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|         |                |
|---------|----------------|
| A2ML1   | NM_144670.6    |
| AARS1   |                |
| AARS2   | NM_020745.4    |
| ABCA2   |                |
| ABCC9   | NM_005691.4    |
| ABCD1   | NM_000033.4    |
| ABCD4   | NM_005050.4    |
| ABHD16A | NM_021160.3    |
| ABHD5   | NM_016006.6    |
| ACAD9   | NM_014049.5    |
| ACADS   | NM_000017.4    |
| ACAN    | NM_013227.4    |
| ACAT1   | NM_000019.4    |
| ACO2    |                |
| ACOX1   | NM_004035.7    |
| ACSF3   |                |
| ACSL4   | NM_004458.3    |
| ACTB    | NM_001101.5    |
| ACTG1   | NM_001614.5    |
| ACTL6A  |                |
| ACTL6B  | NM_016188.5    |
| ACVR1   | NM_001105.5    |
| ACY1    | NM_000666.3    |
| ADA     | NM_000022.4    |
| ADAM22  |                |
| ADAR    |                |
| ADARB1  | NM_015833.4    |
| ADAT3   |                |
| ADD1    |                |
| ADD3    |                |
| ADGRG1  |                |
| ADGRL1  | NM_001008701.3 |
| ADK     | NM_001123.4    |
| ADNP    | NM_015339.5    |
| ADPRS   | NM_017825.3    |
| ADSL    | NM_000026.4    |
| AFF2    | NM_002025.4    |
| AFF3    | NM_002285.3    |
| AFF4    | NM_014423.4    |
| AGA     | NM_000027.4    |
| AGMO    |                |
| AGO1    | NM_012199.5    |
| AGO2    |                |

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|----------|----------------|
| AGPAT2   | NM_006412.4    |
| AGPS     | NM_003659.4    |
| AGTPBP1  |                |
| AHCY     | NM_000687.4    |
| AHDC1    | NM_001029882.3 |
| AHI1     | NM_017651.5    |
| AIFM1    |                |
| AIMP1    |                |
| AIMP2    |                |
| AK1      |                |
| AKT3     | NM_005465.7    |
| ALDH18A1 | NM_002860.4    |
| ALDH3A2  | NM_000382.3    |
| ALDH5A1  | NM_001080.3    |
| ALDH7A1  | NM_001182.5    |
| ALDOB    | NM_000035.4    |
| ALG1     | NM_019109.5    |
| ALG11    |                |
| ALG12    | NM_024105.4    |
| ALG13    | NM_001099922.3 |
| ALG2     |                |
| ALG3     | NM_005787.6    |
| ALG6     | NM_013339.4    |
| ALG9     | NM_024740.2    |
| ALKBH8   | NM_001301010.3 |
| ALMS1    | NM_001378454.1 |
| ALS2     |                |
| AMER1    | NM_152424.4    |
| AMFR     |                |
| AMPD2    |                |
| AMT      | NM_000481.4    |
| ANAPC1   |                |
| ANK2     | NM_001148.6    |
| ANK3     | NM_020987.5    |
| ANKH     | NM_054027.6    |
| ANKRD1   | NM_014391.3    |
| ANKRD11  | NM_013275.6    |
| ANKRD17  | NM_001286771.3 |
| ANKS1B   | NM_152788.4    |
| ANO10    |                |
| ANO3     |                |
| ANOS1    | NM_000216.4    |
| AP1B1    |                |

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| AP1G1    | NM_001030007.2               |
| AP1S1    |                              |
| AP1S2    | NM_003916.5                  |
| AP2M1    | NM_004068.4                  |
| AP3B1    |                              |
| AP3B2    |                              |
| AP3D1    |                              |
| AP4B1    | NM_006594.5                  |
| AP4E1    | NM_007347.5                  |
| AP4M1    | NM_004722.4                  |
| AP4S1    | NM_007077.5                  |
| APC2     | NM_005883.3                  |
| APTX     | NM_175073.3                  |
| ARCN1    |                              |
| ARF1     |                              |
| ARF3     |                              |
| ARFGEF1  |                              |
| ARFGEF2  | NM_006420.3                  |
| ARG1     | NM_000045.4                  |
| ARHGAP32 |                              |
| ARHGAP35 |                              |
| ARHGEF6  | NM_004840.3                  |
| ARHGEF9  | NM_015185.3                  |
| ARID1A   | NM_006015.6                  |
| ARID1B   | NM_001374820.1               |
| ARID2    |                              |
| ARIH1    | NM_005744.5                  |
| ARL13B   | NM_182896.3                  |
| ARL3     |                              |
| ARL6     | NM_177976.3                  |
| ARMC9    |                              |
| ARPC4    |                              |
| ARSA     | NM_000487.6                  |
| ARSL     |                              |
| ARV1     |                              |
| ARX      | NM_139058.3                  |
| ASAH1    | NM_177924.5                  |
| ASH1L    | NM_018489.3                  |
| ASL      | NM_000048.4                  |
| ASNS     |                              |
| ASPA     | NM_000049.4                  |
| ASPM     | NM_018136.5                  |
| ASS1     | NM_000050.4                  |

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| ASXL1    | NM_015338.6                  |
| ASXL2    |                              |
| ASXL3    | NM_030632.3                  |
| ATAD3A   |                              |
| ATG7     |                              |
| ATIC     | NM_004044.7                  |
| ATN1     |                              |
| ATP1A1   | NM_000701.8                  |
| ATP1A2   |                              |
| ATP1A3   |                              |
| ATP2A2   |                              |
| ATP2B1   |                              |
| ATP5F1A  |                              |
| ATP5F1E  |                              |
| ATP5PO   |                              |
| ATP6AP2  | NM_005765.3                  |
| ATP6V0A1 |                              |
| ATP6V0A2 |                              |
| ATP6V0C  |                              |
| ATP6V1A  |                              |
| ATP6V1B2 |                              |
| ATP7A    | NM_000052.7                  |
| ATP7B    | NM_000053.4                  |
| ATP8A2   |                              |
| ATP9A    |                              |
| ATR      | NM_001184.4                  |
| ATRX     | NM_000489.6                  |
| AUH      | NM_001698.3                  |
| AUTS2    | NM_015570.4                  |
| B3GALNT2 |                              |
| B3GALT6  |                              |
| B3GAT3   | NM_012200.4                  |
| B3GLCT   | NM_194318.4                  |
| B4GALNT1 |                              |
| B4GALT1  |                              |
| B4GALT7  | NM_007255.3                  |
| B9D1     | NM_015681.5                  |
| BAP1     |                              |
| BBIP1    | NM_001195306.2               |
| BBS1     | NM_024649.5                  |
| BBS10    | NM_024685.4                  |
| BBS12    | NM_152618.3                  |
| BBS2     | NM_031885.5                  |

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| BBS4     | NM_033028.5                  |
| BBS5     | NM_152384.3                  |
| BBS7     | NM_176824.3                  |
| BBS9     | NM_198428.3                  |
| BCAP31   |                              |
| BCAS3    | NM_001099432.3               |
| BCKDHA   | NM_000709.4                  |
| BCKDHB   | NM_183050.4                  |
| BCKDK    | NM_005881.4                  |
| BCL11A   | NM_022893.4                  |
| BCL11B   |                              |
| BCOR     | NM_017745.6                  |
| BCORL1   |                              |
| BCS1L    | NM_004328.5                  |
| BICRA    |                              |
| BLM      | NM_000057.4                  |
| BLOC1S1  |                              |
| BLTP1    |                              |
| BOD1     |                              |
| BOLA3    |                              |
| BPTF     |                              |
| BRAF     | NM_004333.6                  |
| BRAT1    |                              |
| BRCA1    |                              |
| BRD3     | NM_007371.4                  |
| BRD4     |                              |
| BRF1     |                              |
| BRPF1    | NM_001003694.2               |
| BRSK2    |                              |
| BRWD1    | NM_018963.5                  |
| BRWD3    | NM_153252.5                  |
| BSCL2    | NM_032667.6                  |
| BTD      | NM_001370658.1               |
| BTF3     | NA                           |
| BUB1B    | NM_001211.6                  |
| BUD13    |                              |
| C12orf4  |                              |
| C12orf57 | NM_138425.4                  |
| C2orf69  |                              |
| CA2      | NM_000067.3                  |
| CA5A     |                              |
| CA8      | NM_004056.6                  |
| CACNA1A  | NM_001127221.2               |

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| CACNA1B  | NM_000718.4                  |
| CACNA1C  | NM_000719.7                  |
| CACNA1D  | NM_000720.4                  |
| CACNA1E  | NM_000721.4                  |
| CACNA1F  | NM_005183.4                  |
| CACNA1G  | NM_018896.5                  |
| CACNA1H  |                              |
| CACNA1I  |                              |
| CACNA2D1 | NM_000722.4                  |
| CACNA2D2 |                              |
| CACNG2   | NM_006078.5                  |
| CAD      | NM_004341.5                  |
| CAMK2A   | NM_015981.4                  |
| CAMK2B   |                              |
| CAMK4    |                              |
| CAMSAP1  |                              |
| CAMTA1   | NM_015215.4                  |
| CAPN10   |                              |
| CAPN15   |                              |
| CAPRIN1  |                              |
| CAPZA2   |                              |
| CARS1    |                              |
| CARS2    |                              |
| CASK     | NM_003688.3                  |
| CASR     | NM_000388.4                  |
| CBL      | NM_005188.4                  |
| CBS      | NM_000071.3                  |
| CBX1     |                              |
| CBY1     |                              |
| CC2D1A   | NM_017721.5                  |
| CC2D2A   | NM_001080522.2               |
| CCBE1    | NM_133459.4                  |
| CCDC115  |                              |
| CCDC174  |                              |
| CCDC22   | NM_014008.5                  |
| CCDC32   |                              |
| CCDC47   | NM_020198.3                  |
| CCDC82   |                              |
| CCDC88A  |                              |
| CCDC88C  |                              |
| CCND2    | NM_001759.4                  |
| CDC42    |                              |
| CDC42BPB |                              |

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| CDH10    | NM_006727.5    |
| CDH11    |                |
| CDH15    | NM_004933.3    |
| CDH2     | NM_001792.5    |
| CDH9     | NM_016279.4    |
| CDK10    |                |
| CDK13    | NM_003718.5    |
| CDK19    | NM_001300960.2 |
| CDK5RAP2 | NM_018249.6    |
| CDK6     | NM_001259.8    |
| CDK8     | NM_001260.3    |
| CDK9     | NM_001261.4    |
| CDKL5    | NM_003159.3    |
| CDON     |                |
| CELF2    |                |
| CENPE    |                |
| CENPF    | NM_016343.4    |
| CENPJ    | NM_018451.5    |
| CEP104   | NM_014704.4    |
| CEP120   | NM_153223.4    |
| CEP135   |                |
| CEP152   | NM_014985.4    |
| CEP19    | NM_032898.5    |
| CEP290   | NM_025114.4    |
| CEP41    | NM_018718.3    |
| CEP55    |                |
| CEP57    |                |
| CEP63    |                |
| CEP83    | NM_016122.3    |
| CEP85L   |                |
| CERT1    | NM_001130105.1 |
| CHAMP1   | NM_001164144.3 |
| CHD1     |                |
| CHD2     | NM_001271.4    |
| CHD3     |                |
| CHD4     | NM_001273.5    |
| CHD5     | NM_015557.3    |
| CHD7     | NM_017780.4    |
| CHD8     | NM_001170629.2 |
| CHKA     |                |
| CHKB     | NM_005198.5    |
| CHMP1A   |                |
| CHRNA2   | NM_000742.4    |

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| CHRNA4  | NM_000744.7                  |
| CHRNA7  | NM_000746.6                  |
| CHRNA2  | NM_000748.3                  |
| CIC     |                              |
| CIT     |                              |
| CKAP2L  |                              |
| CLCN2   | NM_004366.6                  |
| CLCN3   | NM_173872.4                  |
| CLCN4   | NM_001830.4                  |
| CLCN6   | NM_001286.5                  |
| CLCN7   |                              |
| CLDN11  |                              |
| CLDN5   |                              |
| CLIC2   | NM_001289.6                  |
| CLN3    | NM_001042432.2               |
| CLN5    | NM_006493.4                  |
| CLN6    | NM_017882.3                  |
| CLN8    | NM_018941.4                  |
| CLP1    |                              |
| CLPB    |                              |
| CLPP    |                              |
| CLTC    | NM_001288653.2               |
| CNKSR1  |                              |
| CNKSR2  | NM_014927.5                  |
| CNNM2   | NM_017649.5                  |
| CNOT1   | NM_001265612.2               |
| CNOT3   | NM_014516.4                  |
| CNOT9   |                              |
| CNPY3   |                              |
| CNTN4   | NM_175607.3                  |
| CNTNAP1 |                              |
| CNTNAP2 | NM_014141.6                  |
| COA8    | NM_001370595.2               |
| COASY   |                              |
| COG1    |                              |
| COG5    |                              |
| COG6    |                              |
| COG7    |                              |
| COG8    |                              |
| COL18A1 | NM_001379500.1               |
| COL27A1 |                              |
| COL3A1  | NM_000090.4                  |
| COL4A1  | NM_001845.6                  |



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|------------|----------------|
| COL4A2     | NM_001846.4    |
| COLEC11    |                |
| COLGALT1   |                |
| COPB1      |                |
| COPB2      |                |
| COQ2       | NM_015697.9    |
| COQ4       |                |
| COQ8A      | NM_020247.5    |
| COX10      | NM_001303.4    |
| COX15      | NM_004376.7    |
| CPA6       | NM_020361.5    |
| CPE        | NM_001873.4    |
| CPLANE1    | NM_023073.4    |
| CPLX1      |                |
| CPS1       | NM_001875.5    |
| CPSF3      |                |
| CRADD      |                |
| CRBN       | NM_016302.4    |
| CREBBP     | NM_004380.3    |
| CRIPT      |                |
| CRLS1      |                |
| CRMP1      |                |
| CRPPA      |                |
| CSDE1      | NM_001130523.3 |
| CSF1R      |                |
| CSGALNACT1 |                |
| CSNK1G1    |                |
| CSNK2A1    | NM_001895.4    |
| CSNK2B     |                |
| CSPP1      | NM_024790.6    |
| CSTB       | NM_000100.4    |
| CTBP1      |                |
| CTCF       | NM_006565.4    |
| CTDP1      |                |
| CTNNA2     |                |
| CTNNB1     | NM_001904.4    |
| CTNND1     |                |
| CTR9       |                |
| CTSF       | NM_003793.4    |
| CTU2       | NM_001012759.3 |
| CUL3       | NM_003590.5    |
| CUL4B      | NM_003588.4    |
| CUX1       |                |

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|---------|----------------|
| CUX2    | NM_015267.4    |
| CWC27   |                |
| CWF19L1 |                |
| CYB5R3  |                |
| CYFIP1  | NM_014608.6    |
| CYFIP2  |                |
| CYP26B1 |                |
| CYP27A1 | NM_000784.4    |
| CYP2U1  | NM_183075.3    |
| D2HGDH  | NM_152783.5    |
| DAG1    |                |
| DAGLA   |                |
| DARS1   |                |
| DARS2   |                |
| DBT     | NM_001918.5    |
| DCAF17  |                |
| DCC     |                |
| DCHS1   | NM_003737.4    |
| DCPS    |                |
| DCX     | NM_178153.3    |
| DDB1    | NM_001923.5    |
| DDC     |                |
| DDHD2   | NM_015214.3    |
| DDOST   |                |
| DDX23   |                |
| DDX3X   | NM_001193416.3 |
| DDX59   | NM_001031725.6 |
| DDX6    | NM_004397.6    |
| DEAF1   | NM_021008.4    |
| DEGS1   |                |
| DENND5A |                |
| DEPDC5  | NM_001242896.3 |
| DHCR24  | NM_014762.4    |
| DHCR7   | NM_001360.3    |
| DHDDS   |                |
| DHFR    |                |
| DHPS    | NM_001930.4    |
| DHX30   |                |
| DHX37   |                |
| DHX9    |                |
| DIAPH1  |                |
| DIP2B   | NM_173602.3    |
| DIS3L2  | NM_152383.5    |

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|---------|----------------|
| DISC1   | NM_018662.3    |
| DKC1    | NM_001363.5    |
| DLAT    |                |
| DLD     | NM_000108.5    |
| DLG2    | NM_001142699.3 |
| DLG3    | NM_021120.4    |
| DLG4    |                |
| DLL1    | NM_005618.4    |
| DMD     | NM_004006.3    |
| DMPK    | NM_001081563.2 |
| DMXL2   | NM_001174116.3 |
| DNAH14  |                |
| DNAJC12 |                |
| DNAJC19 | NM_145261.4    |
| DNM1    | NM_004408.4    |
| DNM1L   | NM_012062.5    |
| DNM3    | NM_015569.5    |
| DNMT3A  | NM_175629.2    |
| DNMT3B  | NM_006892.4    |
| DOCK3   |                |
| DOCK6   | NM_020812.4    |
| DOCK7   |                |
| DOCK8   |                |
| DOHH    | NM_001145165.2 |
| DONSON  |                |
| DPAGT1  | NM_001382.4    |
| DPF2    |                |
| DPH1    | NM_001383.6    |
| DPH5    |                |
| DPM1    | NM_003859.3    |
| DPM3    |                |
| DPP6    | NM_001936.5    |
| DPYD    | NM_000110.4    |
| DPYSL5  | NM_020134.4    |
| DRG1    |                |
| DSCAM   | NM_001389.5    |
| DTYMK   |                |
| DYM     |                |
| DYNC1H1 | NM_001376.5    |
| DYNC1I2 | NM_001378.3    |
| DYRK1A  | NM_001396.5    |
| EARS2   |                |
| EBF3    | NM_001005463.3 |

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|---------|----------------|
| EBP     | NM_006579.3    |
| ECHS1   |                |
| EDEM3   | NM_025191.4    |
| EED     |                |
| EEF1A2  | NM_001958.5    |
| EEF1B2  |                |
| EEF1D   |                |
| EEF2    |                |
| EFL1    |                |
| EFTUD2  | NM_004247.4    |
| EHMT1   | NM_024757.5    |
| EIF2AK2 |                |
| EIF2AK3 | NM_004836.7    |
| EIF2B1  | NM_001414.4    |
| EIF2B2  |                |
| EIF2B3  |                |
| EIF2B4  | NM_015636.4    |
| EIF2B5  |                |
| EIF2S3  | NM_001415.4    |
| EIF3F   |                |
| EIF4A2  |                |
| EIF4A3  |                |
| EIF4E   | NM_001130679.3 |
| EIF5A   | NM_001970.5    |
| ELAC2   | NM_018127.7    |
| ELOVL4  |                |
| ELP2    | NM_001242875.3 |
| EMC1    | NM_015047.3    |
| EMC10   |                |
| EMG1    |                |
| EML1    |                |
| EMX2    |                |
| EN2     | NM_001427.4    |
| ENTPD1  |                |
| EP300   | NM_001429.4    |
| EPB41L1 | NM_012156.2    |
| EPG5    | NM_020964.3    |
| EPM2A   | NM_005670.4    |
| EPRS1   |                |
| ERBB4   |                |
| ERCC1   |                |
| ERCC2   |                |
| ERCC3   |                |

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ERCC5  
 ERCC6      NM\_000124.4  
 ERCC6L2  
 ERCC8      NM\_000082.4  
 ERF  
 ERLIN2     NM\_007175.8  
 ESAM      NM\_138961.3  
 ESCO2      NM\_001017420.3  
 ETHE1  
 EXOC7  
 EXOC8  
 EXOSC2  
 EXOSC3  
 EXOSC5  
 EXOSC8  
 EXOSC9  
 EXT2  
 EXTL3  
 EZH2  
 FAM126A  
 FAM149B1  
 FAM50A  
 FANCD2     NM\_033084.6  
 FAR1  
 FARS2      NM\_006567.5  
 FASTKD2    NM\_014929.4  
 FAT1  
 FAT4      NM\_024582.6  
 FBN3      NM\_032447.5  
 FBRSL1  
 FBXL3  
 FBXL4      NM\_012160.5  
 FBXO11     NM\_001190274.2  
 FBXO28  
 FBXO31  
 FBXW11     NM\_012300.3  
 FBXW7  
 FCSK  
 FDFT1  
 FEM1B  
 FGD1      NM\_004463.3  
 FGF12      NM\_021032.5  
 FGF13

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|          |                |
|----------|----------------|
| FGFR1    | NM_023110.3    |
| FGFR2    | NM_000141.5    |
| FGFR3    | NM_000142.5    |
| FH       |                |
| FIBP     |                |
| FICD     | NM_007076.3    |
| FIG4     |                |
| FILIP1   |                |
| FITM2    |                |
| FKRP     | NM_024301.5    |
| FKTN     | NM_001079802.2 |
| FLNA     | NM_001456.4    |
| FMN2     |                |
| FMR1     | NM_002024.6    |
| FOLR1    | NM_016725.3    |
| FOSL2    |                |
| FOXG1    | NM_005249.5    |
| FOXP1    | NM_032682.6    |
| FOXP2    | NM_014491.4    |
| FOXP4    | NM_001012426.2 |
| FOXRED1  |                |
| FRA10AC1 |                |
| FRAS1    | NM_025074.7    |
| FRMD4A   |                |
| FRMD5    |                |
| FRMPD4   | NM_014728.3    |
| FRRS1L   |                |
| FRY      |                |
| FTCD     | NM_006657.3    |
| FTO      |                |
| FTSJ1    | NM_012280.4    |
| FUCA1    | NM_000147.5    |
| FUT8     |                |
| FZR1     |                |
| GABBR1   | NM_001470.4    |
| GABBR2   | NM_005458.8    |
| GABRA1   | NM_000806.5    |
| GABRA2   |                |
| GABRA5   |                |
| GABRB2   | NM_021911.3    |
| GABRB3   | NM_000814.6    |
| GABRD    | NM_000815.5    |
| GABRG2   | NM_000816.3    |

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GAD1  
GALC  
GALE NM\_000403.4  
GALNT2  
GALT NM\_000155.4  
GAMT NM\_000156.6  
GAN  
GAP43 NM\_001130064.2  
GATA6 NM\_005257.6  
GATAD2A  
GATAD2B NM\_020699.4  
GATM NM\_001482.3  
GBA NM\_001005741.3  
GBA2  
GCDH NM\_000159.4  
GCH1 NM\_000161.3  
GCSH NM\_004483.5  
GDF1 NM\_001492.6  
GDF11  
GDI1 NM\_001493.3  
GEMIN4  
GEMIN5  
GFAP  
GFM1 NM\_024996.7  
GFM2  
GFPT2 NM\_005110.4  
GHR NM\_000163.5  
GIGYF1  
GJC2 NM\_020435.4  
GK NM\_000167.6  
GLB1 NM\_000404.4  
GLDC NM\_000170.3  
GLI2 NM\_005270.5  
GLI3 NM\_000168.6  
GLIS3 NM\_152629.4  
GLRA2  
GLS  
GLUL  
GMNN  
GMPPA  
GMPPB  
GNAI1 NM\_002069.6  
GNAO1 NM\_020988.3

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|         |                |
|---------|----------------|
| GNAS    | NM_000516.7    |
| GNB1    | NM_002074.5    |
| GNB2    |                |
| GNB5    |                |
| GNPAT   | NM_014236.4    |
| GNPTAB  |                |
| GNPTG   |                |
| GNS     |                |
| GOLGA2  |                |
| GOSR2   | NM_004287.5    |
| GOT2    |                |
| GPAA1   |                |
| GPC3    | NM_004484.4    |
| GPC4    |                |
| GPHN    |                |
| GPRASP1 | NM_001099411.2 |
| GPT2    |                |
| GRIA1   | NM_001114183.2 |
| GRIA2   |                |
| GRIA3   | NM_000828.5    |
| GRIA4   | NM_000829.4    |
| GRID2   | NM_001510.4    |
| GRIK2   | NM_021956.5    |
| GRIN1   | NM_007327.4    |
| GRIN2A  | NM_000833.5    |
| GRIN2B  | NM_000834.5    |
| GRIN2D  |                |
| GRIP1   | NM_021150.4    |
| GRM1    |                |
| GRM7    |                |
| GSS     |                |
| GSX2    |                |
| GTF2E2  |                |
| GTF2H5  |                |
| GTPBP2  |                |
| GTPBP3  | NM_133644.4    |
| GUSB    | NM_000181.4    |
| H1-4    |                |
| H3-3A   | NM_002107.7    |
| H3-3B   | NM_005324.5    |
| H4C11   |                |
| H4C3    |                |
| H4C4    |                |



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H4C5  
H4C6  
H4C9  
HACE1  
HAL NM\_002108.4  
HARS1  
HAX1  
HCCS NM\_005333.5  
HCFC1 NM\_005334.3  
HCN1 NM\_021072.4  
HCN2 NM\_001194.4  
HCRT  
HDAC4 NM\_006037.4  
HDAC8 NM\_018486.3  
HEATR3  
HECTD4  
HECW2  
HEPACAM NM\_152722.5  
HERC1  
HERC2  
HESX1 NM\_003865.3  
HEXA NM\_000520.6  
HGSNAT NM\_152419.3  
HIBCH  
HID1  
HIKESHI  
HIRA  
HIVEP2 NM\_006734.4  
HK1 NM\_000188.3  
HLCS  
HMGA2 NM\_003483.6  
HMGB1  
HNMT  
HNRNPC NM\_031314.3  
HNRNPD  
HNRNPH1  
HNRNPH2  
HNRNPK NM\_002140.5  
HNRNPR  
HNRNPU NM\_031844.3  
HNRNPUL2  
HOXA1 NM\_005522.5  
HPCA

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HPD  
 HPDL NM\_032756.3  
 HPRT1 NM\_000194.3  
 HRAS NM\_005343.4  
 HS2ST1 NM\_012262.4  
 HSD17B10 NM\_004493.3  
 HSD17B4 NM\_000414.4  
 HSPA9 NM\_004134.7  
 HSPD1  
 HTR2C NM\_000868.3  
 HTRA2  
 HTT  
 HUWE1 NM\_031407.7  
 IARS1 NM\_002161.6  
 IDH2  
 IDS NM\_000202.8  
 IDUA NM\_000203.5  
 IER3IP1 NM\_016097.5  
 IFIH1  
 IFT172 NM\_015662.3  
 IFT27 NM\_006860.5  
 IFT74  
 IGBP1 NM\_001551.3  
 IGF1 NM\_000618.5  
 IGF1R NM\_000875.5  
 IKBKG NM\_001099857.5  
 IL1RAPL1 NM\_014271.4  
 IMPA1  
 IMPDH2  
 INPP4A  
 INPP5E NM\_019892.6  
 INPP5K  
 INTS1  
 INTS11 NM\_001256456.2  
 IPO8 NM\_006390.4  
 IPP  
 IQSEC1 NM\_014869.8  
 IQSEC2 NM\_001111125.3  
 IRF2BPL  
 IRX5  
 ISCA2  
 ITCH  
 ITGAV

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ITPA  
ITPR1 NM\_002222.7  
ITSN1  
IVD NM\_002225.5  
JAM2  
JAM3 NM\_032801.5  
JARID2  
KANSL1 NM\_001193466.2  
KANSL2 NM\_017822.4  
KARS1  
KAT5 NM\_006388.4  
KAT6A NM\_006766.5  
KAT6B NM\_012330.4  
KAT8 NM\_182958.4  
KATNAL2 NM\_031303.3  
KATNB1  
KATNIP NM\_015202.5  
KCNA1 NM\_000217.3  
KCNA2  
KCNA6  
KCNB1 NM\_004975.4  
KCNC1 NM\_001112741.2  
KCNC2  
KCND2 NM\_012281.3  
KCNH1 NM\_172362.3  
KCNH5  
KCNJ10 NM\_002241.5  
KCNJ11 NM\_000525.4  
KCNJ6 NM\_002240.5  
KCNK3 NM\_002246.3  
KCNK4  
KCNK9 NM\_001282534.2  
KCNMA1 NM\_002247.4  
KCNN2  
KCNN3 NM\_002249.6  
KCNQ2 NM\_172107.4  
KCNQ3 NM\_004519.4  
KCNQ5  
KCNT1 NM\_020822.3  
KCNT2  
KCTD13 NM\_178863.5  
KCTD7 NM\_153033.5  
KDM1A NM\_001009999.3

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|-----------|----------------|
| KDM2B     |                |
| KDM3B     | NM_016604.4    |
| KDM4B     | NM_015015.3    |
| KDM5A     | NM_001042603.3 |
| KDM5B     | NM_006618.5    |
| KDM5C     | NM_004187.5    |
| KDM6A     | NM_021140.4    |
| KDM6B     | NM_001080424.2 |
| KIAA0586  | NM_001244189.2 |
| KIAA0753  | NM_014804.3    |
| KIDINS220 | NM_020738.4    |
| KIF11     | NM_004523.4    |
| KIF14     | NM_014875.3    |
| KIF1A     | NM_004321.8    |
| KIF21B    |                |
| KIF2A     |                |
| KIF4A     |                |
| KIF5A     |                |
| KIF5B     |                |
| KIF5C     |                |
| KIF7      | NM_198525.3    |
| KIFBP     |                |
| KIRREL3   | NM_032531.4    |
| KLF8      | NM_007250.5    |
| KLHL15    | NM_030624.3    |
| KLHL20    |                |
| KLHL7     |                |
| KMT2A     | NM_001197104.2 |
| KMT2B     |                |
| KMT2C     | NM_170606.3    |
| KMT2D     | NM_003482.4    |
| KMT2E     | NM_182931.3    |
| KMT5B     | NM_017635.5    |
| KPNA7     |                |
| KPTN      |                |
| KRAS      | NM_004985.5    |
| L1CAM     | NM_000425.5    |
| L2HGDH    |                |
| LAGE3     |                |
| LAMA1     |                |
| LAMA2     | NM_000426.4    |
| LAMB1     |                |
| LAMC3     | NM_006059.4    |

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| LAMP2   | NM_002294.3                  |
| LARGE1  | NM_004737.7                  |
| LARP7   |                              |
| LARS2   |                              |
| LAS1L   | NM_031206.7                  |
| LEO1    |                              |
| LETM1   |                              |
| LG1     | NM_005097.4                  |
| LHX2    |                              |
| LIAS    |                              |
| LIG4    |                              |
| LIMK1   | NM_002314.4                  |
| LINGO1  |                              |
| LINS1   |                              |
| LIPT2   |                              |
| LMBRD1  | NM_018368.4                  |
| LMBRD2  |                              |
| LMNB1   | NM_005573.4                  |
| LMNB2   | NM_032737.4                  |
| LNPK    |                              |
| LONP1   | NM_004793.4                  |
| LRP2    | NM_004525.3                  |
| LRPPRC  |                              |
| LRRC43  | NM_001098519.2               |
| LSM1    |                              |
| LSS     |                              |
| LTBP1   |                              |
| LYRM7   |                              |
| LZTFL1  | NM_020347.4                  |
| LZTR1   | NM_006767.4                  |
| MAB21L1 |                              |
| MAB21L2 |                              |
| MACF1   |                              |
| MADD    |                              |
| MAF     |                              |
| MAG     |                              |
| MAGEL2  | NM_019066.5                  |
| MAGI2   | NM_012301.4                  |
| MAN1B1  | NM_016219.5                  |
| MAN2B1  | NM_000528.4                  |
| MAN2C1  | NM_006715.4                  |
| MANBA   | NM_005908.4                  |
| MANF    | NM_006010.6                  |

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|          |                |
|----------|----------------|
| MAOA     | NM_000240.4    |
| MAP1B    |                |
| MAP2K1   | NM_002755.4    |
| MAP2K2   | NM_030662.4    |
| MAP3K7   |                |
| MAP4K4   | NM_145686.4    |
| MAPK1    | NM_002745.5    |
| MAPK8IP3 | NM_001040439.2 |
| MAPKAPK5 | NA             |
| MASP1    |                |
| MAST1    | NM_014975.3    |
| MAST3    |                |
| MAST4    |                |
| MAT1A    |                |
| MBD5     | NM_018328.5    |
| MBOAT7   | NM_024298.5    |
| MBTPS2   | NM_015884.4    |
| MCCC2    |                |
| MCM3AP   |                |
| MCOLN1   |                |
| MCPH1    | NM_024596.5    |
| MDH2     |                |
| MECP2    | NM_004992.4    |
| MED11    |                |
| MED12    | NM_005120.3    |
| MED12L   |                |
| MED13    |                |
| MED13L   | NM_015335.5    |
| MED17    | NM_004268.5    |
| MED23    | NM_015979.4    |
| MED25    |                |
| MED27    |                |
| MEF2C    | NM_002397.5    |
| MEGF8    | NM_001410.3    |
| MEIS2    | NM_170674.5    |
| MESD     |                |
| MET      | NM_001127500.3 |
| METTTL23 |                |
| METTTL5  | NM_014168.4    |
| MFF      |                |
| MFSD2A   |                |
| MFSD8    | NM_152778.3    |
| MGAT2    |                |

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|         |                |
|---------|----------------|
| MGME1   |                |
| MIA3    | NM_198551.4    |
| MIB1    | NM_020774.4    |
| MICOS13 |                |
| MICU1   |                |
| MID1    | NM_000381.4    |
| MINPP1  |                |
| MKKS    | NM_018848.3    |
| MKS1    | NM_017777.4    |
| MLC1    |                |
| MLYCD   |                |
| MMAA    |                |
| MMACHC  | NM_015506.3    |
| MMADHC  |                |
| MMUT    | NM_000255.4    |
| MN1     | NM_002430.3    |
| MOCS1   |                |
| MOCS2   |                |
| MOGS    |                |
| MORC2   |                |
| MPC1    |                |
| MPC2    |                |
| MPDU1   |                |
| MPDZ    |                |
| MPLKIP  |                |
| MPV17   | NM_002437.5    |
| MRAS    | NM_012219.4    |
| MRE11   |                |
| MRM2    |                |
| MRPS22  | NM_020191.4    |
| MRPS34  |                |
| MRTFB   |                |
| MSL3    | NM_001282174.1 |
| MSMO1   |                |
| MSTO1   |                |
| MTFMT   |                |
| MTHFR   | NM_005957.5    |
| MTO1    | NM_012123.4    |
| MTOR    |                |
| MTR     | NM_000254.3    |
| MTRFR   |                |
| MTRR    |                |
| MTSS2   | NM_138383.3    |

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|---------|----------------|
| MVK     | NM_000431.4    |
| MYCBP2  |                |
| MYCN    | NM_005378.6    |
| MYH10   |                |
| MYO5A   |                |
| MYT1L   | NM_015025.4    |
| NAA10   | NM_003491.4    |
| NAA15   | NM_057175.5    |
| NAA20   |                |
| NACC1   |                |
| NAE1    |                |
| NAGA    |                |
| NAGLU   | NM_000263.4    |
| NALCN   |                |
| NANS    |                |
| NAPB    |                |
| NARS1   | NM_004539.4    |
| NARS2   | NM_024678.6    |
| NAXD    |                |
| NAXE    |                |
| NBEA    |                |
| NBN     | NM_002485.5    |
| NCAPG2  |                |
| NCDN    | NM_001014839.2 |
| NCKAP1  |                |
| NCOR1   |                |
| NDE1    | NM_001143979.2 |
| NDP     |                |
| NDST1   | NM_001543.5    |
| NDUFA1  | NM_004541.4    |
| NDUFA11 |                |
| NDUFA2  |                |
| NDUFA6  |                |
| NDUFAF2 |                |
| NDUFAF3 |                |
| NDUFAF4 |                |
| NDUFAF5 |                |
| NDUFAF6 |                |
| NDUFAF8 | NM_001086521.2 |
| NDUFB3  | NM_002491.3    |
| NDUFB8  |                |
| NDUFC2  |                |
| NDUFS1  |                |



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|---------|----------------|
| NDUFS2  |                |
| NDUFS3  |                |
| NDUFS4  |                |
| NDUFS7  |                |
| NDUFS8  |                |
| NDUFV1  |                |
| NDUFV2  | NM_021074.5    |
| NEB     | NM_001271208.2 |
| NECAP1  | NM_015509.4    |
| NECTIN1 | NM_002855.5    |
| NEDD4L  | NM_015277.6    |
| NEMF    |                |
| NEU1    | NM_000434.4    |
| NEURL4  |                |
| NEUROD2 |                |
| NEUROG1 |                |
| NEXMIF  | NM_001008537.3 |
| NF1     | NM_000267.3    |
| NFASC   |                |
| NFIA    |                |
| NFIB    | NM_001190737.2 |
| NFIX    | NM_001271043.2 |
| NFU1    |                |
| NGFR    | NM_002507.4    |
| NGLY1   |                |
| NHLRC1  | NM_198586.3    |
| NHLRC2  |                |
| NHS     | NM_198270.4    |
| NIPBL   | NM_133433.4    |
| NKAP    | NM_024528.4    |
| NKX2-1  |                |
| NKX6-2  |                |
| NLGN3   | NM_018977.4    |
| NLGN4X  | NM_020742.4    |
| NLRP3   | NM_004895.5    |
| NMNAT1  |                |
| NONO    | NM_001145408.2 |
| NOVA2   |                |
| NPC1    | NM_000271.5    |
| NPC2    | NM_006432.5    |
| NPHP1   | NM_000272.5    |
| NPRL2   |                |
| NR2F1   |                |

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|          |                |
|----------|----------------|
| NR4A2    |                |
| NRAS     | NM_002524.5    |
| NRCAM    |                |
| NRROS    |                |
| NRXN1    | NM_001135659.3 |
| NRXN2    | NM_138732.3    |
| NSD1     | NM_022455.5    |
| NSD2     |                |
| NSDHL    | NM_015922.3    |
| NSRP1    |                |
| NSUN2    | NM_017755.6    |
| NT5C2    |                |
| NTNG1    | NM_014917.4    |
| NTNG2    | NM_032536.4    |
| NTRK1    |                |
| NTRK2    | NM_006180.6    |
| NUBPL    |                |
| NUDT2    |                |
| NUP107   | NM_020401.4    |
| NUP188   | NM_015354.3    |
| NUP214   |                |
| NUS1     |                |
| OCLN     | NM_002538.4    |
| OCRL     | NM_000276.4    |
| ODC1     |                |
| OFD1     | NM_003611.3    |
| OGDH     |                |
| OGDHL    | NM_018245.3    |
| OGT      |                |
| OPHN1    | NM_002547.3    |
| ORC1     |                |
| OSGEP    |                |
| OTC      | NM_000531.6    |
| OTUD5    |                |
| OTUD6B   |                |
| OTX2     | NM_172337.3    |
| OXR1     | NM_001198534.1 |
| OXTR     | NM_000916.4    |
| P4HTM    | NM_177938.2    |
| PABPC1   |                |
| PACS1    | NM_018026.4    |
| PACS2    | NM_001100913.3 |
| PAFAH1B1 | NM_000430.4    |

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|         |                |
|---------|----------------|
| PAH     | NM_000277.3    |
| PAK1    |                |
| PAK3    | NM_002578.5    |
| PAN2    |                |
| PANK2   |                |
| PARN    |                |
| PARP6   |                |
| PARS2   |                |
| PAX5    | NM_016734.3    |
| PAX6    | NM_000280.5    |
| PBX1    | NM_002585.4    |
| PC      | NM_000920.4    |
| PCCA    | NM_000282.4    |
| PCCB    | NM_000532.5    |
| PCDH12  |                |
| PCDH19  | NM_001184880.2 |
| PCDHGC4 |                |
| PCGF2   |                |
| PCLO    |                |
| PCNT    |                |
| PCYT2   |                |
| PDE2A   |                |
| PDE4D   |                |
| PDE6D   | NM_002601.4    |
| PDGFRB  |                |
| PDHA1   | NM_000284.4    |
| PDHX    | NM_003477.3    |
| PDSS2   | NM_020381.4    |
| PDZD8   |                |
| PEPD    |                |
| PET100  | NM_001171155.2 |
| PEX1    | NM_000466.3    |
| PEX10   | NM_153818.2    |
| PEX11B  | NM_003846.3    |
| PEX12   | NM_000286.3    |
| PEX13   | NM_002618.4    |
| PEX16   | NM_004813.4    |
| PEX2    | NM_000318.3    |
| PEX26   | NM_017929.6    |
| PEX5    | NM_001131025.2 |
| PEX6    | NM_000287.4    |
| PEX7    | NM_000288.4    |
| PGAP1   |                |

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|---------|----------------|
| PGAP2   | NM_001256240.2 |
| PGAP3   | NM_033419.5    |
| PGK1    | NM_000291.4    |
| PGM2L1  | NM_173582.6    |
| PGM3    | NM_001199917.2 |
| PHF21A  | NM_001101802.3 |
| PHF6    | NM_032458.3    |
| PHF8    | NM_015107.3    |
| PHGDH   | NM_006623.4    |
| PHIP    | NM_017934.7    |
| PI4KA   |                |
| PIBF1   |                |
| PIDD1   |                |
| PIEZO2  | NM_022068.4    |
| PIGA    | NM_002641.4    |
| PIGB    |                |
| PIGC    |                |
| PIGG    |                |
| PIGH    |                |
| PIGK    | NM_005482.3    |
| PIGL    | NM_004278.4    |
| PIGN    | NM_176787.5    |
| PIGO    | NM_032634.4    |
| PIGP    |                |
| PIGQ    |                |
| PIGS    |                |
| PIGT    | NM_015937.6    |
| PIGU    |                |
| PIGV    | NM_017837.4    |
| PIGW    |                |
| PIGY    |                |
| PIK3CA  | NM_006218.4    |
| PIK3R1  | NM_181523.3    |
| PIK3R2  | NM_005027.4    |
| PIP5K1C | NM_012398.3    |
| PISD    |                |
| PITRM1  |                |
| PLA2G6  |                |
| PLAA    |                |
| PLCB1   | NM_015192.4    |
| PLCH1   |                |
| PLEKHG2 |                |
| PLK4    |                |

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|----------|----------------|
| PLP1     | NM_000533.5    |
| PLPBP    |                |
| PLXNA1   | NM_032242.3    |
| PLXNA3   | NM_017514.5    |
| PMM2     | NM_000303.3    |
| PMPCA    |                |
| PMPCB    | NM_004279.3    |
| PNKP     | NM_007254.4    |
| PNPLA6   | NM_006702.5    |
| PNPO     | NM_018129.4    |
| PNPT1    |                |
| POGZ     | NM_015100.4    |
| POLA1    |                |
| POLG     | NM_002693.3    |
| POLR1A   | NM_015425.6    |
| POLR1C   |                |
| POLR2A   | NM_000937.5    |
| POLR3A   |                |
| POLR3B   |                |
| POLRMT   |                |
| POMGNT1  | NM_017739.4    |
| POMGNT2  |                |
| POMK     |                |
| POMT1    | NM_007171.4    |
| POMT2    | NM_013382.7    |
| POR      | NM_000941.3    |
| PORCN    | NM_203475.3    |
| POU1F1   | NM_000306.4    |
| POU3F2   | NM_005604.4    |
| POU3F3   | NM_006236.3    |
| POU4F1   |                |
| PPFIA3   |                |
| PPFIBP1  | NM_001198915.2 |
| PPM1D    |                |
| PPP1CB   | NM_206876.2    |
| PPP1R12A |                |
| PPP1R15B | NM_032833.5    |
| PPP1R21  |                |
| PPP2CA   | NM_002715.4    |
| PPP2R1A  |                |
| PPP2R5D  | NM_006245.4    |
| PPP3CA   |                |
| PPT1     | NM_000310.4    |

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|----------|----------------|
| PQBP1    | NM_005710.2    |
| PRDM13   |                |
| PRDM15   |                |
| PREPL    |                |
| PRICKLE1 | NM_153026.3    |
| PRICKLE2 |                |
| PRKACB   |                |
| PRKAR1B  |                |
| PRKCG    |                |
| PRKRA    | NM_003690.5    |
| PRMT7    | NM_019023.5    |
| PRODH    | NM_016335.6    |
| PROK2    | NM_001126128.2 |
| PROKR2   | NM_144773.4    |
| PRORP    |                |
| PROSER1  |                |
| PRPF8    |                |
| PRPS1    | NM_002764.4    |
| PRR12    |                |
| PRRT2    | NM_145239.3    |
| PRSS12   | NM_003619.4    |
| PRUNE1   |                |
| PSAP     | NM_002778.4    |
| PSMC3    | NM_002804.5    |
| PSMD12   |                |
| PSPH     |                |
| PTCH1    |                |
| PTCHD1   | NM_173495.3    |
| PTDSS1   |                |
| PTEN     | NM_000314.8    |
| PTPA     |                |
| PTPN11   | NM_002834.5    |
| PTPN23   |                |
| PTRH2    |                |
| PTRHD1   |                |
| PTS      | NM_000317.3    |
| PUF60    | NM_078480.3    |
| PUM1     |                |
| PURA     | NM_005859.5    |
| PUS1     | NM_025215.6    |
| PUS3     |                |
| PUS7     |                |
| PYCR1    |                |

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PYCR2  
 QARS1 NM\_005051.3  
 QRICH1 NM\_017730.4  
 RAB11A  
 RAB11B  
 RAB18 NM\_021252.5  
 RAB23 NM\_183227.3  
 RAB27A  
 RAB39B NM\_171998.4  
 RAB3GAP1 NM\_012233.3  
 RAB3GAP2 NM\_012414.4  
 RABGAP1  
 RABL6  
 RAC1  
 RAC3  
 RAD21 NM\_006265.3  
 RAF1 NM\_002880.4  
 RAI1 NM\_030665.4  
 RALA  
 RALGAPA1 NM\_014990.3  
 RAP1B NM\_015646.6  
 RAP1GDS1  
 RARB  
 RARS1  
 RARS2  
 RASA1 NM\_002890.3  
 RBBP8 NM\_002894.3  
 RBL2  
 RBM10 NM\_005676.5  
 RBM28  
 RBPJ  
 RCBTB1  
 RELN NM\_005045.4  
 RERE NM\_012102.4  
 RFT1  
 RFX3  
 RFX4  
 RFX7  
 RGS6  
 RHOBTB2  
 RIC1  
 RIMS1  
 RIMS2 NM\_014677.5

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|----------|----------------|
| RIT1     | NM_006912.6    |
| RLIM     | NM_183353.3    |
| RMND1    | NM_017909.4    |
| RNASEH2A |                |
| RNASEH2B |                |
| RNASEH2C |                |
| RNASET2  |                |
| RNF113A  |                |
| RNF125   |                |
| RNF13    |                |
| RNF135   | NM_032322.4    |
| RNF220   |                |
| RNFT2    |                |
| RNH1     |                |
| RNPC3    | NM_017619.4    |
| ROBO1    |                |
| ROGDI    |                |
| RORA     | NM_134261.3    |
| RPGRIP1L | NM_015272.5    |
| RPL10    | NM_006013.5    |
| RPS6KA3  | NM_004586.3    |
| RRAGC    |                |
| RRAS     | NM_006270.5    |
| RRAS2    | NM_012250.6    |
| RRM2B    | NM_015713.5    |
| RSPRY1   |                |
| RSRC1    |                |
| RTEL1    | NM_032957.5    |
| RTN4IP1  |                |
| RTTN     | NM_173630.4    |
| RUSC2    |                |
| SALL1    | NM_002968.3    |
| SAMD9    |                |
| SAMHD1   |                |
| SARS1    |                |
| SASS6    |                |
| SATB1    | NM_001195470.3 |
| SATB2    | NM_015265.4    |
| SBDS     | NM_016038.4    |
| SC5D     | NM_006918.5    |
| SCAF4    | NM_020706.2    |
| SCAMP5   |                |
| SCAPER   |                |



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| SCARB2  | NM_005506.4                  |
| SCN10A  | NM_006514.4                  |
| SCN1A   | NM_001165963.4               |
| SCN1B   | NM_001037.5                  |
| SCN2A   | NM_021007.3                  |
| SCN3A   |                              |
| SCN8A   | NM_014191.4                  |
| SCO2    | NM_005138.3                  |
| SCUBE3  | NM_001303136.2               |
| SCYL1   | NM_020680.4                  |
| SCYL2   |                              |
| SDCCAG8 | NM_006642.5                  |
| SDHA    | NM_004168.4                  |
| SDHAF1  |                              |
| SDHB    | NM_003000.3                  |
| SDHD    | NM_003002.4                  |
| SEMA5A  | NM_003966.3                  |
| SEMA6B  |                              |
| SEPSECS |                              |
| SERAC1  | NM_032861.4                  |
| SET     | NM_001122821.2               |
| SETBP1  | NM_015559.3                  |
| SETD1A  | NM_014712.3                  |
| SETD1B  |                              |
| SETD2   | NM_014159.7                  |
| SETD5   | NM_001080517.3               |
| SFXN4   |                              |
| SGPL1   |                              |
| SGSH    | NM_000199.5                  |
| SHANK1  | NM_016148.5                  |
| SHANK2  | NM_012309.5                  |
| SHANK3  | NM_001372044.2               |
| SHH     | NM_000193.4                  |
| SHMT2   |                              |
| SHOC2   | NM_007373.4                  |
| SHQ1    |                              |
| SIAH1   |                              |
| SIK1    |                              |
| SIL1    |                              |
| SIN3A   |                              |
| SIN3B   | NM_015260.4                  |
| SIX3    |                              |
| SKI     | NM_003036.4                  |

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SLC12A2  
 SLC12A5  
 SLC12A6  
 SLC13A5 NM\_177550.5  
 SLC16A2 NM\_006517.5  
 SLC17A5 NM\_012434.5  
 SLC18A2  
 SLC1A1 NM\_004170.6  
 SLC1A2  
 SLC1A4  
 SLC25A1 NM\_005984.5  
 SLC25A12  
 SLC25A13 NM\_014251.3  
 SLC25A15 NM\_014252.4  
 SLC25A19  
 SLC25A22 NM\_024698.6  
 SLC25A42  
 SLC2A1 NM\_006516.4  
 SLC30A7  
 SLC30A9  
 SLC32A1  
 SLC33A1  
 SLC35A2 NM\_001042498.3  
 SLC35A3 NM\_012243.3  
 SLC35B2  
 SLC35C1 NM\_018389.5  
 SLC38A3  
 SLC39A8  
 SLC44A1  
 SLC45A1 NM\_001080397.3  
 SLC46A1 NM\_080669.6  
 SLC4A4 NM\_003759.4  
 SLC5A7  
 SLC6A1 NM\_003042.4  
 SLC6A17  
 SLC6A19 NM\_001003841.3  
 SLC6A3  
 SLC6A4 NM\_001045.6  
 SLC6A8 NM\_005629.4  
 SLC6A9  
 SLC9A6 NM\_006359.3  
 SLC9A7  
 SLF2

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SLITRK2  
 SMAD4 NM\_005359.6  
 SMAD6 NM\_005585.5  
 SMARCA2 NM\_003070.5  
 SMARCA4 NM\_001128849.3  
 SMARCA5 NM\_003601.4  
 SMARCB1 NM\_003073.5  
 SMARCC2 NM\_003075.5  
 SMARCD1  
 SMARCE1 NM\_003079.5  
 SMC1A NM\_006306.4  
 SMC3 NM\_005445.4  
 SMC5  
 SMG8 NM\_018149.7  
 SMG9  
 SMO NM\_005631.5  
 SMOC1 NM\_001034852.3  
 SMPD1 NM\_000543.5  
 SMPD4 NM\_017951.4  
 SMS NM\_004595.5  
 SNAP25 NM\_003081.5  
 SNAP29  
 SNAPC4  
 SNIP1  
 SNRPB  
 SNX14  
 SNX27  
 SOBP NM\_018013.4  
 SON NM\_032195.3  
 SOS1 NM\_005633.4  
 SOS2 NM\_006939.4  
 SOX10 NM\_006941.4  
 SOX11 NM\_003108.4  
 SOX2 NM\_003106.4  
 SOX3 NM\_005634.3  
 SOX4  
 SOX5 NM\_006940.6  
 SOX6 NM\_033326.3  
 SPART  
 SPATA5  
 SPATA5L1  
 SPECC1L NM\_015330.6  
 SPEN NM\_015001.3

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SPG11  
SPOP  
SPR  
SPRED1 NM\_152594.3  
SPRED2 NM\_181784.3  
SPTAN1 NM\_001130438.3  
SPTBN1  
SPTBN2  
SPTBN4  
SQSTM1  
SRCAP NM\_006662.3  
SRD5A3 NM\_024592.5  
SRGAP3 NM\_014850.4  
SRP54  
SRRM2  
SRSF1 NM\_006924.5  
ST3GAL3 NM\_006279.5  
ST3GAL5 NM\_003896.4  
STAG1 NM\_005862.3  
STAG2 NM\_001042749.2  
STAMBP NM\_006463.6  
STEEP1  
STIL NM\_003035.2  
STIM1  
STRA6 NM\_022369.4  
STRADA NM\_001003787.4  
STT3A NM\_001278503.2  
STUB1 NM\_005861.4  
STX16 NM\_001001433.3  
STX1A NM\_004603.4  
STX1B NM\_052874.5  
STXBP1 NM\_003165.6  
SUCLA2 NM\_003850.3  
SUFU  
SUOX  
SUPT16H  
SUPV3L1  
SURF1  
SUZ12  
SVBP  
SYN1 NM\_133499.2  
SYNCRIP  
SYNE1 NM\_033071.4

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| SYNGAP1 | NM_006772.3                  |
| SYNJ1   | NM_003895.3                  |
| SYP     | NM_003179.3                  |
| SYT1    |                              |
| SZT2    | NM_015284.4                  |
| TAB2    | NM_015093.6                  |
| TACO1   | NM_016360.4                  |
| TAF1    | NM_004606.5                  |
| TAF13   |                              |
| TAF2    |                              |
| TAF4    |                              |
| TAF6    |                              |
| TAF8    |                              |
| TANC2   |                              |
| TANGO2  |                              |
| TAOK1   | NM_020791.4                  |
| TAOK2   | NM_016151.4                  |
| TARS2   |                              |
| TASP1   |                              |
| TAT     |                              |
| TBC1D20 | NM_144628.4                  |
| TBC1D23 |                              |
| TBC1D24 | NM_001199107.2               |
| TBC1D2B |                              |
| TBC1D7  |                              |
| TBCD    |                              |
| TBCE    | NM_003193.5                  |
| TBCK    |                              |
| TBL1XR1 | NM_024665.7                  |
| TBR1    | NM_006593.4                  |
| TBX1    | NM_080647.1                  |
| TBX2    |                              |
| TBX3    | NM_005996.4                  |
| TCEAL1  |                              |
| TCF12   |                              |
| TCF20   | NM_005650.4                  |
| TCF4    | NM_001083962.2               |
| TCF7L2  |                              |
| TCTN2   | NM_024809.5                  |
| TDP2    |                              |
| TECPR2  |                              |
| TECR    | NM_138501.6                  |
| TELO2   |                              |

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| TET2     | NM_001127208.3               |
| TET3     |                              |
| TFE3     |                              |
| TGIF1    |                              |
| TH       |                              |
| THG1L    |                              |
| THOC2    |                              |
| THOC6    | NM_024339.5                  |
| THRA     | NM_199334.5                  |
| THRB     |                              |
| THUMPD1  |                              |
| TIAM1    |                              |
| TIMM50   |                              |
| TIMM8A   | NM_004085.4                  |
| TIMMDC1  |                              |
| TKFC     |                              |
| TKT      | NM_001135055.3               |
| TLK2     | NM_006852.6                  |
| TM4SF20  |                              |
| TMCO1    | NM_019026.6                  |
| TMEM106B |                              |
| TMEM107  | NM_032354.5                  |
| TMEM147  | NM_032635.4                  |
| TMEM163  |                              |
| TMEM165  |                              |
| TMEM216  | NM_001173990.3               |
| TMEM218  |                              |
| TMEM222  |                              |
| TMEM231  | NM_001077416.2               |
| TMEM237  | NM_001044385.3               |
| TMEM240  |                              |
| TMEM63A  |                              |
| TMEM63B  |                              |
| TMEM63C  |                              |
| TMEM67   | NM_153704.6                  |
| TMEM70   | NM_017866.6                  |
| TMEM94   | NM_014738.6                  |
| TMLHE    | NM_018196.4                  |
| TMTC3    |                              |
| TMX2     | NM_015959.4                  |
| TNIK     |                              |
| TNK2     | NM_001010938.2               |
| TNPO2    | NM_001136196.2               |

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TNR  
 TNRC6B  
 TOE1  
 TOGARAM1  
 TOP3A  
 TOR1A  
 TOR1AIP1 NM\_001267578.2  
 TP53RK  
 TP73  
 TPI1  
 TPK1  
 TPP1 NM\_000391.4  
 TPP2  
 TPRKB  
 TRA2B  
 TRAF7 NM\_032271.3  
 TRAIIP NM\_005879.3  
 TRAK1  
 TRAPPC10  
 TRAPPC11  
 TRAPPC12  
 TRAPPC2L  
 TRAPPC4  
 TRAPPC6B  
 TRAPPC9 NM\_031466.8  
 TREX1 NM\_033629.6  
 TRIM32 NM\_012210.4  
 TRIM8 NM\_030912.3  
 TRIO NM\_007118.4  
 TRIP12 NM\_004238.3  
 TRIT1  
 TRMT1  
 TRMT10A NM\_152292.5  
 TRMT5 NM\_020810.3  
 TRNT1 NM\_182916.3  
 TRPC5 NM\_012471.3  
 TRPM3  
 TRRAP NM\_003496.4  
 TSC1 NM\_000368.5  
 TSC2 NM\_000548.5  
 TSEN15  
 TSEN2  
 TSEN54

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| Gene    | Transcript                   |
| TSFM    | NM_001172696.2               |
| TSPAN7  | NM_004615.4                  |
| TSPOAP1 |                              |
| TTC37   | NM_014639.4                  |
| TTC5    |                              |
| TTC8    | NM_198309.3                  |
| TTI1    |                              |
| TTI2    |                              |
| TUBA1A  | NM_006009.4                  |
| TUBB    |                              |
| TUBB2A  |                              |
| TUBB2B  | NM_178012.5                  |
| TUBB3   |                              |
| TUBB4A  |                              |
| TUBG1   |                              |
| TUBGCP2 | NM_001256617.2               |
| TUBGCP4 |                              |
| TUBGCP6 |                              |
| TUSC3   | NM_006765.4                  |
| TWIST1  | NM_000474.4                  |
| TWIST2  | NM_057179.3                  |
| TWNK    | NM_021830.5                  |
| UBA2    |                              |
| UBA5    |                              |
| UBAP2L  |                              |
| UBE2A   | NM_003336.4                  |
| UBE3A   | NM_130838.4                  |
| UBE3B   | NM_130466.4                  |
| UBE3C   |                              |
| UBE4A   | NM_004788.4                  |
| UBR1    | NM_174916.3                  |
| UBR7    |                              |
| UBTF    |                              |
| UFC1    |                              |
| UFM1    |                              |
| UFSP2   |                              |
| UGDH    |                              |
| UGP2    |                              |
| UNC45A  |                              |
| UNC79   |                              |
| UNC80   |                              |
| UPB1    | NM_016327.3                  |
| UPF3B   | NM_080632.3                  |



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| UQCC2   | NM_032340.4                  |
| UQCRFS1 | NM_006003.3                  |
| UROC1   | NM_144639.3                  |
| USP27X  | NM_001145073.3               |
| USP7    |                              |
| USP9X   | NM_001039590.3               |
| VAC14   |                              |
| VAMP2   |                              |
| VARS1   |                              |
| VARS2   |                              |
| VCP     | NM_007126.5                  |
| VLDLR   | NM_003383.5                  |
| VPS11   |                              |
| VPS13B  | NM_017890.5                  |
| VPS13D  |                              |
| VPS16   |                              |
| VPS35L  |                              |
| VPS37A  |                              |
| VPS41   |                              |
| VPS4A   | NM_013245.3                  |
| VPS53   |                              |
| VRK1    |                              |
| WAC     | NM_016628.5                  |
| WARS1   |                              |
| WARS2   |                              |
| WASF1   | NM_003931.3                  |
| WASHC4  |                              |
| WASHC5  |                              |
| WDFY3   |                              |
| WDPCP   | NM_015910.7                  |
| WDR11   | NM_018117.12                 |
| WDR26   |                              |
| WDR37   | NM_014023.4                  |
| WDR4    |                              |
| WDR45   | NM_007075.4                  |
| WDR45B  | NM_019613.4                  |
| WDR5    |                              |
| WDR62   | NM_001083961.2               |
| WDR73   | NM_032856.5                  |
| WDR81   |                              |
| WIPI2   |                              |
| WNK3    | NM_020922.5                  |
| WNT1    |                              |

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| <b>Panel</b> | Neurodevelopmental disorders |
| <b>Gene</b>  | <b>Transcript</b>            |

|         |                |
|---------|----------------|
| WWOX    | NM_016373.4    |
| XPA     |                |
| XRCC4   | NM_022406.5    |
| XYLT1   |                |
| YAP1    | NM_001130145.3 |
| YARS1   |                |
| YIF1B   |                |
| YIPF5   | NM_001024947.4 |
| YWHAE   | NM_006761.5    |
| YWHAG   |                |
| YY1     |                |
| ZBTB11  |                |
| ZBTB18  | NM_205768.3    |
| ZBTB20  | NM_001164342.2 |
| ZBTB24  |                |
| ZBTB7A  |                |
| ZC3H14  | NM_024824.5    |
| ZC4H2   | NM_018684.4    |
| ZDHHC15 | NM_144969.3    |
| ZDHHC9  | NM_016032.4    |
| ZEB2    | NM_014795.4    |
| ZFHX4   | NM_024721.5    |
| ZFYVE26 |                |
| ZIC1    |                |
| ZIC2    |                |
| ZMIZ1   | NM_020338.4    |
| ZMYM2   | NM_003453.6    |
| ZMYM3   | NM_201599.3    |
| ZMYND11 | NM_006624.7    |
| ZMYND8  |                |
| ZNF142  |                |
| ZNF148  |                |
| ZNF292  | NM_015021.3    |
| ZNF335  |                |
| ZNF407  |                |
| ZNF462  |                |
| ZNF526  | NM_133444.3    |
| ZNF699  |                |
| ZNF711  | NM_021998.5    |
| ZNF81   | NM_007137.5    |
| ZNHIT3  |                |
| ZSWIM6  |                |