 | Hs.547104 |
| PDHA2 | | C5orf50 | AA884595 | GOLGA9P |
| PFN3 | | LEMD1 | CT69 | Hs.662304 |
| PPP3R2 | | CXorf27 | BC040308 | Hs.562766 |
| PRDM9 | | TMEM202 | CT70 | Hs.146758 |
| PRPS1L1 | | ZCCHC13 | BI818097 | Hs.662309 |
| RAD21L | | C19orf67 | CTAG1A | PLAC1L |
| RBM44 | | PRSS45 | CTAG1B | Hs.156197 |
| SATL1 | | FAM166A | CTAG2 | DPY19L2P4 |
| SEPT12 | | MAGEB5 | CTAGE-2 | LOC284788 |
| SHCBP1L | | DUSP21 | CTAGE1 | Hs.664588 |
| SLC25A31 | | PAX5 | CTAGE5 | LOC340239 |
| SMC1b | | PFN3 | CTCFL | LOC100130548 |
| SPZ1 | | C5orf48 | CTNNA2 | Hs.585529 |
| STRA8 | | C12orf12 | CXORF48 | Hs.656810 |
| SYCP1 | | C1orf185 | CXORF61 | CCDC38 |
| SYCP3 | | GLT6D1 | CYCLIN A1 | CSTT |
| TBC1D21 | | TMEM225 | DCAF12 | LOC285194 |
| TCTE3 | | IL31 | DDX43 | SPATA22 |
| TDRD12 | | C9orf128 | DDX53 | SPATA19 |
| TEPP | | MS4A13 | DKKL1 | C9orf79 |
| TEX19 | | C11orf91 | DMRT1 | TPTE |
| TGIF2LX | | FABP9 | DNAJB8 | HEATR4 |
| TMEM146 | | AC005014.4 | DPPA2 | GOLGA6L2 |
| TMEM225 | | TSSK1B | DSCR8 | FLJ40434 |
| TRIM42 | | EFCAB9 | EDAG, NDR | Hs.662213 |
| TRIML1 | | IQCF5 | ELOVL4 | Hs.572187 |
| TSSK1B | | KCNU1 | FAM133A | GOLGA6L6 |
| ZCCHC13 | | PAPOLB | FAM46D | LOC728099 |
| ZSWIM2 | | IQCF3 | FATE1 | LOC100128554 |
| | | C17orf105 | FBXO39 | LOC100287035 |
| | | C4orf51 | FMR1NB | Hs.680114 |
| | | CLDND2 | FTHL17 | RFX4 |
| | | PROK2 | GAGE1 | Hs.606987 |
| | | TEX19 | GAGE12B | Hs.568804 |
| | | HORMAD1 | GAGE12C | DCAF4L1 |
| | | CATSPER1 | GAGE12D | C3orf56 |
| | | C1orf65 | GAGE12E | FLJ25328 |
| | | TULP2 | GAGE12F | LOC286359 |
| | | BRDT | GAGE12G | GAB4 |
| | | SEPT12 | GAGE12H | ANKRD31 |
| | | SNTG1 | GAGE12I | KRT72 |
| | | CATSPER3 | GAGE12J | RAD9B |
| | | TEKT5 | GAGE13 | RBM46 |

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| C1orf14 | GAGE2A | Hs.662260 |
| C9orf43 | GAGE3 | Hs.409982 |
| ADAD1 | GAGE4 | LOC730441 |
| SUNC1 | GAGE5 | OPN5 |
| COX7B2 | GAGE6 | IQUB |
| C2orf70 | GAGE7 | C8orf74 |
| APOBEC4 | GAGE8 | Hs.662207 |
| LRRC63 | GOLGAGL2 F/ZNF876P | |
| C12orf42 | GPAT2 | ASZ1 |
| SLC25A41 | GPATCH2 | TBC1D26 |
| TRIML1 | HIWI | LOC152586 |
| KDM4D | MIWI | CPA5 |
| SOX30 | PIWI | ANKRD7 |
| SPO11 | HORMAD1 | PRM1 |
| DAZL | HORMAD2 | SMCP |
| TDRD1 | HSPB9 | DAZL |
| PRSS54 | IGSF11 | RPGRIP1 |
| ADAM2 | IL13RA2 | TULP2 |
| SPAM1 | IMP-3 | FKBP6 |
| GALNTL5 | JARID1B | BRDT |
| SPACA1 | KIAA0100 | AKAP4 |
| TP53TG5 | LAGE-1B | ZBPB |
| PLCZ1 | LDHC | LDHC |
| SPACA3 | LEMD1 | CRISP1 |
| DMRTC2 | LIPI | Hs.601545 |
| DMRTB1 | LOC130576 | CETN1 |
| SPATA16 | LOC196993 | GSTTP1 |
| C4orf35 | LOC348120 | LYZL6 |
| C6orf146 | LOC440934 | AKAP3 |
| FAM135B | LOC647107 | PPP1R2P9 |
| SLC25A31 | LOC728137 | ADAM20 |
| BOLL | LUZP4 | LOC645529 |
| TGIF2LX | LY6K | TP53TG5 |
| ASB17 | MAEL | C6orf10 |
| TRIM42 | MAGEA1 | MAGEB3 |
| AL353588.1 | MAGEA10 | CDY2A |
| CCDC116 | MAGEA11 | ADAM2 |
| LYZL6 | MAGEA12 | SOX30 |
| ZSWIM2 | MAGEA2 | TNP2 |
| PDHA2 | MAGEA2B | CYLC2 |
| C3orf30 | MAGEA3 | BPY2 |
| FAM194A | MAGEA4 | PRM2 |
| DNAJC5G | MAGEA5 | CRISP2 |
| SPDYA | MAGEA6 | CCIN |
| SPZ1 | MAGEA8 | LDHAL6B |
| FAM170A | MAGEA9 | RGSL1 |
| C12orf50 | MAGEA9B | TSSK1B |
| C16orf78 | LOC728269 | TKTL1 |
| TBC1D21 | MAGEB1 | TSSK2 |
| PDILT | MAGEB2 | IRGC |

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| HSFY2 | MAGEB3 | RFPL3S |
| FAM71B | MAGEB4 | H2AFB1 |
| DYDC1 | MAGEB5 | ODF1 |
| DDI1 | MAGEB6 | PDHA2 |
| C8orf74 | MAGEC1 | HIST1H2AL |
| U66059.56 | MAGEC2 | LOC645961 |
| HEATR7B2 | MAGEC3 | GK2 |
| KLF17 | MCAK | ZNRF4 |
| HSFY1 | MMA1B | PRPS1L1 |
| CCDC63 | MORC1 | SPINT3 |
| IQCF1 | MPHOSPH1 | LOC283079 |
| TMEM146 | NLRP4 | ADAM3A |
| UBQLN3 | NOL4 | PGK2 |
| UMODL1 | NR6A1 | ADCY10 |
| RBM44 | NXF2 | RPL10L |
| CAPZA3 | NXF2B | CCDC83 |
| C10orf67 | NY-ESO-1 | SPANXC |
| C3orf22 | ODF1 | OXCT2 |
| ACTL9 | ODF2 | RNF17 |
| FIGLA | ODF3 | DKKL1 |
| C15orf55 | ODF4 | TCP11 |
| SATL1 | OIP5 | FSCN3 |
| CCIN | OTOA | TXNDC3 |
| UBL4B | PAGE1 | UBQLN3 |
| CCDC73 | PAGE2 | ACTL7B |
| C9orf153 | PAGE2B | FNDC8 |
| RNF133 | PAGE3 | ACTL7A |
| PPP3R2 | PAGE4 | CCT8L2 |
| GK2 | PAGE5 | CST8 |
| H2AFB1 | PASD1 | LUZP4 |
| RP5-860F19.6 | PBK | EDDM3B |
| SYCP1 | PEPP2 | MS4A5 |
| C1orf141 | PIWIL2 | TCEB3B |
| TXNDC8 | PLAC1 | USP29 |
| TSSK2 | POTEA | CTAGE1 |
| TSGA13 | POTEB | RSPH6A |
| PRPS1L1 | POTEC | SPACA1 |
| C2orf61 | POTED | C1orf14 |
| FSCN3 | POTEE | INSL6 |
| ZDHHC11B | POTEG | DEFB126 |
| ANKRD42 | POTEH | PHF7 |
| NLRP14 | PRAME | DDX4 |
| TRIM69 | PRM1 | ACSBG2 |
| C2orf53 | PRM2 | FAM163A |
| PTPN20A | PRSS54 | GOLGA8E |
| CCDC96 | PRSS55 | MYCBPAP |
| ALX1 | PTPN20A | HORMAD1 |
| DLX6 | RBM46 | FBXW10 |
| PPP4R4 | RGS22 | SPATA16 |
| TEKT3 | ROPN1 | STK31 |

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| LIN28 | RQCD1 | CCDC135 |
| MAEL | SAGE1 | KIF2B |
| C6orf81 | SEMG1 | C1orf49 |
| C2orf65 | SLCO6A1 | C4orf17 |
| AC007405.7 | SPA17 | TTLL2 |
| C20orf195 | SPACA3 | FAM186B |
| ATP1A4 | SPAG1 | DKFZp434F142 |
| ZIC5 | SPAG17 | WDR87 |
| DNAJC5B | SPAG4 | TTY8B |
| SYCE2 | SPAG6 | SLC25A2 |
| SMCP | SPAG8 | SPZ1 |
| IQCD | SPAG9 | TTY12 |
| C18orf54 | SPANXA1 | FSCB |
| ADAM18 | SPANXA2 | VN1R3 |
| C10orf122 | SPANXB1 | Hs.217079 |
| C19orf18 | SPANXB2 | ZNF540 |
| SEL1L2 | SPANXC | MAEL |
| TNP1 | SPANXD | MS4A14 |
| RNF17 | SPANXE | RIMBP3B |
| ACRV1 | SPANXN1 | Hs.666896 |
| C13orf28 | SPANXN2 | HMGB4 |
| SYCE1 | SPANXN3 | HSF5 |
| CSRNP3 | SPANXN4 | MARCH10 |
| ZFP42 | SPANXN5 | CCDC42 |
| C10orf96 | SPATA19 | C1orf223 |
| H1FNT | SPEF2 | SPATA8 |
| TMCO2 | SPINLW1 | SPACA4 |
| PBX4 | SPO11 | C16orf82 |
| TEX14 | SSX1 | Hs.432394 |
| ARTN | SSX2 | ZDHC19 |
| PKDREJ | SSX2B | LOC348120 |
| C20orf135 | SSX3 | C20orf79 |
| MSH4 | SSX4 | LOC100329135 |
| CXorf41 | SSX4B | TPPP2 |
| C6orf118 | SSX5 | SPATA4 |
| AGBL3 | SSX6 | POM121L10P |
| CCDC67 | SSX7 | Hs.662423 |
| NXF2B | SSX9 | IMP5 |
| MESP2 | SYCE1 | LYPD4 |
| C19orf45 | SYCP1 | PRSS54 |
| C1orf129 | TAF7L | MS4A6E |
| TKTL2 | TAG | C15orf55 |
| RAD9B | TDRD1 | TSPYL6 |
| FAM154A | TDRD4 | LOC780529 |
| LYZL4 | TDRD6 | LLEP1 |
| C7orf34 | TEKT5 | BOD1P |
| DNAJB7 | TEX101 | RNF133 |
| HORMAD2 | TEX14 | C2orf84 |
| PTCHD3 | TEX15 | C13orf28 |
| LRRIQ4 | TFDP3 | LOC254312 |

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| C12orf71 | THEG | PLCZ1 |
| CCDC110 | TMEFF1 | LOC728460 |
| SALL4 | TMEFF2 | LOC100131928 |
| NOL4 | TMEM108 | ZPBP2 |
| PIWIL1 | TMPRSS12 | ADAD1 |
| NLRP4 | TPPP2 | TBC1D21 |
| PRSS50 | TPTE | Hs.636150 |
| IQCH | TSGA10 | COX8C |
| C13orf16 | TSP50 | IQCF5 |
| C9orf117 | TSPY1D | C14orf148 |
| KLHL10 | TSPY1E | TMEM31 |
| TDRD5 | TSPY1F | LOC285827 |
| ZBBX | TSPY1G | Hs.112596 |
| SPESP1 | TSPY1H | RNASE11 |
| PFN4 | TSPY1I | Hs.517091 |
| PIWIL2 | TSPY2 | C4orf35 |
| CBY3 | TSPY3 | C22orf33 |
| EPHA6 | TSSK6 | Hs.535454 |
| TEX101 | TTK | Hs.662336 |
| MORN3 | TULP2 | C6orf201 |
| ALS2CR11 | VENTXP1 | Hs.98945 |
| CCDC158 | XAGE-3B | PRM3 |
| CPA6 | XAGE-4 | NUP210L |
| TMCO5A | RP11-167P23 | Hs.655296 |
| C11orf85 | XAGE1 | HDGFL1 |
| VWA3B | XAGE1B | Hs.535746 |
| PGK2 | XAGE1C | C20orf173 |
| LRRC67 | XAGE1D | GALNTL5 |
| DAZ1 | XAGE1E | DEFB129 |
| OXCT2 | XAGE2 | C10orf82 |
| TTLL13 | XAGE2B | LOC729461 |
| RNF148 | CTD-2267G17 | LOC100134040 |
| TRPM8 | XAGE3 | LOC645355 |
| PIP5KL1 | XAGE5 | ROPN1 |
| POLN | ZNF165 | LOC613126 |
| C5orf36 | ZNF645 | PRNT |
| C19orf57 | | Hs.116324 |
| RNF212 | | GMCL1L |
| TTC6 | | H2BFM |
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| RASSF9 | | LOC494558 |
| CDRT4 | | Hs.666913 |
| FBXO15 | | RNF151 |
| C2orf77 | | IQCF2 |
| ARMC3 | | DMRTC2 |
| C16orf71 | | IQCF3 |
| TTC23L | | CAPZA3 |
| DMC1 | | BOLL |
| FHL5 | | UBQLNL |
| WDR69 | | C12orf12 |

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| GRK4 | Hs.86761 |
| ACSBG2 | Hs.446169 |
| MICALCL | Hs.369473 |
| SPATA9 | DNAJB8 |
| SPATA4 | C2orf53 |
| ALS2CR12 | Hs.190267 |
| DCST1 | ACTRT2 |
| C10orf82 | FLJ46321 |
| C2orf73 | Hs.661446 |
| SAMD13 | LOC283480 |
| C1orf49 | LOC474358 |
| FHAD1 | Hs.551951 |
| MND1 | C6orf146 |
| PSMC3IP | ODF3L2 |
| CCDC103 | Hs.585699 |
| C7orf31 | Hs.658502 |
| GTSF1 | Hs.181895 |
| PLD6 | LOC100130700 |
| RIBC2 | Hs.149004 |
| NAIF1 | Hs.507924 |
| MESP1 | HORMAD2 |
| EPYC | SPATA12 |
| C9orf93 | Hs.121392 |
| CCDC87 | Hs.662283 |
| GPAT2 | C3orf22 |
| KCNG1 | ADAM6 |
| QRICH2 | LOC338864 |
| AKAP3 | Hs.350698 |
| TEX15 | Hs.659210 |
| C11orf70 | C2orf57 |
| MMEL1 | C12orf50 |
| CCDC81 | WBSCR28 |
| EFHB | LOC151658 |
| TSSK6 | Hs.98394 |
| LIPF | Hs.666920 |
| C9orf135 | Hs.666899 |
| ZPBP | H1FNT |
| ZDHHC19 | Hs.666888 |
| ANKRD55 | Hs.603767 |
| ATF7IP2 | Hs.624137 |
| IZUMO1 | Hs.603759 |
| | Hs.667736 |
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| CCNA1 | LOC151300 |
| PEBP4 | FAM47C |
| STAG3 | TPD52L3 |
| CCDC113 | C17orf74 |
| CEP72 | C16orf78 |
| C2orf74 | C10orf62 |
| C3orf25 | DMRTB1 |

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| NKAPL | SPATA3 |
| C20orf85 | C12orf54 |
| MYCBPAP | C20orf71 |
| CCDC65 | HEATR7B2 |
| NDST3 | FAM47B |
| ZNF558 | Hs.621235 |
| RBM11 | C19orf41 |
| C3orf62 | LOC348761 |
| C11orf20 | BEYLA |
| AC008743.7 | Hs.122199 |
| C4orf36 | Hs.112680 |
| SLAMF7 | FAM194A |
| GSTO2 | Hs.125998 |
| MOV10L1 | CDRT15 |
| RFX3 | C15orf43 |
| PTPN4 | LOXHD1 |
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| CCDC130 | C2orf51 |
| ANKRD7 | SPATC1 |
| COL4A3BP | HIST1H2BA |
| IQCG | Hs.666891 |
| DNAL1 | Hs.666898 |
| LRRC6 | FLJ25694 |
| HDHD1A | PAPOLB |
| CCT6B | FAM187B |
| LRRCC1 | LOC401351 |
| CCDC146 | FAM24A |
| NIPSNAP3A | ACTL9 |
| PGBD1 | C9orf144B |
| ALS2CR8 | LOC643406 |
| FAM50B | CC2D2B |
| PIH1D2 | SPACA3 |
| CCDC109A | FAM47A |
| LCA5L | LOC340178 |
| C1orf59 | KCTD19 |
| WDR63 | C3orf46 |
| C2orf63 | CCDC54 |
| ZNF2 | CCDC63 |
| ICA1L | MAGEB6 |
| TUBA1A | C12orf37 |
| TTC21A | NBPF4 |
| C2orf69 | KIAA1257 |
| CCDC159 | TPTE2P2 |
| SYCP2 | FLJ43944 |
| SRGAP1 | VCY |
| EFCAB7 | HIST1H3C |
| RANBP17 | TUBA3C |
| GTF2A1L | LOC441601 |
| RP11-521B24.1 | PIWIL1 |
| C19orf41 | DPEP3 |

BTG4
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OR2H1
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VCX2
MAGEB4
ACRV1
RBMV1E
GK3P
CYLC1
SPAM1
ADAM30
ACRBP
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GTSF1L
LYZL1
C14orf48
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SUN5
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ADAM7
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HTRA4
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ADAM12

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KISS1
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LGALS14
VWA5B1
CCBP2

SVEP1
CYP19A1
CSHL1
PSG3
FLJ11292
PAPPA
Hs.657576

| Rouseaux Testis Germline | Rousseaux Placenta |
|---------------------------------|---------------------------|
| C1orf65 | TRIM40 |
| CALR3 | FAM26D |
| KLHL10 | HTRA4 |
| DNAJC5G | IGFBP1 |
| WDR88 | Hs.655287 |
| MBD3L1 | Hs.536920 |
| FAM71C | LOC100127950 |
| WFDC11 | C14orf81 |
| SLCO6A1 | CSH1 |
| C3orf48 | ADAM12 |
| FBXO39 | HSD3B1 |
| FMR1NB | PSG5 |
| MAGEB18 | CGB5 |
| CCDC27 | KISS1 |
| ZNF645 | PSG7 |
| C11orf65 | SIGLEC6 |
| DYDC1 | INSL4 |
| C3orf30 | PSG11 |
| HIPK4 | GNGT1 |
| C7orf45 | HIST1H1T |
| C17orf66 | PSG2 |
| CCDC79 | PSG4 |
| AMAC1 | PSG1 |
| POTED | CSH2 |
| C15orf32 | PSG9 |
| TSGA10IP | PSG6 |
| TEKT5 | ALPPL2 |
| FAM71B | PRG2 |
| TMCO5A | SLC22A11 |
| TSGA13 | LGALS13 |
| SPERT | PLAC4 |
| C19orf75 | Hs.560509 |
| KLF17 | XAGE2B |
| EXD1 | Hs.654772 |
| C18orf20 | Hs.656025 |
| ADIG | BCAR4 |
| ZCCHC13 | Hs.529729 |
| C9orf43 | Hs.42265 |
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| ZSWIM2 | Hs.656897 |
| C9orf11 | Hs.641200 |
| DDX53 | Hs.574781 |
| CCDC116 | Hs.641022 |
| DKFZp761D1918 | Hs.656801 |
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| Hs.662570 | Hs.112924 |
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| PWRN1 | Hs.656747 |
| Hs.662373 | Hs.671084 |

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| LOC440896 | Hs.667725 |
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| LRRC52 | Hs.656741 |
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| Hs.547104 | Hs.657599 |
| GOLGA9P | EBI3 |
| Hs.662304 | LGALS14 |
| Hs.562766 | VWA5B1 |
| Hs.146758 | CCBP2 |
| Hs.662309 | SVEP1 |
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| SPATA22 | |
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| TPTE | |
| HEATR4 | |
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| Hs.662213 | |
| Hs.572187 | |
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| GAB4 | |
| ANKRD31 | |
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| RAD9B | |
| RBM46 | |

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Hs.662207
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TKTL1
TSSK2
IRGC

RFPL3S
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HORMAD1
FBXW10
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SPATA3
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VCY
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BTG4
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GK3P
CYLC1
SPAM1
ADAM30
ACRBP
TXNDC2
TAF7L
SEPT12
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GTSF1L
LYZL1
C14orf48
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