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| TSPAN6 | pp | CHD3      |
| DPM1   | pp | BRF2      |
| DPM1   | pp | ZBTB16    |
| DPM1   | pp | CIAO1     |
| DPM1   | pp | TNFRSF14  |
| DPM1   | pp | PHLDA3    |
| DPM1   | pp | MAGED1    |
| DPM1   | pp | PTP4A3    |
| NFYA   | pp | APPBP2    |
| NFYA   | pp | NFYC      |
| NFYA   | pp | NFYB      |
| NFYA   | pp | SFRS1     |
| NFYA   | pp | POU2F1    |
| SEMA3F | pp | TMEM22    |
| BAD    | pp | PIM2      |
| BAD    | pp | YWHAE     |
| BAD    | pp | BCL2L2    |
| BAD    | pp | YWHAQ     |
| BAD    | pp | AKT1      |
| BAD    | pp | MCL1      |
| BAD    | pp | YWHAB     |
| BAD    | pp | BCL2L1    |
| BAD    | pp | BCL2      |
| BAD    | pp | SFN       |
| BAD    | pp | S100A10   |
| LASP1  | pp | MDFI      |
| LASP1  | pp | ACTC1     |
| LASP1  | pp | FHL3      |
| LASP1  | pp | PLSCR1    |
| CASP10 | pp | CFLAR     |
| CASP10 | pp | FAS       |
| CASP10 | pp | FADD      |
| CFLAR  | pp | FSCN1     |
| CFLAR  | pp | MIF       |
| CFLAR  | pp | UNC84B    |
| CFLAR  | pp | RIPK2     |
| CFLAR  | pp | HNRNPL    |
| CFLAR  | pp | FBL       |
| CFLAR  | pp | SF3B1     |
| CFLAR  | pp | TNFRSF10B |
| CFLAR  | pp | RAF1      |
| CFLAR  | pp | USP15     |
| CFLAR  | pp | DOK2      |
| CFLAR  | pp | DEDD      |
| CFLAR  | pp | CASP3     |
| CFLAR  | pp | FADD      |
| CFLAR  | pp | BCL2L1    |

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| CFLAR   | pp | TUFM     |
| CFLAR   | pp | SF3B3    |
| RBM5    | pp | U2AF2    |
| RBM5    | pp | SF3B2    |
| RBM5    | pp | FUS      |
| RBM5    | pp | SF3A1    |
| RBM5    | pp | SF3B1    |
| RBM5    | pp | HNRNPR   |
| RBM5    | pp | DHX9     |
| RBM5    | pp | NCBP1    |
| RBM5    | pp | SF3B4    |
| RBM5    | pp | CDC40    |
| RBM5    | pp | CD2BP2   |
| RBM5    | pp | SF3B5    |
| RBM5    | pp | HNRNPA0  |
| RBM5    | pp | SF3A3    |
| RBM5    | pp | SF3B3    |
| ARF5    | pp | ARFIP2   |
| ARF5    | pp | PIP5K1A  |
| AK2     | pp | ACTR6    |
| AK2     | pp | IKBKE    |
| AK2     | pp | MCC      |
| AK2     | pp | TRAF6    |
| AK2     | pp | PAK2     |
| FKBP4   | pp | FKBP1A   |
| FKBP4   | pp | PHYH     |
| FKBP4   | pp | NR3C1    |
| FKBP4   | pp | IRF4     |
| PDK4    | pp | DLAT     |
| CDC27   | pp | ANAPC5   |
| CDC27   | pp | FZR1     |
| CDC27   | pp | CDC16    |
| CDC27   | pp | SMAD3    |
| CDC27   | pp | HOXC10   |
| SLC4A1  | pp | SLC4A1AP |
| UPF1    | pp | STAU1    |
| UPF1    | pp | UPF3B    |
| UPF1    | pp | UPF2     |
| UPF1    | pp | EXOSC4   |
| SKAP2   | pp | FYN      |
| LIG3    | pp | POLB     |
| LIG3    | pp | XRCC1    |
| COPZ2   | pp | COPG     |
| PRKAR2B | pp | PRKACA   |
| PRKAR2B | pp | AKAP1    |
| PRKAR2B | pp | PRKACB   |
| PRKAR2B | pp | PRKACG   |

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| CREBBP   | pp | TCF3     |
| CREBBP   | pp | IKBKG    |
| CREBBP   | pp | NCOA1    |
| CREBBP   | pp | ERLIN1   |
| CREBBP   | pp | NFE2L2   |
| CREBBP   | pp | KHDRBS1  |
| CREBBP   | pp | NCOA3    |
| CREBBP   | pp | TDG      |
| CREBBP   | pp | TP53     |
| CREBBP   | pp | SMAD4    |
| CREBBP   | pp | SMAD3    |
| CREBBP   | pp | RELA     |
| CREBBP   | pp | SMAD2    |
| CREBBP   | pp | MAF      |
| CREBBP   | pp | POLR2A   |
| CREBBP   | pp | NAP1L1   |
| CREBBP   | pp | SERTAD1  |
| CREBBP   | pp | NCOA6    |
| C2orf3   | pp | ATXN1    |
| MYCBP2   | pp | MYC      |
| MYCBP2   | pp | YWHAB    |
| MYCBP2   | pp | YWHAG    |
| ITGA2B   | pp | ITGB3    |
| ITGA2B   | pp | CLNS1A   |
| ITGA2B   | pp | AUP1     |
| ITGA2B   | pp | CIB1     |
| AP2B1    | pp | AP2S1    |
| AP2B1    | pp | AP1M1    |
| AP2B1    | pp | MLH1     |
| AP2B1    | pp | MEA1     |
| AP2B1    | pp | ATP6V1G1 |
| AP2B1    | pp | TUBGCP4  |
| AP2B1    | pp | NUP54    |
| AP2B1    | pp | NECAP2   |
| AP2B1    | pp | LDLRAP1  |
| AP2B1    | pp | AP2M1    |
| AP2B1    | pp | TERF2IP  |
| AP2B1    | pp | AP2A2    |
| ZNF263   | pp | SPG21    |
| ZNF263   | pp | NME7     |
| ZNF263   | pp | SCAND1   |
| IFRD1    | pp | RIT1     |
| GTF2IRD1 | pp | PIAS2    |
| GTF2IRD1 | pp | HDAC3    |
| GTF2IRD1 | pp | EXOSC4   |
| MARK4    | pp | STK11    |
| MARK4    | pp | YWHAH    |

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| MARK4    | pp | TUBG1    |
| MARK4    | pp | PRKCI    |
| MARK4    | pp | HPS6     |
| MARK4    | pp | PNMA1    |
| PAFAH1B1 | pp | KARS     |
| PAFAH1B1 | pp | CLIP1    |
| PAFAH1B1 | pp | NDEL1    |
| PIGQ     | pp | PIGC     |
| PIGQ     | pp | SMAD1    |
| TEAD3    | pp | WWTR1    |
| TEAD3    | pp | TNIK     |
| TEAD3    | pp | CTBP2    |
| PSMB1    | pp | PSMC4    |
| PSMB1    | pp | PSMA4    |
| PSMB1    | pp | FTSJ1    |
| PSMB1    | pp | PSMD5    |
| PSMB1    | pp | PSMD8    |
| PSMB1    | pp | PSMA3    |
| PSMB1    | pp | PSMC1    |
| PSMB1    | pp | PSMB5    |
| PSMB1    | pp | PSMA6    |
| PSMB1    | pp | PSME2    |
| PSMB1    | pp | PSMA7    |
| PSMB1    | pp | RIOK3    |
| PSMB1    | pp | PSMD10   |
| PSMB1    | pp | PSMD7    |
| PSMB1    | pp | PSMA2    |
| PSMB1    | pp | PSMB3    |
| PSMB1    | pp | PSMD3    |
| PSMB1    | pp | PSMD11   |
| PSMB1    | pp | PSMD9    |
| PSMB1    | pp | PSMD14   |
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| PSMB1    | pp | PSMA1    |
| PSMB1    | pp | PSMB7    |
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| PSMB1    | pp | PSMA5    |
| PSMB1    | pp | IKBKE    |
| PSMB1    | pp | CIAO1    |
| PSMB1    | pp | TNFRSF14 |
| PSMB1    | pp | PSMB4    |
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| PSMB1    | pp | PSMD1    |
| PSMB1    | pp | PSMD2    |
| PSMB1    | pp | PSMD13   |

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| PSMB1    | pp | CASP4   |
| PSMB1    | pp | PSMD12  |
| NADK     | pp | GLRX3   |
| NADK     | pp | NUDT18  |
| NADK     | pp | EEF1G   |
| SPAG9    | pp | MAPK14  |
| SPAG9    | pp | MAX     |
| SPAG9    | pp | MAP3K3  |
| PKD1     | pp | PKD2    |
| PKD1     | pp | CTNNB1  |
| MAPK8IP2 | pp | LRP1    |
| MAPK8IP2 | pp | PRSS23  |
| RPS20    | pp | RPS5    |
| RPS20    | pp | EIF3I   |
| RPS20    | pp | RPL6    |
| RPS20    | pp | EIF3D   |
| RPS20    | pp | RPS19   |
| RPS20    | pp | EIF3B   |
| RPS20    | pp | EIF3A   |
| RPS20    | pp | EIF4G1  |
| RPS20    | pp | EIF3G   |
| RPS20    | pp | RPL27   |
| RPS20    | pp | RPL35   |
| RPS20    | pp | RPS24   |
| RPS20    | pp | RPS11   |
| RPS20    | pp | RPL11   |
| RPS20    | pp | RPS27A  |
| RPS20    | pp | EIF3H   |
| RPS20    | pp | RPS3    |
| RPS20    | pp | RPL8    |
| RPS20    | pp | RPL27A  |
| RPS20    | pp | RPS21   |
| RPS20    | pp | EIF3K   |
| RPS20    | pp | RPS23   |
| RPS20    | pp | RPL14   |
| RPS20    | pp | RPS28   |
| RPS20    | pp | RPL10A  |
| CSDE1    | pp | SHOC2   |
| CSDE1    | pp | RAF1    |
| CSDE1    | pp | STT3A   |
| REV3L    | pp | MAD2L2  |
| VTA1     | pp | RABAC1  |
| VTA1     | pp | ZBTB16  |
| VTA1     | pp | RPIA    |
| VTA1     | pp | CBS     |
| MLXIPL   | pp | MLX     |
| BAZ1B    | pp | SMARCC2 |

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| BAZ1B  | pp | SMARCA5  |
| BAZ1B  | pp | PHLDA3   |
| BAZ1B  | pp | BAZ1A    |
| RANBP9 | pp | HIPK2    |
| RANBP9 | pp | FMR1     |
| RANBP9 | pp | USP11    |
| RANBP9 | pp | DYRK1B   |
| RANBP9 | pp | MET      |
| RANBP9 | pp | DISC1    |
| UQCRC1 | pp | SMARCA2  |
| UQCRC1 | pp | DNAJA1   |
| UQCRC1 | pp | SNRPF    |
| UQCRC1 | pp | UQCRC2   |
| UQCRC1 | pp | SRPRB    |
| CD9    | pp | CD59     |
| CD9    | pp | CD81     |
| CD9    | pp | SERPINH1 |
| CD9    | pp | ITGB1    |
| CD9    | pp | ITGA5    |
| FUZ    | pp | C1orf89  |
| CD4    | pp | CD44     |
| CD4    | pp | TFRC     |
| CD4    | pp | CD82     |
| CD4    | pp | SPG21    |
| CD4    | pp | LGALS1   |
| CD4    | pp | CTSD     |
| CD4    | pp | CXCR4    |
| CD4    | pp | BTRC     |
| CD4    | pp | PTK2     |
| CD4    | pp | IL16     |
| HFE    | pp | TFRC     |
| HFE    | pp | B2M      |
| SCMH1  | pp | MOBKL3   |
| SCMH1  | pp | PHC2     |
| SCMH1  | pp | TOB1     |
| SCMH1  | pp | HK1      |
| SCMH1  | pp | TMEM11   |
| FYN    | pp | PLAUR    |
| FYN    | pp | WAS      |
| FYN    | pp | FAS      |
| FYN    | pp | CD44     |
| FYN    | pp | PRKCQ    |
| FYN    | pp | TYK2     |
| FYN    | pp | FNBP4    |
| FYN    | pp | CBL      |
| FYN    | pp | PDGFRB   |
| FYN    | pp | EPHA4    |

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| FYN     | pp | KHDRBS1 |
| FYN     | pp | TUBA4A  |
| FYN     | pp | RAF1    |
| FYN     | pp | PTPRA   |
| FYN     | pp | VAV1    |
| FYN     | pp | PIK3R1  |
| FYN     | pp | THY1    |
| FYN     | pp | PTPN11  |
| FYN     | pp | EPHB3   |
| FYN     | pp | SOCS1   |
| FYN     | pp | EVL     |
| FYN     | pp | PLCG2   |
| FYN     | pp | GNB2L1  |
| TCEB3   | pp | REXO1   |
| TCEB3   | pp | POLR2E  |
| TCEB3   | pp | POLR2F  |
| TCEB3   | pp | TCEB2   |
| TCEB3   | pp | GTF2F1  |
| TCEB3   | pp | POLR2K  |
| TCEB3   | pp | SSRP1   |
| TCEB3   | pp | TCEB1   |
| TCEB3   | pp | POLR2H  |
| TCEB3   | pp | POLR2G  |
| TCEB3   | pp | POLR2A  |
| TCEB3   | pp | WHSC2   |
| AKAP8L  | pp | EMD     |
| AKAP8L  | pp | DHX9    |
| AKAP8L  | pp | LBR     |
| AKAP8L  | pp | CIAO1   |
| AKAP8L  | pp | MAGED1  |
| PLAUR   | pp | PFN2    |
| PLAUR   | pp | TYK2    |
| PLAUR   | pp | PLAU    |
| RABGAP1 | pp | ARF6    |
| DCN     | pp | TGFB1   |
| DCN     | pp | COL1A1  |
| DCN     | pp | EGFR    |
| DCN     | pp | COL14A1 |
| DCN     | pp | PLA2G2A |
| PPP5C   | pp | PPP2R1A |
| PPP5C   | pp | CSE1L   |
| PPP5C   | pp | GNA12   |
| PPP5C   | pp | MAP3K5  |
| ERCC1   | pp | RPA3    |
| ERCC1   | pp | GTF2H1  |
| ERCC1   | pp | RPA2    |
| ERCC1   | pp | RAD23B  |

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| ERCC1  | pp | RPA1   |
| ERCC1  | pp | ERCC5  |
| ERCC1  | pp | ERCC3  |
| ERCC1  | pp | ERCC4  |
| MAP4K5 | pp | CRKL   |
| MAP4K5 | pp | TANK   |
| MAP4K5 | pp | CRK    |
| MAP4K5 | pp | GRB2   |
| PSMC4  | pp | PSMA4  |
| PSMC4  | pp | TRIP6  |
| PSMC4  | pp | PSMD5  |
| PSMC4  | pp | PSMD8  |
| PSMC4  | pp | PSMA3  |
| PSMC4  | pp | PSMC1  |
| PSMC4  | pp | PSMB5  |
| PSMC4  | pp | PSMA6  |
| PSMC4  | pp | PSME2  |
| PSMC4  | pp | PSMA7  |
| PSMC4  | pp | RIOK3  |
| PSMC4  | pp | PSMD10 |
| PSMC4  | pp | PSMD7  |
| PSMC4  | pp | PSMA2  |
| PSMC4  | pp | PSMB3  |
| PSMC4  | pp | PSMD3  |
| PSMC4  | pp | PSMD11 |
| PSMC4  | pp | PSMD9  |
| PSMC4  | pp | PRKAB1 |
| PSMC4  | pp | BAG2   |
| PSMC4  | pp | PSMD14 |
| PSMC4  | pp | PSMB2  |
| PSMC4  | pp | PAICS  |
| PSMC4  | pp | PSMA1  |
| PSMC4  | pp | PSMB6  |
| PSMC4  | pp | IKBKE  |
| PSMC4  | pp | PSMB4  |
| PSMC4  | pp | PSMC2  |
| PSMC4  | pp | PSMD6  |
| PSMC4  | pp | PSMC3  |
| PSMC4  | pp | PSMD1  |
| PSMC4  | pp | TRAF6  |
| PSMC4  | pp | PSMD2  |
| PSMC4  | pp | PSMD13 |
| PSMC4  | pp | PSMD12 |
| MVP    | pp | PARP4  |
| NUB1   | pp | NEDD8  |
| CLK1   | pp | SFRS6  |
| CLK1   | pp | GOLM1  |



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| CLK1     | pp | SFRS1    |
| CLK1     | pp | PRPF4    |
| CLK1     | pp | PPIG     |
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| CLK1     | pp | UBL5     |
| POLR3B   | pp | SNAPC1   |
| POLR3B   | pp | POLR3E   |
| POLR3B   | pp | POLR2E   |
| POLR3B   | pp | POLR2F   |
| POLR3B   | pp | POLR3H   |
| POLR3B   | pp | TBP      |
| POLR3B   | pp | GTF3C3   |
| POLR3B   | pp | POLR3F   |
| POLR3B   | pp | POLR2K   |
| POLR3B   | pp | POLR2H   |
| POLR3B   | pp | SNAPC3   |
| POLR3B   | pp | SNAPC5   |
| POLR3B   | pp | BRF1     |
| RNF14    | pp | AR       |
| KIAA0776 | pp | CDK5RAP3 |
| KIAA0776 | pp | PHLDA3   |
| KIAA0776 | pp | PTP4A3   |
| KIAA0776 | pp | CASP4    |
| KIAA0776 | pp | GSTK1    |
| CAPN1    | pp | BID      |
| CAPN1    | pp | NFKBIA   |
| CAPN1    | pp | PSEN2    |
| CAPN1    | pp | CAST     |
| MDH1     | pp | MPP3     |
| WAS      | pp | CDC42    |
| WAS      | pp | CRKL     |
| WAS      | pp | WIPF1    |
| WAS      | pp | TRIP10   |
| WAS      | pp | VASP     |
| WAS      | pp | RAC1     |
| WAS      | pp | NCK1     |
| WAS      | pp | ACTC1    |
| WAS      | pp | ARHGAP1  |
| WAS      | pp | GRB2     |
| WAS      | pp | SRC      |
| WAS      | pp | ITSN2    |
| BID      | pp | BAX      |
| BID      | pp | CASP2    |
| BID      | pp | BCL2L2   |
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| BID      | pp | BCL2L1   |
| BID      | pp | BCL2     |

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| MATR3  | pp | STK24   |
| MATR3  | pp | GSTK1   |
| NUDCD3 | pp | UBE2I   |
| IGF1   | pp | IGFBP5  |
| RALBP1 | pp | HOOK2   |
| RALBP1 | pp | RAC1    |
| RALBP1 | pp | RALB    |
| RALBP1 | pp | AP2M1   |
| WWTR1  | pp | YWHAE   |
| WWTR1  | pp | TEAD4   |
| AGPS   | pp | GNPAT   |
| HGF    | pp | MET     |
| ZFP64  | pp | C14orf1 |
| ZFP64  | pp | SETDB1  |
| ZFP64  | pp | TLE1    |
| FHL1   | pp | PRKAB1  |
| FHL1   | pp | CBX4    |
| FHL1   | pp | IKBKE   |
| FHL1   | pp | MCC     |
| RNF10  | pp | CCDC90B |
| RNF10  | pp | SETDB1  |
| RNF10  | pp | UTP14A  |
| RNF10  | pp | TLE1    |
| ZDHHC6 | pp | GOT2    |
| RNH1   | pp | RNASE1  |
| RNH1   | pp | RNASE4  |
| NDUFS1 | pp | MDH2    |
| RB1CC1 | pp | DBNL    |
| RB1CC1 | pp | PTK2    |
| AKAP11 | pp | GSK3B   |
| AKAP11 | pp | SMYD2   |
| SNAPC1 | pp | POLR3E  |
| SNAPC1 | pp | POLR2E  |
| SNAPC1 | pp | POLR2F  |
| SNAPC1 | pp | POLR3H  |
| SNAPC1 | pp | TBP     |
| SNAPC1 | pp | RB1     |
| SNAPC1 | pp | POU2F1  |
| SNAPC1 | pp | POLR2K  |
| SNAPC1 | pp | POLR2H  |
| SNAPC1 | pp | SNAPC3  |
| SNAPC1 | pp | SNAPC4  |
| SNAPC1 | pp | ZNF143  |
| SNAPC1 | pp | SNAPC5  |
| STRAP  | pp | ACTR6   |
| STRAP  | pp | GSK3B   |
| STRAP  | pp | PRKAB1  |

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| STRAP  | pp | IKBKE     |
| STRAP  | pp | TNIK      |
| STRAP  | pp | TGFBR2    |
| STRAP  | pp | SMAD3     |
| STRAP  | pp | TRAF6     |
| STRAP  | pp | PTP4A3    |
| GCLM   | pp | FTSJ1     |
| GCLM   | pp | TNFRSF14  |
| GCLM   | pp | ARF6      |
| GCLM   | pp | MCC       |
| GCLM   | pp | PHLDA3    |
| RRAGD  | pp | RRAGA     |
| NR1H3  | pp | EDF1      |
| NR1H3  | pp | RARA      |
| NR1H3  | pp | NRIP1     |
| NR1H3  | pp | PPARA     |
| TOMM34 | pp | IKBKE     |
| SEC63  | pp | MCC       |
| SEC63  | pp | PHLDA3    |
| SEC63  | pp | PTP4A3    |
| SEC63  | pp | GSTK1     |
| KPNA6  | pp | GABARAPL2 |
| KPNA6  | pp | RELB      |
| KPNA6  | pp | SPOP      |
| VIM    | pp | SH3YL1    |
| VIM    | pp | HMG20B    |
| VIM    | pp | CRMP1     |
| VIM    | pp | SIRT6     |
| VIM    | pp | ABLIM1    |
| VIM    | pp | TRIOBP    |
| VIM    | pp | BRD1      |
| VIM    | pp | PIAS4     |
| VIM    | pp | RABAC1    |
| VIM    | pp | STX1A     |
| VIM    | pp | C7orf36   |
| VIM    | pp | PDLIM1    |
| VIM    | pp | IVNS1ABP  |
| VIM    | pp | CREB1     |
| VIM    | pp | NUP85     |
| VIM    | pp | PSMA1     |
| VIM    | pp | TRIM28    |
| VIM    | pp | MRPL44    |
| VIM    | pp | MYST2     |
| VIM    | pp | TRIM29    |
| VIM    | pp | TUBGCP4   |
| VIM    | pp | SERBP1    |
| VIM    | pp | SETDB1    |

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| VIM    | pp | APIP     |
| VIM    | pp | TNFRSF14 |
| VIM    | pp | FUBP1    |
| VIM    | pp | FAM107A  |
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| SNX1   | pp | ACVR1B   |
| SNX1   | pp | EGFR     |
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| SNX1   | pp | SNX2     |
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| BCLAF1 | pp | YWHAG    |
| RABEP1 | pp | GGA1     |
| RABEP1 | pp | TSC2     |
| RABEP1 | pp | GGA2     |
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| RHOA    | pp | ARHGEF11 |
| RHOA    | pp | VAV3     |
| RHOA    | pp | ARHGEF4  |
| RHOA    | pp | RAP1GDS1 |
| RHOA    | pp | ARHGDI   |
| RHOA    | pp | VAV1     |
| RHOA    | pp | TRPC1    |
| RHOA    | pp | ARHGEF3  |
| RHOA    | pp | AKAP13   |
| RHOA    | pp | ARHGAP1  |
| RHOA    | pp | ARHGEF12 |
| RHOA    | pp | TGM2     |
| ROGDI   | pp | COPS6    |
| CBFB    | pp | CBFA2T2  |
| CBFB    | pp | RUNX1    |
| PDK3    | pp | DLAT     |
| RASSF1  | pp | HRAS     |
| TFE3    | pp | FSCN1    |
| TFE3    | pp | AKR1B1   |
| TFE3    | pp | GANAB    |
| TFE3    | pp | PSMA3    |
| TFE3    | pp | PSMA6    |
| TFE3    | pp | E2F3     |
| TFE3    | pp | SET      |
| TFE3    | pp | ECHS1    |
| TFE3    | pp | PSMA1    |
| TFE3    | pp | NEDD8    |
| TFE3    | pp | TRIM28   |
| TFE3    | pp | ACLY     |
| TFE3    | pp | GSTM3    |
| TFE3    | pp | EPRS     |
| TFE3    | pp | LRPPRC   |
| TFE3    | pp | CLTC     |
| TFE3    | pp | PDCD6IP  |
| TFE3    | pp | RPL38    |
| TFE3    | pp | PSMD1    |
| TFE3    | pp | NAP1L1   |
| FTSJ1   | pp | FSCN1    |
| FTSJ1   | pp | ZMPSTE24 |
| FTSJ1   | pp | RANBP1   |
| FTSJ1   | pp | MIF      |

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| FTSJ1 | pp | PSMA3     |
| FTSJ1 | pp | AHSA1     |
| FTSJ1 | pp | PSMC1     |
| FTSJ1 | pp | PSMB5     |
| FTSJ1 | pp | PSMA6     |
| FTSJ1 | pp | PLS3      |
| FTSJ1 | pp | NUTF2     |
| FTSJ1 | pp | RAB11A    |
| FTSJ1 | pp | EEF1D     |
| FTSJ1 | pp | SGTA      |
| FTSJ1 | pp | PPP2R1A   |
| FTSJ1 | pp | MTPN      |
| FTSJ1 | pp | PSMB3     |
| FTSJ1 | pp | PSMD3     |
| FTSJ1 | pp | TMEM33    |
| FTSJ1 | pp | MDN1      |
| FTSJ1 | pp | C6orf108  |
| FTSJ1 | pp | RAP1A     |
| FTSJ1 | pp | ROD1      |
| FTSJ1 | pp | C14orf156 |
| FTSJ1 | pp | ECHS1     |
| FTSJ1 | pp | PAICS     |
| FTSJ1 | pp | PSMA1     |
| FTSJ1 | pp | PLD2      |
| FTSJ1 | pp | NEDD8     |
| FTSJ1 | pp | PSME3     |
| FTSJ1 | pp | GRSF1     |
| FTSJ1 | pp | HRSP12    |
| FTSJ1 | pp | PCNA      |
| FTSJ1 | pp | TACC2     |
| FTSJ1 | pp | ETFA      |
| FTSJ1 | pp | RPS11     |
| FTSJ1 | pp | SRPRB     |
| FTSJ1 | pp | CDKN2A    |
| FTSJ1 | pp | TAGLN2    |
| FTSJ1 | pp | CBR1      |
| FTSJ1 | pp | RBBP4     |
| FTSJ1 | pp | TKT       |
| FTSJ1 | pp | STOML2    |
| FTSJ1 | pp | NUDT5     |
| FTSJ1 | pp | HPRT1     |
| FTSJ1 | pp | PPIB      |
| FTSJ1 | pp | RRM1      |
| FTSJ1 | pp | SF3A3     |
| FTSJ1 | pp | P4HB      |
| FTSJ1 | pp | DRG1      |
| FTSJ1 | pp | NAP1L1    |



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| FTSJ1  | pp | PSMD12  |
| FTSJ1  | pp | APRT    |
| FTSJ1  | pp | GDI1    |
| CYFIP1 | pp | FMR1    |
| CYFIP1 | pp | RAC1    |
| CYFIP1 | pp | YWHAG   |
| SIRT2  | pp | HDAC6   |
| SIRT2  | pp | GYS1    |
| SIRT2  | pp | SPOP    |
| PYGM   | pp | GYG1    |
| NUP133 | pp | NUP98   |
| NUP133 | pp | NUP107  |
| VPS35  | pp | PRKAB1  |
| VPS35  | pp | MCC     |
| VPS35  | pp | TRAF6   |
| BCL3   | pp | NFKB1   |
| ABCC9  | pp | EEF1G   |
| RORA   | pp | MED1    |
| TGFBR3 | pp | TGFB1   |
| TGFBR3 | pp | GIPC1   |
| TGFBR3 | pp | TGFBR2  |
| ATP1B3 | pp | PTP4A3  |
| NEDD4  | pp | GRB10   |
| NEDD4  | pp | RNF11   |
| NEDD4  | pp | DAZAP2  |
| GNB5   | pp | OLFM2   |
| GNB5   | pp | MVD     |
| RAB27A | pp | SYTL4   |
| RAB27A | pp | ZBTB16  |
| RAB27A | pp | MLPH    |
| RAB27A | pp | C14orf1 |
| RAB27A | pp | COPS6   |
| IKBKAP | pp | GSK3B   |
| IKBKAP | pp | NFKBIA  |
| IKBKAP | pp | CSTF2   |
| IKBKAP | pp | ERLIN1  |
| IKBKAP | pp | ELP3    |
| IKBKAP | pp | MAP3K7  |
| IKBKAP | pp | NDUFB9  |
| IKBKAP | pp | CCT5    |
| IKBKAP | pp | MCC     |
| IKBKAP | pp | MAN2A2  |
| IKBKAP | pp | MRPL42  |
| IKBKAP | pp | BAT3    |
| NUCB2  | pp | NDN     |
| PFN2   | pp | ACTB    |
| PFN2   | pp | SGTA    |

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| PFN2     | pp | PTPRS    |
| PFN2     | pp | PRKAB1   |
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| PFN2     | pp | RNF146   |
| PFN2     | pp | VASP     |
| PFN2     | pp | NDUFB8   |
| PFN2     | pp | GOLGB1   |
| PFN2     | pp | TRAF6    |
| PFN2     | pp | ACTG1    |
| PFN2     | pp | EVL      |
| PTPN3    | pp | ADAM17   |
| PTPN3    | pp | YWHAB    |
| PTPN3    | pp | YWHAG    |
| CLTCL1   | pp | EGFR     |
| MNT      | pp | MAX      |
| POLB     | pp | XRCC1    |
| POLB     | pp | POLD3    |
| POLB     | pp | POLD2    |
| POLB     | pp | PCNA     |
| POLB     | pp | MYST2    |
| POLB     | pp | POLD4    |
| POLB     | pp | TLE1     |
| ASNS     | pp | STRN4    |
| ASNS     | pp | IKBKE    |
| PABPC1   | pp | EIF4G1   |
| PABPC1   | pp | PCBP1    |
| PABPC1   | pp | YWHAG    |
| PABPC1   | pp | PAIP1    |
| C16orf80 | pp | YWHAG    |
| CSNK2A2  | pp | MAPK14   |
| CSNK2A2  | pp | HSP90B1  |
| CSNK2A2  | pp | LY6G5B   |
| EIF2B3   | pp | STC2     |
| EIF2B3   | pp | EIF2B4   |
| EIF2B3   | pp | EIF2B2   |
| EIF2B3   | pp | EIF2S1   |
| EIF2B3   | pp | GOLM1    |
| EIF2B3   | pp | EIF2B5   |
| EIF2B3   | pp | NDUFB8   |
| TCOF1    | pp | PCNA     |
| CDC42    | pp | PLEKHG2  |
| CDC42    | pp | ARHGEF7  |
| CDC42    | pp | OCRL     |
| CDC42    | pp | TRIP10   |
| CDC42    | pp | CDC42EP1 |
| CDC42    | pp | RAC2     |

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| CDC42   | pp | ARHGEF6  |
| CDC42   | pp | PAK4     |
| CDC42   | pp | C14orf1  |
| CDC42   | pp | BNIP2    |
| CDC42   | pp | IQGAP1   |
| CDC42   | pp | TP53     |
| CDC42   | pp | ARHGDI1  |
| CDC42   | pp | VAV1     |
| CDC42   | pp | PARD3    |
| CDC42   | pp | CDC42EP2 |
| CDC42   | pp | UBR1     |
| CDC42   | pp | CDC42EP3 |
| CDC42   | pp | PRKCI    |
| CDC42   | pp | TRAF6    |
| CDC42   | pp | ARHGAP1  |
| CDC42   | pp | BAIAP2   |
| CDC42   | pp | PAK2     |
| CDC42   | pp | EEF1G    |
| CDC42   | pp | GDI1     |
| CDC42   | pp | ITSN1    |
| OSBPL3  | pp | YWHAB    |
| OSBPL3  | pp | YWHAG    |
| NCK2    | pp | TRIP6    |
| NCK2    | pp | EFNB1    |
| NCK2    | pp | CPSF6    |
| NCK2    | pp | ATN1     |
| NCK2    | pp | PDGFRB   |
| NCK2    | pp | CBLB     |
| NCK2    | pp | FXR2     |
| NCK2    | pp | ABI2     |
| NCK2    | pp | SF3B4    |
| NCK2    | pp | DOCK1    |
| NCK2    | pp | PTK2     |
| NCK2    | pp | LIMS1    |
| NCK2    | pp | EEF1G    |
| RPS6KA2 | pp | MAPK1    |
| WBSCR22 | pp | PRKAB1   |
| ATP6AP1 | pp | RNASE4   |
| TCF3    | pp | RUNX1T1  |
| TCF3    | pp | ID3      |
| TCF3    | pp | MAPKAPK2 |
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| MBD3    | pp | RBBP7    |
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| MBD3    | pp | GATAD2B  |
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| MBD3    | pp | RBBP4    |

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| MBD3   | pp | GATAD2A  |
| PDCD2  | pp | NFKBIB   |
| PDCD2  | pp | HCFC1    |
| PRKACA | pp | LIPE     |
| PRKACA | pp | PRKAR1A  |
| PRKACA | pp | PRKAR2A  |
| PRKACA | pp | C11orf17 |
| LPHN1  | pp | SHANK2   |
| ACTN1  | pp | PDLIM1   |
| ACTN1  | pp | TES      |
| ACTN1  | pp | TTN      |
| ACTN1  | pp | ZYX      |
| ACTN1  | pp | FBP1     |
| ACTN1  | pp | MYOZ1    |
| TFRC   | pp | TF       |
| TFRC   | pp | GABARAP  |
| TFRC   | pp | MCC      |
| TFRC   | pp | TRAF6    |
| AFF4   | pp | SIAH1    |
| SMC1A  | pp | SF3B2    |
| SMC1A  | pp | FUS      |
| SMC1A  | pp | SF3A1    |
| SMC1A  | pp | SMC3     |
| SMC1A  | pp | SF3B1    |
| SMC1A  | pp | SFRS7    |
| SMC1A  | pp | STAG1    |
| SMC1A  | pp | HNRNPR   |
| SMC1A  | pp | DHX9     |
| SMC1A  | pp | PRPF4    |
| SMC1A  | pp | NCBP1    |
| SMC1A  | pp | MDC1     |
| SMC1A  | pp | SF3B4    |
| SMC1A  | pp | RAD21    |
| SMC1A  | pp | CDC40    |
| SMC1A  | pp | CD2BP2   |
| SMC1A  | pp | SF3B5    |
| SMC1A  | pp | HNRNPA0  |
| SMC1A  | pp | SF3A3    |
| SMC1A  | pp | SF3B3    |
| CHFR   | pp | ITGAE    |
| CHFR   | pp | WDR47    |
| CHFR   | pp | PML      |
| CHFR   | pp | BRD4     |
| CHFR   | pp | EEF1G    |
| CHFR   | pp | GABBR1   |
| FBXW11 | pp | NFKBIA   |
| FBXW11 | pp | BTRC     |

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| CRMP1  | pp | KLHL20   |
| CRMP1  | pp | PAFAH1B3 |
| CRMP1  | pp | SEPHS1   |
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| CRMP1  | pp | PSMD11   |
| CRMP1  | pp | NAT9     |
| CRMP1  | pp | ALDH2    |
| CRMP1  | pp | TFG      |
| CRMP1  | pp | FXR1     |
| CRMP1  | pp | MOBK3    |
| CRMP1  | pp | RPA2     |
| CRMP1  | pp | PPP1R8   |
| CRMP1  | pp | UBE2B    |
| CRMP1  | pp | MRPS12   |
| CRMP1  | pp | SAT1     |
| CRMP1  | pp | BTBD2    |
| CRMP1  | pp | CCT7     |
| CRMP1  | pp | CDK5RAP2 |
| CRMP1  | pp | FUBP1    |
| CRMP1  | pp | TK1      |
| CRMP1  | pp | FTH1     |
| CRMP1  | pp | SERPINB9 |
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| CRMP1  | pp | PLA2G2A  |
| CRMP1  | pp | HMGB1    |
| CRMP1  | pp | RGL2     |
| AP1M1  | pp | AP1B1    |
| AP1M1  | pp | AP1S1    |
| AP1M1  | pp | VAMP4    |
| AP1M1  | pp | FXR2     |
| AP1M1  | pp | TGOLN2   |
| AP1M1  | pp | GAK      |
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| AP1M1  | pp | LAMP1    |
| AP1M1  | pp | MTF1     |
| PVR    | pp | DYNLT3   |
| PVR    | pp | PVRL3    |
| IKBKG  | pp | NFKB2    |
| IKBKG  | pp | CYLD     |
| IKBKG  | pp | TXLNA    |
| IKBKG  | pp | NFKBIA   |
| IKBKG  | pp | TRPC4AP  |
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| IKBKG    | pp | ZFAND5   |
| IKBKG    | pp | ERLIN1   |
| IKBKG    | pp | NFKB1    |
| IKBKG    | pp | TNFAIP3  |
| IKBKG    | pp | RNF11    |
| IKBKG    | pp | NCOA3    |
| IKBKG    | pp | TANK     |
| IKBKG    | pp | RIPK1    |
| IKBKG    | pp | PPM1B    |
| IKBKG    | pp | COPS3    |
| IKBKG    | pp | RPS27A   |
| IKBKG    | pp | TBK1     |
| IKBKG    | pp | SRC      |
| XRCC1    | pp | PCNA     |
| XRCC1    | pp | APTX     |
| XRCC1    | pp | PARP1    |
| PICALM   | pp | CLTC     |
| NSF      | pp | EIF3E    |
| NSF      | pp | C14orf1  |
| NSF      | pp | LUC7L2   |
| CLASP1   | pp | YWHAG    |
| NOTCH3   | pp | PSEN1    |
| NOTCH3   | pp | JAG1     |
| NOTCH3   | pp | PSEN2    |
| NOTCH3   | pp | MAML1    |
| NOTCH3   | pp | JAG2     |
| CLNS1A   | pp | PRMT5    |
| CLNS1A   | pp | SNRPB    |
| CA12     | pp | TOE1     |
| CA12     | pp | C15orf29 |
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| CA12     | pp | ATP5C1   |
| NUAK1    | pp | USP9X    |
| ZZEF1    | pp | PTPN4    |
| ZZEF1    | pp | PHYHIP   |
| C19orf10 | pp | TRAF6    |
| C19orf10 | pp | BAT3     |
| ARHGEF10 | pp | ANXA9    |
| ARHGEF10 | pp | DRAP1    |
| ACTR6    | pp | FSCN1    |
| ACTR6    | pp | PSMA7    |
| ACTR6    | pp | PSMA1    |
| ACTR6    | pp | TAGLN2   |
| ACTR6    | pp | TKT      |
| ACTR6    | pp | MAT2A    |
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| ACTR6    | pp | RUVBL1   |

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| SRI    | pp | PSEN2    |
| EIF4G3 | pp | EIF3A    |
| SEMA3A | pp | NRP1     |
| ACAT1  | pp | MPG      |
| ACAT1  | pp | EIF1B    |
| ACAT1  | pp | TNIK     |
| ACAT1  | pp | MCC      |
| ZNF638 | pp | HOOK2    |
| ZNF638 | pp | FHL2     |
| ZNF638 | pp | CALCOCO2 |
| ZNF638 | pp | YWHAG    |
| ZNF638 | pp | PLSCR1   |
| ZNF638 | pp | KIAA1279 |
| MARK3  | pp | NOL11    |
| MARK3  | pp | YWHAQ    |
| MARK3  | pp | VPS11    |
| MARK3  | pp | CPSF4    |
| MARK3  | pp | SAAL1    |
| MARK3  | pp | YWHAB    |
| MARK3  | pp | YWHAG    |
| MARK3  | pp | TCEA2    |
| MARK3  | pp | SFN      |
| MARK3  | pp | PNPLA2   |
| MARK3  | pp | ATP6V0C  |
| MARK3  | pp | ASB13    |
| FSCN1  | pp | PRKAB1   |
| FSCN1  | pp | DNAJB9   |
| FSCN1  | pp | RAB1A    |
| FSCN1  | pp | TNIK     |
| FSCN1  | pp | ACTC1    |
| FSCN1  | pp | TRAF6    |
| ACTB   | pp | EMD      |
| ACTB   | pp | NCALD    |
| ACTB   | pp | GAPDH    |
| ACTB   | pp | DSTN     |
| ACTB   | pp | RBM12    |
| ACTB   | pp | SMARCA4  |
| ACTB   | pp | RAC2     |
| ACTB   | pp | RAC1     |
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| ACTB   | pp | ACTC1    |
| ACTB   | pp | CFL2     |
| ACTB   | pp | SMAD3    |

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| PLD1     | pp | PRKCA    |
| PLD1     | pp | PEA15    |
| DLG1     | pp | CASK     |
| DLG1     | pp | ADAM17   |
| DLG1     | pp | GRIN2A   |
| DLG1     | pp | KIF13B   |
| RAB7A    | pp | RABAC1   |
| SART3    | pp | SNRPB    |
| SART3    | pp | RNPS1    |
| ARHGAP15 | pp | RAC1     |
| EXOSC7   | pp | EXOSC9   |
| EXOSC7   | pp | EXOSC4   |
| KIFAP3   | pp | KIF3B    |
| KIFAP3   | pp | RAP1GDS1 |
| KIFAP3   | pp | SRC      |
| MCM6     | pp | MCM4     |
| MCM6     | pp | RPA3     |
| MCM6     | pp | MCM3     |
| MCM6     | pp | GMNN     |
| MCM6     | pp | ORC4L    |
| MCM6     | pp | RPA2     |
| MCM6     | pp | CDK2     |
| MCM6     | pp | PSMA1    |
| MCM6     | pp | RPA1     |
| MCM6     | pp | SCNM1    |
| MCM6     | pp | ORC5L    |
| MCM6     | pp | MCM7     |
| MCM6     | pp | MCC      |
| MCM6     | pp | MLLT3    |
| MCM6     | pp | TRAF6    |
| RBM7     | pp | KHDRBS3  |
| RBM7     | pp | HMG20A   |
| BAZ2A    | pp | TTF1     |
| MLH1     | pp | MLH3     |
| MLH1     | pp | MBD4     |
| MLH1     | pp | MYC      |
| MLH1     | pp | TRIM29   |
| MLH1     | pp | UBOX5    |
| UNG      | pp | RPA2     |
| UNG      | pp | PCNA     |
| KLHL20   | pp | C14orf1  |
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| KLHL20   | pp | GBP2     |



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| NT5C2    | pp | MOBKL2B |
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| MAP2K7   | pp | MAPK8   |
| NFKB2    | pp | GTF2I   |
| NFKB2    | pp | RPL6    |
| NFKB2    | pp | NFKBIA  |
| NFKB2    | pp | NFKBIB  |
| NFKB2    | pp | RELB    |
| NFKB2    | pp | ERLIN1  |
| NFKB2    | pp | PSMD11  |
| NFKB2    | pp | NFKB1   |
| NFKB2    | pp | NFKBIE  |
| NFKB2    | pp | REL     |
| NFKB2    | pp | TNIP2   |
| NFKB2    | pp | RELA    |
| PPP1R12B | pp | IL16    |
| GTF3C1   | pp | NHP2L1  |
| GTF3C1   | pp | ASCC2   |
| GTF3C1   | pp | RBM23   |
| GTF3C1   | pp | MAPK10  |
| GTF3C1   | pp | CPE     |
| GTF3C1   | pp | GTF3C4  |
| GTF3C1   | pp | PRPF38A |
| GTF3C1   | pp | IGFBP3  |
| GTF3C1   | pp | AKTIP   |
| GTF3C1   | pp | SUPT5H  |
| USP33    | pp | TCEB2   |
| USP33    | pp | DDX56   |
| USP33    | pp | TCEB1   |
| SNRPA    | pp | SF3B2   |
| SNRPA    | pp | FUS     |
| SNRPA    | pp | PAPOLA  |
| SNRPA    | pp | SF3A1   |
| SNRPA    | pp | SNRPD3  |
| SNRPA    | pp | NHP2L1  |
| SNRPA    | pp | SF3A2   |
| SNRPA    | pp | SFRS9   |
| SNRPA    | pp | SMAD5   |
| SNRPA    | pp | NCBP2   |
| SNRPA    | pp | SF3B1   |
| SNRPA    | pp | SFRS7   |
| SNRPA    | pp | SNRPD2  |
| SNRPA    | pp | SNRPB   |

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| SNRPA   | pp | HNRNPR  |
| SNRPA   | pp | DHX9    |
| SNRPA   | pp | PRPF4   |
| SNRPA   | pp | NCBP1   |
| SNRPA   | pp | ATIC    |
| SNRPA   | pp | SNRPF   |
| SNRPA   | pp | TXNL4A  |
| SNRPA   | pp | SF3B4   |
| SNRPA   | pp | U2AF1   |
| SNRPA   | pp | PCF11   |
| SNRPA   | pp | CPSF2   |
| SNRPA   | pp | SNRPD1  |
| SNRPA   | pp | CDC40   |
| SNRPA   | pp | CD2BP2  |
| SNRPA   | pp | SF3B5   |
| SNRPA   | pp | CLP1    |
| SNRPA   | pp | HNRNPA0 |
| SNRPA   | pp | SF3A3   |
| SNRPA   | pp | SF3B3   |
| SNRPA   | pp | RNPS1   |
| EXOSC5  | pp | EXOSC8  |
| EXOSC5  | pp | EXOSC9  |
| DYNC1I2 | pp | DYNLT3  |
| DYNC1I2 | pp | DCTN1   |
| APBB1IP | pp | RAP1A   |
| APBB1IP | pp | VASP    |
| LRCH4   | pp | MDFI    |
| SIRT6   | pp | CHD3    |
| POLD3   | pp | POLD2   |
| POLD3   | pp | PCNA    |
| POLD3   | pp | POLD4   |
| CAPZB   | pp | BCCIP   |
| CAPZB   | pp | IKBKE   |
| CAPZB   | pp | MCC     |
| CAPZB   | pp | TRAF6   |
| PHF17   | pp | UBE3A   |
| UBE2A   | pp | ZMYM2   |
| UBE2A   | pp | MDM2    |
| UBE2A   | pp | TP53    |
| UBE2A   | pp | CDKN2A  |
| FGFR1   | pp | SHB     |
| FGFR1   | pp | FRS3    |
| FGFR1   | pp | FGF2    |
| FGFR1   | pp | BNIP2   |
| FGFR1   | pp | SHC1    |
| FGFR1   | pp | FDPS    |

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| FGFR1   | pp | GRB2     |
| GTF2I   | pp | PIAS2    |
| GTF2I   | pp | ZBTB17   |
| GTF2I   | pp | MYC      |
| GTF2I   | pp | ARF6     |
| GTF2I   | pp | HDAC3    |
| GTF2I   | pp | PTP4A3   |
| GTF2I   | pp | GSTK1    |
| FBLN1   | pp | MOBK13   |
| ITGA8   | pp | ITGB1    |
| PIAS2   | pp | UBE2I    |
| PIAS2   | pp | PARK7    |
| PIAS2   | pp | SNIP1    |
| PIAS2   | pp | AR       |
| PIAS2   | pp | HDAC3    |
| ARAF    | pp | TIMM44   |
| ARAF    | pp | EFEMP1   |
| ARAF    | pp | MAP2K2   |
| ARAF    | pp | ASS1     |
| ARAF    | pp | COPS3    |
| ARAF    | pp | MAP2K1   |
| ARAF    | pp | YWHAG    |
| ARAF    | pp | LY6G5B   |
| PIK3C3  | pp | YWHAG    |
| PIK3C3  | pp | PIK3R4   |
| SYNJ2   | pp | RAC1     |
| PPP2R5C | pp | PPP2R1B  |
| GNB1    | pp | GNG11    |
| GNB1    | pp | GNA12    |
| GNB1    | pp | MCC      |
| GNB1    | pp | GNG2     |
| GNB1    | pp | GNB2L1   |
| HOXA9   | pp | TRIP6    |
| HOXA9   | pp | SMAD4    |
| HOXA9   | pp | RBPM5    |
| HOXA9   | pp | PLSCR1   |
| HOXA9   | pp | PBX2     |
| EDN1    | pp | EDNRA    |
| EDN1    | pp | COPS6    |
| EDN1    | pp | BAT3     |
| VDAC3   | pp | DDX24    |
| VDAC3   | pp | IKBKE    |
| VDAC3   | pp | CASP4    |
| VDAC3   | pp | GSTK1    |
| PCM1    | pp | CCDC53   |
| PCM1    | pp | KIAA0368 |
| PCM1    | pp | ABI2     |

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| PCM1     | pp | BBS4    |
| CBFA2T2  | pp | RUNX1T1 |
| CBFA2T2  | pp | MDFI    |
| ITCH     | pp | NEDD9   |
| TOLLIP   | pp | TOM1    |
| TOLLIP   | pp | ZBTB16  |
| TOLLIP   | pp | SETDB1  |
| TOLLIP   | pp | RBPMS   |
| TOLLIP   | pp | ZHX1    |
| TOLLIP   | pp | DAZAP2  |
| UBE2D4   | pp | DTX2    |
| UBE2D4   | pp | RNF11   |
| RUNX1T1  | pp | ABI3    |
| RUNX1T1  | pp | ZBTB16  |
| RUNX1T1  | pp | KPNA1   |
| RUNX1T1  | pp | PRKAR2A |
| RUNX1T1  | pp | NCOR1   |
| RUNX1T1  | pp | HDAC3   |
| RUNX1T1  | pp | TCF4    |
| XRCC5    | pp | PRKDC   |
| XRCC5    | pp | PCNA    |
| XRCC5    | pp | PARP1   |
| XRCC5    | pp | TERF2IP |
| XRCC5    | pp | LIG4    |
| XRCC5    | pp | XRCC6   |
| MKNK1    | pp | EIF4G2  |
| MKNK1    | pp | EIF4G1  |
| CEACAM1  | pp | PTPN6   |
| CEACAM1  | pp | SHC1    |
| CEACAM1  | pp | PTPN11  |
| LIPE     | pp | NSFL1C  |
| LIPE     | pp | FABP4   |
| FDFT1    | pp | SHPRH   |
| FDFT1    | pp | ANXA5   |
| FDFT1    | pp | ARL6IP1 |
| FDFT1    | pp | TMEM43  |
| PAFAH1B3 | pp | DDX24   |
| PAFAH1B3 | pp | ECH1    |
| PAFAH1B3 | pp | ZBTB16  |
| PAFAH1B3 | pp | GAPDH   |
| PAFAH1B3 | pp | IGSF21  |
| PAFAH1B3 | pp | C14orf1 |
| PAFAH1B3 | pp | CCDC90B |
| PAFAH1B3 | pp | PLEKHM1 |
| PAFAH1B3 | pp | TP53    |
| PAFAH1B3 | pp | SETDB1  |
| PAFAH1B3 | pp | CHMP7   |

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| PAFAH1B3 | pp | GBP2     |
| PAFAH1B3 | pp | ZHX1     |
| PAFAH1B3 | pp | COPS6    |
| PAFAH1B3 | pp | PAFAH1B2 |
| PAFAH1B3 | pp | XRCC6    |
| PAFAH1B3 | pp | TLE1     |
| PGM1     | pp | S100B    |
| PGM1     | pp | S100A1   |
| DDX1     | pp | CSTF2    |
| EPB41L2  | pp | YWHAQ    |
| EPB41L2  | pp | ADORA1   |
| EPB41L2  | pp | YWHAB    |
| EPB41L2  | pp | YWHAG    |
| EPB41L2  | pp | FKBP2    |
| STX7     | pp | VPS18    |
| STX7     | pp | NAPA     |
| STX7     | pp | STX6     |
| KEAP1    | pp | FAM46A   |
| KEAP1    | pp | ETF1     |
| RAB21    | pp | IKBKE    |
| RAB21    | pp | MCC      |
| SMARCA2  | pp | SMARCD3  |
| SMARCA2  | pp | GSK3B    |
| SMARCA2  | pp | MECP2    |
| MID2     | pp | IGBP1    |
| KIAA0020 | pp | HPS6     |
| PSEN1    | pp | RAB11A   |
| PSEN1    | pp | NOTCH2   |
| PSEN1    | pp | UBQLN1   |
| PSEN1    | pp | FLNB     |
| PSEN1    | pp | CASP1    |
| PSEN1    | pp | APH1B    |
| PSEN1    | pp | APP      |
| PSEN1    | pp | PKP4     |
| PSEN1    | pp | NOTCH1   |
| PSEN1    | pp | TCF7L2   |
| PSEN1    | pp | NCSTN    |
| PSEN1    | pp | CASP3    |
| PSEN1    | pp | CASP7    |
| PSEN1    | pp | CTNNB1   |
| PSEN1    | pp | BCL2L1   |
| PSEN1    | pp | BCL2     |
| PSEN1    | pp | CIB1     |
| PSEN1    | pp | BACE1    |
| PSEN1    | pp | FLNA     |
| PSEN1    | pp | PSENE1   |
| DLGAP4   | pp | PPP1R1B  |

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| DLGAP4  | pp | RPS27A   |
| MEF2C   | pp | MAPK14   |
| MEF2C   | pp | VGLL4    |
| MEF2C   | pp | MAPK7    |
| ME2     | pp | RAB11A   |
| ME2     | pp | USP15    |
| ME2     | pp | ATIC     |
| C5orf22 | pp | ELOF1    |
| EPB41L3 | pp | IGSF21   |
| EPB41L3 | pp | YWHAH    |
| EPB41L3 | pp | YWHAQ    |
| EPB41L3 | pp | SMYD2    |
| EPB41L3 | pp | YWHAB    |
| EPB41L3 | pp | YWHAG    |
| DLG3    | pp | KLHDC3   |
| DLG3    | pp | ANXA1    |
| DLG3    | pp | ABCA1    |
| DLG3    | pp | ERBB4    |
| DLG3    | pp | S100A3   |
| TRAF5   | pp | CD40     |
| TRAF5   | pp | RIPK2    |
| TRAF5   | pp | TRIM37   |
| TRAF5   | pp | TTRAP    |
| TRAF5   | pp | TNFRSF8  |
| TRAF5   | pp | CD27     |
| TRAF5   | pp | TNFRSF14 |
| GEMIN5  | pp | SIP1     |
| GEMIN5  | pp | SNRPD3   |
| GEMIN5  | pp | SNRPD2   |
| GEMIN5  | pp | SNRPB    |
| GEMIN5  | pp | SNRPD1   |
| GEMIN5  | pp | GEMIN4   |
| NFE2L1  | pp | ATF4     |
| NFE2L1  | pp | JUNB     |
| GSK3B   | pp | DNM1L    |
| GSK3B   | pp | FUS      |
| GSK3B   | pp | SF3A1    |
| GSK3B   | pp | GYS1     |
| GSK3B   | pp | AKT2     |
| GSK3B   | pp | DDX5     |
| GSK3B   | pp | SF3B1    |
| GSK3B   | pp | ACLY     |
| GSK3B   | pp | HSD17B4  |
| GSK3B   | pp | APC      |
| GSK3B   | pp | MAP2K5   |
| GSK3B   | pp | TP53     |
| GSK3B   | pp | AKT1     |

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| GSK3B  | pp | SMYD2  |
| GSK3B  | pp | CTNNB1 |
| GSK3B  | pp | XPO6   |
| GSK3B  | pp | PTK2   |
| GSK3B  | pp | GEMIN4 |
| GSK3B  | pp | MAPT   |
| GSK3B  | pp | PTPN1  |
| ITGB5  | pp | PAK4   |
| ITGB5  | pp | ITGAV  |
| ITGB5  | pp | CYR61  |
| ITGB5  | pp | MYO10  |
| ITGB5  | pp | ITGA5  |
| ITGB5  | pp | ANXA5  |
| ITGB5  | pp | GNB2L1 |
| ERC1   | pp | PPFIA1 |
| ERC1   | pp | RAB6B  |
| ERC1   | pp | YWHAG  |
| XPO1   | pp | NUP50  |
| XPO1   | pp | RANBP1 |
| XPO1   | pp | IL4I1  |
| XPO1   | pp | NUP98  |
| XPO1   | pp | NUP153 |
| XPO1   | pp | NUP214 |
| XPO1   | pp | RANBP2 |
| XPO1   | pp | CRK    |
| XPO1   | pp | SNUPN  |
| XPO1   | pp | RCC1   |
| ULK2   | pp | IRF1   |
| ULK2   | pp | SETDB1 |
| ULK2   | pp | LUC7L2 |
| NUFIP1 | pp | FMR1   |
| ZNF8   | pp | SMAD5  |
| ZNF8   | pp | SMAD4  |
| ZNF8   | pp | SMAD3  |
| ZNF8   | pp | SMAD1  |
| ZNF8   | pp | SMAD2  |
| RPS5   | pp | EIF3I  |
| RPS5   | pp | RPL6   |
| RPS5   | pp | EIF3D  |
| RPS5   | pp | EIF5   |
| RPS5   | pp | EIF3B  |
| RPS5   | pp | EIF3A  |
| RPS5   | pp | EIF4G1 |
| RPS5   | pp | EIF3G  |
| RPS5   | pp | RPL27  |
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| RPS5    | pp | RPS24   |
| RPS5    | pp | RPS11   |
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| RPS5    | pp | RPS27A  |
| RPS5    | pp | EIF3H   |
| RPS5    | pp | RPS3    |
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| RPS5    | pp | RPL30   |
| RPS5    | pp | EIF5B   |
| RPS5    | pp | RPL8    |
| RPS5    | pp | RPL27A  |
| RPS5    | pp | EEF2    |
| RPS5    | pp | RPS21   |
| RPS5    | pp | EIF3K   |
| RPS5    | pp | RPL14   |
| RPS5    | pp | RPL10A  |
| YTHDC1  | pp | KHDRBS1 |
| CHMP2B  | pp | ATP5C1  |
| PPIE    | pp | MLL     |
| PPIE    | pp | PHYHIP  |
| C4orf14 | pp | HSPA8   |
| C4orf14 | pp | ARF1    |
| C4orf14 | pp | AIFM1   |
| C4orf14 | pp | ABCF3   |
| C4orf14 | pp | MPP3    |
| C4orf14 | pp | NFU1    |
| C4orf14 | pp | H1FO    |
| GSTP1   | pp | PNO1    |
| APLP2   | pp | APBB3   |
| APLP2   | pp | APBB2   |
| APLP2   | pp | APBB1   |
| EIF3I   | pp | ESR1    |
| EIF3I   | pp | EIF5    |
| EIF3I   | pp | TGFB1   |
| EIF3I   | pp | RPS19   |
| EIF3I   | pp | EIF3B   |
| EIF3I   | pp | EIF3A   |
| EIF3I   | pp | EIF1B   |
| EIF3I   | pp | EIF3G   |
| EIF3I   | pp | EIF2S1  |
| EIF3I   | pp | RPS6    |
| EIF3I   | pp | RPS24   |
| EIF3I   | pp | RPS11   |
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| EIF3I  | pp | RPS21   |
| EIF3I  | pp | EIF3K   |
| EIF3I  | pp | RPS23   |
| EIF3I  | pp | RPS28   |
| APOB   | pp | LDLR    |
| NCOA1  | pp | TRIP4   |
| NCOA1  | pp | AR      |
| RAB10  | pp | AP1S1   |
| RAB10  | pp | DOK2    |
| RAB10  | pp | RAB8A   |
| RAB10  | pp | TRAF6   |
| RAB10  | pp | 9-Sep   |
| HADHA  | pp | PRKAB1  |
| HADHA  | pp | ACADL   |
| HADHA  | pp | BCAR3   |
| HADHA  | pp | HADHB   |
| HADHA  | pp | IKBKE   |
| HADHA  | pp | TRAF6   |
| CD59   | pp | SMAD4   |
| CD59   | pp | SRC     |
| CD82   | pp | NUP88   |
| CD82   | pp | CANX    |
| CD82   | pp | ITGB1   |
| CD82   | pp | ITGB2   |
| CD82   | pp | VANGL1  |
| SCAMP1 | pp | SNAP23  |
| SCAMP1 | pp | UBE3A   |
| SCAMP1 | pp | SCAMP2  |
| SCAMP1 | pp | TP53    |
| SCAMP1 | pp | ITSN1   |
| PREP   | pp | PRKAB1  |
| PREP   | pp | TRAF6   |
| WDR47  | pp | FAM107A |
| WDR47  | pp | TCEA2   |
| MAP3K4 | pp | GADD45B |
| MAP3K4 | pp | MAP2K6  |
| MAP3K4 | pp | GADD45A |
| AKR1B1 | pp | DSP     |
| AKR1B1 | pp | IKBKE   |
| AKR1B1 | pp | DST     |
| AKR1B1 | pp | SMAD1   |
| AKR1B1 | pp | MCC     |
| AKR1B1 | pp | TRAF6   |
| CPNE3  | pp | QARS    |
| CTTN   | pp | WIPF1   |
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| CTTN   | pp | CHD3    |

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| CTTN     | pp | GRB2     |
| EPS15    | pp | NUMBL    |
| EPS15    | pp | NUMB     |
| EPS15    | pp | EGFR     |
| EPS15    | pp | AP2A1    |
| EPS15    | pp | ITSN1    |
| DNAJA1   | pp | OSGEP    |
| DNAJA1   | pp | FZR1     |
| DNAJA1   | pp | HSPA8    |
| DNAJA1   | pp | CD58     |
| DNAJA1   | pp | SAP18    |
| DNAJA1   | pp | TNFRSF14 |
| DNAJA1   | pp | TM4SF1   |
| DNAJA1   | pp | ARL4D    |
| DNAJA1   | pp | PTP4A3   |
| DNAJA1   | pp | GSTK1    |
| SEPHS1   | pp | IGSF21   |
| SEPHS1   | pp | SAT1     |
| SEPHS1   | pp | C14orf1  |
| SEPHS1   | pp | GBP2     |
| TMED2    | pp | TMED10   |
| ZW10     | pp | BRF2     |
| ZW10     | pp | PHLDA3   |
| ZW10     | pp | PTP4A3   |
| ZW10     | pp | GSTK1    |
| ALG9     | pp | H2AFX    |
| PPP1R15A | pp | BAG1     |
| PPP1R15A | pp | MLL      |
| PPP1R15A | pp | KIF3A    |
| PPP1R15A | pp | LYN      |
| PPP1R15A | pp | TSN      |
| HSD17B14 | pp | NUDT18   |
| HSD17B14 | pp | DDIT3    |
| TRIP6    | pp | TRIP11   |
| TRIP6    | pp | AQP1     |
| TRIP6    | pp | ATN1     |
| TRIP6    | pp | ILF3     |
| TRIP6    | pp | PDLIM4   |
| TRIP6    | pp | TPM4     |
| TRIP6    | pp | KCTD5    |
| TRIP6    | pp | PTK2     |
| TRIP6    | pp | FHL3     |
| TRIP6    | pp | P4HB     |
| TRIP6    | pp | SRC      |
| FTL      | pp | GADD45A  |
| FTL      | pp | MPHOSPH6 |
| FTL      | pp | TAF10    |

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| FTL   | pp | FTH1      |
| BAX   | pp | SH3GLB1   |
| BAX   | pp | SLC25A4   |
| BAX   | pp | MOAP1     |
| BAX   | pp | BCL2L1    |
| BAX   | pp | BCL2      |
| PGS1  | pp | PDLIM1    |
| PGS1  | pp | GABARAP   |
| MMP2  | pp | TIMP3     |
| MMP2  | pp | TGFB1     |
| MMP2  | pp | COL1A1    |
| MMP2  | pp | BCAN      |
| MMP2  | pp | THBS1     |
| MMP2  | pp | TIMP4     |
| ADD1  | pp | ID2       |
| ADD1  | pp | HSPH1     |
| NID2  | pp | LAMC1     |
| SF3B2 | pp | FUS       |
| SF3B2 | pp | SF3A1     |
| SF3B2 | pp | SNRPD3    |
| SF3B2 | pp | NHP2L1    |
| SF3B2 | pp | HNRNPL    |
| SF3B2 | pp | SF3A2     |
| SF3B2 | pp | SF3B1     |
| SF3B2 | pp | SFRS7     |
| SF3B2 | pp | SFRS11    |
| SF3B2 | pp | SMNDC1    |
| SF3B2 | pp | HNRNPA2B1 |
| SF3B2 | pp | SNRPD2    |
| SF3B2 | pp | SNRPB     |
| SF3B2 | pp | SNRPB2    |
| SF3B2 | pp | HNRNPR    |
| SF3B2 | pp | HNRNPA1   |
| SF3B2 | pp | DHX9      |
| SF3B2 | pp | PRPF4     |
| SF3B2 | pp | NCBP1     |
| SF3B2 | pp | SNRPF     |
| SF3B2 | pp | TXNL4A    |
| SF3B2 | pp | SF3B4     |
| SF3B2 | pp | HNRNPU    |
| SF3B2 | pp | PCF11     |
| SF3B2 | pp | CPSF2     |
| SF3B2 | pp | SMAD3     |
| SF3B2 | pp | SNRPD1    |
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| SF3B2 | pp | PCBP1     |
| SF3B2 | pp | SF3B5     |

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| SF3B2  | pp | HNRNPA0 |
| SF3B2  | pp | SF3A3   |
| SF3B2  | pp | SF3B3   |
| SF3B2  | pp | PCBP2   |
| SF3B2  | pp | RNPS1   |
| KLHDC5 | pp | UBQLN1  |
| KLHDC5 | pp | RCN3    |
| KLHDC5 | pp | SERTAD1 |
| PTPN4  | pp | GRID2   |
| PTPN4  | pp | LPL     |
| PTPN4  | pp | EEF1G   |
| DDX18  | pp | MTA1    |
| KHSRP  | pp | BCAR3   |
| KHSRP  | pp | ARF6    |
| KHSRP  | pp | TRAF6   |
| GNA11  | pp | RGS3    |
| GNA11  | pp | EDNRA   |
| FKBP1A | pp | YY1     |
| FKBP1A | pp | PPP3CA  |
| FKBP1A | pp | TGFB111 |
| FKBP1A | pp | DHFR    |
| NSFL1C | pp | FAM32A  |
| NSFL1C | pp | RPL22   |
| NSFL1C | pp | TARDBP  |
| NSFL1C | pp | SRP14   |
| NSFL1C | pp | STX5    |
| DYNLL1 | pp | NFKBIA  |
| DYNLL1 | pp | RGS2    |
| DYNLL1 | pp | DNAJB9  |
| DYNLL1 | pp | C14orf1 |
| DYNLL1 | pp | BCL2L11 |
| DYNLL1 | pp | ZHX1    |
| DYNLL1 | pp | MYO5A   |
| SNX5   | pp | FANCA   |
| SNX5   | pp | ITSN1   |
| RPL6   | pp | STAU1   |
| RPL6   | pp | EIF6    |
| RPL6   | pp | RPL27   |
| RPL6   | pp | RPL35   |
| RPL6   | pp | RPS6    |
| RPL6   | pp | RPS24   |
| RPL6   | pp | RPS11   |
| RPL6   | pp | RPL11   |
| RPL6   | pp | RPS3    |
| RPL6   | pp | FAU     |
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| RPL6   | pp | EIF5B   |

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| RPL6   | pp | RPL8      |
| RPL6   | pp | RPL27A    |
| RPL6   | pp | EEF2      |
| RPL6   | pp | RPL38     |
| RPL6   | pp | RPL15     |
| RPL6   | pp | RPL37A    |
| RPL6   | pp | RPL10A    |
| ANAPC5 | pp | ZBTB16    |
| ANAPC5 | pp | CDC16     |
| GCN1L1 | pp | C20orf24  |
| GCN1L1 | pp | BRF2      |
| GCN1L1 | pp | MAGED1    |
| GCN1L1 | pp | PTP4A3    |
| PXN    | pp | PTPN12    |
| PXN    | pp | PTK2      |
| PEBP1  | pp | STC2      |
| PEBP1  | pp | RAF1      |
| PEBP1  | pp | MED10     |
| PEBP1  | pp | PRKCA     |
| PEBP1  | pp | ADRBK1    |
| FUS    | pp | SF3A1     |
| FUS    | pp | SNRPD3    |
| FUS    | pp | NHP2L1    |
| FUS    | pp | SFRS5     |
| FUS    | pp | HNRNPL    |
| FUS    | pp | SF3A2     |
| FUS    | pp | USF2      |
| FUS    | pp | SFRS9     |
| FUS    | pp | SFRS3     |
| FUS    | pp | SF3B1     |
| FUS    | pp | SFRS7     |
| FUS    | pp | SFRS4     |
| FUS    | pp | SFRS11    |
| FUS    | pp | HNRNPA2B1 |
| FUS    | pp | SFRS6     |
| FUS    | pp | SNRPD2    |
| FUS    | pp | SNRPB     |
| FUS    | pp | SNRPB2    |
| FUS    | pp | HNRNPR    |
| FUS    | pp | PRMT1     |
| FUS    | pp | ILF3      |
| FUS    | pp | HNRNPA1   |
| FUS    | pp | DHX9      |
| FUS    | pp | SFRS1     |
| FUS    | pp | PRPF4     |
| FUS    | pp | BCAR3     |
| FUS    | pp | SNRPF     |

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| FUS    | pp | ARHGDI1A  |
| FUS    | pp | SF3B4     |
| FUS    | pp | HNRNPU    |
| FUS    | pp | U2AF1     |
| FUS    | pp | SNRPD1    |
| FUS    | pp | CDC40     |
| FUS    | pp | CD2BP2    |
| FUS    | pp | PCBP1     |
| FUS    | pp | SF3B5     |
| FUS    | pp | HNRNPA0   |
| FUS    | pp | POLR2A    |
| FUS    | pp | SF3A3     |
| FUS    | pp | SF3B3     |
| FUS    | pp | PCBP2     |
| IGBP1  | pp | PHLDA3    |
| GANAB  | pp | ARF6      |
| GANAB  | pp | MCC       |
| GANAB  | pp | TRAF6     |
| GANAB  | pp | PAK2      |
| MLF2   | pp | BAG2      |
| MLF2   | pp | ABCD3     |
| MLF2   | pp | CIAO1     |
| MLF2   | pp | PMVK      |
| DDX24  | pp | RAE1      |
| DDX24  | pp | EIF3E     |
| DDX24  | pp | MRPL4     |
| DDX24  | pp | FADD      |
| DDX24  | pp | TMEM9B    |
| DDX24  | pp | PRF1      |
| DDX24  | pp | SPTAN1    |
| ZBTB25 | pp | C19orf50  |
| ZBTB25 | pp | MDF1      |
| ZBTB25 | pp | SORBS3    |
| RCOR1  | pp | HDAC2     |
| SPTLC1 | pp | SPTLC2    |
| SPTLC1 | pp | C20orf24  |
| SPTLC1 | pp | MAGED1    |
| PAPOLA | pp | SF3A1     |
| PAPOLA | pp | SNRPD3    |
| PAPOLA | pp | NHP2L1    |
| PAPOLA | pp | CSTF2     |
| PAPOLA | pp | HNRNPL    |
| PAPOLA | pp | SF3A2     |
| PAPOLA | pp | SFRS7     |
| PAPOLA | pp | SFRS11    |
| PAPOLA | pp | HNRNPA2B1 |
| PAPOLA | pp | SNRPD2    |

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| PAPOLA    | pp | SNRPB   |
| PAPOLA    | pp | SNRPB2  |
| PAPOLA    | pp | HNRNPR  |
| PAPOLA    | pp | HNRNPA1 |
| PAPOLA    | pp | PRPF4   |
| PAPOLA    | pp | NCBP1   |
| PAPOLA    | pp | SNRPF   |
| PAPOLA    | pp | SF3B4   |
| PAPOLA    | pp | HNRNPU  |
| PAPOLA    | pp | U2AF1   |
| PAPOLA    | pp | PCF11   |
| PAPOLA    | pp | CPSF2   |
| PAPOLA    | pp | SNRPD1  |
| PAPOLA    | pp | CDC40   |
| PAPOLA    | pp | PCBP1   |
| PAPOLA    | pp | CLP1    |
| PAPOLA    | pp | PCBP2   |
| ICAM1     | pp | EGFR    |
| ICAM1     | pp | IL2RG   |
| ICAM1     | pp | ITGB2   |
| STRN4     | pp | MIF     |
| STRN4     | pp | CXorf26 |
| STRN4     | pp | ECSIT   |
| STRN4     | pp | PI4KA   |
| STRN4     | pp | WNT7A   |
| STRN4     | pp | WIPI2   |
| STRN4     | pp | DFFA    |
| STRN4     | pp | MCC     |
| SPG21     | pp | GGA2    |
| SPG21     | pp | MTMR9   |
| SPG21     | pp | RABAC1  |
| SPG21     | pp | CUTC    |
| RAB11FIP3 | pp | RAB11A  |
| MCOLN1    | pp | SLC35E1 |
| EFNB1     | pp | EPHB2   |
| EFNB1     | pp | RGS3    |
| EFNB1     | pp | SRC     |
| PLEKHG2   | pp | RAC1    |
| DTX2      | pp | NCALD   |
| DTX2      | pp | HPCAL1  |
| DTX2      | pp | RBPMS   |
| DTX2      | pp | PLSCR1  |
| DLD       | pp | OGDH    |
| DLD       | pp | PDHX    |
| DLD       | pp | PDHA1   |
| DLD       | pp | DLAT    |
| DLD       | pp | PDHB    |

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| ITGA6   | pp | ITGB1  |
| FH      | pp | PRKAB1 |
| FH      | pp | IKBKE  |
| FH      | pp | MDH2   |
| TF      | pp | IGFBP3 |
| NLRP1   | pp | CASP1  |
| NLRP1   | pp | BCL2   |
| ESR1    | pp | EP300  |
| ESR1    | pp | CCND1  |
| ESR1    | pp | BCAS2  |
| ESR1    | pp | ZBTB17 |
| ESR1    | pp | NCOA3  |
| ESR1    | pp | MED1   |
| ESR1    | pp | MDM2   |
| ESR1    | pp | TDG    |
| ESR1    | pp | TP53   |
| ESR1    | pp | FOXO1  |
| ESR1    | pp | PRMT2  |
| ESR1    | pp | SAFB   |
| ESR1    | pp | NR2F1  |
| ESR1    | pp | JUN    |
| CEBPE   | pp | E2F1   |
| CEBPE   | pp | RB1    |
| OSGEP   | pp | RAB5C  |
| SCFD1   | pp | USP22  |
| HECTD1  | pp | YWHAB  |
| SUPT16H | pp | MCC    |
| SIP1    | pp | SNRPD3 |
| SIP1    | pp | SNRPD2 |
| SIP1    | pp | SMYD2  |
| SIP1    | pp | SNRPD1 |
| SEMA6A  | pp | ITSN2  |
| SNAP23  | pp | STX4   |
| SNAP23  | pp | NAPA   |
| SNAP23  | pp | STX1A  |
| SNAP23  | pp | ABI3   |
| SNAP23  | pp | FXR2   |
| SNAP23  | pp | STX6   |
| SNAP23  | pp | ABI2   |
| SNAP23  | pp | SCAMP2 |
| SNAP23  | pp | VAMP2  |
| MYL6    | pp | MOBK3  |
| MYL6    | pp | DNAJB9 |
| MYL6    | pp | IKBKE  |
| MYL6    | pp | NUDT21 |
| EIF2C1  | pp | DICER1 |
| NUP50   | pp | KPNB1  |



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| COMT   | pp | MCC     |
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| HDAC6  | pp | RELB    |
| HDAC6  | pp | ZBTB16  |
| HDAC6  | pp | PLAA    |
| HOOK2  | pp | ABLIM1  |
| HOOK2  | pp | MYST2   |
| HOOK2  | pp | EPS8    |
| HOOK2  | pp | UTP14A  |
| HOOK2  | pp | AKTIP   |
| HOOK2  | pp | FAM107A |
| HOOK2  | pp | APEX2   |
| HOOK2  | pp | ZNF250  |
| ARCN1  | pp | COPZ1   |
| ARCN1  | pp | COPA    |
| ARCN1  | pp | COPB1   |
| ARCN1  | pp | PHLDA3  |
| ARCN1  | pp | COPG    |
| ARCN1  | pp | COPB2   |
| PSMD5  | pp | PSMD8   |
| PSMD5  | pp | PSMA3   |
| PSMD5  | pp | PSMC1   |
| PSMD5  | pp | PSMB5   |
| PSMD5  | pp | PSMA6   |
| PSMD5  | pp | PSME2   |
| PSMD5  | pp | PSMA7   |
| PSMD5  | pp | PSMD10  |
| PSMD5  | pp | PSMD7   |
| PSMD5  | pp | PSMA2   |
| PSMD5  | pp | PSMB3   |
| PSMD5  | pp | PSMD3   |
| PSMD5  | pp | PSMD11  |
| PSMD5  | pp | PSMD9   |
| PSMD5  | pp | PSMB2   |
| PSMD5  | pp | PSMA1   |
| PSMD5  | pp | PSMB7   |
| PSMD5  | pp | PSMB6   |
| PSMD5  | pp | PSMA5   |
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| PSMD5  | pp | PSMC3   |
| PSMD5  | pp | PSMD1   |
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| PSMD5  | pp | PSMD13  |
| PSMD5  | pp | PSMD12  |
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| BTAF1   | pp | TBP      |
| SORBS1  | pp | ABL1     |
| SORBS1  | pp | INSR     |
| CREM    | pp | CDC34    |
| CREM    | pp | CREB1    |
| CREM    | pp | CREB3L1  |
| FKBP5   | pp | ERLIN1   |
| FKBP5   | pp | IKBKE    |
| SRPK1   | pp | SFRS1    |
| SRPK1   | pp | YWHAB    |
| SRPK1   | pp | YWHAG    |
| SRPK1   | pp | RNPS1    |
| CDC5L   | pp | MCM4     |
| CDC5L   | pp | MCM3     |
| CDC5L   | pp | PPP1R8   |
| CDC5L   | pp | CDKN1A   |
| CDC5L   | pp | RTCD1    |
| CDC5L   | pp | YWHAG    |
| DSP     | pp | STK24    |
| DSP     | pp | PPP4C    |
| SIRT1   | pp | TP53     |
| JAK2    | pp | DNAJA3   |
| JAK2    | pp | LEPR     |
| JAK2    | pp | SH2B1    |
| JAK2    | pp | SOCS3    |
| JAK2    | pp | SOCS1    |
| ABL1    | pp | YWHAE    |
| ABL1    | pp | WASF1    |
| ABL1    | pp | YWHAH    |
| ABL1    | pp | RB1      |
| ABL1    | pp | ABL2     |
| ABL1    | pp | ATM      |
| ABL1    | pp | NCSTN    |
| ABL1    | pp | ST5      |
| ABL1    | pp | YWHAB    |
| ABL1    | pp | CRK      |
| ABL1    | pp | YWHAG    |
| ABL1    | pp | RIN1     |
| ABL1    | pp | SFN      |
| ABL1    | pp | SRC      |
| SH3GLB1 | pp | SH3GLB2  |
| TMED1   | pp | SMAD3    |
| ABLIM1  | pp | CALCOCO2 |
| ABLIM1  | pp | TSC22D4  |
| ABLIM1  | pp | GOLGA2   |
| ABLIM1  | pp | LDOC1    |
| NRP1    | pp | VEGFA    |

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| MYO9B  | pp | MOBKL3  |
| MYO9B  | pp | LRRC41  |
| PSMD8  | pp | PSMA3   |
| PSMD8  | pp | PSMC1   |
| PSMD8  | pp | PSMB5   |
| PSMD8  | pp | PSMA6   |
| PSMD8  | pp | PSME2   |
| PSMD8  | pp | PSMA7   |
| PSMD8  | pp | PSMD10  |
| PSMD8  | pp | PSMD7   |
| PSMD8  | pp | PSMA2   |
| PSMD8  | pp | PSMB3   |
| PSMD8  | pp | PSMD3   |
| PSMD8  | pp | PSMD11  |
| PSMD8  | pp | PSMD9   |
| PSMD8  | pp | PSMD14  |
| PSMD8  | pp | UCHL5   |
| PSMD8  | pp | PSMB2   |
| PSMD8  | pp | PSMA1   |
| PSMD8  | pp | PSMB7   |
| PSMD8  | pp | PSMB6   |
| PSMD8  | pp | PSMA5   |
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| PSMD8  | pp | PSMC2   |
| PSMD8  | pp | PSMD6   |
| PSMD8  | pp | ARF6    |
| PSMD8  | pp | PSMC3   |
| PSMD8  | pp | MCC     |
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| PSMD8  | pp | PSMD2   |
| PSMD8  | pp | PSMD13  |
| PSMD8  | pp | PSMD12  |
| ATP5D  | pp | RIPK2   |
| ATP5D  | pp | ATP5B   |
| ATP5D  | pp | ATP5F1  |
| ATP5D  | pp | ATP5E   |
| ATP5D  | pp | ATP5A1  |
| ATP5D  | pp | ATP5J   |
| ATP5D  | pp | ATP5L   |
| ATP5D  | pp | ATP5I   |
| CDC34  | pp | MYBL2   |
| CDC34  | pp | SKP2    |
| POLR2E | pp | POLR2F  |
| POLR2E | pp | POLR3H  |
| POLR2E | pp | TCEB2   |
| POLR2E | pp | C19orf2 |
| POLR2E | pp | RNGTT   |

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| POLR2E  | pp | TBP        |
| POLR2E  | pp | POLR3F     |
| POLR2E  | pp | NCBP1      |
| POLR2E  | pp | POLR1E     |
| POLR2E  | pp | POLR2K     |
| POLR2E  | pp | SSRP1      |
| POLR2E  | pp | TCEB1      |
| POLR2E  | pp | POLR2H     |
| POLR2E  | pp | SNAPC3     |
| POLR2E  | pp | METTL3     |
| POLR2E  | pp | TAF10      |
| POLR2E  | pp | POLR2G     |
| POLR2E  | pp | SNAPC5     |
| POLR2E  | pp | POLR2L     |
| POLR2E  | pp | POLR2A     |
| POLR2E  | pp | WHSC2      |
| GADD45B | pp | PCNA       |
| GADD45B | pp | GADD45GIP1 |
| RANBP1  | pp | MPG        |
| RANBP1  | pp | IKBKE      |
| RANBP1  | pp | TNIK       |
| RANBP1  | pp | MCC        |
| RANBP1  | pp | TRAF6      |
| MED15   | pp | ATXN1      |
| MED15   | pp | ATP5C1     |
| MED15   | pp | FHL3       |
| MED15   | pp | PLSCR1     |
| SNAP29  | pp | STX1A      |
| SNAP29  | pp | EHD1       |
| CRKL    | pp | CBL        |
| CRKL    | pp | CBLB       |
| MIF     | pp | MPG        |
| MIF     | pp | PRKAB1     |
| MIF     | pp | GORASP2    |
| MIF     | pp | COPS5      |
| MIF     | pp | FBXO11     |
| MIF     | pp | IKBKE      |
| MIF     | pp | TNFRSF14   |
| MIF     | pp | TRAF6      |
| DDT     | pp | IKBKE      |
| SF3A1   | pp | SNRPD3     |
| SF3A1   | pp | NHP2L1     |
| SF3A1   | pp | HNRNPL     |
| SF3A1   | pp | SF3A2      |
| SF3A1   | pp | PRKAB1     |
| SF3A1   | pp | SF3B1      |
| SF3A1   | pp | SFRS7      |

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| SF3A1  | pp | SFRS11    |
| SF3A1  | pp | HNRNPA2B1 |
| SF3A1  | pp | SNRPD2    |
| SF3A1  | pp | SNRPB     |
| SF3A1  | pp | SNRPB2    |
| SF3A1  | pp | HNRNPR    |
| SF3A1  | pp | HNRNPA1   |
| SF3A1  | pp | DHX9      |
| SF3A1  | pp | PRPF4     |
| SF3A1  | pp | NCBP1     |
| SF3A1  | pp | SNRPF     |
| SF3A1  | pp | TXNL4A    |
| SF3A1  | pp | IKBKE     |
| SF3A1  | pp | SMYD2     |
| SF3A1  | pp | HNRNPU    |
| SF3A1  | pp | PCF11     |
| SF3A1  | pp | ARF6      |
| SF3A1  | pp | CPSF2     |
| SF3A1  | pp | SNRPD1    |
| SF3A1  | pp | CDC40     |
| SF3A1  | pp | CD2BP2    |
| SF3A1  | pp | PCBP1     |
| SF3A1  | pp | SF3B5     |
| SF3A1  | pp | CLP1      |
| SF3A1  | pp | SF3A3     |
| SF3A1  | pp | SF3B3     |
| SF3A1  | pp | PCBP2     |
| SNRPD3 | pp | NHP2L1    |
| SNRPD3 | pp | PRMT5     |
| SNRPD3 | pp | SF3A2     |
| SNRPD3 | pp | SFRS9     |
| SNRPD3 | pp | NCBP2     |
| SNRPD3 | pp | SF3B1     |
| SNRPD3 | pp | SFRS7     |
| SNRPD3 | pp | SFRS4     |
| SNRPD3 | pp | WDR77     |
| SNRPD3 | pp | SFRS6     |
| SNRPD3 | pp | SNRPD2    |
| SNRPD3 | pp | SNRPB     |
| SNRPD3 | pp | SNRPB2    |
| SNRPD3 | pp | HNRNPR    |
| SNRPD3 | pp | DHX9      |
| SNRPD3 | pp | PRPF4     |
| SNRPD3 | pp | NCBP1     |
| SNRPD3 | pp | SNRPF     |
| SNRPD3 | pp | TXNL4A    |
| SNRPD3 | pp | GEMIN7    |

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| SNRPD3  | pp | SF3B4     |
| SNRPD3  | pp | SFRS12    |
| SNRPD3  | pp | U2AF1     |
| SNRPD3  | pp | SLBP      |
| SNRPD3  | pp | PCF11     |
| SNRPD3  | pp | CPSF2     |
| SNRPD3  | pp | SNRPD1    |
| SNRPD3  | pp | CDC40     |
| SNRPD3  | pp | CD2BP2    |
| SNRPD3  | pp | SF3B5     |
| SNRPD3  | pp | LSM3      |
| SNRPD3  | pp | CLP1      |
| SNRPD3  | pp | HNRNPA0   |
| SNRPD3  | pp | LSM10     |
| SNRPD3  | pp | SF3A3     |
| SNRPD3  | pp | SF3B3     |
| MAPK1   | pp | DUSP1     |
| MAPK1   | pp | ELK1      |
| MAPK1   | pp | MAP2K2    |
| MAPK1   | pp | RAF1      |
| MAPK1   | pp | TOB1      |
| MAPK1   | pp | VAV1      |
| MAPK1   | pp | TNIP1     |
| MAPK1   | pp | TNIK      |
| MAPK1   | pp | PEA15     |
| MAPK1   | pp | MAP2K1    |
| SLC25A1 | pp | MAGED1    |
| SLC25A1 | pp | CASP4     |
| ADRBK2  | pp | CXCR4     |
| GGA1    | pp | SORT1     |
| GGA1    | pp | SORL1     |
| GGA1    | pp | ARF1      |
| GGA1    | pp | RPS27A    |
| HIRA    | pp | NFU1      |
| HIRA    | pp | HIST2H2BE |
| LGALS1  | pp | LGALS3BP  |
| LGALS1  | pp | GEMIN4    |
| HPS4    | pp | HPS1      |
| PATZ1   | pp | MITF      |
| NHP2L1  | pp | SFRS5     |
| NHP2L1  | pp | SF3A2     |
| NHP2L1  | pp | SFRS9     |
| NHP2L1  | pp | SFRS3     |
| NHP2L1  | pp | SFRS4     |
| NHP2L1  | pp | CDKN2C    |
| NHP2L1  | pp | SFRS6     |
| NHP2L1  | pp | SNRPD2    |

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| NHP2L1 | pp | SNRPB   |
| NHP2L1 | pp | SNRPB2  |
| NHP2L1 | pp | HNRNPR  |
| NHP2L1 | pp | DHX9    |
| NHP2L1 | pp | SFRS1   |
| NHP2L1 | pp | PRPF4   |
| NHP2L1 | pp | NCBP1   |
| NHP2L1 | pp | SNRPF   |
| NHP2L1 | pp | SF3B4   |
| NHP2L1 | pp | RAD17   |
| NHP2L1 | pp | U2AF1   |
| NHP2L1 | pp | PCF11   |
| NHP2L1 | pp | CPSF2   |
| NHP2L1 | pp | SNRPD1  |
| NHP2L1 | pp | CDC40   |
| NHP2L1 | pp | CD2BP2  |
| NHP2L1 | pp | PCBP1   |
| NHP2L1 | pp | SF3B5   |
| NHP2L1 | pp | CLP1    |
| NHP2L1 | pp | TRAF6   |
| NHP2L1 | pp | HNRNPA0 |
| NHP2L1 | pp | SF3A3   |
| NHP2L1 | pp | SF3B3   |
| NHP2L1 | pp | XRCC6   |
| NHP2L1 | pp | PCBP2   |
| POLR2F | pp | POLR3H  |
| POLR2F | pp | TCEB2   |
| POLR2F | pp | RNGTT   |
| POLR2F | pp | TBP     |
| POLR2F | pp | POLR3F  |
| POLR2F | pp | NCBP1   |
| POLR2F | pp | POLR2K  |
| POLR2F | pp | SSRP1   |
| POLR2F | pp | TCEB1   |
| POLR2F | pp | POLR2H  |
| POLR2F | pp | SNAPC3  |
| POLR2F | pp | METTL3  |
| POLR2F | pp | POLR2G  |
| POLR2F | pp | SNAPC5  |
| POLR2F | pp | POLR2L  |
| POLR2F | pp | POLR2A  |
| POLR2F | pp | WHSC2   |
| PICK1  | pp | PRKCA   |
| PICK1  | pp | BTG2    |
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| AP1B1   | pp | ATM    |
| TOM1    | pp | CLTC   |
| PDGFB   | pp | COL1A1 |
| PDGFB   | pp | PDGFRB |
| PDGFB   | pp | PDGFRA |
| RBM9    | pp | QKI    |
| RBM9    | pp | ATXN1  |
| RBM9    | pp | RBPMS  |
| RBM9    | pp | DAZAP2 |
| ASCC2   | pp | MYH9   |
| ASCC2   | pp | PIN4   |
| ASCC2   | pp | TRIP4  |
| ASCC2   | pp | EEF1D  |
| ASCC2   | pp | CUTC   |
| ASCC2   | pp | SNRPB  |
| ASCC2   | pp | GFER   |
| ASCC2   | pp | ASS1   |
| ASCC2   | pp | IMMT   |
| ASCC2   | pp | RPA1   |
| ASCC2   | pp | CKAP4  |
| ASCC2   | pp | GNL3   |
| ASCC2   | pp | FBP1   |
| ASCC2   | pp | URM1   |
| ASCC2   | pp | PIK3CD |
| ASCC2   | pp | LPL    |
| ASCC2   | pp | DEAF1  |
| ASCC2   | pp | PJA1   |
| ASCC2   | pp | FAF1   |
| MYH9    | pp | MYL9   |
| EIF3D   | pp | EIF5   |
| EIF3D   | pp | RPS19  |
| EIF3D   | pp | EIF3B  |
| EIF3D   | pp | EIF3A  |
| EIF3D   | pp | EIF3G  |
| EIF3D   | pp | EIF2S1 |
| EIF3D   | pp | RPS6   |
| EIF3D   | pp | RPS24  |
| EIF3D   | pp | PHLDA1 |
| EIF3D   | pp | RPS11  |
| EIF3D   | pp | RPS27A |
| EIF3D   | pp | RPS3   |
| EIF3D   | pp | FAU    |
| EIF3D   | pp | RPS21  |



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| EIF3D    | pp | EIF3K  |
| EIF3D    | pp | RPS23  |
| EIF3D    | pp | RPS28  |
| SGSM3    | pp | NF2    |
| C22orf9  | pp | YWHAQ  |
| C22orf9  | pp | YWHAB  |
| C22orf9  | pp | YWHAG  |
| SLC25A17 | pp | PEX19  |
| RBX1     | pp | CAND1  |
| RBX1     | pp | FBXO18 |
| RBX1     | pp | CUL4B  |
| RBX1     | pp | CUL5   |
| RBX1     | pp | SMAD3  |
| RBX1     | pp | FBXW8  |
| EP300    | pp | HIF1A  |
| EP300    | pp | YY1    |
| EP300    | pp | TRIP4  |
| EP300    | pp | EPAS1  |
| EP300    | pp | ZBTB17 |
| EP300    | pp | EGR1   |
| EP300    | pp | PCNA   |
| EP300    | pp | MDM2   |
| EP300    | pp | MYC    |
| EP300    | pp | TP53   |
| EP300    | pp | MAML1  |
| EP300    | pp | CITED2 |
| EP300    | pp | SMAD3  |
| EP300    | pp | COPS6  |
| EP300    | pp | STAT3  |
| EP300    | pp | SMAD1  |
| EP300    | pp | RELA   |
| EP300    | pp | MAF    |
| EP300    | pp | NAP1L1 |
| RANGAP1  | pp | UBE2I  |
| RANGAP1  | pp | PRKAB1 |
| RANGAP1  | pp | TRAF6  |
| RANGAP1  | pp | SUMO3  |
| RANGAP1  | pp | SUMO2  |
| ZC3H7B   | pp | EIF4G1 |
| POLR3H   | pp | TBP    |
| POLR3H   | pp | GTF3C2 |
| POLR3H   | pp | POLR3F |
| POLR3H   | pp | POLR2K |
| POLR3H   | pp | POLR2H |
| POLR3H   | pp | SNAPC3 |
| POLR3H   | pp | SNAPC5 |
| POLR3H   | pp | BRF1   |

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| FKBP3 | pp | YY1      |
| FKBP3 | pp | TNIK     |
| FKBP3 | pp | MCC      |
| CTSG  | pp | SDC1     |
| CTSG  | pp | SERPINA3 |
| RBM23 | pp | TUBA4A   |
| RBM23 | pp | RPA1     |
| PRMT5 | pp | WDR77    |
| PRMT5 | pp | SNRPB    |
| PRMT5 | pp | SNRPD1   |
| PRMT5 | pp | PHYHIP   |
| SOS2  | pp | GRB2     |
| PSMA3 | pp | PSMB5    |
| PSMA3 | pp | PSMA6    |
| PSMA3 | pp | PSME2    |
| PSMA3 | pp | PSMA7    |
| PSMA3 | pp | PSMD10   |
| PSMA3 | pp | PSMD7    |
| PSMA3 | pp | PSMA2    |
| PSMA3 | pp | PSMB3    |
| PSMA3 | pp | PSMD3    |
| PSMA3 | pp | PSMD11   |
| PSMA3 | pp | CRYAB    |
| PSMA3 | pp | PSMD9    |
| PSMA3 | pp | EIF1B    |
| PSMA3 | pp | CDKN1A   |
| PSMA3 | pp | SNRPB    |
| PSMA3 | pp | PSMB2    |
| PSMA3 | pp | PSMA1    |
| PSMA3 | pp | PSMB7    |
| PSMA3 | pp | SNRPF    |
| PSMA3 | pp | PSMB6    |
| PSMA3 | pp | PSMA5    |
| PSMA3 | pp | TNFRSF14 |
| PSMA3 | pp | PSMB4    |
| PSMA3 | pp | PSMC2    |
| PSMA3 | pp | PSMD6    |
| PSMA3 | pp | PSMC3    |
| PSMA3 | pp | MCC      |
| PSMA3 | pp | PSMD1    |
| PSMA3 | pp | TRAF6    |
| PSMA3 | pp | PSMD2    |
| PSMA3 | pp | PSMD13   |
| PSMA3 | pp | PSMD12   |
| VTI1B | pp | STX8     |
| VTI1B | pp | GOLGB1   |
| AHSA1 | pp | C20orf24 |

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| AHSA1  | pp | STK24     |
| AHSA1  | pp | NEK6      |
| AHSA1  | pp | PHLDA3    |
| AHSA1  | pp | PTP4A3    |
| AHSA1  | pp | GSTK1     |
| ERH    | pp | HSPA8     |
| ERH    | pp | PRKAB1    |
| ERH    | pp | IGSF21    |
| ERH    | pp | TP53      |
| ERH    | pp | SETDB1    |
| ERH    | pp | COPS6     |
| ERH    | pp | TRAF6     |
| ERH    | pp | TLE1      |
| HIF1A  | pp | COPS5     |
| HIF1A  | pp | TP53      |
| HIF1A  | pp | ARNT      |
| HIF1A  | pp | PER1      |
| SFRS5  | pp | CSTF2     |
| SFRS5  | pp | HNRNPL    |
| SFRS5  | pp | OLFM2     |
| SFRS5  | pp | SFRS9     |
| SFRS5  | pp | SFRS4     |
| SFRS5  | pp | HNRNPA2B1 |
| SFRS5  | pp | HNRNPA1   |
| SFRS5  | pp | DHX9      |
| SFRS5  | pp | NCBP1     |
| SFRS5  | pp | HNRNPU    |
| SFRS5  | pp | SFRS12    |
| SFRS5  | pp | CDC40     |
| SFRS5  | pp | CD2BP2    |
| SFRS5  | pp | PCBP1     |
| SFRS5  | pp | PCBP2     |
| EIF5   | pp | EIF3B     |
| EIF5   | pp | EIF3A     |
| EIF5   | pp | EIF4G1    |
| EIF5   | pp | EIF3G     |
| EIF5   | pp | EIF2S1    |
| EIF5   | pp | RPS6      |
| EIF5   | pp | RPS24     |
| EIF5   | pp | IKBKE     |
| EIF5   | pp | RPS3      |
| DICER1 | pp | EIF2C2    |
| MTHFD1 | pp | CDK2      |
| MTHFD1 | pp | TNIK      |
| MTHFD1 | pp | ARF6      |
| MTHFD1 | pp | MCC       |
| MTHFD1 | pp | TRAF6     |

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| PSMC1   | pp | PSMB5   |
| PSMC1   | pp | PSMA6   |
| PSMC1   | pp | PSME2   |
| PSMC1   | pp | PSMA7   |
| PSMC1   | pp | PSMD10  |
| PSMC1   | pp | PSMD7   |
| PSMC1   | pp | PSMA2   |
| PSMC1   | pp | PSMB3   |
| PSMC1   | pp | PSMD3   |
| PSMC1   | pp | PSMD11  |
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| PSMC1   | pp | PSMD14  |
| PSMC1   | pp | PSMB2   |
| PSMC1   | pp | PSMA1   |
| PSMC1   | pp | PSMB6   |
| PSMC1   | pp | TNIK    |
| PSMC1   | pp | PSMB4   |
| PSMC1   | pp | PSMC2   |
| PSMC1   | pp | ATXN7   |
| PSMC1   | pp | PSMD6   |
| PSMC1   | pp | PSMC3   |
| PSMC1   | pp | PSMD1   |
| PSMC1   | pp | TRAF6   |
| PSMC1   | pp | PSMD2   |
| PSMC1   | pp | CCDC85B |
| PSMC1   | pp | PSMD13  |
| PSMC1   | pp | PSMD12  |
| RPS6KA5 | pp | RELA    |
| PSMB5   | pp | PSMA6   |
| PSMB5   | pp | PSME2   |
| PSMB5   | pp | PSMA7   |
| PSMB5   | pp | PSMD10  |
| PSMB5   | pp | PSMD7   |
| PSMB5   | pp | RIPK2   |
| PSMB5   | pp | PSMA2   |
| PSMB5   | pp | PSMB3   |
| PSMB5   | pp | PSMD3   |
| PSMB5   | pp | PSMD11  |
| PSMB5   | pp | PSMD9   |
| PSMB5   | pp | PSMD14  |
| PSMB5   | pp | PSMB2   |
| PSMB5   | pp | PSMA1   |
| PSMB5   | pp | PSMB7   |
| PSMB5   | pp | PSMB6   |
| PSMB5   | pp | PSMA5   |
| PSMB5   | pp | PSMB4   |
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| PSMB5   | pp | PSMD6    |
| PSMB5   | pp | PSMC3    |
| PSMB5   | pp | PSMD1    |
| PSMB5   | pp | TRAF6    |
| PSMB5   | pp | PSMD2    |
| PSMB5   | pp | PSMD13   |
| PSMB5   | pp | PSMD12   |
| YY1     | pp | E2F3     |
| YY1     | pp | MYC      |
| YY1     | pp | NOTCH1   |
| YY1     | pp | RYBP     |
| YY1     | pp | SAP30    |
| YY1     | pp | HDAC3    |
| ACIN1   | pp | BTBD10   |
| ACIN1   | pp | ABCF3    |
| ACIN1   | pp | YWHAB    |
| ACIN1   | pp | PAFAH1B2 |
| ACIN1   | pp | YWHAG    |
| ACIN1   | pp | AKR1C3   |
| TRIP11  | pp | RB1      |
| PABPN1  | pp | SFRS4    |
| PABPN1  | pp | SFRS6    |
| PABPN1  | pp | HNRNPA1  |
| PABPN1  | pp | NCBP1    |
| EFS     | pp | SORBS3   |
| EFS     | pp | PTK2     |
| ARHGAP5 | pp | RND3     |
| ARHGAP5 | pp | RASA1    |
| SRP54   | pp | SRP19    |
| PSMA6   | pp | PSME2    |
| PSMA6   | pp | PSMA7    |
| PSMA6   | pp | PSMD10   |
| PSMA6   | pp | PSMD7    |
| PSMA6   | pp | RIPK2    |
| PSMA6   | pp | PSMA2    |
| PSMA6   | pp | PSMB3    |
| PSMA6   | pp | PSMD3    |
| PSMA6   | pp | PSMD11   |
| PSMA6   | pp | PSMD9    |
| PSMA6   | pp | PRKAB1   |
| PSMA6   | pp | PSMD14   |
| PSMA6   | pp | PSMB2    |
| PSMA6   | pp | PSMA1    |
| PSMA6   | pp | PSMB7    |
| PSMA6   | pp | FBXO11   |
| PSMA6   | pp | PSMB6    |
| PSMA6   | pp | PSMA5    |

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| PSMA6  | pp | IKBKE   |
| PSMA6  | pp | PSMB4   |
| PSMA6  | pp | PSMC2   |
| PSMA6  | pp | PSMD6   |
| PSMA6  | pp | PSMC3   |
| PSMA6  | pp | MCC     |
| PSMA6  | pp | PSMD1   |
| PSMA6  | pp | TRAF6   |
| PSMA6  | pp | PSMD2   |
| PSMA6  | pp | PSMD13  |
| PSMA6  | pp | PSMD12  |
| NFKBIA | pp | NFKBIB  |
| NFKBIA | pp | ERLIN1  |
| NFKBIA | pp | NFKB1   |
| NFKBIA | pp | RPS6KA1 |
| NFKBIA | pp | G3BP2   |
| NFKBIA | pp | TP53    |
| NFKBIA | pp | SLC25A4 |
| NFKBIA | pp | REL     |
| NFKBIA | pp | PTPN13  |
| NFKBIA | pp | BTRC    |
| NFKBIA | pp | MCM7    |
| NFKBIA | pp | RELA    |
| NFKBIA | pp | COMMD1  |
| NFKBIA | pp | NKIRAS1 |
| PSME2  | pp | PSMA7   |
| PSME2  | pp | PSMD10  |
| PSME2  | pp | PSMD7   |
| PSME2  | pp | PSMA2   |
| PSME2  | pp | PSMB3   |
| PSME2  | pp | PSMD3   |
| PSME2  | pp | PSMD11  |
| PSME2  | pp | PSMD9   |
| PSME2  | pp | PSMB2   |
| PSME2  | pp | PSMA1   |
| PSME2  | pp | PSMB7   |
| PSME2  | pp | PSMB6   |
| PSME2  | pp | PSMA5   |
| PSME2  | pp | IKBKE   |
| PSME2  | pp | PSMB4   |
| PSME2  | pp | PSMC2   |
| PSME2  | pp | PSMC3   |
| PSME2  | pp | PSMD1   |
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| PSME2  | pp | PSMD13  |
| PSME2  | pp | PSMD12  |
| CHMP4A | pp | PDCD6IP |

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| SEC23A   | pp | SEC24B   |
| SEC23A   | pp | SEC24C   |
| PNN      | pp | SFRS4    |
| PNN      | pp | SFRS18   |
| PNN      | pp | PPIG     |
| PNN      | pp | SRRM2    |
| PNN      | pp | YWHAG    |
| PNN      | pp | RNPS1    |
| PROCR    | pp | EPB49    |
| CD40     | pp | RIPK2    |
| CD40     | pp | TTRAP    |
| CD40     | pp | TRAF3    |
| CD40     | pp | TRAF6    |
| CD40     | pp | XRCC6    |
| MYBL2    | pp | RPS27A   |
| MYBL2    | pp | SKP2     |
| MYBL2    | pp | ZNF622   |
| MYBL2    | pp | SND1     |
| C20orf24 | pp | EHD4     |
| C20orf24 | pp | ARMC6    |
| C20orf24 | pp | PSMD3    |
| C20orf24 | pp | DDX5     |
| C20orf24 | pp | TMEM33   |
| C20orf24 | pp | SLC25A12 |
| C20orf24 | pp | ABCD3    |
| C20orf24 | pp | RPN2     |
| C20orf24 | pp | ARL1     |
| C20orf24 | pp | CLPP     |
| C20orf24 | pp | XPO7     |
| C20orf24 | pp | ATXN10   |
| C20orf24 | pp | LASS2    |
| C20orf24 | pp | KRTCAP2  |
| C20orf24 | pp | CLPX     |
| C20orf24 | pp | USMG5    |
| C20orf24 | pp | PHLDA3   |
| C20orf24 | pp | SSR4     |
| C20orf24 | pp | MRPL41   |
| RAE1     | pp | IL4I1    |
| RAE1     | pp | NUP98    |
| TPD52L2  | pp | TPD52L1  |
| TPD52L2  | pp | IKBKE    |
| PSMA7    | pp | PSMD10   |
| PSMA7    | pp | PSMD7    |
| PSMA7    | pp | RIPK2    |
| PSMA7    | pp | PSMA2    |
| PSMA7    | pp | PSMB3    |
| PSMA7    | pp | PSMD3    |

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| PSMA7   | pp | PSMD11 |
| PSMA7   | pp | PSMD9  |
| PSMA7   | pp | PRKAB1 |
| PSMA7   | pp | PSMD14 |
| PSMA7   | pp | PSMB2  |
| PSMA7   | pp | PSMA1  |
| PSMA7   | pp | PSMB7  |
| PSMA7   | pp | PSMB6  |
| PSMA7   | pp | PSMA5  |
| PSMA7   | pp | IKBKE  |
| PSMA7   | pp | PSMB4  |
| PSMA7   | pp | PSMC2  |
| PSMA7   | pp | PSMD6  |
| PSMA7   | pp | PSMC3  |
| PSMA7   | pp | MCC    |
| PSMA7   | pp | PSMD1  |
| PSMA7   | pp | PSMD2  |
| PSMA7   | pp | PSMD13 |
| PSMA7   | pp | PSMD12 |
| ARFGAP1 | pp | KDEL1  |
| ARFGAP1 | pp | RGS2   |
| ARFGAP1 | pp | COPA   |
| ARFGAP1 | pp | CSNK1D |
| ARFGAP1 | pp | ARF1   |
| CDC25B  | pp | YWHAH  |
| CDC25B  | pp | YWHAB  |
| CDC25B  | pp | FHL3   |
| TRIB3   | pp | AKT2   |
| TRIB3   | pp | ATF4   |
| TRIB3   | pp | SETDB1 |
| TRIB3   | pp | COPS6  |
| TRIB3   | pp | EEF1G  |
| RASSF2  | pp | KRAS   |
| SEC23B  | pp | IKBKE  |
| SEC23B  | pp | SEC24D |
| SEC23B  | pp | SEC24C |
| SAMHD1  | pp | PHLDA3 |
| IDH3B   | pp | PRMT1  |
| IDH3B   | pp | IDH3A  |
| IDH3B   | pp | PHLDA3 |
| IDH3B   | pp | ATXN2  |
| MAPRE1  | pp | APC    |
| MAPRE1  | pp | IKBKE  |
| MAPRE1  | pp | MCC    |
| MAPRE1  | pp | TRAF6  |
| JAG1    | pp | NOTCH2 |
| JAG1    | pp | NOTCH1 |



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| SNTA1   | pp | UTRN    |
| SNTA1   | pp | MED8    |
| SNTA1   | pp | ABCA1   |
| SNTA1   | pp | XRCC6   |
| E2F1    | pp | NPDC1   |
| E2F1    | pp | NFKB1   |
| E2F1    | pp | CCND1   |
| E2F1    | pp | CDK2    |
| E2F1    | pp | NCOA3   |
| E2F1    | pp | RB1     |
| E2F1    | pp | CDKN2A  |
| E2F1    | pp | TOPBP1  |
| E2F1    | pp | PHB     |
| E2F1    | pp | NDN     |
| E2F1    | pp | TRRAP   |
| E2F1    | pp | TFDP1   |
| ACTR5   | pp | RUVBL1  |
| AHCY    | pp | BCAR3   |
| AHCY    | pp | MCC     |
| AHCY    | pp | TRAF6   |
| AHCY    | pp | PAK2    |
| C20orf3 | pp | LOXL3   |
| VAPA    | pp | OSBP    |
| VAPA    | pp | VAMP2   |
| RNMT    | pp | RNGTT   |
| RNMT    | pp | POLR2A  |
| SMAD7   | pp | PIAS4   |
| SMAD7   | pp | SMURF2  |
| SMAD7   | pp | YAP1    |
| SMAD7   | pp | TGFBR2  |
| MIB1    | pp | DAB2    |
| MIB1    | pp | DAPK1   |
| RIOK3   | pp | FBL     |
| RIOK3   | pp | ARL1    |
| RIOK3   | pp | SSR4    |
| CSTF2   | pp | ECH1    |
| CSTF2   | pp | SF3A2   |
| CSTF2   | pp | SFRS3   |
| CSTF2   | pp | SUB1    |
| CSTF2   | pp | SFRS4   |
| CSTF2   | pp | SFRS6   |
| CSTF2   | pp | IMMT    |
| CSTF2   | pp | C14orf1 |
| CSTF2   | pp | UBQLN1  |
| CSTF2   | pp | SFRS1   |
| CSTF2   | pp | FEZ1    |
| CSTF2   | pp | PCF11   |

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| CSTF2   | pp | CPSF2   |
| CSTF2   | pp | CDC40   |
| CSTF2   | pp | CHD3    |
| CSTF2   | pp | CLP1    |
| CSTF2   | pp | CSTF3   |
| CSTF2   | pp | EEF1G   |
| CSTF2   | pp | BAT3    |
| PSMD10  | pp | PSMD7   |
| PSMD10  | pp | PSMA2   |
| PSMD10  | pp | PSMB3   |
| PSMD10  | pp | PSMD3   |
| PSMD10  | pp | PSMD11  |
| PSMD10  | pp | PSMD9   |
| PSMD10  | pp | PSMD14  |
| PSMD10  | pp | PSMB2   |
| PSMD10  | pp | PSMA1   |
| PSMD10  | pp | PSMB7   |
| PSMD10  | pp | PSMB6   |
| PSMD10  | pp | PSMA5   |
| PSMD10  | pp | DOK2    |
| PSMD10  | pp | PSMB4   |
| PSMD10  | pp | PSMC2   |
| PSMD10  | pp | PSMD6   |
| PSMD10  | pp | PSMC3   |
| PSMD10  | pp | PSMD1   |
| PSMD10  | pp | PSMD2   |
| PSMD10  | pp | GRB2    |
| PSMD10  | pp | PSMD13  |
| PSMD10  | pp | PSMD12  |
| TBL1X   | pp | HDAC3   |
| TBL1X   | pp | NCOR2   |
| PGRMC1  | pp | MPG     |
| PGRMC1  | pp | EFHD1   |
| PGRMC1  | pp | ABCD3   |
| PGRMC1  | pp | IKBKE   |
| PGRMC1  | pp | MCC     |
| PGRMC1  | pp | TRAF6   |
| PGRMC1  | pp | PAK2    |
| POLA1   | pp | CDK2    |
| POLA1   | pp | RB1     |
| POLA1   | pp | PARP1   |
| POLA1   | pp | PRIM2   |
| NKAP    | pp | LUC7L2  |
| MCTS1   | pp | DENR    |
| MCTS1   | pp | SLC35B2 |
| SUV39H1 | pp | RB1     |
| SUV39H1 | pp | RBBP4   |

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| SUV39H1 | pp | HDAC2   |
| STAG2   | pp | STAG1   |
| STAG2   | pp | RAD21   |
| ABCD1   | pp | ABCD3   |
| ABCD1   | pp | PEX19   |
| ABCD1   | pp | ABCD2   |
| SYP     | pp | SIAH1   |
| PLP2    | pp | PRKAB1  |
| PLP2    | pp | IKBKE   |
| PLP2    | pp | CCR1    |
| PLS3    | pp | IKBKE   |
| PLS3    | pp | ATXN2   |
| RBBP7   | pp | RB1     |
| RBBP7   | pp | IKBKE   |
| RBBP7   | pp | TRAF6   |
| FMR1    | pp | NUFIP2  |
| FMR1    | pp | FXR1    |
| PIM2    | pp | CUTC    |
| PIM2    | pp | ATXN1   |
| PIM2    | pp | FBXO18  |
| PIM2    | pp | NDUFB8  |
| PQBP1   | pp | C14orf1 |
| PQBP1   | pp | RAB8A   |
| PQBP1   | pp | CLTB    |
| EMD     | pp | CREB3   |
| EMD     | pp | LMNA    |
| EMD     | pp | COPS6   |
| PGK1    | pp | GAPDH   |
| USP11   | pp | RELB    |
| USP11   | pp | SETDB1  |
| HTATSF1 | pp | SF3A2   |
| HTATSF1 | pp | SNRPB   |
| HTATSF1 | pp | FEZ1    |
| HTATSF1 | pp | POLR2A  |
| HTATSF1 | pp | SUPT5H  |
| TIMP1   | pp | ECH1    |
| PIN4    | pp | MPG     |
| PIN4    | pp | SPTAN1  |
| SYTL4   | pp | RAB8A   |
| DRP2    | pp | PRX     |
| STK24   | pp | PPP2R1A |
| STK24   | pp | DDX5    |
| STK24   | pp | PDCD10  |
| STK24   | pp | STRN    |
| STK24   | pp | SYNCRIP |
| STK24   | pp | G3BP2   |
| STK24   | pp | PDCD6IP |

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| STK24    | pp | MCC     |
| STK24    | pp | APOD    |
| STK24    | pp | STRN3   |
| ACP5     | pp | ZBTB16  |
| ACP5     | pp | RPA2    |
| ACP5     | pp | TNFSF10 |
| ARHGEF7  | pp | RAC1    |
| ARHGEF7  | pp | SHANK2  |
| ARHGEF7  | pp | YWHAG   |
| ARHGEF7  | pp | SCRIB   |
| KPNA3    | pp | NFKB1   |
| KPNA3    | pp | CDKN1B  |
| KPNA3    | pp | FAM50B  |
| KPNA3    | pp | RCC1    |
| KPNA3    | pp | TGM2    |
| TSC22D1  | pp | CORO2B  |
| TSC22D1  | pp | ASAH1   |
| TSC22D1  | pp | CCDC90B |
| TSC22D1  | pp | SETDB1  |
| TRADD    | pp | RIPK1   |
| TRADD    | pp | FADD    |
| MAPK3    | pp | UBTF    |
| MAPK3    | pp | ELK1    |
| MAPK3    | pp | MAP2K2  |
| MAPK3    | pp | RPS6KA4 |
| MAPK3    | pp | PEA15   |
| MAPK3    | pp | MAP2K1  |
| MAPK3    | pp | DAPK1   |
| NUTF2    | pp | LUC7L2  |
| CTCF     | pp | THRB    |
| C16orf57 | pp | SMAD4   |
| PSMD7    | pp | MPG     |
| PSMD7    | pp | PSMA2   |
| PSMD7    | pp | PSMB3   |
| PSMD7    | pp | PSMD3   |
| PSMD7    | pp | PSMD11  |
| PSMD7    | pp | PSMD9   |
| PSMD7    | pp | PSMD14  |
| PSMD7    | pp | PSMB2   |
| PSMD7    | pp | PSMA1   |
| PSMD7    | pp | PSMB7   |
| PSMD7    | pp | RAB1A   |
| PSMD7    | pp | PSMB6   |
| PSMD7    | pp | PSMA5   |
| PSMD7    | pp | IKBKE   |
| PSMD7    | pp | PSMB4   |
| PSMD7    | pp | PSMC2   |

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| PSMD7   | pp | PSMD6    |
| PSMD7   | pp | PSMC3    |
| PSMD7   | pp | PSMD1    |
| PSMD7   | pp | TRAF6    |
| PSMD7   | pp | PSMD2    |
| PSMD7   | pp | PSMD13   |
| PSMD7   | pp | PSMD12   |
| HCFC1R1 | pp | HCFC1    |
| MPG     | pp | PSMA2    |
| MPG     | pp | CAPZA1   |
| MPG     | pp | RAD23B   |
| MPG     | pp | SET      |
| MPG     | pp | MACF1    |
| MPG     | pp | PSMA1    |
| MPG     | pp | GSTM3    |
| MPG     | pp | ETFA     |
| MPG     | pp | ATP5O    |
| MPG     | pp | PSMC2    |
| MPG     | pp | PAFAH1B2 |
| MPG     | pp | RAD23A   |
| MPG     | pp | RPL35A   |
| COTL1   | pp | PRKAB1   |
| COTL1   | pp | IKBKE    |
| TSC2    | pp | AKT2     |
| TSC2    | pp | YWHAE    |
| TSC2    | pp | YWHAH    |
| TSC2    | pp | YWHAQ    |
| TSC2    | pp | NEK1     |
| TSC2    | pp | AKT1     |
| TSC2    | pp | TSC1     |
| TSC2    | pp | YWHAB    |
| TSC2    | pp | YWHAG    |
| UBE2I   | pp | RIPK2    |
| UBE2I   | pp | BLMH     |
| UBE2I   | pp | PHC1     |
| UBE2I   | pp | TTRAP    |
| UBE2I   | pp | ZNF451   |
| UBE2I   | pp | NR3C1    |
| UBE2I   | pp | STAT1    |
| UBE2I   | pp | ATF2     |
| UBE2I   | pp | SLC2A1   |
| UBE2I   | pp | ETS1     |
| UBE2I   | pp | TRIM29   |
| UBE2I   | pp | TP53     |
| UBE2I   | pp | CBX4     |
| UBE2I   | pp | SMAD4    |
| UBE2I   | pp | IKBKE    |

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| UBE2I  | pp | C18orf25 |
| UBE2I  | pp | RANBP2   |
| UBE2I  | pp | SNIP1    |
| UBE2I  | pp | ZNF646   |
| UBE2I  | pp | SATB1    |
| UBE2I  | pp | SUMO3    |
| UBE2I  | pp | HGS      |
| UBE2I  | pp | IKZF1    |
| UBE2I  | pp | MITF     |
| UBE2I  | pp | SUMO2    |
| UBE2I  | pp | FHIT     |
| UBE2I  | pp | SIAH1    |
| UBE2I  | pp | PRPF40A  |
| UBE2I  | pp | PDLIM7   |
| GSPT1  | pp | PRKAB1   |
| GSPT1  | pp | ETF1     |
| GSPT1  | pp | BCAR3    |
| GSPT1  | pp | IKBKE    |
| GSPT1  | pp | SAP18    |
| GSPT1  | pp | ARF6     |
| GSPT1  | pp | MCC      |
| GSPT1  | pp | TRAF6    |
| ZNF174 | pp | ZNF24    |
| TCEB2  | pp | GTF2F1   |
| TCEB2  | pp | LRRC41   |
| TCEB2  | pp | POLR2K   |
| TCEB2  | pp | SSRP1    |
| TCEB2  | pp | TCEB1    |
| TCEB2  | pp | POLR2H   |
| TCEB2  | pp | POLR2G   |
| TCEB2  | pp | ASB8     |
| TCEB2  | pp | POLR2A   |
| TCEB2  | pp | WHSC2    |
| GGA2   | pp | SORT1    |
| GGA2   | pp | ARF3     |
| GGA2   | pp | SORL1    |
| HMOX2  | pp | APP      |
| HMOX2  | pp | SETDB1   |
| HMOX2  | pp | KCNMA1   |
| HMOX2  | pp | COPS6    |
| HMOX2  | pp | EEF1G    |
| DNAJA3 | pp | HSPA8    |
| DNAJA3 | pp | RASA1    |
| DNAJA3 | pp | RNF34    |
| DNAJA3 | pp | PHLDA3   |
| RBL2   | pp | RAF1     |
| RBL2   | pp | BRF1     |

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| RBL2   | pp | E2F4      |
| PYCARD | pp | PRKAR1A   |
| MAZ    | pp | BPTF      |
| STX4   | pp | RAB11A    |
| STX4   | pp | NAPA      |
| STX4   | pp | VAMP4     |
| STX4   | pp | RAB5A     |
| STX4   | pp | RAB4A     |
| STX4   | pp | VAMP2     |
| BCKDK  | pp | CAB39     |
| BCKDK  | pp | RTCD1     |
| RNF40  | pp | ZNF451    |
| RNF40  | pp | NCBP1     |
| CSK    | pp | INSR      |
| TRIP4  | pp | ASCC3     |
| TRIP4  | pp | RARA      |
| TRIP4  | pp | RELA      |
| TRIP4  | pp | RXRA      |
| RAB11A | pp | RAB11FIP2 |
| RAB11A | pp | RAB11FIP5 |
| RAB11A | pp | IKBKE     |
| RAB11A | pp | RAB11FIP1 |
| RAB11A | pp | RAB3IL1   |
| RAB11A | pp | TRAF6     |
| CTSH   | pp | CSTA      |
| EHD4   | pp | PHLDA3    |
| EHD4   | pp | GSTK1     |
| PLDN   | pp | BLOC1S1   |
| PLDN   | pp | EPS8      |
| PLDN   | pp | AGGF1     |
| PLDN   | pp | BLOC1S2   |
| BRF2   | pp | KDELRL1   |
| BRF2   | pp | PSMD3     |
| BRF2   | pp | TMEM33    |
| BRF2   | pp | TBP       |
| BRF2   | pp | SF3B1     |
| BRF2   | pp | ABCD3     |
| BRF2   | pp | ARL1      |
| BRF2   | pp | SSR1      |
| BRF2   | pp | MYO1B     |
| BRF2   | pp | XPO7      |
| BRF2   | pp | TIMM23    |
| BRF2   | pp | SRPRB     |
| BRF2   | pp | CLASP2    |
| BRF2   | pp | MCM7      |
| BRF2   | pp | SLC3A2    |
| BRF2   | pp | PDHB      |

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| BRF2   | pp | XPO6     |
| BRF2   | pp | GEMIN4   |
| BRF2   | pp | COPG     |
| BRF2   | pp | COPB2    |
| BRF2   | pp | IPO4     |
| RIPK2  | pp | NOD1     |
| RIPK2  | pp | BIRC2    |
| RIPK2  | pp | PCMT1    |
| RIPK2  | pp | ECHS1    |
| RIPK2  | pp | RPL38    |
| RIPK2  | pp | TRAF6    |
| RIPK2  | pp | KCTD12   |
| NBN    | pp | MDC1     |
| NBN    | pp | ATM      |
| NBN    | pp | H2AFX    |
| UBE2W  | pp | AKR1C3   |
| PLAT   | pp | SERPINE1 |
| PLAT   | pp | SPARC    |
| PLAT   | pp | PLAU     |
| PLAT   | pp | CLEC3B   |
| PLAT   | pp | CALR     |
| PLAT   | pp | HMGB1    |
| RAB2A  | pp | GORASP2  |
| RAB2A  | pp | GOLGA2   |
| EIF3E  | pp | EIF2S1   |
| EIF3E  | pp | FAU      |
| EIF3E  | pp | GPBP1L1  |
| EIF3E  | pp | EIF3K    |
| EIF3E  | pp | GPAA1    |
| TTC35  | pp | COX4NB   |
| NDRG1  | pp | S100B    |
| NDRG1  | pp | PHYHIP   |
| NDRG1  | pp | YWHAG    |
| NDRG1  | pp | ARL4D    |
| UBR5   | pp | KPNA1    |
| UBR5   | pp | TOPBP1   |
| UBR5   | pp | MAGED1   |
| UBR5   | pp | MCRS1    |
| EEF1D  | pp | GARS     |
| EEF1D  | pp | PRKAB1   |
| EEF1D  | pp | KTN1     |
| EEF1D  | pp | BCAR3    |
| EEF1D  | pp | IKBKE    |
| EEF1D  | pp | MCC      |
| EEF1D  | pp | TRAF6    |
| EEF1D  | pp | EEF1G    |
| SH2D4A | pp | DBNL     |



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| SH2D4A | pp | SH3GL1    |
| SH2D4A | pp | HCLS1     |
| MTMR9  | pp | EMILIN1   |
| GSR    | pp | PJA1      |
| MCM4   | pp | RPA3      |
| MCM4   | pp | MCM3      |
| MCM4   | pp | ORC4L     |
| MCM4   | pp | RPA2      |
| MCM4   | pp | CDK2      |
| MCM4   | pp | RPA1      |
| MCM4   | pp | ORC5L     |
| MCM4   | pp | MCM7      |
| MCM4   | pp | MCC       |
| MCM4   | pp | GSTK1     |
| ASAH1  | pp | SETDB1    |
| BNIP3L | pp | STEAP3    |
| BNIP3L | pp | BCL2L1    |
| BNIP3L | pp | BCL2      |
| BNIP3L | pp | TMEM11    |
| NUCB1  | pp | GNAI2     |
| GYS1   | pp | PRKAB1    |
| GYS1   | pp | GYG1      |
| ECH1   | pp | SERPINB9  |
| ECH1   | pp | MCC       |
| ECH1   | pp | EEF1G     |
| HNRNPL | pp | SF3A2     |
| HNRNPL | pp | SFRS9     |
| HNRNPL | pp | SFRS3     |
| HNRNPL | pp | SFRS4     |
| HNRNPL | pp | HNRNPA2B1 |
| HNRNPL | pp | SFRS6     |
| HNRNPL | pp | CSE1L     |
| HNRNPL | pp | SNRPB2    |
| HNRNPL | pp | HNRNPR    |
| HNRNPL | pp | HNRNPA1   |
| HNRNPL | pp | DHX9      |
| HNRNPL | pp | SFRS1     |
| HNRNPL | pp | SF3B4     |
| HNRNPL | pp | SMYD2     |
| HNRNPL | pp | HNRNPU    |
| HNRNPL | pp | TNFRSF14  |
| HNRNPL | pp | DFFA      |
| HNRNPL | pp | U2AF1     |
| HNRNPL | pp | PCF11     |
| HNRNPL | pp | CPSF2     |
| HNRNPL | pp | ZNF143    |
| HNRNPL | pp | CDC40     |

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| HNRNPL   | pp | CD2BP2    |
| HNRNPL   | pp | SF3B5     |
| HNRNPL   | pp | CLP1      |
| HNRNPL   | pp | PJA1      |
| HNRNPL   | pp | SF3A3     |
| HNRNPL   | pp | SF3B3     |
| HNRNPL   | pp | PCBP2     |
| NFKBIB   | pp | ERLIN1    |
| NFKBIB   | pp | NFKB1     |
| NFKBIB   | pp | CD3EAP    |
| NFKBIB   | pp | POLR1B    |
| NFKBIB   | pp | POLR1E    |
| NFKBIB   | pp | LRPPRC    |
| NFKBIB   | pp | REL       |
| NFKBIB   | pp | POLR2H    |
| NFKBIB   | pp | BTRC      |
| NFKBIB   | pp | MCC       |
| NFKBIB   | pp | POLR1C    |
| NFKBIB   | pp | RELA      |
| NFKBIB   | pp | POLR2L    |
| NFKBIB   | pp | POLR1D    |
| NFKBIB   | pp | RXRA      |
| NFKBIB   | pp | NKIRAS1   |
| RELB     | pp | NFKB1     |
| RELB     | pp | SMARCA4   |
| RELB     | pp | DPF2      |
| RELB     | pp | SMARCC2   |
| RELB     | pp | RELA      |
| SFRS16   | pp | CLK4      |
| SFRS16   | pp | ATXN1     |
| LIN7B    | pp | ABCA1     |
| LIN7B    | pp | BAIAP2    |
| FCGRT    | pp | B2M       |
| PIH1D1   | pp | TSC22D4   |
| PPP1R13L | pp | RELA      |
| SF3A2    | pp | SFRS9     |
| SF3A2    | pp | NCBP2     |
| SF3A2    | pp | SF3B1     |
| SF3A2    | pp | SFRS7     |
| SF3A2    | pp | SFRS4     |
| SF3A2    | pp | HNRNPA2B1 |
| SF3A2    | pp | SNRPD2    |
| SF3A2    | pp | SNRPB     |
| SF3A2    | pp | SNRPB2    |
| SF3A2    | pp | HNRNPR    |
| SF3A2    | pp | HNRNPA1   |
| SF3A2    | pp | DHX9      |

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| SF3A2   | pp | PRPF4   |
| SF3A2   | pp | NCBP1   |
| SF3A2   | pp | SNRPF   |
| SF3A2   | pp | TXNL4A  |
| SF3A2   | pp | SF3B4   |
| SF3A2   | pp | HNRNPU  |
| SF3A2   | pp | PCF11   |
| SF3A2   | pp | CPSF2   |
| SF3A2   | pp | SNRPD1  |
| SF3A2   | pp | CDC40   |
| SF3A2   | pp | CD2BP2  |
| SF3A2   | pp | PCBP1   |
| SF3A2   | pp | SF3B5   |
| SF3A2   | pp | CLP1    |
| SF3A2   | pp | SF3A3   |
| SF3A2   | pp | SF3B3   |
| SF3A2   | pp | PCBP2   |
| DMPK    | pp | HSPB2   |
| DMPK    | pp | GABARAP |
| IL4I1   | pp | KPNB1   |
| IL4I1   | pp | NUP88   |
| IL4I1   | pp | NUP98   |
| IL4I1   | pp | IK      |
| IL4I1   | pp | GORASP2 |
| IL4I1   | pp | NUP153  |
| IL4I1   | pp | TRAF3   |
| IL4I1   | pp | DTNB    |
| IL4I1   | pp | NUP54   |
| IL4I1   | pp | RANBP2  |
| IL4I1   | pp | XPO6    |
| IL4I1   | pp | PBX2    |
| CCDC130 | pp | ZNF24   |
| PTOV1   | pp | EPB49   |
| PTOV1   | pp | SPTAN1  |
| AES     | pp | SIX1    |
| AES     | pp | AR      |
| AES     | pp | GABARAP |
| AES     | pp | RELA    |
| AES     | pp | TLE1    |
| SGTA    | pp | EFEMP1  |
| SGTA    | pp | GPX7    |
| SGTA    | pp | SPP1    |
| SGTA    | pp | SRGN    |
| SGTA    | pp | IKBKE   |
| SGTA    | pp | C1QTNF1 |
| SGTA    | pp | BAT3    |
| LILRB1  | pp | B2M     |

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| LILRB1 | pp | HLA-G    |
| TIMM44 | pp | TIMM17A  |
| OLFM2  | pp | RPS6     |
| OLFM2  | pp | EIF1     |
| AKAP8  | pp | DDX5     |
| AKAP8  | pp | CCND3    |
| POP4   | pp | RPP14    |
| POP4   | pp | POP5     |
| POP4   | pp | RPP25    |
| FBL    | pp | CDK2     |
| FBL    | pp | PRMT1    |
| FBL    | pp | DDX56    |
| FBL    | pp | RTCD1    |
| FBL    | pp | CIAO1    |
| DYRK1B | pp | MAPK14   |
| DYRK1B | pp | PCBD1    |
| AKT2   | pp | ERLIN1   |
| AKT2   | pp | PDPK1    |
| PIAS4  | pp | IMMT     |
| PIAS4  | pp | CALCOCO2 |
| PIAS4  | pp | TP53     |
| PIAS4  | pp | SNIP1    |
| PIAS4  | pp | SMAD1    |
| PIAS4  | pp | PRPF40A  |
| NUMBL  | pp | ATXN1    |
| TBCB   | pp | TUBA4A   |
| TBCB   | pp | USP7     |
| SLC1A5 | pp | NEK6     |
| SLC1A5 | pp | MPDU1    |
| SLC1A5 | pp | GSTK1    |
| FZR1   | pp | CDK2     |
| FZR1   | pp | C7orf25  |
| FZR1   | pp | SKP2     |
| BBC3   | pp | BCL2L2   |
| BBC3   | pp | BCL2L1   |
| BBC3   | pp | BCL2     |
| TGFB1  | pp | ENG      |
| TGFB1  | pp | YWHAE    |
| TGFB1  | pp | SPARC    |
| TGFB1  | pp | FMOD     |
| TGFB1  | pp | ACVRL1   |
| TGFB1  | pp | APP      |
| TGFB1  | pp | TGFBR2   |
| TGFB1  | pp | FNTA     |
| TGFB1  | pp | BGN      |
| RPS19  | pp | EIF3B    |
| RPS19  | pp | EIF3A    |

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| RPS19    | pp | EIF3G   |
| RPS19    | pp | RPL35   |
| RPS19    | pp | RPS24   |
| RPS19    | pp | RPS11   |
| RPS19    | pp | IKBKE   |
| RPS19    | pp | RPS27A  |
| RPS19    | pp | EIF3H   |
| RPS19    | pp | RPS21   |
| RPS19    | pp | EIF3K   |
| RPS19    | pp | RPS23   |
| RPS19    | pp | RPL14   |
| RPS19    | pp | RPS28   |
| ETFB     | pp | ETFA    |
| ETFB     | pp | IKBKE   |
| C19orf62 | pp | BRE     |
| TYK2     | pp | CBL     |
| TYK2     | pp | PTPN6   |
| TYK2     | pp | STAM2   |
| TYK2     | pp | IL13RA1 |
| TYK2     | pp | IL6ST   |
| TYK2     | pp | VAV1    |
| TYK2     | pp | IFNAR1  |
| TYK2     | pp | PTPN1   |
| TYK2     | pp | GNB2L1  |
| NAPA     | pp | GOSR2   |
| NAPA     | pp | GOSR1   |
| NAPA     | pp | IKBKE   |
| NAPA     | pp | STX5    |
| NAPA     | pp | STX8    |
| RABAC1   | pp | SNX15   |
| RABAC1   | pp | RAP1A   |
| RABAC1   | pp | RAB22A  |
| RABAC1   | pp | FXR2    |
| RABAC1   | pp | RRAS2   |
| RABAC1   | pp | RAB1A   |
| RABAC1   | pp | RAB5A   |
| RABAC1   | pp | CABC1   |
| RABAC1   | pp | RAB4A   |
| RABAC1   | pp | NUDT18  |
| RABAC1   | pp | VAMP2   |
| RABAC1   | pp | NIF3L1  |
| RABAC1   | pp | GDI1    |
| PTPRS    | pp | MOBK3   |
| PTPRS    | pp | PPFIA1  |
| PTPRS    | pp | SETDB1  |
| PTPRS    | pp | FEZ1    |
| PTPRS    | pp | UTP14A  |

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| PTPRS    | pp | UBR1     |
| PTPRS    | pp | CHD3     |
| PTPRS    | pp | EEF1G    |
| KDEL1    | pp | NEK6     |
| KDEL1    | pp | COPB1    |
| KDEL1    | pp | ARF1     |
| KDEL1    | pp | WBP5     |
| GRWD1    | pp | PRKAB1   |
| GRWD1    | pp | IKBKE    |
| CARD8    | pp | FHL2     |
| RASIP1   | pp | HRAS     |
| PPP2R1A  | pp | PPP2CA   |
| PPP2R1A  | pp | BCAR3    |
| PPP2R1A  | pp | IKBKE    |
| PPP2R1A  | pp | GNA12    |
| PPP2R1A  | pp | PPP4C    |
| PPP2R1A  | pp | TNIK     |
| PPP2R1A  | pp | ZFYVE9   |
| PPP2R1A  | pp | SMAD3    |
| PPP2R1A  | pp | MCC      |
| PPP2R1A  | pp | TRAF6    |
| PPP2R1A  | pp | ARIH2    |
| PPP2R1A  | pp | CTNNBIP1 |
| TNPO2    | pp | PIK3CD   |
| TNPO2    | pp | PTP4A3   |
| LENG1    | pp | PNMA1    |
| PIK3R2   | pp | CBL      |
| PIK3R2   | pp | PDGFRB   |
| PIK3R2   | pp | SOS1     |
| PIK3R2   | pp | IGF1R    |
| PIK3R2   | pp | EGFR     |
| PIK3R2   | pp | AXL      |
| PIK3R2   | pp | IRS1     |
| PIK3R2   | pp | IRS2     |
| COPE     | pp | COPA     |
| COPE     | pp | COPB1    |
| COPE     | pp | ARF1     |
| COPE     | pp | COPG     |
| COPE     | pp | CASP4    |
| ARMC6    | pp | AP1S1    |
| ARMC6    | pp | SAP18    |
| ARMC6    | pp | PHLDA3   |
| USF2     | pp | S100A8   |
| USF2     | pp | PTP4A2   |
| C19orf50 | pp | UTP6     |
| C19orf50 | pp | MOBK1B   |
| C19orf50 | pp | FXR2     |

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| C19orf50 | pp | TPM1     |
| C19orf50 | pp | MAP1LC3B |
| C19orf50 | pp | NUDT18   |
| C19orf50 | pp | MCRS1    |
| C19orf50 | pp | NIF3L1   |
| FKBP8    | pp | MAPK14   |
| FKBP8    | pp | PPP3CA   |
| FKBP8    | pp | BCL2L1   |
| FKBP8    | pp | BCL2     |
| GSK3A    | pp | YWHAG    |
| GRIK5    | pp | GOLM1    |
| GRIK5    | pp | GPAA1    |
| ETHE1    | pp | IGSF21   |
| ETHE1    | pp | RELA     |
| BET1     | pp | STX5     |
| MTPN     | pp | PRKAB1   |
| MTPN     | pp | IKBKE    |
| MTPN     | pp | TRAF6    |
| OGDH     | pp | PLSCR1   |
| CAV2     | pp | CAV1     |
| CAV2     | pp | FLOT2    |
| CAV2     | pp | EGFR     |
| CAV2     | pp | NCK1     |
| CAV2     | pp | GOLGB1   |
| C7orf20  | pp | SOD2     |
| C7orf20  | pp | CDKN1A   |
| C7orf20  | pp | PRKCSH   |
| C7orf20  | pp | UBAC2    |
| C7orf20  | pp | TNFRSF14 |
| C7orf20  | pp | KIFC2    |
| C7orf20  | pp | MAGED1   |
| C7orf20  | pp | EEF1G    |
| CAV1     | pp | PTPN6    |
| CAV1     | pp | SCP2     |
| CAV1     | pp | NEDD8    |
| CAV1     | pp | UBE2M    |
| CAV1     | pp | FLOT2    |
| CAV1     | pp | PDGFRA   |
| CAV1     | pp | APP      |
| CAV1     | pp | EGFR     |
| CAV1     | pp | AR       |
| CAV1     | pp | PRNP     |
| CAV1     | pp | ADRBK1   |
| CAV1     | pp | PTPN11   |
| CAV1     | pp | PTPN1    |
| MET      | pp | CBL      |
| MET      | pp | GRB2     |

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| DNAJB6   | pp | PHLDA3  |
| HOXA5    | pp | TWIST1  |
| TAX1BP1  | pp | STARD13 |
| TAX1BP1  | pp | TRAF6   |
| CHN2     | pp | BAT3    |
| GRB10    | pp | RAF1    |
| GRB10    | pp | IGF1R   |
| GRB10    | pp | EGFR    |
| GRB10    | pp | MAP2K1  |
| GRB10    | pp | INSR    |
| NOD1     | pp | CASP2   |
| GARS     | pp | CELSR2  |
| GARS     | pp | IKBKE   |
| GARS     | pp | TRAF6   |
| AQP1     | pp | MDFI    |
| CASP2    | pp | CCND3   |
| CASP2    | pp | CASP7   |
| CASP2    | pp | CRADD   |
| CASP2    | pp | DCTN1   |
| EIF3B    | pp | EIF3A   |
| EIF3B    | pp | EIF3G   |
| EIF3B    | pp | EIF2S1  |
| EIF3B    | pp | RPS6    |
| EIF3B    | pp | RPS24   |
| EIF3B    | pp | RPS11   |
| EIF3B    | pp | RPS27A  |
| EIF3B    | pp | EIF3H   |
| EIF3B    | pp | RPS3    |
| EIF3B    | pp | FAU     |
| EIF3B    | pp | RPS21   |
| EIF3B    | pp | EIF3K   |
| EIF3B    | pp | RPS23   |
| EIF3B    | pp | RPS28   |
| SERPINE1 | pp | IGFBP5  |
| SERPINE1 | pp | PLAU    |
| AP1S1    | pp | IKBKE   |
| AP1S1    | pp | SLC16A1 |
| AP1S1    | pp | AP1S2   |
| AP1S1    | pp | AP2A2   |
| RPA3     | pp | POLD2   |
| RPA3     | pp | GTF2H1  |
| RPA3     | pp | MCM3    |
| RPA3     | pp | ORC4L   |
| RPA3     | pp | RPA2    |
| RPA3     | pp | RAD23B  |
| RPA3     | pp | CDK2    |
| RPA3     | pp | RPA1    |



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| RPA3    | pp | PCNA    |
| RPA3    | pp | CCNH    |
| RPA3    | pp | ERCC5   |
| RPA3    | pp | ERCC3   |
| RPA3    | pp | ORC5L   |
| RPA3    | pp | MCM7    |
| RPA3    | pp | DDB1    |
| RPA3    | pp | ERCC4   |
| C7orf36 | pp | TPD52L1 |
| C7orf36 | pp | CHD3    |
| PSMA2   | pp | PSMB3   |
| PSMA2   | pp | PSMD3   |
| PSMA2   | pp | PSMD11  |
| PSMA2   | pp | PSMD9   |
| PSMA2   | pp | PSMD14  |
| PSMA2   | pp | PSMB2   |
| PSMA2   | pp | PSMA1   |
| PSMA2   | pp | PSMB7   |
| PSMA2   | pp | BCAR3   |
| PSMA2   | pp | PSMB6   |
| PSMA2   | pp | PSMA5   |
| PSMA2   | pp | IKBKE   |
| PSMA2   | pp | TNIK    |
| PSMA2   | pp | PSMB4   |
| PSMA2   | pp | PSMC2   |
| PSMA2   | pp | PSMD6   |
| PSMA2   | pp | PSMC3   |
| PSMA2   | pp | PSMD1   |
| PSMA2   | pp | TRAF6   |
| PSMA2   | pp | PSMD2   |
| PSMA2   | pp | PAK2    |
| PSMA2   | pp | PSMD13  |
| PSMA2   | pp | PSMD12  |
| PSMA2   | pp | PSMB9   |
| PSMA2   | pp | PSMB10  |
| RHEB    | pp | RAF1    |
| PRKAG2  | pp | PRKAB2  |
| PRKAG2  | pp | PRKAG1  |
| POLD2   | pp | RPA2    |
| POLD2   | pp | CDKN1A  |
| POLD2   | pp | RPA1    |
| POLD2   | pp | PCNA    |
| POLD2   | pp | LSM6    |
| POLD2   | pp | POLD4   |
| LIMK1   | pp | CDKN1C  |
| LIMK1   | pp | BMPR2   |
| SLC1A1  | pp | ARL6IP5 |

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| ENG       | pp | ACVR1   |
| FUBP3     | pp | QKI     |
| CREB3     | pp | BNIP2   |
| CREB3     | pp | MALL    |
| CREB3     | pp | NFIL3   |
| CREB3     | pp | STX8    |
| CREB3     | pp | HCFC1   |
| MPDZ      | pp | PLEKHA1 |
| MPDZ      | pp | ABCA1   |
| EDF1      | pp | TBP     |
| EDF1      | pp | NR5A2   |
| EDF1      | pp | CREB1   |
| EDF1      | pp | PPARG   |
| EDF1      | pp | RXRA    |
| BAG1      | pp | HSPA8   |
| BAG1      | pp | NR3C1   |
| BAG1      | pp | PDGFRB  |
| BAG1      | pp | RARA    |
| BAG1      | pp | RAF1    |
| BAG1      | pp | RB1     |
| BAG1      | pp | AR      |
| BAG1      | pp | BCL2L1  |
| BAG1      | pp | BCL2    |
| BAG1      | pp | SIAH1   |
| NPDC1     | pp | MDFI    |
| NPDC1     | pp | PLSCR1  |
| APBA1     | pp | STXBP1  |
| APBA1     | pp | APP     |
| APBA1     | pp | CASK    |
| PTGDS     | pp | HK2     |
| SHB       | pp | PIK3R1  |
| SHB       | pp | EPS8    |
| SHB       | pp | SRC     |
| GATA3     | pp | ETS1    |
| PHYH      | pp | RNF167  |
| PHYH      | pp | PEX7    |
| PHYH      | pp | ABCD3   |
| PHYH      | pp | COPS3   |
| PHYH      | pp | F8      |
| RAB11FIP2 | pp | YWHAG   |
| ERLIN1    | pp | NFKB1   |
| ERLIN1    | pp | NCOA3   |
| ERLIN1    | pp | MAP3K7  |
| ERLIN1    | pp | RELA    |
| ERLIN1    | pp | SRC     |
| EIF3A     | pp | EIF1B   |
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| EIF3A    | pp | EIF2S1   |
| EIF3A    | pp | RPS6     |
| EIF3A    | pp | RPS24    |
| EIF3A    | pp | RPS11    |
| EIF3A    | pp | RPS27A   |
| EIF3A    | pp | RPS3     |
| EIF3A    | pp | FAU      |
| EIF3A    | pp | RPS21    |
| EIF3A    | pp | EIF3K    |
| EIF3A    | pp | RPS23    |
| EIF3A    | pp | RPS28    |
| DDX50    | pp | SMNDC1   |
| MAPK8    | pp | ATF2     |
| MAPK8    | pp | SH3BP5   |
| MAPK8    | pp | MAP3K7   |
| MAPK8    | pp | MAPK8IP3 |
| MAPK8    | pp | BCL2L11  |
| MAPK8    | pp | REL      |
| MAPK8    | pp | IRS1     |
| MAPK8    | pp | JUN      |
| TNKS2    | pp | TNKS     |
| GBF1     | pp | YWHAB    |
| GBF1     | pp | YWHAG    |
| GBF1     | pp | PTP4A3   |
| BCCIP    | pp | PRKAB1   |
| BCCIP    | pp | FAM46A   |
| BCCIP    | pp | ITSN2    |
| OBFC1    | pp | TUBGCP4  |
| GLRX3    | pp | PLSCR1   |
| C10orf18 | pp | LDOC1    |
| SMC3     | pp | STAG1    |
| SMC3     | pp | RAD21    |
| SHOC2    | pp | KRAS     |
| SHOC2    | pp | HRAS     |
| TFAM     | pp | TFB2M    |
| CCDC6    | pp | PPP4C    |
| CCNY     | pp | YWHAG    |
| RPL28    | pp | RPL24    |
| RPL28    | pp | RPL22    |
| RPL28    | pp | RPL27    |
| RPL28    | pp | RPL35    |
| RPL28    | pp | RTCD1    |
| RPL28    | pp | SMAD4    |
| RPL28    | pp | RPL11    |
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| RPL28    | pp | FAU      |

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| RPL28 | pp | RPL38  |
| RPL28 | pp | RPL15  |
| RPL28 | pp | RPL35A |
| RPL28 | pp | RPL37A |
| RPL28 | pp | RPL10A |
| ZMIZ1 | pp | CACHD1 |
| PSMB3 | pp | PSMD3  |
| PSMB3 | pp | PSMD11 |
| PSMB3 | pp | PSMD9  |
| PSMB3 | pp | PRKAB1 |
| PSMB3 | pp | PSMD14 |
| PSMB3 | pp | PSMB2  |
| PSMB3 | pp | PSMA1  |
| PSMB3 | pp | PSMB7  |
| PSMB3 | pp | PSMB6  |
| PSMB3 | pp | PSMA5  |
| PSMB3 | pp | IKBKE  |
| PSMB3 | pp | PSMB4  |
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| PSMB3 | pp | PSMD6  |
| PSMB3 | pp | MCC    |
| PSMB3 | pp | PSMD1  |
| PSMB3 | pp | TRAF6  |
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| PSMB3 | pp | PSMD13 |
| PSMB3 | pp | PSMD12 |
| PSMB3 | pp | PSMB10 |
| UBTF  | pp | RB1    |
| UBTF  | pp | TAF1   |
| UBTF  | pp | POLR2K |
| UBTF  | pp | POLR2H |
| PSMD3 | pp | PSMD11 |
| PSMD3 | pp | PSMD9  |
| PSMD3 | pp | PSMD14 |
| PSMD3 | pp | PSMB2  |
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| PSMD3 | pp | PSMB7  |
| PSMD3 | pp | PSMB6  |
| PSMD3 | pp | PSMA5  |
| PSMD3 | pp | IKBKE  |
| PSMD3 | pp | PSMB4  |
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| PSMD3    | pp | PTP4A3  |
| PSMD3    | pp | PSMD13  |
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| CASC3    | pp | EIF4A3  |
| RAD51C   | pp | RAD51L1 |
| RAD51C   | pp | RAD51L3 |
| TRIM37   | pp | BYSL    |
| TRIM37   | pp | COPB1   |
| TRIM37   | pp | FXR2    |
| TRIM37   | pp | APTX    |
| TRIM37   | pp | RHPN1   |
| TRIM37   | pp | FAM107A |
| TRIM37   | pp | APEX2   |
| TRIM37   | pp | NUDT18  |
| TRIM37   | pp | TRAF6   |
| TRIM37   | pp | MCRS1   |
| TRIM37   | pp | ZNF655  |
| KPNB1    | pp | NUP98   |
| KPNB1    | pp | KPNA1   |
| KPNB1    | pp | SMNDC1  |
| KPNB1    | pp | NUP153  |
| KPNB1    | pp | RANBP2  |
| GOSR2    | pp | STX5    |
| RPS6KB1  | pp | RPS6    |
| CDK5RAP3 | pp | PRKAB1  |
| CDK5RAP3 | pp | SMNDC1  |
| CDK5RAP3 | pp | ARL1    |
| CDK5RAP3 | pp | SRPRB   |
| CDK3     | pp | CCNC    |
| MED13    | pp | MED9    |
| MED13    | pp | MED12   |
| HOXB6    | pp | SAT1    |
| HOXB6    | pp | PLSCR1  |
| RNF167   | pp | UBE2M   |
| SLC25A11 | pp | COPA    |
| SLC25A11 | pp | CDKN1A  |
| RASD1    | pp | GNAI2   |
| RASD1    | pp | GNAI1   |
| RASD1    | pp | PLSCR1  |
| NUP88    | pp | NUP98   |
| NUP88    | pp | NUP214  |
| BLMH     | pp | APP     |
| BLMH     | pp | RPL11   |
| GOSR1    | pp | STX5    |
| FTSJ3    | pp | SAT1    |
| AKAP10   | pp | PRKAR1A |
| AKAP10   | pp | PRKAR2A |

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| DDX5     | pp | IKBKE    |
| DDX5     | pp | ARF6     |
| DDX5     | pp | YWHAG    |
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| DDX5     | pp | PHLDA3   |
| DDX5     | pp | GSTK1    |
| PSMD11   | pp | ZBTB16   |
| PSMD11   | pp | PSMD9    |
| PSMD11   | pp | PSMD14   |
| PSMD11   | pp | IGSF21   |
| PSMD11   | pp | PSMB2    |
| PSMD11   | pp | PSMA1    |
| PSMD11   | pp | PSMB7    |
| PSMD11   | pp | CCDC90B  |
| PSMD11   | pp | TP53     |
| PSMD11   | pp | PSMB6    |
| PSMD11   | pp | PSMA5    |
| PSMD11   | pp | SETDB1   |
| PSMD11   | pp | PTPRK    |
| PSMD11   | pp | PSMB4    |
| PSMD11   | pp | PSMC2    |
| PSMD11   | pp | PSMD6    |
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| PSMD11   | pp | PSMC3    |
| PSMD11   | pp | COPS6    |
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| PSMD11   | pp | TLE1     |
| PSMD11   | pp | PSMD12   |
| LGALS3BP | pp | LGALS3   |
| LGALS3BP | pp | ITGB1    |
| CCL2     | pp | CCBP2    |
| CCL2     | pp | CCR1     |
| RAB5C    | pp | IKBKE    |
| RAB5C    | pp | RAB5A    |
| RAB5C    | pp | TRAF6    |
| MLX      | pp | MLXIP    |
| ABI3     | pp | EIF3H    |
| ABI3     | pp | ABI3BP   |
| ABI3     | pp | KIAA1712 |
| PPP1R9B  | pp | CDKN2A   |
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| COL1A1  | pp | CD36    |
| COL1A1  | pp | IGFBP3  |
| COL1A1  | pp | ITGA5   |
| COL1A1  | pp | BGN     |
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| COL1A1  | pp | PRELP   |
| HDAC5   | pp | YWHAE   |
| HDAC5   | pp | BCL6    |
| HDAC5   | pp | GABARAP |
| HDAC5   | pp | HDAC3   |
| HDAC5   | pp | EEF1G   |
| HDAC5   | pp | NCOR2   |
| SMURF2  | pp | RNF11   |
| SMURF2  | pp | SMAD2   |
| DUSP3   | pp | MCC     |
| PRKAR1A | pp | AKAP1   |
| PRKAR1A | pp | UBE2M   |
| PRKAR1A | pp | GRB2    |
| PRKAR1A | pp | MCRS1   |
| PRKAR1A | pp | PRKAR1B |
| PRKAR1A | pp | PRPF40A |
| YWHAE   | pp | CDKN1B  |
| YWHAE   | pp | ARHGEF2 |
| YWHAE   | pp | ATXN1   |
| YWHAE   | pp | RAF1    |
| YWHAE   | pp | RGS3    |
| YWHAE   | pp | IGF1R   |
| YWHAE   | pp | CASP3   |
| YWHAE   | pp | TSC1    |
| YWHAE   | pp | NDEL1   |
| YWHAE   | pp | NGFRAP1 |
| YWHAE   | pp | IRS1    |
| YWHAE   | pp | RIN1    |
| YWHAE   | pp | SRC     |
| YWHAE   | pp | MAP3K3  |
| MAP2K6  | pp | MAPK14  |
| NAT9    | pp | C14orf1 |
| NAT9    | pp | LUC7L2  |
| PMP22   | pp | CANX    |
| PMP22   | pp | PEX19   |
| TMEM33  | pp | IKBKE   |
| TMEM33  | pp | PHLDA3  |
| TMEM33  | pp | NDN     |
| TMEM33  | pp | PTP4A3  |
| CHIC2   | pp | MDFI    |
| NFKB1   | pp | NFKBIE  |
| NFKB1   | pp | PDCD11  |

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| NFKB1  | pp | TNIP2    |
| NFKB1  | pp | RELA     |
| MAPK10 | pp | SH3BP5   |
| MAPK10 | pp | MAPK8IP3 |
| ELF2   | pp | RUNX1    |
| CPE    | pp | RPA1     |
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| CPE    | pp | CHD3     |
| GRPEL1 | pp | PRKAB1   |
| TRIM2  | pp | SIRPA    |
| FBXW7  | pp | SUMF2    |
| FBXW7  | pp | MYC      |
| FBXW7  | pp | SHPRH    |
| FBXW7  | pp | LINGO1   |
| FBXW7  | pp | ARL6IP1  |
| ZBTB16 | pp | CD81     |
| ZBTB16 | pp | NR3C1    |
| ZBTB16 | pp | BCL6     |
| ZBTB16 | pp | FHL2     |
| ZBTB16 | pp | TXNIP    |
| ZBTB16 | pp | COQ6     |
| ZBTB16 | pp | ENOX1    |
| ZBTB16 | pp | SPOP     |
| ZBTB16 | pp | RARA     |
| ZBTB16 | pp | HBXIP    |
| ZBTB16 | pp | IL6      |
| ZBTB16 | pp | PML      |
| ZBTB16 | pp | NCOR1    |
| ZBTB16 | pp | THNSL2   |
| ZBTB16 | pp | HEATR2   |
| ZBTB16 | pp | SMAD3    |
| ZBTB16 | pp | BMI1     |
| ZBTB16 | pp | GSTM4    |
| ZBTB16 | pp | ZNF24    |
| ZBTB16 | pp | PSMD2    |
| ZBTB16 | pp | GATA2    |
| ZBTB16 | pp | LDOC1    |
| ZBTB16 | pp | FAM101B  |
| ZBTB16 | pp | RXRA     |
| ZBTB16 | pp | PLSCR1   |
| ZBTB16 | pp | NCOR2    |
| ZBTB16 | pp | MAP3K3   |
| ZNF259 | pp | CDK5RAP2 |
| FNBP4  | pp | LBR      |
| FNBP4  | pp | PRPF40A  |
| HSPA8  | pp | PHC1     |



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| HSPA8    | pp | RGS2    |
| HSPA8    | pp | HSPH1   |
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| HSPA8    | pp | GOT2    |
| HSPA8    | pp | RPS27A  |
| HSPA8    | pp | BAG3    |
| HSPA8    | pp | REL     |
| HSPA8    | pp | CCT3    |
| HSPA8    | pp | FBP1    |
| HSPA8    | pp | TM4SF1  |
| HSPA8    | pp | HDAC3   |
| HSPA8    | pp | GAK     |
| SNX15    | pp | TMEM66  |
| LPXN     | pp | LIMS1   |
| LPXN     | pp | IMP3    |
| SUV420H1 | pp | YWHAQ   |
| SUV420H1 | pp | YWHAG   |
| ST3GAL4  | pp | ARHGDI4 |
| CCND1    | pp | CDKN1B  |
| CCND1    | pp | E2F3    |
| CCND1    | pp | ORC4L   |
| CCND1    | pp | CDKN1A  |
| CCND1    | pp | CCNH    |
| CCND1    | pp | RB1     |
| CCND1    | pp | TAF1    |
| CCND1    | pp | AR      |
| CCND1    | pp | TFDP1   |
| CCND1    | pp | E2F4    |
| EIF4G2   | pp | CIAO1   |
| EIF4G2   | pp | PTP4A3  |
| EIF4G2   | pp | GSTK1   |
| BIRC2    | pp | CASP3   |
| BIRC2    | pp | CASP7   |
| BIRC2    | pp | DIABLO  |
| UBE4A    | pp | PTP4A3  |
| CBL      | pp | KHDRBS1 |
| CBL      | pp | PLCG1   |
| CBL      | pp | YWHAQ   |
| CBL      | pp | SPRY2   |
| CBL      | pp | VAV1    |
| CBL      | pp | PIK3R1  |
| CBL      | pp | EGFR    |
| CBL      | pp | SH3KBP1 |
| CBL      | pp | LYN     |
| CBL      | pp | SHC1    |
| CBL      | pp | CRK     |

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| CBL     | pp | GRB2   |
| CBL     | pp | CSF1R  |
| PDHX    | pp | PDHA1  |
| PDHX    | pp | DLAT   |
| PDHX    | pp | PDHB   |
| CARS    | pp | EEF1G  |
| CD81    | pp | DLG5   |
| CD81    | pp | TRAF6  |
| NUP98   | pp | NUP107 |
| NUP98   | pp | NUP153 |
| NUP98   | pp | NUP214 |
| NUP98   | pp | RANBP2 |
| NUP98   | pp | SEC13  |
| HPS5    | pp | HPS6   |
| GTF2H1  | pp | RPA2   |
| GTF2H1  | pp | RAD23B |
| GTF2H1  | pp | GTF2F1 |
| GTF2H1  | pp | RPA1   |
| GTF2H1  | pp | CCNH   |
| GTF2H1  | pp | ERCC5  |
| GTF2H1  | pp | GTF2B  |
| GTF2H1  | pp | GTF2A2 |
| GTF2H1  | pp | GTF2E1 |
| GTF2H1  | pp | ERCC3  |
| GTF2H1  | pp | DDB1   |
| GTF2H1  | pp | ERCC4  |
| GTF2H1  | pp | POLR2A |
| GTF2H1  | pp | GTF2E2 |
| PSMD9   | pp | PSMB2  |
| PSMD9   | pp | PSMA1  |
| PSMD9   | pp | PSMB7  |
| PSMD9   | pp | PSMB6  |
| PSMD9   | pp | PSMA5  |
| PSMD9   | pp | PSMB4  |
| PSMD9   | pp | PSMC2  |
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| PSMD9   | pp | PSMD1  |
| PSMD9   | pp | PSMD2  |
| PSMD9   | pp | PSMD13 |
| PSMD9   | pp | PSMD12 |
| PPFIBP1 | pp | YWHAQ  |
| PPFIBP1 | pp | YWHAB  |
| PPFIBP1 | pp | YWHAG  |
| PRDM4   | pp | SMAD3  |
| SELPLG  | pp | SELP   |
| ATP5B   | pp | ATP5F1 |
| ATP5B   | pp | ATPAF1 |

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| ATP5B   | pp | ATP5E    |
| ATP5B   | pp | PSME3    |
| ATP5B   | pp | ATP5A1   |
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| METAP2  | pp | S100A4   |
| LTA4H   | pp | IKBKE    |
| LTA4H   | pp | MCC      |
| ELK3    | pp | CTBP1    |
| TRPV4   | pp | MAP7     |
| ALDH2   | pp | IGSF21   |
| ALDH2   | pp | EIF6     |
| ALDH2   | pp | C14orf1  |
| CDKN1B  | pp | CCND3    |
| CDKN1B  | pp | CCND2    |
| CDKN1B  | pp | COPS5    |
| CDKN1B  | pp | CDK2     |
| CDKN1B  | pp | CDKN1A   |
| CDKN1B  | pp | ARHGDI1A |
| CDKN1B  | pp | SKP2     |
| CDKN1B  | pp | LYN      |
| CDKN1B  | pp | UCHL1    |
| CDKN1B  | pp | CDK5     |
| CDKN1B  | pp | MCM7     |
| CDKN1B  | pp | YWHAB    |
| CDKN1B  | pp | YWHAG    |
| CDKN1B  | pp | GRB2     |
| LTBR    | pp | TRAF3    |
| OGFOD2  | pp | EEF1G    |
| CDK2AP1 | pp | CDK2     |
| CDK2AP1 | pp | CIAO1    |
| CDK2AP1 | pp | CDK2AP2  |
| VDR     | pp | NCOA3    |
| VDR     | pp | MED1     |
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| COPZ1   | pp | COPB1    |
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| CAND1   | pp | CUL4B    |
| NUP107  | pp | NUP214   |
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| CPSF6  | pp | PLSCR1  |
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| GAPDH  | pp | APP     |
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| GAPDH  | pp | PRKCI   |
| GAPDH  | pp | TK1     |
| GAPDH  | pp | BPGM    |
| GAPDH  | pp | S100A6  |
| CHD4   | pp | SMARCA4 |
| CHD4   | pp | ATR     |
| COPS7A | pp | COPS4   |
| ING4   | pp | TP53    |
| ING4   | pp | RELA    |
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| USP5   | pp | RNF11   |
| ATN1   | pp | MDFI    |
| ATN1   | pp | PSME3   |
| ATN1   | pp | RERE    |
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| ATN1   | pp | LENG8   |
| ATN1   | pp | BAIAP2  |
| ATN1   | pp | GCC1    |
| ATN1   | pp | PLSCR1  |
| ATN1   | pp | WDR5    |
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| PTPN6  | pp | KHDRBS1 |
| PTPN6  | pp | CXCR4   |
| PTPN6  | pp | CD72    |
| PTPN6  | pp | VAV1    |
| PTPN6  | pp | IFNAR1  |
| PTPN6  | pp | LAIR1   |
| PTPN6  | pp | GRB2    |
| PTPN6  | pp | SSTR2   |
| PTPN6  | pp | SIRPA   |
| PRKAB1 | pp | TARS    |
| PRKAB1 | pp | EIF4G1  |
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| PRKAB1 | pp | PSMD14  |
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| PRKAB1 | pp | PSMC3     |
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| PRKAB1 | pp | RPL35A    |
| PRKAB1 | pp | COPB2     |
| PRKAB1 | pp | UBE2L3    |
| PRKAB1 | pp | IPO9      |
| PRKAB1 | pp | ABCF1     |
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| PHC1   | pp | PHC2      |
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| SFRS9  | pp | SFRS3     |
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| SFRS9   | pp | KHDRBS3   |
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| SFRS9   | pp | SFRS1     |
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| SFRS9   | pp | SNRPF     |
| SFRS9   | pp | U2AF1     |
| SFRS9   | pp | SNRPD1    |
| SFRS9   | pp | CDC40     |
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| TTRAP   | pp | ETS1      |
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| NEDD9   | pp | SMAD3     |
| NEDD9   | pp | PTK2      |
| NEDD9   | pp | SMAD1     |
| RNGTT   | pp | GTF2F1    |
| RNGTT   | pp | POLR2K    |
| RNGTT   | pp | POLR2H    |
| RNGTT   | pp | POLR2G    |
| RNGTT   | pp | POLR2A    |
| TPD52L1 | pp | YWHAB     |
| PPARD   | pp | BCL6      |
| PPARD   | pp | DUT       |
| PPARD   | pp | NCOR2     |
| FANCE   | pp | FANCC     |
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| MAPK14  | pp | MAPKAPK3  |
| MAPK14  | pp | CREB1     |
| MAPK14  | pp | DUSP4     |
| MAPK14  | pp | PML       |
| MAPK14  | pp | PTPN7     |
| MAPK14  | pp | RPS6KA4   |
| MAPK14  | pp | DDIT3     |
| MAPK14  | pp | GRB2      |
| MAPK14  | pp | ZFP36L1   |
| MAPK14  | pp | GMFB      |
| STK38   | pp | MOBK1B    |
| SFRS3   | pp | HNRNPA2B1 |
| SFRS3   | pp | YWHAQ     |
| SFRS3   | pp | HNRNPA1   |
| SFRS3   | pp | DHX9      |
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| SFRS3  | pp | HNRNPU   |
| SFRS3  | pp | SFRS12   |
| SFRS3  | pp | YWHAB    |
| SFRS3  | pp | CDC40    |
| SFRS3  | pp | CD2BP2   |
| SFRS3  | pp | PCBP1    |
| SFRS3  | pp | YWHAG    |
| SFRS3  | pp | PCBP2    |
| SOD2   | pp | RAB4A    |
| MCM3   | pp | STAT1    |
| MCM3   | pp | ORC4L    |
| MCM3   | pp | RPA2     |
| MCM3   | pp | CDK2     |
| MCM3   | pp | RPA1     |
| MCM3   | pp | ENSA     |
| MCM3   | pp | CIAO1    |
| MCM3   | pp | ORC5L    |
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| MCM3   | pp | MCC      |
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| MCM3   | pp | TRAF6    |
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| MCM3   | pp | PTP4A3   |
| RNF8   | pp | KIAA1712 |
| RNF8   | pp | CCDC85B  |
| RNF8   | pp | RXRA     |
| MDN1   | pp | PTP4A3   |
| MDN1   | pp | CASP4    |
| CAP2   | pp | PRPF40A  |
| ZNF451 | pp | FXR2     |
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| ZNF451 | pp | RAP1GDS1 |
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| ZNF451 | pp | PRPF40A  |
| BAG2   | pp | TRAF6    |
| BAG2   | pp | PTP4A3   |
| CCNC   | pp | MED10    |
| CCNC   | pp | POLR2A   |
| E2F3   | pp | CCND3    |
| E2F3   | pp | CCND2    |
| E2F3   | pp | RB1      |
| E2F3   | pp | RYBP     |
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| PEX7  | pp | PEX5     |
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| QKI   | pp | PCBP1    |
| QKI   | pp | HCLS1    |
| QKI   | pp | PCBP2    |
| MDFI  | pp | GNAI2    |
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| MDFI  | pp | PHLDA1   |
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| MDFI  | pp | ATG12    |
| MDFI  | pp | CCDC120  |
| MDFI  | pp | AASDHPPT |
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| MDFI  | pp | FBXW5    |
| MDFI  | pp | ATXN7L2  |
| MDFI  | pp | VPS72    |
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| CCND3   | pp | CDKN1A |
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| CCND3   | pp | CRABP2 |
| CCND3   | pp | ATP5C1 |
| CCND3   | pp | EIF3K  |
| CCND3   | pp | TFDP1  |
| TBP     | pp | GTF3C3 |
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| DAP      | pp | SETDB1   |
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| BRD8     | pp | RXRA     |
| BRD8     | pp | TRRAP    |
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| CCNG1    | pp | PPP2R4   |
| CCNG1    | pp | TP53     |
| CCNG1    | pp | CDK5     |
| CCNG1    | pp | GAK      |
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| PPP2CA   | pp | CCNG2    |
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| NR3C1   | pp | SLC25A4  |
| NR3C1   | pp | HNRNPU   |
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| NR3C1   | pp | SMAD3    |
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| NR3C1   | pp | RELA     |
| NR3C1   | pp | SFN      |
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| SMAD5   | pp | FLNA     |
| CSNK1A1 | pp | CTNNB1   |
| ERGIC1  | pp | ERGIC3   |
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| PDGFRB  | pp | COPB1    |
| PDGFRB  | pp | RAF1     |
| PDGFRB  | pp | PDGFRA   |
| PDGFRB  | pp | PIK3R1   |
| PDGFRB  | pp | RASA1    |
| PDGFRB  | pp | SH3KBP1  |
| PDGFRB  | pp | NCK1     |
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| PDGFRB  | pp | GRB2     |
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| STC2    | pp | PPP1R8   |
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| KPNA1   | pp | SRP19   |
| PCCB    | pp | PCCA    |
| UBE3A   | pp | EAPP    |
| UBE3A   | pp | RARA    |
| UBE3A   | pp | UBE2G1  |
| UBE3A   | pp | TP53    |
| UBE3A   | pp | MCM7    |
| UBE3A   | pp | AR      |
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| UBE3A   | pp | UBE2L3  |
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| RNF7    | pp | CUL5    |
| PDCD10  | pp | MCC     |
| PRKAR2A | pp | PRKACB  |
| PRKAR2A | pp | PRKACG  |
| GNAI2   | pp | GPSM2   |
| GNAI2   | pp | TUBA4A  |
| GNAI2   | pp | EDNRA   |
| GNAI2   | pp | ADORA1  |
| GNAI2   | pp | RGS14   |
| GNAI2   | pp | FPR1    |
| GNAI2   | pp | F2R     |
| GNAI2   | pp | PLSCR1  |
| TFG     | pp | C14orf1 |
| TFG     | pp | GBP2    |
| TFG     | pp | PLSCR1  |
| TUSC2   | pp | LRBA    |
| RPL24   | pp | RPL22   |
| RPL24   | pp | RPL27   |
| RPL24   | pp | RPL35   |
| RPL24   | pp | RPL11   |
| RPL24   | pp | RPS27A  |
| RPL24   | pp | RPL37   |
| RPL24   | pp | FAU     |
| RPL24   | pp | RPL30   |
| RPL24   | pp | RPL27A  |
| RPL24   | pp | MCC     |
| RPL24   | pp | RPL38   |
| RPL24   | pp | RPL15   |
| RPL24   | pp | TRAF6   |
| RPL24   | pp | PAK2    |
| RPL24   | pp | RPL35A  |

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| RPL24    | pp | RPL37A   |
| RPL24    | pp | RPL10A   |
| FXR1     | pp | C14orf1  |
| FXR1     | pp | LUC7L2   |
| FXR1     | pp | PRSS23   |
| FXR1     | pp | GBP2     |
| CBLB     | pp | GORASP2  |
| CBLB     | pp | SORBS3   |
| CBLB     | pp | RNF11    |
| CBLB     | pp | VAV1     |
| CBLB     | pp | EGFR     |
| CBLB     | pp | SH3KBP1  |
| CBLB     | pp | NCK1     |
| CBLB     | pp | SHC1     |
| CBLB     | pp | GRB2     |
| CBLB     | pp | PLCG2    |
| GBE1     | pp | GYG1     |
| UMPS     | pp | CDC42EP3 |
| UMPS     | pp | CASP4    |
| NCBP2    | pp | EIF4G1   |
| NCBP2    | pp | SF3B1    |
| NCBP2    | pp | SFRS4    |
| NCBP2    | pp | SFRS6    |
| NCBP2    | pp | SNRPD2   |
| NCBP2    | pp | SNRPB    |
| NCBP2    | pp | HNRNPR   |
| NCBP2    | pp | PRPF4    |
| NCBP2    | pp | NCBP1    |
| NCBP2    | pp | IKBKE    |
| NCBP2    | pp | PCF11    |
| NCBP2    | pp | METTL3   |
| NCBP2    | pp | CPSF2    |
| NCBP2    | pp | SNRPD1   |
| NCBP2    | pp | CDC40    |
| NCBP2    | pp | SF3B5    |
| NCBP2    | pp | SF3B3    |
| SCAP     | pp | INSIG1   |
| PLSCR4   | pp | PLSCR1   |
| CISH     | pp | EPOR     |
| MAPKAPK3 | pp | MAPK13   |
| GORASP1  | pp | CASP3    |
| GORASP1  | pp | CASP7    |
| GORASP1  | pp | GOLGA2   |
| EIF1B    | pp | EIF3G    |
| EIF1B    | pp | PSMD13   |
| EIF4G1   | pp | EIF2S1   |
| EIF4G1   | pp | NCBP1    |

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| EIF4G1 | pp | RPS6    |
| EIF4G1 | pp | RPS24   |
| EIF4G1 | pp | RPS11   |
| EIF4G1 | pp | IKBKE   |
| EIF4G1 | pp | RPS3    |
| EIF4G1 | pp | PDCD4   |
| EIF4G1 | pp | ANXA5   |
| EIF4G1 | pp | ARF6    |
| EIF4G1 | pp | MCC     |
| EIF4G1 | pp | RPS21   |
| EIF4G1 | pp | TRAF6   |
| EIF4G1 | pp | PAK2    |
| RTKN   | pp | RHOC    |
| ACTR1B | pp | CHD3    |
| ACTR3  | pp | ACTR2   |
| ACTR3  | pp | ARPC2   |
| ACTR3  | pp | TRAF6   |
| TP53I3 | pp | UBR1    |
| TP53I3 | pp | EEF1G   |
| STAM2  | pp | RNF11   |
| STAM2  | pp | STAMBP  |
| STAM2  | pp | DAZAP2  |
| STAM2  | pp | HGS     |
| ACVR1  | pp | ACVR1B  |
| ACVR1  | pp | FNTA    |
| ACVR1  | pp | SMAD1   |
| GTF3C2 | pp | GTF3A   |
| GTF3C2 | pp | GTF3C4  |
| GTF3C2 | pp | RB1     |
| EIF2B4 | pp | EIF2B2  |
| EIF2B4 | pp | EIF2S1  |
| EIF2B4 | pp | EIF2B5  |
| NRBP1  | pp | TSC22D4 |
| PSMD14 | pp | PSMB2   |
| PSMD14 | pp | PSMA1   |
| PSMD14 | pp | PSMB6   |
| PSMD14 | pp | IKBKE   |
| PSMD14 | pp | PSMB4   |
| PSMD14 | pp | PSMC2   |
| PSMD14 | pp | PSMD6   |
| PSMD14 | pp | PSMC3   |
| PSMD14 | pp | MCC     |
| PSMD14 | pp | PSMD1   |
| PSMD14 | pp | TRAF6   |
| PSMD14 | pp | PSMD2   |
| PSMD14 | pp | PSMD13  |
| PSMD14 | pp | PSMD12  |

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| PPM1G  | pp | LRPAP1   |
| PPM1G  | pp | TRAF6    |
| GCA    | pp | LCP1     |
| PCGF1  | pp | CALCOCO2 |
| SPTBN1 | pp | NF2      |
| POLE4  | pp | POLE3    |
| ACADL  | pp | HADHB    |
| FN1    | pp | IGFBP3   |
| FN1    | pp | ITGB1    |
| FN1    | pp | ITGA5    |
| STAT1  | pp | NMI      |
| STAT1  | pp | IL2RG    |
| STAT1  | pp | STAT3    |
| STAT1  | pp | PTK2     |
| STAT1  | pp | STAT2    |
| STAT1  | pp | PTP4A3   |
| STAT1  | pp | SRC      |
| STAT1  | pp | GSTK1    |
| STAT1  | pp | GNB2L1   |
| GLS    | pp | SAP18    |
| GLS    | pp | ARF6     |
| IGFBP2 | pp | IGF2     |
| IGFBP5 | pp | FHL2     |
| IGFBP5 | pp | PNO1     |
| IGFBP5 | pp | SPP1     |
| IGFBP5 | pp | IGF2     |
| IGFBP5 | pp | BAT3     |
| EFHD1  | pp | FBXO11   |
| SF3B1  | pp | SFRS7    |
| SF3B1  | pp | SFRS11   |
| SF3B1  | pp | PPP1R8   |
| SF3B1  | pp | SMNDC1   |
| SF3B1  | pp | SNRPD2   |
| SF3B1  | pp | SNRPB    |
| SF3B1  | pp | SNRPB2   |
| SF3B1  | pp | DHX9     |
| SF3B1  | pp | PRPF4    |
| SF3B1  | pp | NCBP1    |
| SF3B1  | pp | SNRPF    |
| SF3B1  | pp | TXNL4A   |
| SF3B1  | pp | IKBKE    |
| SF3B1  | pp | PCF11    |
| SF3B1  | pp | ARF6     |
| SF3B1  | pp | CPSF2    |
| SF3B1  | pp | SNRPD1   |
| SF3B1  | pp | CDC40    |
| SF3B1  | pp | SF3B5    |

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| SF3B1    | pp | YWHAG    |
| SF3B1    | pp | HDAC3    |
| SF3B1    | pp | SF3B3    |
| SF3B1    | pp | RNPS1    |
| MOBK13   | pp | STK11    |
| MOBK13   | pp | ELK1     |
| MOBK13   | pp | PAICS    |
| MOBK13   | pp | MED10    |
| MOBK13   | pp | PLEKHM1  |
| MOBK13   | pp | SETDB1   |
| MOBK13   | pp | FADD     |
| MOBK13   | pp | EGLN2    |
| MOBK13   | pp | ARHGEF15 |
| VPS24    | pp | SMAD1    |
| FHL2     | pp | ITGA7    |
| FHL2     | pp | PSEN2    |
| FHL2     | pp | TTN      |
| FHL2     | pp | MCM7     |
| FHL2     | pp | AR       |
| FHL2     | pp | FHL3     |
| ID2      | pp | MSC      |
| ID2      | pp | TCF4     |
| HPCAL1   | pp | HMG20A   |
| ODC1     | pp | OAZ2     |
| BIRC6    | pp | DIABLO   |
| GORASP2  | pp | NQO2     |
| GORASP2  | pp | RAB1A    |
| GORASP2  | pp | PCBD1    |
| GORASP2  | pp | TSC22D4  |
| GORASP2  | pp | GOLGA2   |
| STRN     | pp | GNAI1    |
| STRN     | pp | MCC      |
| SLC25A12 | pp | PELO     |
| SLC25A12 | pp | PHLDA3   |
| SFRS7    | pp | SFRS11   |
| SFRS7    | pp | SNRPD2   |
| SFRS7    | pp | SNRPB    |
| SFRS7    | pp | SNRPB2   |
| SFRS7    | pp | HNRNPR   |
| SFRS7    | pp | DHX9     |
| SFRS7    | pp | PRPF4    |
| SFRS7    | pp | NCBP1    |
| SFRS7    | pp | SNRPF    |
| SFRS7    | pp | SF3B4    |
| SFRS7    | pp | DUSP11   |
| SFRS7    | pp | SFRS12   |
| SFRS7    | pp | U2AF1    |



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| SFRS7  | pp | NXF1     |
| SFRS7  | pp | PCF11    |
| SFRS7  | pp | CPSF2    |
| SFRS7  | pp | SNRPD1   |
| SFRS7  | pp | CDC40    |
| SFRS7  | pp | CD2BP2   |
| SFRS7  | pp | SF3B5    |
| SFRS7  | pp | CLP1     |
| SFRS7  | pp | HNRNPA0  |
| SFRS7  | pp | SF3A3    |
| SFRS7  | pp | SF3B3    |
| SFRS7  | pp | RNPS1    |
| SDC1   | pp | CCL5     |
| SOS1   | pp | KRAS     |
| SOS1   | pp | NCK1     |
| SOS1   | pp | SHC1     |
| SOS1   | pp | CRK      |
| SOS1   | pp | HRAS     |
| SOS1   | pp | GRB2     |
| WIPF1  | pp | NCK1     |
| WIPF1  | pp | ACTC1    |
| PNO1   | pp | ATP5C1   |
| ORC4L  | pp | RPA2     |
| ORC4L  | pp | CDK2     |
| ORC4L  | pp | RPA1     |
| ORC4L  | pp | CDKN2A   |
| ORC4L  | pp | ORC5L    |
| ORC4L  | pp | MCM7     |
| ATF2   | pp | SMAD4    |
| ATF2   | pp | SMAD3    |
| ATF2   | pp | JUN      |
| ATF2   | pp | MAPK11   |
| TIA1   | pp | FASTK    |
| EPAS1  | pp | ARNT     |
| EPAS1  | pp | SMAD3    |
| NFE2L2 | pp | ATF4     |
| NFE2L2 | pp | PPARG    |
| NFE2L2 | pp | CASP3    |
| NFE2L2 | pp | EIF2AK3  |
| NFE2L2 | pp | MAFG     |
| EPHA4  | pp | ARHGEF15 |
| MARK1  | pp | YWHAG    |
| CACYBP | pp | S100B    |
| CACYBP | pp | S100A1   |
| CACYBP | pp | SIAH1    |
| CACYBP | pp | S100A6   |
| SCP2   | pp | ACOX1    |

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| SCP2   | pp | ACAA2     |
| RPL22  | pp | CSE1L     |
| RPL22  | pp | RPL27     |
| RPL22  | pp | RPL35     |
| RPL22  | pp | RPL11     |
| RPL22  | pp | IKBKE     |
| RPL22  | pp | RPS27A    |
| RPL22  | pp | RPL37     |
| RPL22  | pp | FAU       |
| RPL22  | pp | RPL30     |
| RPL22  | pp | RPL27A    |
| RPL22  | pp | RPL38     |
| RPL22  | pp | RPL15     |
| RPL22  | pp | RPL35A    |
| RPL22  | pp | RPL37A    |
| RPL22  | pp | RPL10A    |
| STXBP3 | pp | PRKCA     |
| SFRS4  | pp | HNRNPA2B1 |
| SFRS4  | pp | SFRS6     |
| SFRS4  | pp | SNRPD2    |
| SFRS4  | pp | SNRPB     |
| SFRS4  | pp | HNRNPA1   |
| SFRS4  | pp | DHX9      |
| SFRS4  | pp | NCBP1     |
| SFRS4  | pp | HNRNPU    |
| SFRS4  | pp | SFRS12    |
| SFRS4  | pp | CDC40     |
| SFRS4  | pp | CD2BP2    |
| SFRS4  | pp | PCBP1     |
| SFRS4  | pp | YWHAG     |
| SFRS4  | pp | SF3B3     |
| SFRS4  | pp | PCBP2     |
| SFRS4  | pp | RNPS1     |
| WDR77  | pp | SNRPD2    |
| WDR77  | pp | SNRPB     |
| WDR77  | pp | SNRPF     |
| WDR77  | pp | SNRPD1    |
| ATP5F1 | pp | ATP5E     |
| ATP5F1 | pp | IKBKE     |
| ATP5F1 | pp | ATP5A1    |
| ATP5F1 | pp | ATP5J     |
| ATP5F1 | pp | ATP5L     |
| ATP5F1 | pp | ATP5I     |
| ATP5F1 | pp | TRAF6     |
| RAP1A  | pp | RAF1      |
| RAP1A  | pp | RAP1GDS1  |
| RAP1A  | pp | RALGDS    |

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| RAP1A    | pp | RGS14      |
| RAP1A    | pp | TRAF6      |
| CAPZA1   | pp | IKBKE      |
| CAPZA1   | pp | MCC        |
| CAPZA1   | pp | TRAF6      |
| SCAMP3   | pp | EGFR       |
| SFPQ     | pp | RPS27A     |
| SFPQ     | pp | NONO       |
| SFPQ     | pp | SFRS12     |
| SFPQ     | pp | HN1        |
| SFPQ     | pp | TOP1       |
| ARHGEF2  | pp | RAC1       |
| ARHGEF2  | pp | YWHAG      |
| SRM      | pp | IKBKE      |
| MAD2L2   | pp | ADAM9      |
| LEPR     | pp | APOD       |
| LEPR     | pp | SNX2       |
| IVNS1ABP | pp | CHD3       |
| GADD45A  | pp | CDKN1A     |
| GADD45A  | pp | PCNA       |
| GADD45A  | pp | DCTN2      |
| GADD45A  | pp | GADD45GIP1 |
| GADD45A  | pp | RXRA       |
| GADD45A  | pp | PPARA      |
| PRDM2    | pp | RB1        |
| RGS2     | pp | COPB1      |
| RGS2     | pp | PRKCSH     |
| RGS2     | pp | WDR74      |
| RGS2     | pp | CTSB       |
| RGS2     | pp | NIPSNAP1   |
| RGS2     | pp | COPB2      |
| RGS2     | pp | PARK2      |
| BCAS2    | pp | MCC        |
| SFRS11   | pp | HNRNPR     |
| SFRS11   | pp | DHX9       |
| SFRS11   | pp | SFRS1      |
| SFRS11   | pp | NCBP1      |
| SFRS11   | pp | SF3B4      |
| SFRS11   | pp | PCF11      |
| SFRS11   | pp | CPSF2      |
| SFRS11   | pp | CDC40      |
| SFRS11   | pp | CD2BP2     |
| SFRS11   | pp | SF3B5      |
| SFRS11   | pp | YWHAG      |
| SFRS11   | pp | CLP1       |
| SFRS11   | pp | HNRNPA0    |
| SFRS11   | pp | PUF60      |

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| SFRS11  | pp | SF3A3    |
| SFRS11  | pp | SF3B3    |
| SFRS11  | pp | RNPS1    |
| OLFML3  | pp | CKMT2    |
| OLFML3  | pp | SETDB1   |
| OLFML3  | pp | FEZ1     |
| PLEKHM2 | pp | SLC39A1  |
| CRYZ    | pp | IKBKE    |
| CRYZ    | pp | MCC      |
| ZBTB17  | pp | MYC      |
| ZBTB17  | pp | HK2      |
| ZBTB17  | pp | HCFC1    |
| MAP7D1  | pp | COPS6    |
| TSNAX   | pp | IKBKE    |
| TSNAX   | pp | PBXIP1   |
| TSNAX   | pp | MRFAP1L1 |
| TSNAX   | pp | TSN      |
| RRAGC   | pp | RRAGA    |
| LGALS8  | pp | CALCOCO2 |
| LGALS8  | pp | ITGB1    |
| LPHN2   | pp | SHANK2   |
| SDHB    | pp | IKBKE    |
| SDHB    | pp | MCC      |
| MFAP2   | pp | BGN      |
| IGSF21  | pp | MAD2L1BP |
| IGSF21  | pp | PRMT1    |
| IGSF21  | pp | BTBD2    |
| IGSF21  | pp | ANXA3    |
| IGSF21  | pp | S100A8   |
| IGSF21  | pp | ATF3     |
| IGSF21  | pp | RPP14    |
| IGSF21  | pp | GSTM4    |
| IGSF21  | pp | SERPINB9 |
| TXNIP   | pp | TXN      |
| TXNIP   | pp | TXNRD1   |
| ID3     | pp | TCF4     |
| CD46    | pp | ITGB1    |
| CD46    | pp | SRC      |
| SLC2A1  | pp | CANX     |
| SLC2A1  | pp | STOM     |
| SLC2A1  | pp | COPS6    |
| SLC2A1  | pp | CALR     |
| AKR1A1  | pp | EXOSC4   |
| PRDX1   | pp | PRDX4    |
| PRDX1   | pp | IRF3     |
| PIK3R3  | pp | RB1      |
| PIK3R3  | pp | IGF1R    |

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| PIK3R3  | pp | DRAP1   |
| DR1     | pp | POLE3   |
| DR1     | pp | NFIL3   |
| DR1     | pp | DRAP1   |
| ABCD3   | pp | PELO    |
| ABCD3   | pp | PEX19   |
| ABCD3   | pp | ABCD2   |
| ABCD3   | pp | PTP4A3  |
| VAMP4   | pp | STX16   |
| VAMP4   | pp | STX6    |
| PTBP2   | pp | PCBP3   |
| C1orf63 | pp | CLK3    |
| RPS6KA1 | pp | CREB1   |
| RPS6KA1 | pp | YWHAB   |
| DHDDS   | pp | NPC2    |
| ARID1A  | pp | SMARCA4 |
| RPA2    | pp | RAD23B  |
| RPA2    | pp | PRKDC   |
| RPA2    | pp | CDK2    |
| RPA2    | pp | RPA1    |
| RPA2    | pp | PCNA    |
| RPA2    | pp | CCNH    |
| RPA2    | pp | ERCC5   |
| RPA2    | pp | GOLM1   |
| RPA2    | pp | UTP14A  |
| RPA2    | pp | ERCC3   |
| RPA2    | pp | ORC5L   |
| RPA2    | pp | MCM7    |
| RPA2    | pp | SERTAD3 |
| RPA2    | pp | DDB1    |
| RPA2    | pp | COPS6   |
| RPA2    | pp | STAT3   |
| RPA2    | pp | ATR     |
| RPA2    | pp | ERCC4   |
| RPA2    | pp | TLE1    |
| PPP1R8  | pp | C14orf1 |
| PPP1R8  | pp | SETDB1  |
| PPP1R8  | pp | GBP2    |
| RCN2    | pp | TRAF6   |
| RCN2    | pp | BAT3    |
| CTSD    | pp | PSAP    |
| STAG1   | pp | RAD21   |
| STK11   | pp | CAB39   |
| STK11   | pp | TP53    |
| MLL     | pp | SET     |
| CREB1   | pp | C14orf1 |
| CREB1   | pp | RAB1A   |

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| CREB1   | pp | HPS6    |
| CREB1   | pp | CHD3    |
| CREB1   | pp | CEBPB   |
| KLF7    | pp | FBXO38  |
| TNFAIP3 | pp | YWHAH   |
| TNFAIP3 | pp | YWHAB   |
| TNFAIP3 | pp | TRAF6   |
| MED28   | pp | MED9    |
| MED28   | pp | MED8    |
| MED28   | pp | GRB2    |
| MED28   | pp | NF2     |
| RPN2    | pp | SAP18   |
| RPN2    | pp | TNIK    |
| RPN2    | pp | ARF6    |
| RPN2    | pp | PHLDA3  |
| RPN2    | pp | GSTK1   |
| PKD2    | pp | TRPC1   |
| SPP1    | pp | CTNBL1  |
| SPP1    | pp | ITGAV   |
| SPP1    | pp | ITGB1   |
| SPP1    | pp | ABCF3   |
| SPP1    | pp | ITGA5   |
| SPP1    | pp | PDLIM7  |
| CCND2   | pp | CDKN1A  |
| CCND2   | pp | CDK5    |
| CCND2   | pp | TFDP1   |
| NDUFB3  | pp | ATP5C1  |
| GTF3C3  | pp | POLR3F  |
| GTF3C3  | pp | CIAO1   |
| GTF3C3  | pp | BRF1    |
| GTF3C3  | pp | GSTK1   |
| UBE2B   | pp | UBR1    |
| TJP2    | pp | YWHAQ   |
| TJP2    | pp | SAFB    |
| TJP2    | pp | YWHAB   |
| TJP2    | pp | YWHAG   |
| TJP2    | pp | TRAF6   |
| RAD23B  | pp | RPA1    |
| RAD23B  | pp | TDG     |
| RAD23B  | pp | CETN2   |
| RAD23B  | pp | ERCC3   |
| RAD23B  | pp | DDB1    |
| CTNNAL1 | pp | AKAP13  |
| SET     | pp | CDKN1A  |
| SET     | pp | PPP2R1B |
| SET     | pp | BCAR3   |
| SET     | pp | IKBKE   |

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| SET       | pp | TNIK     |
| SET       | pp | HMGB2    |
| SET       | pp | CDK5     |
| SET       | pp | TRAF6    |
| SET       | pp | THAP7    |
| PPP2R4    | pp | CCNG2    |
| RAB14     | pp | IKBKE    |
| TRIM32    | pp | ATXN1    |
| TRIM32    | pp | UBQLN1   |
| NEK6      | pp | NEK9     |
| NEK6      | pp | EML2     |
| NEK6      | pp | LRPPRC   |
| NEK6      | pp | UCK2     |
| NEK6      | pp | EML4     |
| NEK6      | pp | NEK7     |
| NEK6      | pp | WEE1     |
| NEK6      | pp | MCM7     |
| NEK6      | pp | SLC3A2   |
| NEK6      | pp | PSMD2    |
| NEK6      | pp | IPO4     |
| NEK6      | pp | MYO1C    |
| PPP6C     | pp | NFKBIE   |
| PPP6C     | pp | PPP4C    |
| MAPKAP1   | pp | CDC42EP1 |
| MAPKAP1   | pp | YWHAG    |
| C19orf25  | pp | CCDC85B  |
| YLPM1     | pp | PRMT1    |
| YLPM1     | pp | BMP1     |
| ABCD4     | pp | TMEM66   |
| ABCD4     | pp | PEA15    |
| ABCD4     | pp | XRCC6    |
| TGFB3     | pp | ACVRL1   |
| TGFB3     | pp | TGFBR2   |
| C14orf156 | pp | TRAF6    |
| RBM25     | pp | RNPS1    |
| EIF2B2    | pp | EIF2S1   |
| EIF2B2    | pp | EIF2B5   |
| EIF2B2    | pp | NCK1     |
| EIF2B2    | pp | CCT3     |
| RHOQ      | pp | TRIP10   |
| RHOQ      | pp | CDC42EP2 |
| RHOQ      | pp | CDC42EP3 |
| IFIT3     | pp | IFIT2    |
| CUTC      | pp | NUDT18   |
| CUTC      | pp | NIF3L1   |
| MXI1      | pp | MAX      |
| SMNDC1    | pp | SNRPB    |

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| SMNDC1   | pp | SF3B4    |
| SMNDC1   | pp | MAPKAPK2 |
| SMNDC1   | pp | DDX21    |
| SMNDC1   | pp | SF3A3    |
| SMNDC1   | pp | SF3B3    |
| SMNDC1   | pp | TRRAP    |
| SMNDC1   | pp | ITSN1    |
| C10orf88 | pp | IMMT     |
| C10orf88 | pp | CLTC     |
| GOT1     | pp | TNIK     |
| GOT1     | pp | TMEM120A |
| KIAA1267 | pp | PSME3    |
| KIAA1267 | pp | CALCOCO2 |
| KIAA1267 | pp | CCDC85B  |
| DUSP1    | pp | RPS27A   |
| TEK      | pp | PIK3R1   |
| TEK      | pp | ANGPT1   |
| TEK      | pp | GRB2     |
| TEK      | pp | PTPN11   |
| TEK      | pp | SOCS1    |
| C9orf82  | pp | MYST2    |
| PCMT1    | pp | IKBKE    |
| PCMT1    | pp | TNIK     |
| PCMT1    | pp | CHD3     |
| PCMT1    | pp | MCC      |
| PCMT1    | pp | TRAF6    |
| PCMT1    | pp | PAK2     |
| MRPS14   | pp | IKBKE    |
| TCP1     | pp | PDCL     |
| TAF12    | pp | TAF4     |
| TAF12    | pp | TAF1     |
| TAF12    | pp | TAF10    |
| TAF12    | pp | TAF7     |
| TAF12    | pp | POLR2A   |
| ENOX1    | pp | EEF1G    |
| ENOX1    | pp | NIF3L1   |
| ELF1     | pp | NFYB     |
| ELF1     | pp | RB1      |
| HSPH1    | pp | TUBA4A   |
| HSPH1    | pp | CHD3     |
| EXOSC8   | pp | EXOSC9   |
| ETF1     | pp | RPL27    |
| ETF1     | pp | IKBKE    |
| ETF1     | pp | RPS3     |
| ETF1     | pp | TRAF6    |
| ETF1     | pp | GSPT2    |
| EGR1     | pp | NAB1     |



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| TMPO      | pp | RB1      |
| ARL1      | pp | GOLGA4   |
| ARL1      | pp | PHLDA3   |
| ARL1      | pp | GSTK1    |
| SOCS2     | pp | IGF1R    |
| SOCS2     | pp | PTK2     |
| SOCS2     | pp | EPOR     |
| NFYB      | pp | MYC      |
| NFYB      | pp | DRAP1    |
| CCDC53    | pp | HSBP1    |
| APAF1     | pp | APIP     |
| APAF1     | pp | BCL2L1   |
| CLU       | pp | TGFBR2   |
| CLU       | pp | XRCC6    |
| TNFRSF10B | pp | TNFSF10  |
| TNFRSF10B | pp | FADD     |
| SORBS3    | pp | DLG5     |
| TARDBP    | pp | SETDB1   |
| TARDBP    | pp | TNFRSF14 |
| TARDBP    | pp | ZHX1     |
| TARDBP    | pp | ARF6     |
| TNFRSF8   | pp | TRAF3    |
| LYPLA1    | pp | IKBKE    |
| COPS5     | pp | GFER     |
| COPS5     | pp | TXN      |
| COPS5     | pp | COPS4    |
| COPS5     | pp | SMAD4    |
| COPS5     | pp | UCHL1    |
| COPS5     | pp | COPS6    |
| PRKDC     | pp | RPA1     |
| PRKDC     | pp | PCNA     |
| PRKDC     | pp | ILF2     |
| PRKDC     | pp | DCLRE1C  |
| PRKDC     | pp | LIG4     |
| PRKDC     | pp | CIB1     |
| PRKDC     | pp | XRCC6    |
| AKAP1     | pp | PRKAR1B  |
| TRIM25    | pp | SFN      |
| SPOP      | pp | RTN3     |
| SPOP      | pp | DOK2     |
| SPOP      | pp | MYD88    |
| SPOP      | pp | DDIT3    |
| SPOP      | pp | GDI1     |
| DYNLL2    | pp | DYNC111  |
| BCL2L14   | pp | BCL2L1   |
| CSTA      | pp | CTSL1    |
| CSTA      | pp | CTSB     |

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| MAPK8IP1 | pp | LRP1    |
| MAPK8IP1 | pp | APP     |
| PEX16    | pp | PEX19   |
| ZMYM2    | pp | SMAD3   |
| TBC1D15  | pp | PTP4A3  |
| FABP3    | pp | VPS28   |
| KHDRBS1  | pp | PLCG1   |
| KHDRBS1  | pp | EMG1    |
| KHDRBS1  | pp | PIK3R1  |
| KHDRBS1  | pp | RASA1   |
| KHDRBS1  | pp | LYN     |
| KHDRBS1  | pp | STAT3   |
| KHDRBS1  | pp | INSR    |
| KHDRBS1  | pp | GRB2    |
| KHDRBS1  | pp | SRC     |
| PIK3CA   | pp | PIK3R1  |
| PIK3CA   | pp | IRS2    |
| GPSM2    | pp | GNAI1   |
| GPSM2    | pp | NUMA1   |
| ACVR2A   | pp | ACVRL1  |
| GTF3A    | pp | BRF1    |
| OCRL     | pp | RAC1    |
| COPA     | pp | COPB1   |
| COPA     | pp | COPB2   |
| ANXA11   | pp | PLSCR1  |
| ANXA11   | pp | S100A6  |
| ZMIZ2    | pp | SALL2   |
| 7-Sep    | pp | 11-Sep  |
| 7-Sep    | pp | 9-Sep   |
| CBX3     | pp | TRIM28  |
| CBX3     | pp | PIM1    |
| CBX3     | pp | LBR     |
| HNRNPA2B | pp | SFRS6   |
| HNRNPA2B | pp | SNRPB2  |
| HNRNPA2B | pp | HNRNPR  |
| HNRNPA2B | pp | HNRNPA1 |
| HNRNPA2B | pp | DHX9    |
| HNRNPA2B | pp | SFRS1   |
| HNRNPA2B | pp | SF3B4   |
| HNRNPA2B | pp | HNRNPU  |
| HNRNPA2B | pp | SFRS12  |
| HNRNPA2B | pp | U2AF1   |
| HNRNPA2B | pp | PCF11   |
| HNRNPA2B | pp | CPSF2   |
| HNRNPA2B | pp | CDC40   |
| HNRNPA2B | pp | CD2BP2  |
| HNRNPA2B | pp | SF3B5   |

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| HNRNPA2B | pp | CLP1     |
| HNRNPA2B | pp | SF3A3    |
| HNRNPA2B | pp | SF3B3    |
| RAMP3    | pp | PDCD6IP  |
| CLTA     | pp | CLTC     |
| CLTA     | pp | EGFR     |
| CNTFR    | pp | PLSCR1   |
| CALD1    | pp | SHC1     |
| CALD1    | pp | GRB2     |
| PLAU     | pp | SERPINB6 |
| CDKN2C   | pp | CCDC90B  |
| CDKN2C   | pp | TP53     |
| CDKN2C   | pp | COPS6    |
| CDKN2C   | pp | DRAP1    |
| CDKN2C   | pp | TLE1     |
| RNF11    | pp | OPTN     |
| RNF11    | pp | STAMBP   |
| RNF11    | pp | UBE2D2   |
| RNF11    | pp | CALCOCO2 |
| RNF11    | pp | RPS27A   |
| RNF11    | pp | TNIP1    |
| RNF11    | pp | ZFYVE9   |
| RNF11    | pp | CCDC127  |
| RNF11    | pp | PDCD6IP  |
| RNF11    | pp | QARS     |
| RNF11    | pp | WWP2     |
| GIPC1    | pp | LRP1     |
| GIPC1    | pp | SDC4     |
| GIPC1    | pp | TPBG     |
| GIPC1    | pp | NTRK2    |
| ATP7B    | pp | ATOX1    |
| OPTN     | pp | RAB8A    |
| PFDN5    | pp | MYC      |
| PFDN5    | pp | IKBKE    |
| PFDN5    | pp | PFDN6    |
| CDK2     | pp | CDKN1A   |
| CDK2     | pp | NEDD8    |
| CDK2     | pp | UBE2M    |
| CDK2     | pp | RPA1     |
| CDK2     | pp | PCNA     |
| CDK2     | pp | SORT1    |
| CDK2     | pp | CCNH     |
| CDK2     | pp | ATIC     |
| CDK2     | pp | RB1      |
| CDK2     | pp | S100A8   |
| CDK2     | pp | SKP2     |
| CDK2     | pp | MSN      |

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| CDK2     | pp | OGT      |
| CDK2     | pp | UHRF2    |
| CDK2     | pp | TAGLN2   |
| CDK2     | pp | ORC5L    |
| CDK2     | pp | WEE1     |
| CDK2     | pp | MCM7     |
| CDK2     | pp | SMAD3    |
| CDK2     | pp | TBCA     |
| CDK2     | pp | PTP4A3   |
| CDK2     | pp | CASP4    |
| CDK2     | pp | GSTK1    |
| CDK2     | pp | CNOT7    |
| LRP1     | pp | APBB1    |
| LRP1     | pp | YWHAG    |
| LRP1     | pp | A2M      |
| SMUG1    | pp | RBPMS    |
| KBTBD4   | pp | MPP3     |
| MORF4L2  | pp | MPDU1    |
| MORF4L2  | pp | RB1      |
| MORF4L2  | pp | PITPNA   |
| RAB9A    | pp | RABEPK   |
| NMI      | pp | PSMA1    |
| NMI      | pp | LSM4     |
| NMI      | pp | MYC      |
| NMI      | pp | EMILIN1  |
| NMI      | pp | NECAP2   |
| NMI      | pp | STAT6    |
| NMI      | pp | STAT3    |
| NMI      | pp | STAT5B   |
| NMI      | pp | SNAPC5   |
| NMI      | pp | HGS      |
| NMI      | pp | HHLA3    |
| BAZ2B    | pp | CTBP2    |
| KCNJ2    | pp | FLNA     |
| EXOSC9   | pp | EXOSC4   |
| PFKFB2   | pp | YWHAG    |
| MXD4     | pp | MAX      |
| DNPEP    | pp | SAT1     |
| DNPEP    | pp | AGT      |
| DNPEP    | pp | DBNL     |
| DNPEP    | pp | ADAMTSL4 |
| DNPEP    | pp | PADI4    |
| C16orf48 | pp | CALCOCO2 |
| C16orf48 | pp | RBPMS    |
| C16orf48 | pp | TSC22D4  |
| C16orf48 | pp | PLSCR1   |
| C16orf48 | pp | PDLIM7   |

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| NCOA3    | pp | RXRA     |
| PIGT     | pp | PIGK     |
| PIGT     | pp | GPAA1    |
| VAPB     | pp | VAMP2    |
| ATP5E    | pp | ATP5A1   |
| ATP5E    | pp | ATP5J    |
| ATP5E    | pp | ATP5L    |
| ATP5E    | pp | ATP5I    |
| PLCG1    | pp | PDGFRA   |
| PLCG1    | pp | VAV1     |
| PLCG1    | pp | EGFR     |
| PLCG1    | pp | AXL      |
| PLCG1    | pp | GRB2     |
| SFRS6    | pp | SNRPD2   |
| SFRS6    | pp | YWHAQ    |
| SFRS6    | pp | HNRNPA1  |
| SFRS6    | pp | DHX9     |
| SFRS6    | pp | NCBP1    |
| SFRS6    | pp | HNRNPU   |
| SFRS6    | pp | SFRS12   |
| SFRS6    | pp | SNRPD1   |
| SFRS6    | pp | CDC40    |
| SFRS6    | pp | CD2BP2   |
| SFRS6    | pp | PCBP1    |
| SFRS6    | pp | YWHAG    |
| SFRS6    | pp | PCBP2    |
| SFRS6    | pp | RNPS1    |
| RAB22A   | pp | APPL2    |
| STAU1    | pp | DHX9     |
| STAU1    | pp | RPS6     |
| STAU1    | pp | HNRNPU   |
| STX16    | pp | STX6     |
| STX16    | pp | VPS45    |
| STAMBP   | pp | STAM     |
| USP22    | pp | MRPL10   |
| MAD2L1BP | pp | TP53     |
| MAD2L1BP | pp | SETDB1   |
| CDKN1A   | pp | PCNA     |
| CDKN1A   | pp | RAB1A    |
| CDKN1A   | pp | RB1      |
| CDKN1A   | pp | C1orf123 |
| CDKN1A   | pp | TTL10    |
| CDKN1A   | pp | TK1      |
| CDKN1A   | pp | STAT3    |
| CDKN1A   | pp | GNB2L1   |
| SOX4     | pp | SDCBP    |
| SSR1     | pp | IKBKE    |

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| SSR1     | pp | UTP14A   |
| SSR1     | pp | PTP4A3   |
| ATXN1    | pp | TBC1D5   |
| ATXN1    | pp | RBPMS    |
| ATXN1    | pp | FAM46B   |
| ATXN1    | pp | ZHX1     |
| ATXN1    | pp | METT11D1 |
| ATXN1    | pp | NUDT21   |
| ATXN1    | pp | CRK      |
| ATXN1    | pp | C17orf81 |
| ATXN1    | pp | DAZAP2   |
| ATXN1    | pp | BAT2     |
| ATXN1    | pp | ATXN2    |
| NUP153   | pp | XPO7     |
| NUP153   | pp | RANBP2   |
| LRRFIP1  | pp | FLII     |
| CNOT1    | pp | CNOT8    |
| BBS2     | pp | PSME3    |
| GOT2     | pp | MDH2     |
| GOT2     | pp | THOC7    |
| RAP2A    | pp | RALGDS   |
| UPF3B    | pp | UPF2     |
| UPF3B    | pp | EXOSC4   |
| NDUFA1   | pp | GOLGB1   |
| SOX9     | pp | MAF      |
| GGA3     | pp | ARF1     |
| GGA3     | pp | RPS27A   |
| NUP85    | pp | TUBG1    |
| NUP85    | pp | EEF1G    |
| MIF4GD   | pp | DDX19A   |
| MIF4GD   | pp | HGS      |
| TTF1     | pp | PTRF     |
| GTF3C4   | pp | POLR3F   |
| GTF3C4   | pp | BRF1     |
| PPP1R12C | pp | PAFAH1B2 |
| PPP1R12C | pp | IL16     |
| POLR1B   | pp | POLR1E   |
| POLR1B   | pp | POLR2H   |
| POLR1B   | pp | POLR1C   |
| POLR1B   | pp | POLR1D   |
| GTF2F1   | pp | GTF2B    |
| GTF2F1   | pp | GTF2A2   |
| GTF2F1   | pp | CTDSP1   |
| GTF2F1   | pp | TAF1     |
| GTF2F1   | pp | FEZ1     |
| GTF2F1   | pp | GTF2E1   |
| GTF2F1   | pp | TCEB1    |

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| GTF2F1 | pp | PSMC2    |
| GTF2F1 | pp | METTL3   |
| GTF2F1 | pp | AR       |
| GTF2F1 | pp | POLR2A   |
| GTF2F1 | pp | WHSC2    |
| GTF2F1 | pp | GTF2E2   |
| CLPP   | pp | SAP18    |
| MED1   | pp | THRA     |
| MED1   | pp | PPARG    |
| MED1   | pp | MED9     |
| MED1   | pp | TP53     |
| MED1   | pp | MED14    |
| C3     | pp | C2       |
| TRIP10 | pp | ARHGAP17 |
| TRIP10 | pp | RXRA     |
| SNRPD2 | pp | SNRPB    |
| SNRPD2 | pp | HNRNPR   |
| SNRPD2 | pp | DHX9     |
| SNRPD2 | pp | PRPF4    |
| SNRPD2 | pp | NCBP1    |
| SNRPD2 | pp | SNRPF    |
| SNRPD2 | pp | TXNL4A   |
| SNRPD2 | pp | GEMIN7   |
| SNRPD2 | pp | SF3B4    |
| SNRPD2 | pp | EPB49    |
| SNRPD2 | pp | U2AF1    |
| SNRPD2 | pp | LSM6     |
| SNRPD2 | pp | PCF11    |
| SNRPD2 | pp | CPSF2    |
| SNRPD2 | pp | SNRPD1   |
| SNRPD2 | pp | CDC40    |
| SNRPD2 | pp | CD2BP2   |
| SNRPD2 | pp | SF3B5    |
| SNRPD2 | pp | CLP1     |
| SNRPD2 | pp | HNRNPA0  |
| SNRPD2 | pp | GEMIN4   |
| SNRPD2 | pp | SF3A3    |
| SNRPD2 | pp | EEF1G    |
| SNRPD2 | pp | SF3B3    |
| VASP   | pp | TES      |
| VASP   | pp | ZYX      |
| VASP   | pp | XPO6     |
| VASP   | pp | PLSCR1   |
| VASP   | pp | WWP2     |
| PSMF1  | pp | KHDRBS3  |
| PSMF1  | pp | NUDT21   |
| PSMF1  | pp | CTBP2    |

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| PSMF1  | pp | CCDC85B |
| SNRPB  | pp | SNRPB2  |
| SNRPB  | pp | HNRNPR  |
| SNRPB  | pp | C14orf1 |
| SNRPB  | pp | DHX9    |
| SNRPB  | pp | PRPF4   |
| SNRPB  | pp | NCBP1   |
| SNRPB  | pp | SNRPF   |
| SNRPB  | pp | GEMIN7  |
| SNRPB  | pp | SF3B4   |
| SNRPB  | pp | U2AF1   |
| SNRPB  | pp | SLBP    |
| SNRPB  | pp | PCF11   |
| SNRPB  | pp | CPSF2   |
| SNRPB  | pp | SNRPD1  |
| SNRPB  | pp | CDC40   |
| SNRPB  | pp | CD2BP2  |
| SNRPB  | pp | SF3B5   |
| SNRPB  | pp | CLP1    |
| SNRPB  | pp | PRPF8   |
| SNRPB  | pp | HNRNPA0 |
| SNRPB  | pp | GEMIN4  |
| SNRPB  | pp | LSM10   |
| SNRPB  | pp | SF3A3   |
| SNRPB  | pp | SF3B3   |
| NRSN2  | pp | GOLM1   |
| DSTN   | pp | IKBKE   |
| DSTN   | pp | TNIK    |
| DSTN   | pp | ACTG1   |
| SNRPB2 | pp | HNRNPA1 |
| SNRPB2 | pp | DHX9    |
| SNRPB2 | pp | NCBP1   |
| SNRPB2 | pp | SNRPF   |
| SNRPB2 | pp | TXNL4A  |
| SNRPB2 | pp | SF3B4   |
| SNRPB2 | pp | IKBKE   |
| SNRPB2 | pp | SMYD2   |
| SNRPB2 | pp | HNRNPU  |
| SNRPB2 | pp | TNIK    |
| SNRPB2 | pp | U2AF1   |
| SNRPB2 | pp | PCF11   |
| SNRPB2 | pp | CPSF2   |
| SNRPB2 | pp | CDC40   |
| SNRPB2 | pp | CD2BP2  |
| SNRPB2 | pp | PCBP1   |
| SNRPB2 | pp | SF3B5   |
| SNRPB2 | pp | MCC     |



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| SNRPB2  | pp | CLP1     |
| SNRPB2  | pp | SF3A3    |
| SNRPB2  | pp | SF3B3    |
| SNRPB2  | pp | PCBP2    |
| SNRPB2  | pp | RNPS1    |
| HNRNPR  | pp | PRMT1    |
| HNRNPR  | pp | HNRNPA1  |
| HNRNPR  | pp | DHX9     |
| HNRNPR  | pp | PRPF4    |
| HNRNPR  | pp | NCBP1    |
| HNRNPR  | pp | SNRPF    |
| HNRNPR  | pp | SF3B4    |
| HNRNPR  | pp | PCF11    |
| HNRNPR  | pp | CPSF2    |
| HNRNPR  | pp | SNRPD1   |
| HNRNPR  | pp | CDC40    |
| HNRNPR  | pp | CD2BP2   |
| HNRNPR  | pp | PCBP1    |
| HNRNPR  | pp | SF3B5    |
| HNRNPR  | pp | CLP1     |
| HNRNPR  | pp | FARSA    |
| HNRNPR  | pp | SF3A3    |
| HNRNPR  | pp | SF3B3    |
| HNRNPR  | pp | PCBP2    |
| MAX     | pp | MYC      |
| MAX     | pp | SMAD4    |
| MAX     | pp | SMAD3    |
| MAX     | pp | TRRAP    |
| FNTB    | pp | FNTA     |
| FNTB    | pp | PTP4A2   |
| FNTB    | pp | PTP4A3   |
| ID1     | pp | CASK     |
| RALY    | pp | PIK3CD   |
| RALY    | pp | SPG7     |
| DYNLRB1 | pp | MPHOSPH6 |
| DYNLRB1 | pp | DYNC1I1  |
| RBM12   | pp | TBC1D4   |
| EIF6    | pp | PDHA1    |
| EIF6    | pp | BTF3     |
| EIF6    | pp | PA2G4    |
| EIF6    | pp | TUFM     |
| EIF6    | pp | ACTG1    |
| EIF6    | pp | ABCF1    |
| EIF6    | pp | GNB2L1   |
| PSMB2   | pp | PSMA1    |
| PSMB2   | pp | PSMB7    |
| PSMB2   | pp | PSMB6    |

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| PSMB2  | pp | PSMA5    |
| PSMB2  | pp | PSMB4    |
| PSMB2  | pp | PSMC2    |
| PSMB2  | pp | PSMD6    |
| PSMB2  | pp | PSMC3    |
| PSMB2  | pp | PSMD1    |
| PSMB2  | pp | PSMD2    |
| PSMB2  | pp | PSMD13   |
| PSMB2  | pp | PSMD12   |
| KLC1   | pp | MAPK8IP3 |
| KLC1   | pp | YWHAB    |
| PCID2  | pp | SHFM1    |
| RBM42  | pp | FHL3     |
| THRA   | pp | TDG      |
| THRA   | pp | PML      |
| THRA   | pp | MED21    |
| THRA   | pp | COPS2    |
| THRA   | pp | RXRA     |
| THRA   | pp | NCOA6    |
| CCR7   | pp | CCL19    |
| PRDX5  | pp | CCDC90B  |
| PRDX5  | pp | IKBKE    |
| IRF3   | pp | TICAM1   |
| IRF3   | pp | IRF5     |
| IRF3   | pp | TBK1     |
| PRMT1  | pp | ILF3     |
| PRMT1  | pp | DHX9     |
| PRMT1  | pp | IFNAR1   |
| PRMT1  | pp | S100A8   |
| SBDS   | pp | IKBKE    |
| BECN1  | pp | BCL2L1   |
| BECN1  | pp | BCL2     |
| EMG1   | pp | PSMB7    |
| EMG1   | pp | ANXA3    |
| EMG1   | pp | SLC25A38 |
| UXT    | pp | AR       |
| UXT    | pp | LSM1     |
| KTN1   | pp | IKBKE    |
| KTN1   | pp | RHOG     |
| SIX1   | pp | TLE1     |
| HSPA2  | pp | MAP3K3   |
| MAP2K2 | pp | RAF1     |
| MAP2K2 | pp | MCC      |
| CANX   | pp | PRKCSH   |
| CANX   | pp | MBTPS1   |
| CANX   | pp | ITGB1    |
| CANX   | pp | CD1D     |

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| CANX    | pp | FAM107A |
| CANX    | pp | F8      |
| IDUA    | pp | MPP3    |
| SLC35E1 | pp | ABCF3   |
| MACF1   | pp | GOLGA4  |
| MACF1   | pp | SAP18   |
| SMARCA4 | pp | SMARCC2 |
| SMARCA4 | pp | RB1     |
| SMARCA4 | pp | IKBKE   |
| SMARCA4 | pp | PBRM1   |
| SMARCA4 | pp | PHB     |
| SMARCA4 | pp | STAT2   |
| SMARCA4 | pp | FANCA   |
| SMARCA4 | pp | ARID2   |
| TICAM1  | pp | RIPK1   |
| TICAM1  | pp | TRAF6   |
| TICAM1  | pp | TBK1    |
| TUBA4A  | pp | RAC1    |
| TUBA4A  | pp | MYC     |
| TUBA4A  | pp | S100A8  |
| TUBA4A  | pp | EGFR    |
| TUBA4A  | pp | RACGAP1 |
| TUBA4A  | pp | TM4SF1  |
| TUBA4A  | pp | CALB2   |
| TUBA4A  | pp | MAGED1  |
| TUBA4A  | pp | SIAH1   |
| ECHS1   | pp | IKBKE   |
| ECHS1   | pp | TNIK    |
| ECHS1   | pp | MCC     |
| ECHS1   | pp | TRAF6   |
| ECHS1   | pp | PAK2    |
| AKAP9   | pp | CSNK1D  |
| GNG11   | pp | ZHX1    |
| PTPN12  | pp | TGFB111 |
| PTPN12  | pp | SHC1    |
| GNAI1   | pp | NUMA1   |
| GNAI1   | pp | RGS10   |
| GNAI1   | pp | RGS14   |
| GNAI1   | pp | SSTR2   |
| GNAI1   | pp | CD47    |
| SGCE    | pp | ARIH2   |
| ZFP36   | pp | YWHAH   |
| ZFP36   | pp | YWHAB   |
| ZFP36   | pp | YWHAG   |
| ZFP36   | pp | SFN     |
| PAICS   | pp | FXR2    |
| PAICS   | pp | CHD3    |

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| PAICS    | pp | MCC      |
| PAICS    | pp | NUDT18   |
| PAICS    | pp | TRAF6    |
| YWHAH    | pp | PARD3    |
| YWHAH    | pp | PRKCI    |
| YWHAH    | pp | TSC1     |
| YWHAH    | pp | GREM1    |
| YWHAH    | pp | MAP3K3   |
| GNAZ     | pp | RGS10    |
| GNAZ     | pp | ADORA1   |
| ATF4     | pp | DISC1    |
| ATF4     | pp | DDIT3    |
| ATF4     | pp | LDOC1    |
| CDC42EP1 | pp | RBPM5    |
| CDC42EP1 | pp | FHL3     |
| CDC42EP1 | pp | PLSCR1   |
| RAC2     | pp | ARFIP2   |
| RAC2     | pp | ARHGDI1  |
| RAC2     | pp | GDI1     |
| LIF      | pp | IL6ST    |
| POT1     | pp | TNKS     |
| LSM8     | pp | LSM4     |
| LSM8     | pp | LSM6     |
| LSM8     | pp | LSM3     |
| DNAJB9   | pp | RFK      |
| DNAJB9   | pp | TCEA2    |
| FLNC     | pp | FURIN    |
| FLNC     | pp | TNFAIP8  |
| FLNC     | pp | SGCD     |
| FLNC     | pp | MYOZ1    |
| MRPS12   | pp | C14orf1  |
| MYO1B    | pp | CIAO1    |
| MYO1B    | pp | PTP4A3   |
| DLL4     | pp | NOTCH1   |
| DUT      | pp | PPARG    |
| DUT      | pp | SPATA2   |
| DUT      | pp | NUDT18   |
| DUT      | pp | PPARA    |
| LOXL1    | pp | FBLN5    |
| MBD4     | pp | FADD     |
| COPB1    | pp | ARF1     |
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| PSMA1    | pp | CCNH     |
| PSMA1    | pp | CALCOCO2 |
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| PSMA1  | pp | PSMA5    |
| PSMA1  | pp | IKBKE    |
| PSMA1  | pp | TNIK     |
| PSMA1  | pp | PSMB4    |
| PSMA1  | pp | PSMC2    |
| PSMA1  | pp | PSMD6    |
| PSMA1  | pp | PSMC3    |
| PSMA1  | pp | TSC22D4  |
| PSMA1  | pp | MCC      |
| PSMA1  | pp | PSMD1    |
| PSMA1  | pp | TRAF6    |
| PSMA1  | pp | PSMD2    |
| PSMA1  | pp | PAK2     |
| PSMA1  | pp | PSMD13   |
| PSMA1  | pp | PSMD12   |
| PSMA1  | pp | PSMB10   |
| SUMF2  | pp | ZFYVE9   |
| DCTD   | pp | NUDT18   |
| DCTD   | pp | NIF3L1   |
| PLD2   | pp | EGFR     |
| FXR2   | pp | PSME3    |
| FXR2   | pp | RTN3     |
| FXR2   | pp | CALCOCO2 |
| FXR2   | pp | TRIM29   |
| FXR2   | pp | NONO     |
| FXR2   | pp | RPIA     |
| FXR2   | pp | RBPMS    |
| FXR2   | pp | CBS      |
| FXR2   | pp | AP2M1    |
| FXR2   | pp | FBP1     |
| FXR2   | pp | PCBD1    |
| FXR2   | pp | TSC22D4  |
| FXR2   | pp | FTH1     |
| FXR2   | pp | ARL6IP1  |
| FXR2   | pp | CCDC85B  |
| FXR2   | pp | LDOC1    |
| FXR2   | pp | MCRS1    |
| FXR2   | pp | LCMT1    |
| MPDU1  | pp | PMVK     |
| ILF3   | pp | DHX9     |
| ILF3   | pp | ILF2     |
| ILF3   | pp | PLSCR1   |
| BCL2L2 | pp | BCL2L11  |
| EAPP   | pp | C20orf4  |
| NEDD8  | pp | UBE2M    |
| NEDD8  | pp | UCHL1    |
| NEDD8  | pp | TRAF6    |

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| NEDD8   | pp | MAGED1   |
| DAD1    | pp | IKBKE    |
| PHF10   | pp | CELSR2   |
| PHF10   | pp | SETDB1   |
| PHF10   | pp | UTP14A   |
| SAT1    | pp | TMEM66   |
| SAT1    | pp | C14orf1  |
| SAT1    | pp | RBM17    |
| SAT1    | pp | MYST2    |
| SAT1    | pp | CCDC90B  |
| SAT1    | pp | TCF25    |
| SAT1    | pp | TP53     |
| SAT1    | pp | SETDB1   |
| SAT1    | pp | LUC7L2   |
| SAT1    | pp | UTP14A   |
| SAT1    | pp | B4GALT3  |
| SAT1    | pp | GBP2     |
| SAT1    | pp | ZHX1     |
| SAT1    | pp | TSC22D4  |
| SAT1    | pp | COPS6    |
| SAT1    | pp | CHD3     |
| SAT1    | pp | EEF1G    |
| SAT1    | pp | TLE1     |
| GNL3L   | pp | LDOC1    |
| SH3BP4  | pp | YWHAQ    |
| SH3BP4  | pp | YWHAB    |
| SH3BP4  | pp | YWHAG    |
| ECSIT   | pp | IMMT     |
| ECSIT   | pp | SETDB1   |
| ECSIT   | pp | TRAF6    |
| LDLR    | pp | APOE     |
| ELOF1   | pp | ATP5C1   |
| PRKCSH  | pp | IKBKE    |
| PRKCSH  | pp | TRAF6    |
| PRKCSH  | pp | ARL4D    |
| APOE    | pp | APP      |
| XPO7    | pp | PTP4A3   |
| XPO7    | pp | GSTK1    |
| SAFB2   | pp | SAFB     |
| NDUFA13 | pp | STAT3    |
| PGLS    | pp | PLSCR1   |
| ARPC1B  | pp | ACTR2    |
| ARPC1B  | pp | ARPC5    |
| ARPC1B  | pp | ARPC2    |
| LSM4    | pp | CALCOCO2 |
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| LSM4    | pp | LSM6     |

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| UBAC1  | pp | DAZAP2   |
| ATXN10 | pp | SAP18    |
| ATXN10 | pp | TNFRSF14 |
| ATXN10 | pp | BSG      |
| ATXN10 | pp | PHLDA3   |
| ATXN10 | pp | MAGED1   |
| ATXN10 | pp | PTP4A3   |
| ATXN10 | pp | GSTK1    |
| PAK4   | pp | YWHAQ    |
| PAK4   | pp | YWHAB    |
| PAK4   | pp | GATAD2A  |
| PAK4   | pp | YWHAG    |
| ZNF337 | pp | COMMD3   |
| ZNF337 | pp | ATP5C1   |
| TAF4   | pp | GTF2A2   |
| TAF4   | pp | TAF1     |
| TAF4   | pp | TAF10    |
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| ADRM1  | pp | UBQLN1   |
| ASS1   | pp | AKTIP    |
| UBE2M  | pp | IKBKE    |
| UBE2M  | pp | MCC      |
| UBE2M  | pp | TRAF6    |
| TRIM28 | pp | MYC      |
| TRIM28 | pp | BCAR3    |
| TRIM28 | pp | SETDB1   |
| TRIM28 | pp | IKBKE    |
| TRIM28 | pp | CIAO1    |
| TRIM28 | pp | ARF6     |
| TRIM28 | pp | CHD3     |
| TRIM28 | pp | TRAF6    |
| TRIM28 | pp | PAK2     |
| TRIM28 | pp | ZNF197   |
| TRIM28 | pp | SPG7     |
| ATPIF1 | pp | CHD3     |
| EIF3G  | pp | EIF2S1   |
| EIF3G  | pp | MPHOSPH6 |
| EIF3G  | pp | RPS6     |
| EIF3G  | pp | RPS24    |
| EIF3G  | pp | RPS11    |
| EIF3G  | pp | RPS27A   |
| EIF3G  | pp | EIF3H    |
| EIF3G  | pp | RPS3     |
| EIF3G  | pp | FAU      |
| EIF3G  | pp | RPS21    |

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| EIF3G    | pp | EIF3K    |
| EIF3G    | pp | RPS23    |
| EIF3G    | pp | RPS28    |
| DNMT1    | pp | PCNA     |
| DNMT1    | pp | RB1      |
| DNMT1    | pp | HDAC2    |
| MPP1     | pp | ATP5C1   |
| C20orf4  | pp | ARF6     |
| COX4I1   | pp | IKBKE    |
| KIAA0182 | pp | XRCC6    |
| TRAF3    | pp | TANK     |
| TRAF3    | pp | CD27     |
| TRAF3    | pp | TNFRSF14 |
| TBC1D5   | pp | AP2M1    |
| NR1H2    | pp | RXRA     |
| PDLIM4   | pp | RBPMS    |
| TUBG1    | pp | RACGAP1  |
| PSME3    | pp | SERF2    |
| PSME3    | pp | IKBKE    |
| PSME3    | pp | MCC      |
| PSME3    | pp | NUDT18   |
| RPL27    | pp | RPL35    |
| RPL27    | pp | RPS24    |
| RPL27    | pp | RPS11    |
| RPL27    | pp | RPL11    |
| RPL27    | pp | RPS27A   |
| RPL27    | pp | RPL37    |
| RPL27    | pp | RPS3     |
| RPL27    | pp | FAU      |
| RPL27    | pp | RPL30    |
| RPL27    | pp | EIF5B    |
| RPL27    | pp | RPL8     |
| RPL27    | pp | RPL27A   |
| RPL27    | pp | EEF2     |
| RPL27    | pp | PA2G4    |
| RPL27    | pp | RPS21    |
| RPL27    | pp | RPL38    |
| RPL27    | pp | RPL15    |
| RPL27    | pp | RPL35A   |
| RPL27    | pp | RPL37A   |
| RPL27    | pp | RPL10A   |
| ACLY     | pp | BCAR3    |
| ACLY     | pp | IKBKE    |
| ACLY     | pp | ARF6     |
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| TRAF7   | pp | MAP3K3  |
| RARA    | pp | PML     |
| RARA    | pp | NRBF2   |
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| RARA    | pp | GATA2   |
| RARA    | pp | NRIP1   |
| RARA    | pp | RXRA    |
| RARA    | pp | NCOR2   |
| KHDRBS3 | pp | BAHD1   |
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| KHDRBS3 | pp | SIAH1   |
| PEX11B  | pp | PEX19   |
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| RBM8A   | pp | IKBKE   |
| RBM8A   | pp | MAGOH   |
| RBM8A   | pp | MCM7    |
| PDHA1   | pp | DLAT    |
| PDHA1   | pp | PDHB    |
| RAI2    | pp | CTBP2   |
| LGALS3  | pp | FCGR2A  |
| LGALS3  | pp | GEMIN4  |
| DNAJB1  | pp | IKBKE   |
| TRIM21  | pp | NIF3L1  |
| LRRC41  | pp | TCEB1   |
| LRRC41  | pp | RBPMS   |
| ACACA   | pp | CIAO1   |
| ACACA   | pp | MCC     |
| RAF1    | pp | KRAS    |
| RAF1    | pp | RRAS2   |
| RAF1    | pp | YWHAQ   |
| RAF1    | pp | MYC     |
| RAF1    | pp | RB1     |
| RAF1    | pp | VAV1    |
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| RAF1    | pp | BRAF    |
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| RAF1    | pp | MAPK7   |
| RAF1    | pp | YWHAB   |
| RAF1    | pp | PHB     |
| RAF1    | pp | MAP2K1  |
| RAF1    | pp | YWHAG   |
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| ARFIP2 | pp | ARF1     |
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| TRIM22 | pp | RERE     |
| TRIM22 | pp | USP7     |
| IMMT   | pp | MRPL44   |
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| IMMT   | pp | CCT5     |
| IMMT   | pp | RER1     |
| IMMT   | pp | STX5     |
| IMMT   | pp | ARF6     |
| IMMT   | pp | AKTIP    |
| IMMT   | pp | BMI1     |
| IMMT   | pp | CHD3     |
| IMMT   | pp | PHLDA3   |
| IMMT   | pp | GSTK1    |
| IMMT   | pp | BAT3     |
| PER2   | pp | TNFRSF14 |
| RPA1   | pp | PCNA     |
| RPA1   | pp | CCNH     |
| RPA1   | pp | ERCC5    |
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| RPA1   | pp | SELENBP1 |
| RPA1   | pp | ERCC3    |
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| RPA1   | pp | MCM7     |
| RPA1   | pp | AKTIP    |
| RPA1   | pp | DDB1     |
| RPA1   | pp | TCEA2    |
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| RPA1   | pp | ERCC4    |
| UBE2G1 | pp | PARK2    |
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| HRSP12 | pp | TRAF6    |
| TERF2  | pp | TERF2IP  |
| TERF2  | pp | XRCC6    |
| PCNA   | pp | ERCC5    |
| PCNA   | pp | MCL1     |
| PCNA   | pp | IKBKE    |
| PCNA   | pp | ING1     |
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| POLR3F   | pp | C14orf1  |
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| POLR3F   | pp | BRF1     |
| PTPRA    | pp | GRB2     |
| ARHGEF11 | pp | ABCA1    |
| TOE1     | pp | SQSTM1   |
| TOE1     | pp | ABCF3    |
| TOE1     | pp | AP2A1    |
| TOE1     | pp | UNC13B   |
| PPP1R3D  | pp | YWHAG    |
| AP3B1    | pp | AP3S2    |
| MYH10    | pp | IKBKE    |
| MYH10    | pp | MCC      |
| MYH10    | pp | PAK2     |
| EPHB2    | pp | ABL2     |
| SRRM1    | pp | YWHAG    |
| SRRM1    | pp | RNPS1    |
| BTBD2    | pp | C14orf1  |
| BTBD2    | pp | CCDC90B  |
| BTBD2    | pp | TP53     |
| BTBD2    | pp | SETDB1   |
| BTBD2    | pp | UBR1     |
| BTBD2    | pp | GBP2     |
| BTBD2    | pp | COPS6    |
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| RTN3     | pp | BCAR3    |
| RTN3     | pp | PTPN9    |
| MED10    | pp | MED8     |
| MED10    | pp | POLR2H   |
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| RRAS2    | pp | RALGDS   |
| RRAS2    | pp | RIN1     |
| RRAS2    | pp | PAWR     |
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| C14orf1  | pp | S100A8    |
| C14orf1  | pp | PXMP3     |
| C14orf1  | pp | TK1       |
| C14orf1  | pp | PHYHIP    |
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| MED6     | pp | MED9      |
| EIF2S1   | pp | RPS24     |
| EIF2S1   | pp | EIF2B5    |
| EIF2S1   | pp | EIF3H     |
| EIF2S1   | pp | TRAF6     |
| EIF2S1   | pp | EIF3K     |
| MBD2     | pp | GATAD2B   |
| MBD2     | pp | RBBP4     |
| MBD2     | pp | GATAD2A   |
| MBD2     | pp | HDAC2     |
| C15orf29 | pp | MYST2     |
| GSTM3    | pp | TRAF6     |
| GSTM3    | pp | PAK2      |
| VAV3     | pp | RAC1      |
| VAV3     | pp | RHOG      |
| VAV3     | pp | GRB2      |
| HBXIP    | pp | UTP14A    |
| HBXIP    | pp | RABIF     |
| NOTCH2   | pp | PSEN2     |
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| NAPG     | pp | RAB11FIP5 |
| NAPG     | pp | STX8      |
| ARF3     | pp | ARFIP1    |
| YWHAQ    | pp | SFRS1     |
| YWHAQ    | pp | PI4KB     |
| YWHAQ    | pp | HAX1      |
| YWHAQ    | pp | LYST      |
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| YWHAQ    | pp | LARP1     |

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| YWHAQ   | pp | KIF5C   |
| YWHAQ   | pp | KIF5B   |
| YWHAQ   | pp | KLC2    |
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| YWHAQ   | pp | MAP3K3  |
| ROCK2   | pp | IKBKE   |
| IL6ST   | pp | IL6     |
| IL6ST   | pp | PTPN11  |
| IL6ST   | pp | TLE1    |
| NARS    | pp | IKBKE   |
| NARS    | pp | LSM1    |
| CCNH    | pp | ERCC3   |
| CCNH    | pp | MCM7    |
| CCNH    | pp | AR      |
| CCNH    | pp | MTA1    |
| CCNH    | pp | GTF2E2  |
| CABLES1 | pp | TP53    |
| FAM127A | pp | UBQLN1  |
| PUM1    | pp | SMAD1   |
| PHC2    | pp | AFG3L2  |
| PHC2    | pp | BMI1    |
| PHC2    | pp | TMEM70  |
| PHC2    | pp | FHL3    |
| PHC2    | pp | MCRS1   |
| RNF138  | pp | SLC35A1 |
| DTNA    | pp | SNTB1   |
| PDGFRA  | pp | CRK     |
| PDGFRA  | pp | PTPN11  |
| PDGFRA  | pp | PDGFA   |
| PDGFRA  | pp | SNX2    |
| ERCC5   | pp | ERCC3   |
| ERCC5   | pp | DDB1    |
| ERCC5   | pp | ERCC4   |
| ERCC5   | pp | POLR2A  |
| TPP2    | pp | MCC     |
| APC     | pp | ARHGEF4 |
| APC     | pp | IQGAP1  |
| APC     | pp | CTNNB1  |
| APC     | pp | SIAH1   |
| OSTF1   | pp | FABP4   |
| OSTF1   | pp | EXT1    |
| RFK     | pp | RAB1A   |
| UBQLN1  | pp | RASSF5  |

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| UBQLN1  | pp | PSEN2    |
| UBQLN1  | pp | FZD7     |
| UBQLN1  | pp | NBL1     |
| UBQLN1  | pp | HK2      |
| UBQLN1  | pp | CSTF2T   |
| UBQLN1  | pp | RIC8A    |
| UBQLN1  | pp | HGS      |
| UBQLN1  | pp | P4HB     |
| UBQLN1  | pp | PRPF40A  |
| ANXA1   | pp | PPM1B    |
| ANXA1   | pp | S100A11  |
| ANXA1   | pp | FPR1     |
| ANXA1   | pp | TGM2     |
| CTSL1   | pp | RXRA     |
| GOLM1   | pp | FLOT1    |
| GOLM1   | pp | GEMIN7   |
| GOLM1   | pp | CIAO1    |
| GOLM1   | pp | MED22    |
| GOLM1   | pp | ZFAND3   |
| GOLM1   | pp | FTH1     |
| GOLM1   | pp | DCTN2    |
| GOLM1   | pp | C1orf174 |
| GOLM1   | pp | GNB2L1   |
| PSAT1   | pp | TNIK     |
| TAOK3   | pp | ERN1     |
| CD36    | pp | COL1A2   |
| SRPK2   | pp | SFRS1    |
| TES     | pp | ENAH     |
| SYNCRIP | pp | IKBKE    |
| MAP3K7  | pp | STAT3    |
| MAP3K7  | pp | TRAF6    |
| ITGA7   | pp | FHL3     |
| BLOC1S1 | pp | MTA1     |
| BLOC1S1 | pp | BLOC1S2  |
| TFCP2   | pp | APBB1    |
| HNRNPA1 | pp | DHX9     |
| HNRNPA1 | pp | SFRS1    |
| HNRNPA1 | pp | SF3B4    |
| HNRNPA1 | pp | HNRNPU   |
| HNRNPA1 | pp | SFRS12   |
| HNRNPA1 | pp | U2AF1    |
| HNRNPA1 | pp | PCF11    |
| HNRNPA1 | pp | CPSF2    |
| HNRNPA1 | pp | CDC40    |
| HNRNPA1 | pp | PHYHIP   |
| HNRNPA1 | pp | CD2BP2   |
| HNRNPA1 | pp | SF3B5    |

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| HNRNPA1            | pp | CLP1     |
| HNRNPA1            | pp | SF3A3    |
| HNRNPA1            | pp | SF3B3    |
| ACVR1B             | pp | SMAD4    |
| AHI1               | pp | SMYD2    |
| CCT7               | pp | ATP5C1   |
| CCT7               | pp | EEF1G    |
| USP15              | pp | DFFA     |
| USP15              | pp | HDAC3    |
| USP15              | pp | UBE2G2   |
| MDM2               | pp | RB1      |
| MDM2               | pp | PML      |
| MDM2               | pp | TP53     |
| MDM2               | pp | AKT1     |
| MDM2               | pp | RPL11    |
| MDM2               | pp | TAF1     |
| MDM2               | pp | CDKN2A   |
| MDM2               | pp | ATM      |
| MDM2               | pp | AR       |
| MDM2               | pp | USP7     |
| MPHOSPH $\epsilon$ | pp | TP53     |
| MPHOSPH $\epsilon$ | pp | ZHX1     |
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| MPHOSPH $\epsilon$ | pp | TLE1     |
| DYNC1LI2           | pp | EPB49    |
| AGT                | pp | AGTR1    |
| GLUL               | pp | NUDT18   |
| DHX9               | pp | SFRS1    |
| DHX9               | pp | PRPF4    |
| DHX9               | pp | GTF2B    |
| DHX9               | pp | SNRPF    |
| DHX9               | pp | SF3B4    |
| DHX9               | pp | HNRNPU   |
| DHX9               | pp | TNFRSF14 |
| DHX9               | pp | U2AF1    |
| DHX9               | pp | NXF1     |
| DHX9               | pp | SNRPD1   |
| DHX9               | pp | CDC40    |
| DHX9               | pp | CD2BP2   |
| DHX9               | pp | PCBP1    |
| DHX9               | pp | SF3B5    |
| DHX9               | pp | RELA     |
| DHX9               | pp | TRAF6    |
| DHX9               | pp | HNRNPA0  |
| DHX9               | pp | GEMIN4   |
| DHX9               | pp | POLR2A   |
| DHX9               | pp | SF3A3    |

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| DHX9     | pp | SF3B3    |
| DHX9     | pp | PCBP2    |
| PIGC     | pp | DPM2     |
| PIGC     | pp | ZHX1     |
| MRPL44   | pp | SETDB1   |
| DNAJB2   | pp | SMAD4    |
| EIF4E2   | pp | ARIH1    |
| EIF4E2   | pp | EIF4EBP1 |
| COX5B    | pp | AR       |
| ISCU     | pp | YWHAB    |
| FLNB     | pp | PSEN2    |
| FLNB     | pp | FLNA     |
| TBC1D4   | pp | YWHAG    |
| MED4     | pp | MED9     |
| MED4     | pp | TNFAIP8  |
| MED4     | pp | AP2M1    |
| MED4     | pp | MCRS1    |
| SPRY2    | pp | GRB2     |
| SPRY2    | pp | PLSCR1   |
| RCBTB2   | pp | COPS4    |
| LCP1     | pp | ATXN2    |
| C7orf25  | pp | BRD4     |
| GPNMB    | pp | SMAD4    |
| RAC1     | pp | RAP1GDS1 |
| RAC1     | pp | ARHGDI1  |
| RAC1     | pp | VAV1     |
| RAC1     | pp | DOCK1    |
| RAC1     | pp | TIAM1    |
| RAC1     | pp | NCK1     |
| RAC1     | pp | PRKCI    |
| RAC1     | pp | STAT3    |
| RAC1     | pp | BAIAP2   |
| RAC1     | pp | PARK2    |
| MTHFS    | pp | TSC22D4  |
| CALCOCO2 | pp | MYST2    |
| CALCOCO2 | pp | FBXL18   |
| CALCOCO2 | pp | RHPN1    |
| CALCOCO2 | pp | SHC1     |
| CALCOCO2 | pp | VPS72    |
| CALCOCO2 | pp | FASTK    |
| CALCOCO2 | pp | FAM107A  |
| CALCOCO2 | pp | APEX2    |
| CALCOCO2 | pp | GEMIN4   |
| CALCOCO2 | pp | DAZAP2   |
| CALCOCO2 | pp | DBNDD2   |
| SFRS1    | pp | PRPF4    |
| SFRS1    | pp | NCBP1    |



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| SFRS1    | pp | HNRNPU   |
| SFRS1    | pp | SFRS12   |
| SFRS1    | pp | U2AF1    |
| SFRS1    | pp | NXF1     |
| SFRS1    | pp | CDC40    |
| SFRS1    | pp | CD2BP2   |
| SFRS1    | pp | PCBP1    |
| SFRS1    | pp | YWHAG    |
| SFRS1    | pp | PCBP2    |
| SFRS1    | pp | TOP1     |
| SFRS1    | pp | RNPS1    |
| MYST2    | pp | DVL3     |
| MYST2    | pp | AR       |
| MYST2    | pp | PPID     |
| MYST2    | pp | RGL2     |
| TANK     | pp | ZC3H12A  |
| TANK     | pp | TBK1     |
| EPRS     | pp | IKBKE    |
| EPRS     | pp | ATG12    |
| EPRS     | pp | MCC      |
| EPRS     | pp | ARL4D    |
| EPRS     | pp | IARS     |
| RPS6KC1  | pp | PRDX3    |
| RASSF5   | pp | HRAS     |
| SAP130   | pp | SMAD3    |
| STAM     | pp | HGS      |
| DNAJC1   | pp | SERPINA3 |
| TXN      | pp | FBXO11   |
| TXN      | pp | RRM1     |
| TXN      | pp | TRAF6    |
| TXN      | pp | MAP3K5   |
| TXN      | pp | TXNRD1   |
| KIAA0368 | pp | PTP4A3   |
| C9orf78  | pp | SUPT5H   |
| KLF4     | pp | TP53     |
| TOR1A    | pp | TOR1AIP2 |
| STXBP1   | pp | CDK5     |
| CDK5RAP2 | pp | LUC7L2   |
| CDK5RAP2 | pp | SENP2    |
| CDK5RAP2 | pp | EEF1G    |
| CDK5RAP2 | pp | MAGEH1   |
| TLR4     | pp | MYD88    |
| TLR4     | pp | IRAK1    |
| PRPF4    | pp | NCBP1    |
| PRPF4    | pp | SNRPF    |
| PRPF4    | pp | SF3B4    |
| PRPF4    | pp | PCF11    |

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| PRPF4 | pp | CPSF2   |
| PRPF4 | pp | SNRPD1  |
| PRPF4 | pp | CDC40   |
| PRPF4 | pp | CD2BP2  |
| PRPF4 | pp | SF3B5   |
| PRPF4 | pp | CLP1    |
| PRPF4 | pp | HNRNPA0 |
| PRPF4 | pp | SF3A3   |
| PRPF4 | pp | SF3B3   |
| PRPF4 | pp | RNPS1   |
| PSMB7 | pp | PSMB6   |
| PSMB7 | pp | PSMA5   |
| PSMB7 | pp | PSMB4   |
| PSMB7 | pp | PSMD6   |
| PSMB7 | pp | PSMD1   |
| PSMB7 | pp | PSMD2   |
| PSMB7 | pp | PAK2    |
| PSMB7 | pp | PSMD13  |
| PSMB7 | pp | PSMD12  |
| PSMB7 | pp | PSMB9   |
| NCBP1 | pp | SNRPF   |
| NCBP1 | pp | SF3B4   |
| NCBP1 | pp | POLR2K  |
| NCBP1 | pp | U2AF1   |
| NCBP1 | pp | POLR2H  |
| NCBP1 | pp | PCF11   |
| NCBP1 | pp | METTL3  |
| NCBP1 | pp | CPSF2   |
| NCBP1 | pp | SNRPD1  |
| NCBP1 | pp | POLR2G  |
| NCBP1 | pp | CDC40   |
| NCBP1 | pp | CD2BP2  |
| NCBP1 | pp | PCBP1   |
| NCBP1 | pp | SF3B5   |
| NCBP1 | pp | YWHAG   |
| NCBP1 | pp | CLP1    |
| NCBP1 | pp | HNRNPA0 |
| NCBP1 | pp | POLR2A  |
| NCBP1 | pp | SF3A3   |
| NCBP1 | pp | WHSC2   |
| NCBP1 | pp | SF3B3   |
| NCBP1 | pp | PCBP2   |
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| RPL35 | pp | RPS6    |
| RPL35 | pp | RPS24   |
| RPL35 | pp | RPS11   |

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| RPL35    | pp | RPL11    |
| RPL35    | pp | RPS27A   |
| RPL35    | pp | RPS3     |
| RPL35    | pp | FAU      |
| RPL35    | pp | RPL30    |
| RPL35    | pp | RPL8     |
| RPL35    | pp | RPL27A   |
| RPL35    | pp | RPS21    |
| RPL35    | pp | RPL15    |
| RPL35    | pp | TRAF6    |
| RPL35    | pp | RPLP2    |
| RPL35    | pp | RPS23    |
| RPL35    | pp | RPL14    |
| RPL35    | pp | RPS28    |
| RPL35    | pp | CDC42BPB |
| RPL35    | pp | RPL10A   |
| MYC      | pp | SMAD3    |
| MYC      | pp | SMAD2    |
| MYC      | pp | TRRAP    |
| NOV      | pp | IGF2     |
| POLR1E   | pp | POLR1C   |
| DCTN3    | pp | PBX2     |
| CD72     | pp | GRB2     |
| RPS6     | pp | RPS24    |
| RPS6     | pp | RPS11    |
| RPS6     | pp | RPL11    |
| RPS6     | pp | RPS27A   |
| RPS6     | pp | EIF3H    |
| RPS6     | pp | RPS3     |
| RPS6     | pp | FAU      |
| RPS6     | pp | RPL30    |
| RPS6     | pp | EIF5B    |
| RPS6     | pp | RPL8     |
| RPS6     | pp | EIF3K    |
| RPS6     | pp | RPL14    |
| PIM1     | pp | SHMT1    |
| PIM1     | pp | SND1     |
| YIPF3    | pp | PLSCR1   |
| FRS3     | pp | GRB2     |
| RIPK1    | pp | FADD     |
| C6orf125 | pp | IKBKE    |
| MDC1     | pp | ATM      |
| MDC1     | pp | H2AFX    |
| CCDC90B  | pp | C11orf59 |
| CCDC90B  | pp | TK1      |
| CCDC90B  | pp | SERPINB9 |
| CCDC90B  | pp | RGL2     |

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| CREBZF  | pp | HCFC1  |
| SDCBP   | pp | NF2    |
| NEK1    | pp | FEZ1   |
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| YAP1    | pp | RUNX1  |
| YAP1    | pp | YWHAG  |
| YAP1    | pp | ERBB4  |
| YAP1    | pp | TEAD4  |
| TRIM29  | pp | GOLGA2 |
| TRIM29  | pp | GCC1   |
| RDX     | pp | IKBKE  |
| RDX     | pp | TSC1   |
| PPP2R1B | pp | DOCK5  |
| MAP2K5  | pp | PRKCI  |
| MAP2K5  | pp | MAPK7  |
| MAP2K5  | pp | MAP3K3 |
| NDUFAF1 | pp | ATIC   |
| TUBGCP4 | pp | GOLGA2 |
| BCAR3   | pp | ACTR2  |
| BCAR3   | pp | NOSIP  |
| BCAR3   | pp | PCBP1  |
| BCAR3   | pp | KIF5B  |
| BCAR3   | pp | CTPS   |
| BCAR3   | pp | PSMD1  |
| BCAR3   | pp | PSMD2  |
| BCAR3   | pp | TSN    |
| CCBL2   | pp | RABIF  |
| GTF2B   | pp | GTF2A2 |
| GTF2B   | pp | TAF1   |
| GTF2B   | pp | GTF2E1 |
| GTF2B   | pp | POLR2H |
| GTF2B   | pp | POLR2A |
| GTF2B   | pp | GTF2E2 |
| RABGGTB | pp | PTP4A2 |
| RTCD1   | pp | RPS11  |
| RTCD1   | pp | ARF6   |
| RTCD1   | pp | DDX21  |
| RTCD1   | pp | RPL35A |
| RTCD1   | pp | COPB2  |
| HADHB   | pp | APP    |
| PPM1B   | pp | S100A8 |
| PPM1B   | pp | GSN    |
| PNPT1   | pp | MCC    |
| PNPT1   | pp | TRAF6  |
| SMEK2   | pp | FEZ1   |
| RAB1A   | pp | USO1   |
| RAB1A   | pp | ZNF593 |

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| RAB1A   | pp | GOLGA2  |
| ACTR2   | pp | TNIK    |
| ACTR2   | pp | ACTC1   |
| ACTR2   | pp | ARPC5   |
| ACTR2   | pp | TRAF6   |
| ACTR2   | pp | HCLS1   |
| FBXO11  | pp | TKT     |
| FBXO11  | pp | GDI1    |
| C2orf28 | pp | LPP     |
| LRPPRC  | pp | IKBKE   |
| LRPPRC  | pp | ARF6    |
| LRPPRC  | pp | MCC     |
| LRPPRC  | pp | PHLDA3  |
| LRPPRC  | pp | TRAF6   |
| LRPPRC  | pp | MAGED1  |
| LRPPRC  | pp | PTP4A3  |
| LRPPRC  | pp | GSTK1   |
| DTNB    | pp | HMG20A  |
| DTNB    | pp | PPFIBP2 |
| DTNB    | pp | CCDC85B |
| ARL3    | pp | TP53    |
| ARL3    | pp | UBR1    |
| ARL3    | pp | TLE1    |
| ANXA7   | pp | S100A10 |
| TIMM23  | pp | PTP4A3  |
| TIMM23  | pp | GSTK1   |
| RPS24   | pp | RPS11   |
| RPS24   | pp | RPL11   |
| RPS24   | pp | RPS27A  |
| RPS24   | pp | EIF3H   |
| RPS24   | pp | RPS3    |
| RPS24   | pp | RPL30   |
| RPS24   | pp | EIF5B   |
| RPS24   | pp | RPL8    |
| RPS24   | pp | RPL27A  |
| RPS24   | pp | EEF2    |
| RPS24   | pp | RPS21   |
| RPS24   | pp | RPL38   |
| RPS24   | pp | RPL15   |
| RPS24   | pp | EIF3K   |
| RPS24   | pp | RPS23   |
| RPS24   | pp | RPL14   |
| RPS24   | pp | RPS28   |
| RPS24   | pp | RPL37A  |
| RPS24   | pp | RPL10A  |
| ATIC    | pp | IKBKE   |
| ATIC    | pp | HNRPDL  |

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| ATIC     | pp | TRAF6    |
| SSB      | pp | IKBKE    |
| SSB      | pp | TNFRSF14 |
| SSB      | pp | PMVK     |
| SSB      | pp | TRAF6    |
| PPIG     | pp | YWHAG    |
| PPIG     | pp | POLR2A   |
| PPIG     | pp | RNPS1    |
| IDH1     | pp | ZHX1     |
| SSFA2    | pp | LUC7L2   |
| ABI2     | pp | SH3KBP1  |
| ITGAV    | pp | CYR61    |
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| ITGAV    | pp | CD47     |
| APH1B    | pp | PSEN2    |
| APH1B    | pp | NCSTN    |
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| COPS4    | pp | ARF6     |
| COPS4    | pp | COPS2    |
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| COPS4    | pp | COPS8    |
| FGF2     | pp | API5     |
| RAP1GDS1 | pp | HRAS     |
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| USO1     | pp | GAK      |
| ANXA3    | pp | TP53     |
| ANXA3    | pp | UBR1     |
| CASP6    | pp | CHD3     |
| PPP3CA   | pp | SOD1     |
| PPP3CA   | pp | RCAN1    |
| PPP3CA   | pp | CASP3    |
| PPP3CA   | pp | RCAN2    |
| MAPK8IP3 | pp | KLC2     |
| MAPK8IP3 | pp | ARL4D    |
| ETV6     | pp | FLI1     |
| NDUFA9   | pp | CIAO1    |
| NDUFA9   | pp | MAGED1   |
| CD27     | pp | SIVA1    |
| PEX5     | pp | PEX14    |
| PEX5     | pp | PXMP3    |
| PEX5     | pp | SNUPN    |
| PHLDA1   | pp | PLSCR1   |
| PHLDA1   | pp | RPL14    |
| SNRPF    | pp | TXNL4A   |
| SNRPF    | pp | SF3B4    |
| SNRPF    | pp | U2AF1    |

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| SNRPF   | pp | SLBP    |
| SNRPF   | pp | PCF11   |
| SNRPF   | pp | CPSF2   |
| SNRPF   | pp | SNRPD1  |
| SNRPF   | pp | CDC40   |
| SNRPF   | pp | CD2BP2  |
| SNRPF   | pp | SF3B5   |
| SNRPF   | pp | CLP1    |
| SNRPF   | pp | PHLDA3  |
| SNRPF   | pp | HNRNPA0 |
| SNRPF   | pp | LSM10   |
| SNRPF   | pp | SF3A3   |
| SNRPF   | pp | SF3B3   |
| TDG     | pp | PML     |
| TARBP2  | pp | NF2     |
| ACVRL1  | pp | TGFBR2  |
| SMARCC2 | pp | NOVA1   |
| SMARCC2 | pp | PEX14   |
| SMARCC2 | pp | PBRM1   |
| SMARCC2 | pp | PHYHIP  |
| SMARCC2 | pp | ITSN1   |
| ESD     | pp | MCC     |
| ESD     | pp | TRAF6   |
| RB1     | pp | PML     |
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| RB1     | pp | PIK3R1  |
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| RB1     | pp | CTBP1   |
| RB1     | pp | LMNA    |
| RB1     | pp | RBBP4   |
| RB1     | pp | SNAPC3  |
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| RB1     | pp | PA2G4   |
| RB1     | pp | ENC1    |
| RB1     | pp | HDAC3   |
| RB1     | pp | EID1    |
| RB1     | pp | BRF1    |
| RB1     | pp | PURA    |
| RB1     | pp | HMGB1   |
| RB1     | pp | NCOA6   |
| RB1     | pp | TGM2    |
| RB1     | pp | GNB2L1  |
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| CUL4A   | pp | PHLDA3  |
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| PELI2   | pp | IRAK1   |
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| RAB15   | pp | RABIF   |
| WARS    | pp | MDH2    |
| WARS    | pp | CDK2AP2 |
| MFAP1   | pp | YWHAG   |
| TCF12   | pp | PRSS23  |
| SERF2   | pp | RBPMS   |
| SERF2   | pp | CHD3    |
| BNIP2   | pp | BCL2    |
| BNIP2   | pp | ARHGAP1 |
| GTF2A2  | pp | GTF2E1  |
| GTF2A2  | pp | GTF2E2  |
| SRP14   | pp | IKBKE   |
| SRP14   | pp | ARF6    |
| BAHD1   | pp | DVL3    |
| CDAN1   | pp | PDPK1   |
| ETFA    | pp | IKBKE   |
| ETFA    | pp | MCC     |
| ETFA    | pp | TRAF6   |
| HMG20A  | pp | SMAD4   |
| IGF1R   | pp | PIK3R1  |
| IGF1R   | pp | SHC1    |
| IGF1R   | pp | YWHAB   |
| IGF1R   | pp | IRS1    |
| IGF1R   | pp | YWHAG   |
| IGF1R   | pp | PTPN11  |
| IGF1R   | pp | SOCS3   |
| IGF1R   | pp | SOCS1   |
| IGF1R   | pp | IRS2    |
| IGF1R   | pp | GNB2L1  |
| CYP11A1 | pp | SMAD3   |
| PML     | pp | TP53    |
| PML     | pp | RPL11   |
| PML     | pp | HHEX    |
| PML     | pp | ZFYVE9  |
| PML     | pp | SMAD3   |
| PML     | pp | STAT3   |
| PML     | pp | HDAC3   |
| PML     | pp | RELA    |
| PML     | pp | GATA2   |
| PML     | pp | SUMO2   |
| SCAMP2  | pp | ARIH2   |
| NTRK3   | pp | SHC1    |
| NTRK3   | pp | SQSTM1  |
| NTRK3   | pp | NGFRAP1 |
| NTRK3   | pp | PTPN1   |



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| DET1     | pp | RFWD2    |
| DET1     | pp | DDB1     |
| FURIN    | pp | NOTCH1   |
| IQGAP1   | pp | ARF6     |
| TGFB111  | pp | AR       |
| TGFB111  | pp | PTK2     |
| UQCRC2   | pp | ARF6     |
| ZFHX3    | pp | PRPF40A  |
| MAP1LC3B | pp | ATG3     |
| MAP1LC3B | pp | LUC7L2   |
| MAP1LC3B | pp | SQSTM1   |
| MAP1LC3B | pp | ATG7     |
| ZCCHC14  | pp | NFIC     |
| RHOT2    | pp | ZFYVE9   |
| PDPK1    | pp | AKT1     |
| PDPK1    | pp | PRSS23   |
| PDPK1    | pp | PRKCI    |
| PDPK1    | pp | AKTIP    |
| GAS8     | pp | CIAO1    |
| MED9     | pp | MED22    |
| MED9     | pp | MED21    |
| MED9     | pp | MED7     |
| MED9     | pp | MED8     |
| MED9     | pp | DCD      |
| MED9     | pp | POLR2G   |
| MED9     | pp | MED16    |
| MED9     | pp | MED14    |
| MED9     | pp | MED12    |
| NCOR1    | pp | CHD1     |
| NCOR1    | pp | HDAC3    |
| COPS3    | pp | ITGB2    |
| COPS3    | pp | GPS1     |
| RANBP10  | pp | CACHD1   |
| TOB1     | pp | SMAD4    |
| TOB1     | pp | SETDB1   |
| TOB1     | pp | SMAD3    |
| TOB1     | pp | SMAD1    |
| NPEPPS   | pp | ARF6     |
| NPEPPS   | pp | MCC      |
| NPEPPS   | pp | TRAF6    |
| CCDC45   | pp | LSM3     |
| PLEKHM1  | pp | SERPINB9 |
| CLTC     | pp | IKBKE    |
| CLTC     | pp | MCC      |
| CLTC     | pp | HGS      |
| TP53     | pp | CSNK1D   |
| TP53     | pp | S100A8   |

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| TP53     | pp | PARP1    |
| TP53     | pp | RPS27A   |
| TP53     | pp | SETD7    |
| TP53     | pp | ATM      |
| TP53     | pp | CCT5     |
| TP53     | pp | ING1     |
| TP53     | pp | S100B    |
| TP53     | pp | STX5     |
| TP53     | pp | ATF3     |
| TP53     | pp | ERCC3    |
| TP53     | pp | HIPK1    |
| TP53     | pp | IFI16    |
| TP53     | pp | GNL3     |
| TP53     | pp | HMGB2    |
| TP53     | pp | PHB      |
| TP53     | pp | TK1      |
| TP53     | pp | RAB4A    |
| TP53     | pp | GSTM4    |
| TP53     | pp | SERPINB9 |
| TP53     | pp | BCL2L1   |
| TP53     | pp | BCL2     |
| TP53     | pp | ZNF24    |
| TP53     | pp | PLK3     |
| TP53     | pp | ATR      |
| TP53     | pp | ARIH2    |
| TP53     | pp | NQO1     |
| TP53     | pp | MTA1     |
| TP53     | pp | BRF1     |
| TP53     | pp | USP7     |
| TP53     | pp | HMGB1    |
| TP53     | pp | TFDP1    |
| ARHGDI A | pp | VAV1     |
| ARHGDI A | pp | RHOC     |
| EIF4A3   | pp | MAGO H   |
| CSNK1D   | pp | DVL3     |
| CSNK1D   | pp | MCC      |
| CSNK1D   | pp | PER1     |
| NARF     | pp | LMNA     |
| CBX4     | pp | CTBP2    |
| SMAD4    | pp | TCTA     |
| SMAD4    | pp | RMND5B   |
| SMAD4    | pp | FOXO1    |
| SMAD4    | pp | MAPK13   |
| SMAD4    | pp | DCP1A    |
| SMAD4    | pp | SNIP1    |
| SMAD4    | pp | BTRC     |
| SMAD4    | pp | SMAD3    |

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| SMAD4  | pp | SMAD1    |
| SMAD4  | pp | JUNB     |
| SMAD4  | pp | CEBPB    |
| SMAD4  | pp | SMAD2    |
| SMAD4  | pp | PRPF40A  |
| IGFBP4 | pp | IGF2     |
| TXNL4A | pp | SNRPD1   |
| TXNL4A | pp | CD2BP2   |
| NFIC   | pp | NFIB     |
| PFKL   | pp | PFKM     |
| PFKL   | pp | COPS6    |
| PFKL   | pp | PRPF40A  |
| VAV1   | pp | PIK3R1   |
| VAV1   | pp | SLA      |
| VAV1   | pp | ZYX      |
| VAV1   | pp | RACGAP1  |
| VAV1   | pp | RHOG     |
| VAV1   | pp | GRB2     |
| VAV1   | pp | SOCS1    |
| VAV1   | pp | XRCC6    |
| VAV1   | pp | ZNF655   |
| SH3GL1 | pp | SYNJ1    |
| SH3GL1 | pp | PDCD6IP  |
| IFNAR1 | pp | IFNAR2   |
| IFNAR1 | pp | STAT3    |
| IFNAR1 | pp | PTPN11   |
| IFNAR1 | pp | GNB2L1   |
| SOD1   | pp | CCS      |
| APP    | pp | PSEN2    |
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| APP    | pp | APBB2    |
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| APP    | pp | SERPINA3 |
| AKT1   | pp | PEA15    |
| AKT1   | pp | AKTIP    |
| AKT1   | pp | AR       |
| AKT1   | pp | PTPN1    |
| AKT1   | pp | MAP3K5   |
| EVI5L  | pp | NUDT18   |
| PSMB6  | pp | PSMA5    |
| PSMB6  | pp | IKBKE    |
| PSMB6  | pp | PSMB4    |
| PSMB6  | pp | PSMC2    |
| PSMB6  | pp | PSMD6    |
| PSMB6  | pp | PSMC3    |

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| PSMB6  | pp | PSMD1  |
| PSMB6  | pp | PSMD2  |
| PSMB6  | pp | PSMD13 |
| PSMB6  | pp | PSMD12 |
| ZNF473 | pp | SLBP   |
| ZNF473 | pp | ZNF202 |
| RPS11  | pp | RPL11  |
| RPS11  | pp | IKBKE  |
| RPS11  | pp | RPS27A |
| RPS11  | pp | EIF3H  |
| RPS11  | pp | RPS3   |
| RPS11  | pp | RPL30  |
| RPS11  | pp | EIF5B  |
| RPS11  | pp | RPL8   |
| RPS11  | pp | RPL27A |
| RPS11  | pp | EEF2   |
| RPS11  | pp | RPS21  |
| RPS11  | pp | RPL38  |
| RPS11  | pp | TRAF6  |
| RPS11  | pp | EIF3K  |
| RPS11  | pp | NDN    |
| RPS11  | pp | RPL35A |
| RPS11  | pp | RPS23  |
| RPS11  | pp | RPL14  |
| RPS11  | pp | RPS28  |
| RPS11  | pp | RPL10A |
| RCN3   | pp | PRUNE2 |
| RERE   | pp | PLSCR1 |
| PEX14  | pp | MED8   |
| PEX14  | pp | PEX19  |
| PEX14  | pp | ZHX1   |
| RPL11  | pp | RPS27A |
| RPL11  | pp | RPL37  |
| RPL11  | pp | RPS3   |
| RPL11  | pp | FAU    |
| RPL11  | pp | RPL30  |
| RPL11  | pp | RPL8   |
| RPL11  | pp | RPL27A |
| RPL11  | pp | EEF2   |
| RPL11  | pp | PA2G4  |
| RPL11  | pp | RPL38  |
| RPL11  | pp | RPL15  |
| RPL11  | pp | RPL35A |
| RPL11  | pp | RPL14  |
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| RPL11  | pp | RPL10A |
| SERBP1 | pp | CHD3   |

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| PIGK    | pp | GPAA1    |
| TINAGL1 | pp | UTP14A   |
| CYP4B1  | pp | DFFA     |
| MTF2    | pp | SMAD3    |
| PSMA5   | pp | PSMB4    |
| PSMA5   | pp | PSMD6    |
| PSMA5   | pp | PSMD1    |
| PSMA5   | pp | PSMD2    |
| PSMA5   | pp | PSMD13   |
| PSMA5   | pp | PSMD12   |
| POU2F1  | pp | HMGB2    |
| POU2F1  | pp | SNAPC3   |
| POU2F1  | pp | SNAPC4   |
| POU2F1  | pp | ZNF143   |
| POU2F1  | pp | HCFC1    |
| POU2F1  | pp | RELA     |
| POU2F1  | pp | SNAPC5   |
| POU2F1  | pp | RXRA     |
| POU2F1  | pp | XRCC6    |
| DPT     | pp | BAT3     |
| FCGR2A  | pp | SHC1     |
| MRPL24  | pp | CIAO1    |
| ABL2    | pp | CRK      |
| RGL1    | pp | RIT1     |
| RGL1    | pp | HRAS     |
| SF3B4   | pp | HNRNPU   |
| SF3B4   | pp | PCF11    |
| SF3B4   | pp | CPSF2    |
| SF3B4   | pp | SNRPD1   |
| SF3B4   | pp | CDC40    |
| SF3B4   | pp | CD2BP2   |
| SF3B4   | pp | PCBP1    |
| SF3B4   | pp | SF3B5    |
| SF3B4   | pp | CLP1     |
| SF3B4   | pp | PCBP2    |
| SF3B4   | pp | FAM115A  |
| SETDB1  | pp | GSTO1    |
| SETDB1  | pp | AIFM1    |
| SETDB1  | pp | SNIP1    |
| SETDB1  | pp | TK1      |
| SETDB1  | pp | SERPINB9 |
| SETDB1  | pp | ZNF24    |
| SETDB1  | pp | S100A10  |
| SETDB1  | pp | BAT3     |
| MCL1    | pp | BCL2L11  |
| MCL1    | pp | TNKS     |
| RFX5    | pp | HDAC2    |

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| PI4KB   | pp | YWHAB   |
| PI4KB   | pp | YWHAG   |
| PIP5K1A | pp | ARF1    |
| PIP5K1A | pp | ARF6    |
| LASS2   | pp | NDN     |
| LASS2   | pp | ATP6V0C |
| ENSA    | pp | KCTD15  |
| ENSA    | pp | ARIH2   |
| ARNT    | pp | HEY1    |
| ARNT    | pp | NCOR2   |
| IKBKE   | pp | ACP1    |
| IKBKE   | pp | PARP1   |
| IKBKE   | pp | RAB5A   |
| IKBKE   | pp | CISD2   |
| IKBKE   | pp | BTF3    |
| IKBKE   | pp | MSN     |
| IKBKE   | pp | CDKN2A  |
| IKBKE   | pp | HYOU1   |
| IKBKE   | pp | PPP4C   |
| IKBKE   | pp | FAM49B  |
| IKBKE   | pp | UCHL1   |
| IKBKE   | pp | RHOC    |
| IKBKE   | pp | TAGLN2  |
| IKBKE   | pp | ATP5O   |
| IKBKE   | pp | CBR1    |
| IKBKE   | pp | PSMB4   |
| IKBKE   | pp | PDXK    |
| IKBKE   | pp | PSMC2   |
| IKBKE   | pp | GMPS    |
| IKBKE   | pp | POLR2H  |
| IKBKE   | pp | TKT     |
| IKBKE   | pp | PGRMC2  |
| IKBKE   | pp | NUDT5   |
| IKBKE   | pp | HPRT1   |
| IKBKE   | pp | DDX21   |
| IKBKE   | pp | CASP7   |
| IKBKE   | pp | PPIB    |
| IKBKE   | pp | RRM1    |
| IKBKE   | pp | PDHB    |
| IKBKE   | pp | STIP1   |
| IKBKE   | pp | MAT2A   |
| IKBKE   | pp | PCBP1   |
| IKBKE   | pp | PDCD6IP |
| IKBKE   | pp | PA2G4   |
| IKBKE   | pp | KIF5B   |
| IKBKE   | pp | TBCA    |
| IKBKE   | pp | CTPS    |

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| IKBKE  | pp | THOP1   |
| IKBKE  | pp | QARS    |
| IKBKE  | pp | GNB2    |
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| IKBKE  | pp | PSMD1   |
| IKBKE  | pp | PSMD2   |
| IKBKE  | pp | DCTN2   |
| IKBKE  | pp | RUVBL1  |
| IKBKE  | pp | CSTF3   |
| IKBKE  | pp | TALDO1  |
| IKBKE  | pp | GRB2    |
| IKBKE  | pp | UBE2N   |
| IKBKE  | pp | PITPNB  |
| IKBKE  | pp | MRPL14  |
| IKBKE  | pp | MRPL12  |
| IKBKE  | pp | BCAP31  |
| IKBKE  | pp | NAP1L1  |
| IKBKE  | pp | HDAC2   |
| IKBKE  | pp | GMFB    |
| IKBKE  | pp | SND1    |
| IKBKE  | pp | PSMD12  |
| IKBKE  | pp | APRT    |
| IKBKE  | pp | TSN     |
| S100A8 | pp | PDCD11  |
| S100A8 | pp | LRRK1   |
| S100A8 | pp | KLC2    |
| ILF2   | pp | EEF1G   |
| RIT1   | pp | AP2A1   |
| ACP1   | pp | TNIK    |
| ACP1   | pp | PAK2    |
| DEGS1  | pp | EGFR    |
| ARF1   | pp | ARFIP1  |
| ARF1   | pp | COPG    |
| ARF1   | pp | COPB2   |
| ARF1   | pp | EEF1G   |
| ARF1   | pp | AP4M1   |
| PARP1  | pp | RELA    |
| PSEN2  | pp | NOTCH1  |
| PSEN2  | pp | NCSTN   |
| PSEN2  | pp | BCL2L1  |
| PSEN2  | pp | CIB1    |
| PSEN2  | pp | PSENE1  |
| LBR    | pp | YWHAG   |
| LBR    | pp | PHLDA3  |
| RHOB   | pp | ARHGEF3 |
| EML4   | pp | ARL4D   |
| EML4   | pp | ARIH2   |

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| RPS27A  | pp | RPL37    |
| RPS27A  | pp | EGFR     |
| RPS27A  | pp | EIF3H    |
| RPS27A  | pp | RPS3     |
| RPS27A  | pp | FAU      |
| RPS27A  | pp | UCHL1    |
| RPS27A  | pp | RPL30    |
| RPS27A  | pp | RPL27A   |
| RPS27A  | pp | RPS21    |
| RPS27A  | pp | RPL38    |
| RPS27A  | pp | RPL15    |
| RPS27A  | pp | TRAF6    |
| RPS27A  | pp | SMAD2    |
| RPS27A  | pp | RPLP2    |
| RPS27A  | pp | EIF3K    |
| RPS27A  | pp | RPL35A   |
| RPS27A  | pp | DAZAP2   |
| RPS27A  | pp | PARK2    |
| RPS27A  | pp | RPS23    |
| RPS27A  | pp | RPL14    |
| RPS27A  | pp | RPS28    |
| RPS27A  | pp | RPL37A   |
| RPS27A  | pp | RPL10A   |
| CIAO1   | pp | FAM96B   |
| CIAO1   | pp | FAM96A   |
| CIAO1   | pp | CLPX     |
| CIAO1   | pp | COPB2    |
| CIAO1   | pp | KATNA1   |
| CIAO1   | pp | IPO4     |
| CIAO1   | pp | HDAC2    |
| CIAO1   | pp | MYO1C    |
| CIAO1   | pp | BAT3     |
| CIAO1   | pp | DCTN1    |
| DUSP11  | pp | QARS     |
| PKP4    | pp | GABARAP  |
| RAB5A   | pp | AGTR1    |
| RAB5A   | pp | RIN1     |
| FAM134A | pp | CHD3     |
| CCBP2   | pp | CCL5     |
| CCBP2   | pp | CCL19    |
| CCBP2   | pp | CCL13    |
| GOLGA4  | pp | MCC      |
| GOLGA4  | pp | NDN      |
| ATG3    | pp | ATG12    |
| ATG3    | pp | GABARAP  |
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| SRPRB   | pp | ARF6     |



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| SRPRB   | pp | PHLDA3  |
| SRPRB   | pp | MAGED1  |
| SRPRB   | pp | NDN     |
| SRPRB   | pp | PTP4A3  |
| SRPRB   | pp | CASP4   |
| SRPRB   | pp | GSTK1   |
| TRPC1   | pp | MX1     |
| LPP     | pp | SHPRH   |
| SETD7   | pp | TAF10   |
| RPL37   | pp | FAU     |
| RPL37   | pp | RPL30   |
| RPL37   | pp | RPL27A  |
| RPL37   | pp | RPL38   |
| RPL37   | pp | RPL15   |
| RPL37   | pp | RPL35A  |
| RPL37   | pp | RPL37A  |
| RPL37   | pp | RPL10A  |
| PIK3R1  | pp | AXL     |
| PIK3R1  | pp | IRS1    |
| PIK3R1  | pp | YWHAG   |
| PIK3R1  | pp | INSR    |
| PIK3R1  | pp | GRB2    |
| PIK3R1  | pp | IRS2    |
| RASA1   | pp | G3BP1   |
| RASA1   | pp | EGFR    |
| RASA1   | pp | DOK2    |
| RASA1   | pp | NCK1    |
| RASA1   | pp | HRAS    |
| RASA1   | pp | ARHGAP1 |
| RASA1   | pp | GRB2    |
| RASA1   | pp | ANXA6   |
| RASA1   | pp | SRC     |
| RASA1   | pp | GNB2L1  |
| BTF3    | pp | ARF6    |
| BTF3    | pp | TRAF6   |
| BTF3    | pp | PAK2    |
| TNFAIP8 | pp | PTP4A2  |
| ATG12   | pp | ATG10   |
| ATG12   | pp | PLSCR1  |
| ATG12   | pp | ATG7    |
| NFKBIE  | pp | REL     |
| NFKBIE  | pp | RELA    |
| GNA12   | pp | F2R     |
| EGFR    | pp | LYN     |
| EGFR    | pp | SEC13   |
| EGFR    | pp | SHC1    |
| EGFR    | pp | ATP5C1  |

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| EGFR    | pp | ARF4     |
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| EGFR    | pp | SFN      |
| EGFR    | pp | GRB2     |
| EGFR    | pp | ERBB4    |
| EGFR    | pp | HOXC10   |
| EGFR    | pp | MUC1     |
| EGFR    | pp | SRC      |
| EGFR    | pp | CTNND1   |
| EGFR    | pp | SNX2     |
| IGFBP3  | pp | ADAM12   |
| IGFBP3  | pp | RXRA     |
| SLC12A9 | pp | CPSF4    |
| LUC7L2  | pp | PEA15    |
| LUC7L2  | pp | CHD3     |
| LUC7L2  | pp | YWHAG    |
| LUC7L2  | pp | LPL      |
| LUC7L2  | pp | MAN2A2   |
| LUC7L2  | pp | SVIL     |
| SH3KBP1 | pp | GRB2     |
| CASK    | pp | SDC2     |
| MSN     | pp | TSC1     |
| MSN     | pp | SNCG     |
| MSN     | pp | TRAF6    |
| TAF1    | pp | TAF10    |
| TAF1    | pp | TAF7     |
| NONO    | pp | POLR2A   |
| CCDC120 | pp | DAZAP2   |
| OGT     | pp | HCFC1    |
| OGT     | pp | TRAK1    |
| IL2RG   | pp | SHC1     |
| CETN2   | pp | SFI1     |
| DOK2    | pp | NCK1     |
| DOK2    | pp | KIAA1279 |
| POLR2K  | pp | SSRP1    |
| POLR2K  | pp | TCEB1    |
| POLR2K  | pp | POLR2H   |
| POLR2K  | pp | SNAPC3   |
| POLR2K  | pp | METTL3   |
| POLR2K  | pp | POLR2G   |
| POLR2K  | pp | SNAPC5   |
| POLR2K  | pp | POLR2A   |
| POLR2K  | pp | WHSC2    |
| EIF3H   | pp | RPS3     |

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| EIF3H    | pp | FAU      |
| EIF3H    | pp | DISC1    |
| EIF3H    | pp | RPS21    |
| EIF3H    | pp | EIF3K    |
| EIF3H    | pp | RPS23    |
| EIF3H    | pp | RPS28    |
| NDUFB9   | pp | FEZ1     |
| CDKN2A   | pp | PSMC3    |
| CDKN2A   | pp | CDKN2AIP |
| CDKN2A   | pp | MCC      |
| CDKN2A   | pp | SERTAD1  |
| GSN      | pp | CASP4    |
| POLE3    | pp | DRAP1    |
| NOTCH1   | pp | MAML1    |
| NOTCH1   | pp | RBPJ     |
| NOTCH1   | pp | JAG2     |
| NOTCH1   | pp | XRCC6    |
| RSU1     | pp | LIMS1    |
| PARD3    | pp | PRKCI    |
| PARD3    | pp | YWHAB    |
| PARD3    | pp | YWHAG    |
| PARD3    | pp | PNMA1    |
| PARD3    | pp | PVRL3    |
| ZEB1     | pp | CTBP1    |
| ZEB1     | pp | DRAP1    |
| NRBF2    | pp | RXRA     |
| NRBF2    | pp | PPARA    |
| RPP30    | pp | RPP14    |
| TCF7L2   | pp | CTNNB1   |
| MKI67    | pp | MKI67IP  |
| GSTO1    | pp | TRAF6    |
| GSTO1    | pp | EEF1G    |
| RGS10    | pp | SAP18    |
| RGS10    | pp | ARF6     |
| BTBD10   | pp | DLG5     |
| APIP     | pp | NUDT18   |
| TNKS1BP1 | pp | TNKS     |
| SSRP1    | pp | TCEB1    |
| SSRP1    | pp | POLR2H   |
| SSRP1    | pp | POLR2G   |
| SSRP1    | pp | MCC      |
| SSRP1    | pp | POLR2A   |
| SSRP1    | pp | WHSC2    |
| CUGBP1   | pp | FUBP1    |
| RPS3     | pp | RPL30    |
| RPS3     | pp | EIF5B    |
| RPS3     | pp | RPL8     |

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| RPS3     | pp | RPL27A |
| RPS3     | pp | EEF2   |
| RPS3     | pp | RPS21  |
| RPS3     | pp | RPL38  |
| RPS3     | pp | RPL15  |
| RPS3     | pp | EIF3K  |
| RPS3     | pp | RPL14  |
| RPS3     | pp | RPL10A |
| ATM      | pp | H2AFX  |
| C11orf59 | pp | ABCF3  |
| P4HA3    | pp | P4HB   |
| HYOU1    | pp | EXT2   |
| HYOU1    | pp | ARF6   |
| HYOU1    | pp | MCC    |
| HYOU1    | pp | TRAF6  |
| HYOU1    | pp | HLA-G  |
| FEZ1     | pp | HEATR2 |
| FEZ1     | pp | TOMM20 |
| FEZ1     | pp | P4HB   |
| YTHDF1   | pp | GSTK1  |
| FAU      | pp | RPL30  |
| FAU      | pp | RPL8   |
| FAU      | pp | RPL27A |
| FAU      | pp | COPS6  |
| FAU      | pp | RPL38  |
| FAU      | pp | RPL15  |
| FAU      | pp | RPLP2  |
| FAU      | pp | EIF3K  |
| FAU      | pp | RPL35A |
| FAU      | pp | RPL14  |
| FAU      | pp | RPL37A |
| FAU      | pp | RPL10A |
| PPP4C    | pp | PPP4R1 |
| PPP4C    | pp | REL    |
| PPP4C    | pp | RELA   |
| PPP4C    | pp | BAT3   |
| ITGB1    | pp | TGOLN2 |
| ITGB1    | pp | PELO   |
| ITGB1    | pp | ITGA5  |
| ITGB1    | pp | VCAM1  |
| ITGB1    | pp | YWHAB  |
| ITGB1    | pp | SLC3A2 |
| ITGB1    | pp | PTK2   |
| ITGB1    | pp | GNB2L1 |
| SAP18    | pp | YWHAB  |
| SAP18    | pp | ATP5L  |
| SAP18    | pp | MAT2A  |

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| SAP18     | pp | YWHAG    |
| SAP18     | pp | PCBP3    |
| SAP18     | pp | IKZF1    |
| SAP18     | pp | KIAA1279 |
| PRSS23    | pp | RACGAP1  |
| PRSS23    | pp | NIPBL    |
| PRSS23    | pp | B2M      |
| PRSS23    | pp | HSPA4    |
| PRSS23    | pp | SHMT1    |
| PRSS23    | pp | ACTG1    |
| PRSS23    | pp | TRAPPC4  |
| CCT5      | pp | HDAC3    |
| DOCK1     | pp | ELMO1    |
| DOCK1     | pp | CRK      |
| DOCK1     | pp | RHOG     |
| DLAT      | pp | PDHB     |
| FOXO1     | pp | SMAD3    |
| THRB      | pp | NR2F6    |
| THRB      | pp | PRMT2    |
| THRB      | pp | COPS2    |
| EXT2      | pp | TCEB1    |
| EXT2      | pp | FABP4    |
| EXT2      | pp | SNCG     |
| EXT2      | pp | EXT1     |
| C14orf133 | pp | VPS33B   |
| UPF2      | pp | EXOSC4   |
| EPS8      | pp | SHC1     |
| EPS8      | pp | BAIAP2   |
| EPS8      | pp | SRC      |
| PIGF      | pp | PIGO     |
| PIGF      | pp | PIGG     |
| SLC25A4   | pp | AR       |
| SACS      | pp | TSC22D4  |
| BAG3      | pp | HSPB8    |
| BAG3      | pp | DAZAP2   |
| HSPB8     | pp | HSPB7    |
| ATP5A1    | pp | ATP5J    |
| ATP5A1    | pp | ATP5O    |
| ATP5A1    | pp | ATP5C1   |
| ATP5A1    | pp | ATP5L    |
| ATP5A1    | pp | ATP5I    |
| PDE3B     | pp | YWHAB    |
| PFKM      | pp | MCC      |
| PELO      | pp | MCM7     |
| HNRPD     | pp | TRAF6    |
| UTRN      | pp | SNTB2    |
| UTRN      | pp | SNTB1    |

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| PTPRK   | pp | TK1     |
| RAD17   | pp | RAD9A   |
| RAD17   | pp | ATR     |
| MED21   | pp | MED14   |
| CDYL    | pp | HDAC2   |
| DAB2    | pp | DIP2A   |
| DAB2    | pp | DVL3    |
| DAB2    | pp | AP2M1   |
| DAB2    | pp | SMAD3   |
| DAB2    | pp | GRB2    |
| DAB2    | pp | SRC     |
| BCL2L11 | pp | YWHAB   |
| BCL2L11 | pp | BCL2L1  |
| BCL2L11 | pp | BCL2    |
| SMARCA5 | pp | SATB1   |
| SMARCA5 | pp | BAZ1A   |
| HNRNPU  | pp | U2AF1   |
| HNRNPU  | pp | PCF11   |
| HNRNPU  | pp | CPSF2   |
| HNRNPU  | pp | CDC40   |
| HNRNPU  | pp | CD2BP2  |
| HNRNPU  | pp | SF3B5   |
| HNRNPU  | pp | CLP1    |
| HNRNPU  | pp | SF3A3   |
| HNRNPU  | pp | SF3B3   |
| FAM100A | pp | MED8    |
| RPIA    | pp | NIF3L1  |
| PTPRD   | pp | MTSS1   |
| CNKSR3  | pp | CTNNB1  |
| CNKSR3  | pp | NET1    |
| GTF2E1  | pp | ERCC3   |
| GTF2E1  | pp | GTF2E2  |
| CFDP1   | pp | SMAD3   |
| CEBPG   | pp | DDIT3   |
| SFRS12  | pp | SNRPD1  |
| UCHL1   | pp | TNIK    |
| UCHL1   | pp | MCC     |
| UCHL1   | pp | TRAF6   |
| TNIK    | pp | BUB3    |
| TNIK    | pp | CBR1    |
| TNIK    | pp | PRPSAP1 |
| TNIK    | pp | RRM1    |
| TNIK    | pp | PCBP1   |
| TNIK    | pp | TBCA    |
| TNIK    | pp | DHCR7   |
| TNIK    | pp | PSMD1   |
| TNIK    | pp | TYMS    |

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| TNIK      | pp | MRPL14   |
| TNIK      | pp | MRPS16   |
| TNIK      | pp | PCBP3    |
| TNIK      | pp | COPB2    |
| TNIK      | pp | PSMD13   |
| TNIK      | pp | BCAP31   |
| ENAH      | pp | APBB1    |
| BUB3      | pp | TRAF6    |
| TCEB1     | pp | MED8     |
| TCEB1     | pp | POLR2H   |
| TCEB1     | pp | POLR2G   |
| TCEB1     | pp | TRAF6    |
| TCEB1     | pp | POLR2A   |
| TCEB1     | pp | WHSC2    |
| ATP5J     | pp | ATP5G1   |
| ATP5J     | pp | ATP5C1   |
| ATP5J     | pp | ATP5I    |
| EME1      | pp | MUS81    |
| FBXL18    | pp | PLSCR1   |
| MARCKS    | pp | TRAF6    |
| RHOC      | pp | MCC      |
| RHOC      | pp | TRAF6    |
| RHOC      | pp | ARHGAP1  |
| SLC16A1   | pp | TRAF6    |
| LARP1     | pp | YWHAB    |
| LARP1     | pp | YWHAG    |
| NUP205    | pp | PHLDA3   |
| NUP205    | pp | MAGED1   |
| ELMO1     | pp | RHOG     |
| MED7      | pp | HGS      |
| SLA       | pp | PAFAH1B2 |
| VPS37A    | pp | VPS28    |
| VPS37A    | pp | HGS      |
| KCNMA1    | pp | CACNA1H  |
| TIAM1     | pp | YWHAG    |
| PCDH1     | pp | SMAD3    |
| RPL30     | pp | EIF5B    |
| RPL30     | pp | RPL8     |
| RPL30     | pp | RPL27A   |
| RPL30     | pp | EEF2     |
| RPL30     | pp | RPS21    |
| RPL30     | pp | RPL38    |
| RPL30     | pp | RPL15    |
| RPL30     | pp | RPL35A   |
| RPL30     | pp | RPL37A   |
| RPL30     | pp | RPL10A   |
| RAB11FIP1 | pp | RAB4A    |

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| UTP14A   | pp | AKTIP    |
| UTP14A   | pp | LSM3     |
| UTP14A   | pp | ZNF24    |
| UTP14A   | pp | ARIH2    |
| UTP14A   | pp | LDOC1    |
| UTP14A   | pp | RABIF    |
| AIFM1    | pp | TSC22D4  |
| ZFYVE9   | pp | TGFBR2   |
| ZFYVE9   | pp | SMAD3    |
| ZFYVE9   | pp | SMAD2    |
| ZFYVE9   | pp | DAZAP2   |
| ZFYVE9   | pp | PPP1CC   |
| ZFYVE9   | pp | BAT3     |
| RBPMS    | pp | FASTK    |
| RBPMS    | pp | SF1      |
| RBPMS    | pp | CNNM3    |
| RBPMS    | pp | DAZAP2   |
| NECAP2   | pp | PLSCR1   |
| MMP14    | pp | ADI1     |
| DHRS1    | pp | PLSCR1   |
| RNF111   | pp | SMAD3    |
| DYRK1A   | pp | YWHAB    |
| DYRK1A   | pp | YWHAG    |
| KCNJ15   | pp | IL16     |
| SNX22    | pp | DVL3     |
| BRAF     | pp | YWHAB    |
| BRAF     | pp | MAP2K1   |
| BRAF     | pp | YWHAG    |
| BRAF     | pp | HRAS     |
| TNFRSF14 | pp | DCD      |
| TNFRSF14 | pp | HPRT1    |
| TNFRSF14 | pp | CHD3     |
| TNFRSF14 | pp | HDAC3    |
| TNFRSF14 | pp | SLC25A22 |
| TNFRSF14 | pp | NRIP1    |
| TNFRSF14 | pp | SSR4     |
| TNFRSF14 | pp | P4HB     |
| PANK4    | pp | PEA15    |
| NCK1     | pp | TBK1     |
| NCK1     | pp | SOCS1    |
| FANCC    | pp | HSP90B1  |
| FANCC    | pp | FANCA    |
| EIF5B    | pp | RPL8     |
| EIF5B    | pp | RPL27A   |
| CD1D     | pp | B2M      |
| CD1D     | pp | CALR     |
| ZFAND2B  | pp | DAZAP2   |



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| TAGLN2 | pp | MCC      |
| TAGLN2 | pp | TRAF6    |
| DUSP23 | pp | RPL8     |
| NBL1   | pp | BAT3     |
| DEDD   | pp | CASP3    |
| DEDD   | pp | FADD     |
| FCER1G | pp | PLCG2    |
| IFNAR2 | pp | GNB2L1   |
| GART   | pp | ARF6     |
| SON    | pp | YWHAB    |
| SON    | pp | YWHAG    |
| ATP5O  | pp | ATP5C1   |
| ATP5O  | pp | TRAF6    |
| C1QC   | pp | C1QB     |
| C1QC   | pp | C1QA     |
| ATP5G1 | pp | ATP5L    |
| ATP5G1 | pp | ATP5I    |
| SNF8   | pp | NIF3L1   |
| RUNX1  | pp | TLE1     |
| CBR1   | pp | MCC      |
| CBR1   | pp | TRAF6    |
| CBR3   | pp | ARIH2    |
| ACTC1  | pp | RNASE4   |
| PSMB4  | pp | PSMC2    |
| PSMB4  | pp | PSMD6    |
| PSMB4  | pp | SMAD1    |
| PSMB4  | pp | PSMD1    |
| PSMB4  | pp | TRAF6    |
| PSMB4  | pp | PSMD2    |
| PSMB4  | pp | PSMD13   |
| PSMB4  | pp | PSMD12   |
| BTG2   | pp | CNOT7    |
| UBR1   | pp | FTH1     |
| UBR1   | pp | SERPINB9 |
| UBR1   | pp | ARL4D    |
| AMFR   | pp | UBE2G2   |
| MED8   | pp | PHYHIP   |
| CTBP1  | pp | CTBP2    |
| CTBP1  | pp | TGIF1    |
| CTBP1  | pp | NRIP1    |
| CTBP1  | pp | IKZF1    |
| CTBP1  | pp | HDAC2    |
| DFFA   | pp | CASP3    |
| DFFA   | pp | YWHAB    |
| DFFA   | pp | YWHAG    |
| DFFA   | pp | MCC      |
| U2AF1  | pp | NXF1     |

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| U2AF1  | pp | PCF11   |
| U2AF1  | pp | SNRPD1  |
| U2AF1  | pp | CDC40   |
| U2AF1  | pp | CD2BP2  |
| U2AF1  | pp | PCBP1   |
| U2AF1  | pp | CLP1    |
| U2AF1  | pp | SF3A3   |
| U2AF1  | pp | RNPS1   |
| ITGB2  | pp | PTK2    |
| ITGB2  | pp | GNB2L1  |
| RALGDS | pp | HRAS    |
| RALGDS | pp | RAP2B   |
| RALGDS | pp | NF2     |
| PCNT   | pp | DISC1   |
| S100B  | pp | S100A1  |
| S100B  | pp | S100A11 |
| S100B  | pp | ANXA6   |
| S100B  | pp | S100A6  |
| PRMT2  | pp | RXRA    |
| PRMT2  | pp | NCOA6   |
| SPTBN4 | pp | DISC1   |
| SAFB   | pp | CHD3    |
| SAFB   | pp | POLR2A  |
| S100A1 | pp | ATP2A2  |
| S100A1 | pp | S100A4  |
| S100A1 | pp | NIF3L1  |
| S100A1 | pp | ANXA6   |
| SHC1   | pp | AXL     |
| SHC1   | pp | IRS1    |
| SHC1   | pp | PTK2    |
| SHC1   | pp | INSR    |
| SHC1   | pp | GRB2    |
| SHC1   | pp | PTPN11  |
| SHC1   | pp | AP2A2   |
| SHC1   | pp | AP2A1   |
| SHC1   | pp | SRC     |
| VPS11  | pp | LSM1    |
| VPS28  | pp | GABARAP |
| SQSTM1 | pp | PRKCI   |
| SQSTM1 | pp | TRAF6   |
| SQSTM1 | pp | RAD23A  |
| RPL8   | pp | RPL27A  |
| RPL8   | pp | EEF2    |
| RPL8   | pp | RPL38   |
| RPL8   | pp | ARIH2   |
| RPL8   | pp | RPL10A  |
| PSMC2  | pp | PSMD6   |

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| PSMC2   | pp | PSMC3     |
| PSMC2   | pp | PSMD1     |
| PSMC2   | pp | TRAF6     |
| PSMC2   | pp | PSMD2     |
| PSMC2   | pp | PSMD13    |
| PSMC2   | pp | PSMD12    |
| DVL3    | pp | CTNNB1    |
| DVL3    | pp | TNFAIP8L1 |
| AP2M1   | pp | GAK       |
| AP2M1   | pp | IKZF1     |
| AP2M1   | pp | LAMP1     |
| ABCF3   | pp | MOCS2     |
| PRPSAP1 | pp | CD2BP2    |
| PRPSAP1 | pp | TRAF6     |
| PRPSAP1 | pp | PTP4A3    |
| CCL5    | pp | IGFBP7    |
| CCL5    | pp | CCR1      |
| CCL5    | pp | GRB2      |
| DCD     | pp | CD2BP2    |
| DCD     | pp | RAD51L3   |
| DCD     | pp | CDC42BPB  |
| MPP3    | pp | RAB31     |
| MPP3    | pp | SF3B3     |
| RACGAP1 | pp | YWHAB     |
| RACGAP1 | pp | YWHAG     |
| SHANK2  | pp | SSTR2     |
| TAF6L   | pp | TAF10     |
| NXF1    | pp | MAGOH     |
| NXF1    | pp | SLBP      |
| STX5    | pp | COPS6     |
| STX5    | pp | BAT3      |
| MAGOH   | pp | YWHAG     |
| MAGOH   | pp | RNPS1     |
| RBBP4   | pp | SAP30     |
| RBBP4   | pp | HDAC3     |
| RBBP4   | pp | SUZ12     |
| RBBP4   | pp | MTA1      |
| RBBP4   | pp | XRCC6     |
| RBBP4   | pp | HDAC2     |
| FUBP1   | pp | CHD3      |
| FUBP1   | pp | SNCG      |
| FUBP1   | pp | TLE1      |
| GBP2    | pp | SERPINB9  |
| AGL     | pp | GYG1      |
| ARPC5   | pp | MAPKAPK2  |
| PEA15   | pp | FADD      |
| PEX19   | pp | PEX11A    |

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| PEX19   | pp | ABCD2    |
| NCSTN   | pp | PSENN    |
| ATF3    | pp | SMAD3    |
| ATF3    | pp | DDIT3    |
| ATF3    | pp | JUN      |
| TFB2M   | pp | PHLDA3   |
| REL     | pp | TNIP2    |
| REL     | pp | RELA     |
| DISC1   | pp | NDEL1    |
| DISC1   | pp | MAP1A    |
| DISC1   | pp | ATF5     |
| CABC1   | pp | MAGED1   |
| SGCB    | pp | SGCD     |
| VPS72   | pp | CCDC85B  |
| ERCC3   | pp | DDB1     |
| ERCC3   | pp | ERCC4    |
| ERCC3   | pp | GTF2H5   |
| ERCC3   | pp | GTF2E2   |
| S100A11 | pp | TRAF6    |
| PMVK    | pp | PITPNA   |
| HIPK1   | pp | SNIP1    |
| ARPC2   | pp | CORO1B   |
| ARPC2   | pp | TRAF6    |
| CCT3    | pp | PAFAH1B2 |
| CCT3    | pp | HNRNPA0  |
| RNF25   | pp | RELA     |
| ADORA1  | pp | ADA      |
| SRGAP2  | pp | YWHAG    |
| AZI2    | pp | TBK1     |
| TGFBR2  | pp | SMAD3    |
| CLASP2  | pp | YWHAG    |
| SUCLG1  | pp | SUCLG2   |
| PRKCI   | pp | PNMA1    |
| RYBP    | pp | FADD     |
| THOC7   | pp | CHD3     |
| PSMD6   | pp | PSMC3    |
| PSMD6   | pp | PSMD1    |
| PSMD6   | pp | TRAF6    |
| PSMD6   | pp | PSMD2    |
| PSMD6   | pp | PSMD13   |
| PSMD6   | pp | PSMD12   |
| RPP14   | pp | POP5     |
| RPP14   | pp | RPP25    |
| ZDHHC3  | pp | SMAD1    |
| SNIP1   | pp | SMAD1    |
| SNIP1   | pp | SMAD2    |
| POLR2H  | pp | SNAPC3   |

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| POLR2H   | pp | METTL3    |
| POLR2H   | pp | POLR2G    |
| POLR2H   | pp | POLR1C    |
| POLR2H   | pp | SNAPC5    |
| POLR2H   | pp | TRAF6     |
| POLR2H   | pp | POLR2L    |
| POLR2H   | pp | POLR2A    |
| POLR2H   | pp | WHSC2     |
| POLR2H   | pp | POLR1D    |
| SENP2    | pp | SUMO3     |
| TKT      | pp | MCC       |
| SLBP     | pp | LSM10     |
| HMGB2    | pp | TRAF6     |
| ANXA5    | pp | ACTG1     |
| KIAA1712 | pp | MCRS1     |
| KIAA1712 | pp | ZNF250    |
| LSM6     | pp | LSM3      |
| LSM6     | pp | LSM1      |
| LSM6     | pp | MCRS1     |
| CASP3    | pp | HCLS1     |
| CASP3    | pp | TGM2      |
| CASP3    | pp | DCTN1     |
| UBLCP1   | pp | TSC22D4   |
| UBLCP1   | pp | PSMD2     |
| HEY1     | pp | SMAD3     |
| CTSB     | pp | S100A10   |
| CTSB     | pp | BAT3      |
| PXMP3    | pp | TLE1      |
| ORC5L    | pp | MCM7      |
| CDK5     | pp | CTNNB1    |
| CDK5     | pp | GAK       |
| GEM      | pp | PDLIM7    |
| SNAPC3   | pp | ZNF143    |
| SNAPC3   | pp | SNAPC5    |
| ABCA1    | pp | FADD      |
| ABCA1    | pp | SNTB1     |
| ZHX1     | pp | SERPINB9  |
| ZHX1     | pp | TNFRSF10C |
| ZHX1     | pp | ZHX3      |
| ZHX1     | pp | AKR1C3    |
| GAPVD1   | pp | YWHAB     |
| STOML2   | pp | MCC       |
| CFL2     | pp | ACTG1     |
| PCF11    | pp | CPSF2     |
| PCF11    | pp | SNRPD1    |
| PCF11    | pp | PCBP1     |
| PCF11    | pp | CLP1      |

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| PCF11    | pp | HNRNPA0  |
| PCF11    | pp | POLR2A   |
| PCF11    | pp | SF3A3    |
| PCF11    | pp | SF3B3    |
| PCF11    | pp | PCBP2    |
| C10orf10 | pp | PLSCR1   |
| ARF6     | pp | SLC3A2   |
| ARF6     | pp | MAT2A    |
| ARF6     | pp | KIF5B    |
| ARF6     | pp | TALDO1   |
| ARF6     | pp | SSR4     |
| ARF6     | pp | PCBP3    |
| ARF6     | pp | DCTN1    |
| NUDT5    | pp | MCC      |
| NUDT5    | pp | TRAF6    |
| ATP5C1   | pp | ATP5L    |
| ATP5C1   | pp | ATP5I    |
| ATP5C1   | pp | PAWR     |
| ATP5C1   | pp | PJA1     |
| SNAPC4   | pp | SNAPC5   |
| TSC1     | pp | YWHAB    |
| TSC1     | pp | YWHAG    |
| HPRT1    | pp | MCC      |
| HPRT1    | pp | TRAF6    |
| DDX21    | pp | MCC      |
| DDX21    | pp | TRAF6    |
| DDX21    | pp | CDC42BPB |
| CASP7    | pp | DCTN1    |
| METTL3   | pp | POLR2G   |
| METTL3   | pp | POLR2A   |
| PSMC3    | pp | PSMD1    |
| PSMC3    | pp | TRAF6    |
| PSMC3    | pp | PSMD2    |
| PSMC3    | pp | PSMD13   |
| PSMC3    | pp | PSMD12   |
| CPSF2    | pp | SNRPD1   |
| CPSF2    | pp | PCBP1    |
| CPSF2    | pp | CLP1     |
| CPSF2    | pp | HNRNPA0  |
| CPSF2    | pp | POLR2A   |
| CPSF2    | pp | SF3A3    |
| CPSF2    | pp | SF3B3    |
| CPSF2    | pp | PCBP2    |
| CPSF2    | pp | RNPS1    |
| MOAP1    | pp | BCL2L1   |
| MOAP1    | pp | BCL2     |
| MOAP1    | pp | MAGEH1   |

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| BTRC    | pp | WEE1     |
| BTRC    | pp | CTNNB1   |
| BTRC    | pp | RELA     |
| NOLC1   | pp | YWHAG    |
| COPS2   | pp | GPS1     |
| COPS2   | pp | RXRA     |
| COPS2   | pp | NIF3L1   |
| PCBD1   | pp | NUDT18   |
| PCBD1   | pp | NIF3L1   |
| ARIH1   | pp | UBE2L3   |
| PLEKHF1 | pp | KIAA1279 |
| APBB1   | pp | EVL      |
| TAF10   | pp | TAF7     |
| TAF10   | pp | POLR2A   |
| TAF10   | pp | TRRAP    |
| RPL27A  | pp | RPL38    |
| RPL27A  | pp | RPL15    |
| RPL27A  | pp | RPL35A   |
| RPL27A  | pp | RPL37A   |
| RPL27A  | pp | RPL10A   |
| WEE1    | pp | YWHAB    |
| WEE1    | pp | YWHAG    |
| MAPK7   | pp | YWHAB    |
| MCM7    | pp | MCC      |
| MCM7    | pp | TRAF6    |
| MCM7    | pp | PTP4A3   |
| MCM7    | pp | GSTK1    |
| B2M     | pp | BAT3     |
| B2M     | pp | HLA-B    |
| B2M     | pp | HLA-G    |
| PPIB    | pp | MCC      |
| PPIB    | pp | TRAF6    |
| CLPX    | pp | PTP4A3   |
| STAT6   | pp | SND1     |
| YWHAB   | pp | SRRM2    |
| YWHAB   | pp | MAP3K2   |
| YWHAB   | pp | KIF5B    |
| YWHAB   | pp | AKAP13   |
| YWHAB   | pp | KCNK3    |
| YWHAB   | pp | CTPS     |
| YWHAB   | pp | RIN1     |
| YWHAB   | pp | UCP2     |
| YWHAB   | pp | MLXIP    |
| YWHAB   | pp | EDC3     |
| YWHAB   | pp | IRS2     |
| YWHAB   | pp | PIK3R4   |
| YWHAB   | pp | SRC      |

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| YWHAB   | pp | MAP3K3   |
| YWHAB   | pp | RNPS1    |
| TSC22D4 | pp | PCBP1    |
| TSC22D4 | pp | PRNP     |
| TSC22D4 | pp | NIF3L1   |
| TSC22D4 | pp | GNB2L1   |
| SMAD3   | pp | ZEB2     |
| SMAD3   | pp | JUNB     |
| SMAD3   | pp | SMAD2    |
| SMAD3   | pp | JUN      |
| SMAD3   | pp | KRT10    |
| SMAD3   | pp | XRCC6    |
| SMAD3   | pp | SREBF2   |
| SMAD3   | pp | TGM2     |
| AKTIP   | pp | CTBP2    |
| MAPRE2  | pp | PHLDA3   |
| MAPRE2  | pp | NIF3L1   |
| PDIA3   | pp | STAT3    |
| PDIA3   | pp | CALR     |
| PDIA3   | pp | HLA-G    |
| NUDT21  | pp | CLP1     |
| NUDT21  | pp | NIF3L1   |
| SNRPD1  | pp | CDC40    |
| SNRPD1  | pp | CD2BP2   |
| SNRPD1  | pp | SF3B5    |
| SNRPD1  | pp | CLP1     |
| SNRPD1  | pp | HNRNPA0  |
| SNRPD1  | pp | GEMIN4   |
| SNRPD1  | pp | SF3A3    |
| SNRPD1  | pp | SF3B3    |
| GOLGA2  | pp | ZNF250   |
| CRK     | pp | IRS1     |
| CRK     | pp | GRB2     |
| CRK     | pp | IRS2     |
| CRK     | pp | PLSCR1   |
| IGF2    | pp | IGF2R    |
| POP5    | pp | RPP25    |
| ATP5L   | pp | ATP5I    |
| ATP5L   | pp | PHLDA3   |
| RRM1    | pp | MCC      |
| RRM1    | pp | GLRX     |
| RAB8A   | pp | BAT3     |
| MVD     | pp | EEF1G    |
| MVD     | pp | EIF4EBP1 |
| TUBA1A  | pp | SIAH1    |
| AXL     | pp | GRB2     |
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| LAIR1    | pp | PTPN11   |
| DAPK3    | pp | PAWR     |
| EEF2     | pp | RPL10A   |
| ICT1     | pp | MCC      |
| TK1      | pp | COPS6    |
| TK1      | pp | DRAP1    |
| TK1      | pp | TLE1     |
| SRRM2    | pp | YWHAG    |
| SRRM2    | pp | RNPS1    |
| DDB1     | pp | TRAF6    |
| DDB1     | pp | GSTK1    |
| RAB3IL1  | pp | NUDT18   |
| POLR2G   | pp | POLR2L   |
| POLR2G   | pp | POLR2A   |
| POLR2G   | pp | WHSC2    |
| SLC3A2   | pp | PHLDA3   |
| SLC3A2   | pp | PTP4A3   |
| SLC3A2   | pp | GSTK1    |
| CTNNB1   | pp | AR       |
| CTNNB1   | pp | CTNNBIP1 |
| CTNNB1   | pp | MUC1     |
| FADD     | pp | MYD88    |
| BATF2    | pp | DAZAP2   |
| SF1      | pp | PLSCR1   |
| SF1      | pp | PRPF40A  |
| SF1      | pp | WWP2     |
| COPS6    | pp | PHYHIP   |
| COPS6    | pp | ZEB2     |
| COPS6    | pp | SERPINB9 |
| COPS6    | pp | MCC      |
| COPS6    | pp | ZNF24    |
| COPS6    | pp | RPL15    |
| COPS6    | pp | LPL      |
| COPS6    | pp | COX5A    |
| COPS6    | pp | PSAP     |
| COPS6    | pp | S100A10  |
| COPS6    | pp | C1orf174 |
| COPS6    | pp | PBX2     |
| PAFAH1B2 | pp | SNUPN    |
| PAFAH1B2 | pp | MCC      |
| PAFAH1B2 | pp | TRAF6    |
| PAFAH1B2 | pp | PARK2    |
| PAFAH1B2 | pp | ZFP36L1  |
| DDIT4    | pp | HSPA4    |
| RBPJ     | pp | NCOR2    |
| DNAJC7   | pp | RAD9A    |
| KIF5C    | pp | YWHAG    |

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| PDHB    | pp | MCC     |
| FAM107A | pp | LDOC1   |
| IRF2    | pp | RELA    |
| 2-Sep   | pp | DAZAP2  |
| 2-Sep   | pp | 9-Sep   |
| MLKL    | pp | PBX2    |
| CDC40   | pp | CD2BP2  |
| CDC40   | pp | PCBP1   |
| CDC40   | pp | CLP1    |
| CDC40   | pp | HNRNPA0 |
| CDC40   | pp | SF3A3   |
| CDC40   | pp | SF3B3   |
| CDC40   | pp | PCBP2   |
| STIP1   | pp | PRNP    |
| STIP1   | pp | TRAF6   |
| PHYHIP  | pp | FAM131A |
| PHYHIP  | pp | PNPLA2  |
| PHYHIP  | pp | S100A13 |
| PHYHIP  | pp | SUPT5H  |
| SDPR    | pp | NUDT18  |
| FNTA    | pp | PTP4A2  |
| FNTA    | pp | PTP4A3  |
| STAT3   | pp | HDAC3   |
| STAT3   | pp | RELA    |
| STAT3   | pp | PTPN2   |
| STAT3   | pp | PTPN11  |
| STAT3   | pp | HDAC2   |
| STAT3   | pp | SRC     |
| CNNM3   | pp | PTP4A2  |
| CNNM3   | pp | PTP4A3  |
| GSTM4   | pp | TLE1    |
| SNTB2   | pp | ERBB4   |
| TNIP2   | pp | RELA    |
| MAT2A   | pp | TRAF6   |
| LETM1   | pp | MCC     |
| MAP2K1  | pp | TRIB1   |
| MAP2K1  | pp | HRAS    |
| IRS1    | pp | INSR    |
| IRS1    | pp | GRB2    |
| IRS1    | pp | IRS2    |
| MECP2   | pp | PRPF40A |
| AR      | pp | PA2G4   |
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| CD2BP2  | pp | PCBP1   |

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| CD2BP2 | pp | PRPF8   |
| CD2BP2 | pp | DDX23   |
| CD2BP2 | pp | P4HB    |
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| PTK2   | pp | GRB2    |
| PTK2   | pp | PTPN11  |
| PTK2   | pp | CD47    |
| PTK2   | pp | SRC     |
| SDC2   | pp | NF1     |
| CLIC4  | pp | MCC     |
| ZEB2   | pp | SMAD1   |
| ZEB2   | pp | SMAD2   |
| PCBP1  | pp | SF3B5   |
| PCBP1  | pp | CLP1    |
| PCBP1  | pp | TRAF6   |
| PCBP1  | pp | HNRNPA0 |
| PCBP1  | pp | PUF60   |
| PCBP1  | pp | SF3A3   |
| PCBP1  | pp | SF3B3   |
| PCBP1  | pp | PDLIM7  |
| PCBP1  | pp | PCBP2   |
| PCBP1  | pp | GSTK1   |
| DCXR   | pp | TRAF6   |
| DCXR   | pp | GSTK1   |
| UGP2   | pp | ARIH2   |
| ASL    | pp | QARS    |
| ZNF764 | pp | PLSCR1  |
| MAP3K2 | pp | YWHAG   |
| SF3B5  | pp | HNRNPA0 |
| SF3B5  | pp | SF3A3   |
| SF3B5  | pp | SF3B3   |
| SF3B5  | pp | PCBP2   |
| CHD3   | pp | PUF60   |
| CHD3   | pp | SUMO2   |
| CHD3   | pp | MAN2A2  |
| CHD3   | pp | MAFG    |
| CHD3   | pp | ADH5    |
| YWHAG  | pp | KIF5B   |
| YWHAG  | pp | AKAP13  |
| YWHAG  | pp | CTPS    |
| YWHAG  | pp | DENND4A |
| YWHAG  | pp | KLC2    |
| YWHAG  | pp | SH3BP5L |
| YWHAG  | pp | BAIAP2  |
| YWHAG  | pp | SAMD4B  |
| YWHAG  | pp | EDC3    |
| YWHAG  | pp | CLK3    |

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| YWHAG    | pp | PUF60    |
| YWHAG    | pp | IRS2     |
| YWHAG    | pp | SF3B3    |
| YWHAG    | pp | PIK3R4   |
| YWHAG    | pp | SRC      |
| YWHAG    | pp | MAP3K3   |
| YWHAG    | pp | RNPS1    |
| PDCD6IP  | pp | MCC      |
| PDCD6IP  | pp | PHLDA3   |
| PDCD6IP  | pp | PTP4A3   |
| PDCD6IP  | pp | GSTK1    |
| GLB1     | pp | CTNNBIP1 |
| GLB1     | pp | NEU1     |
| GABARAP  | pp | ULK1     |
| GABARAP  | pp | ATG7     |
| FABP4    | pp | SNCG     |
| SMAD1    | pp | AP2A2    |
| SMAD1    | pp | SMURF1   |
| HARS     | pp | TRAF6    |
| HARS     | pp | EEF1G    |
| PA2G4    | pp | TRAF6    |
| PA2G4    | pp | HDAC2    |
| ARL6IP1  | pp | ARL4D    |
| SERPINB9 | pp | XRCC6    |
| SERPINB9 | pp | PRPF40A  |
| SERPINB9 | pp | TLE1     |
| HSPA4    | pp | HDAC3    |
| SOCS6    | pp | INSR     |
| LSM3     | pp | LSM1     |
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| INSR     | pp | STAT5B   |
| INSR     | pp | SMAD2    |
| INSR     | pp | PTPN11   |
| INSR     | pp | SOCS1    |
| INSR     | pp | IRS2     |
| INSR     | pp | SNX2     |
| SCAND1   | pp | ZNF24    |
| KCNK3    | pp | S100A10  |
| MCC      | pp | TBCA     |
| MCC      | pp | PSMD2    |
| MCC      | pp | TALDO1   |
| MCC      | pp | RPS6KA3  |
| MCC      | pp | GRB2     |
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| MCC      | pp | MRPL14   |
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| MCC    | pp | PCBP3   |
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| MCC    | pp | STRN3   |
| MCC    | pp | TPM2    |
| MCC    | pp | APRT    |
| MCC    | pp | TSN     |
| POLR1C | pp | POLR1D  |
| LRRC8D | pp | EXOSC4  |
| TBCA   | pp | TRAF6   |
| BCL2L1 | pp | BCL2    |
| BCL2L1 | pp | RAD9A   |
| BCL2L1 | pp | BCAP31  |
| HDAC3  | pp | RELA    |
| HDAC3  | pp | GATA2   |
| HDAC3  | pp | MAPK11  |
| BCL2   | pp | BCAP31  |
| CTPS   | pp | TRAF6   |
| MLLT3  | pp | BCOR    |
| RPS21  | pp | EIF3K   |
| RPS21  | pp | RPS23   |
| RPS21  | pp | RPL14   |
| RPS21  | pp | RPS28   |
| PRNP   | pp | GRB2    |
| PRNP   | pp | BAT3    |
| QARS   | pp | PHLDA3  |
| MALT1  | pp | TRAF6   |
| MALT1  | pp | UBE2G2  |
| CEBPB  | pp | DDIT3   |
| BSG    | pp | PDLIM7  |
| POP7   | pp | RPP25   |
| GNB2   | pp | GNG12   |
| GNB2   | pp | TRAF6   |
| CLP1   | pp | HNRNPA0 |
| CLP1   | pp | SF3A3   |
| CLP1   | pp | PCBP2   |
| ZNF24  | pp | EEF1G   |
| TAF15  | pp | TAF7    |
| RPL38  | pp | PHLDA3  |
| RPL38  | pp | RPL15   |
| RPL38  | pp | TRAF6   |
| RPL38  | pp | RPL35A  |
| RPL38  | pp | RPL37A  |
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| DHCR7  | pp | NDN     |

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| MYD88     | pp | IRAK1   |
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| ADRBK1    | pp | SRC     |
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| RELA      | pp | PPARA   |
| RELA      | pp | HMGB1   |
| GOLGB1    | pp | BRMS1   |
| TNKS      | pp | FNBP1   |
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| PTPRM     | pp | GNB2L1  |
| FKBP2     | pp | BAT3    |
| TNFRSF10C | pp | FAM101B |
| PSMD1     | pp | TRAF6   |
| PSMD1     | pp | PSMD2   |
| PSMD1     | pp | PSMD13  |
| PSMD1     | pp | PSMD12  |
| TOMM20    | pp | DHFR    |
| TOMM20    | pp | BAT3    |
| PLK3      | pp | CIB1    |
| DDX23     | pp | RNPS1   |
| ZHX3      | pp | ZHX2    |
| PHLDA3    | pp | SSR4    |
| PHLDA3    | pp | MRPS16  |
| PHLDA3    | pp | NDUFA6  |
| PHLDA3    | pp | IPO4    |
| PHLDA3    | pp | MYO1C   |
| LIG4      | pp | NHEJ1   |
| ATP2A2    | pp | PTP4A3  |
| SNAPC5    | pp | BRCC3   |
| BRMS1     | pp | HDAC2   |
| RPL15     | pp | RPL35A  |
| RPL15     | pp | RPL37A  |
| RPL15     | pp | RPL10A  |
| HRAS      | pp | RIN1    |
| HRAS      | pp | GRB2    |
| CTBP2     | pp | TGIF1   |
| CTBP2     | pp | NRIP1   |
| CTBP2     | pp | FHL3    |
| TRAF6     | pp | PSMD2   |
| TRAF6     | pp | TALDO1  |
| TRAF6     | pp | KCTD12  |
| TRAF6     | pp | TUFM    |
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| TRAF6    | pp | IRAK1    |
| TRAF6    | pp | PSMD13   |
| TRAF6    | pp | UBE2L3   |
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| TRAF6    | pp | GMFB     |
| TRAF6    | pp | IGF2R    |
| TRAF6    | pp | SRC      |
| TRAF6    | pp | PSMD12   |
| TRAF6    | pp | IRAK4    |
| TRAF6    | pp | APRT     |
| TRAF6    | pp | TSN      |
| MARCKSL1 | pp | DCTN2    |
| PSMD2    | pp | PSMD13   |
| PSMD2    | pp | PSMD12   |
| ARHGAP1  | pp | SRC      |
| CHST1    | pp | SFN      |
| SART1    | pp | RNPS1    |
| CCDC85B  | pp | POLR2L   |
| CCDC85B  | pp | MCRS1    |
| CCDC85B  | pp | TEAD4    |
| RUVBL1   | pp | ACTG1    |
| BAIAP2   | pp | PBX2     |
| ARL4D    | pp | TLE1     |
| EID2B    | pp | EEF1G    |
| RPS6KA3  | pp | GSTK1    |
| ARIH2    | pp | UBE2L3   |
| ARIH2    | pp | EEF1G    |
| SLC25A22 | pp | CASP4    |
| CD163    | pp | LY6G5B   |
| RPLP2    | pp | RPL14    |
| GBA      | pp | PSAP     |
| POLR2L   | pp | POLR2A   |
| HNRNPA0  | pp | SF3B3    |
| HNRNPA0  | pp | PCBP2    |
| GRB2     | pp | PTPN11   |
| GRB2     | pp | CSF1R    |
| GRB2     | pp | MTA1     |
| GRB2     | pp | SOCS1    |
| GRB2     | pp | IRS2     |
| GRB2     | pp | PTPN1    |
| GRB2     | pp | ADA      |
| GRB2     | pp | SRC      |
| GRB2     | pp | DCTN1    |
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| EIF3K   | pp | RPS23    |
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| CALR    | pp | PAK2     |
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| MAGED1  | pp | PJA1     |
| MAGED1  | pp | COPG     |
| MAGED1  | pp | SIRT7    |
| MAGED1  | pp | BAT3     |
| PTPN11  | pp | MPZL1    |
| GEMIN4  | pp | PTP4A3   |
| PAK2    | pp | P4HB     |
| PAK2    | pp | PSMD13   |
| NRIP1   | pp | LDOC1    |
| NRIP1   | pp | RXRA     |
| NRIP1   | pp | PPARA    |
| SSR4    | pp | PTP4A3   |
| SSR4    | pp | CASP4    |
| POLR2A  | pp | WHSC2    |
| POLR2A  | pp | SUPT5H   |
| COPG    | pp | GSTK1    |
| LSM10   | pp | CASP4    |
| RAD51L1 | pp | RAD51L3  |
| RAD51L1 | pp | H1FO     |
| LDOC1   | pp | HGS      |
| LDOC1   | pp | ZNF250   |
| CSF1R   | pp | SOCS1    |
| RPL35A  | pp | RPL37A   |
| RPL35A  | pp | RPL10A   |
| MTA1    | pp | HDAC2    |
| DDX41   | pp | RNPS1    |
| DAZAP2  | pp | HGS      |
| DAZAP2  | pp | PLSCR1   |
| DAZAP2  | pp | TLE1     |
| SF3A3   | pp | SF3B3    |
| SF3A3   | pp | PCBP2    |
| EP400   | pp | TRRAP    |
| TOB2    | pp | CNOT7    |
| IRAK1   | pp | IRAK4    |
| CSF1    | pp | SOCS1    |
| COPB2   | pp | GSTK1    |
| PTP4A3  | pp | IPO4     |
| PTP4A3  | pp | MYO1C    |
| PTP4A3  | pp | OPA1     |
| PTP4A3  | pp | KIAA1279 |
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| MAFF    | pp | PSAP     |
| FAF1    | pp | LY6G5B   |
| RAB11B  | pp | SREBF2   |
| HGS     | pp | NF2      |
| SMYD3   | pp | HELZ     |
| SMYD3   | pp | PBX2     |
| STAC3   | pp | PPARA    |
| MUC1    | pp | SRC      |
| PSMD13  | pp | PSMD12   |
| BCAP31  | pp | PTPLB    |
| RXRA    | pp | PPARA    |
| RXRA    | pp | NCOR2    |
| RXRA    | pp | NCOA6    |
| KPNA4   | pp | TGM2     |
| RPS23   | pp | RPL14    |
| RPS23   | pp | RPS28    |
| EEF1G   | pp | RPS28    |
| EEF1G   | pp | C1orf174 |
| EEF1G   | pp | RGL2     |
| FNBP1   | pp | SNX2     |
| EPOR    | pp | PLCG2    |
| USP7    | pp | WWP2     |
| MCRS1   | pp | ITSN2    |
| MCRS1   | pp | PBX2     |
| MCRS1   | pp | LY6G5B   |
| PLSCR3  | pp | PLSCR1   |
| PLSCR1  | pp | SPG7     |
| H2AFX   | pp | SUPT5H   |
| RPL14   | pp | RPS28    |
| RPL14   | pp | RPL10A   |
| SF3B3   | pp | PCBP2    |
| SF3B3   | pp | RNPS1    |
| HMGB1   | pp | TLE1     |
| S100A4  | pp | BAT3     |
| TRRAP   | pp | E2F4     |
| EVL     | pp | SRC      |
| XRCC6   | pp | PECAM1   |
| IPO4    | pp | GSTK1    |
| PRPF40A | pp | PCBP2    |
| PRPF40A | pp | BAT3     |
| CD47    | pp | SIRPA    |
| ADA     | pp | DPP4     |
| PDLIM7  | pp | WWP2     |
| CASP4   | pp | DCTN1    |
| SRC     | pp | MPZL1    |
| SRC     | pp | GNB2L1   |
| GSTK1   | pp | KIAA1279 |

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| GSTK1  | pp | DCTN1  |
| RPL37A | pp | RPL10A |
| TFDP1  | pp | E2F4   |
| PSMB9  | pp | PSMB10 |