

 LILLE INTEGRATED GENOMIC ADVANCED NETWORK	List of genes	LIGAN/R4-EN-10 V4
		2024-05-10

Date	February 2025
Panel	Neurodevelopmental disorders
Gene	Transcript

A2ML1	NM_144670.6
AARS1	NM_001605.3
AARS2	NM_020745.4
ABCA2	NM_001606.5
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	NM_001098.3
ACOX1	NM_004035.7
ACSF3	NM_001243279.3
ACSL4	NM_004458.3
ACTB	NM_001101.5
ACTG1	NM_001614.5
ACTL6A	NM_004301.5
ACTL6B	NM_016188.5
ACVR1	NM_001105.5
ACY1	NM_000666.3
ADA	NM_000022.4
ADAM22	NM_001324418.2
ADAR	NM_001111.5
ADARB1	NM_015833.4
ADAT3	NM_138422.4
ADD1	NM_001354761.2
ADD3	NM_016824.5
ADGRG1	NM_201525.4
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
AFG2A	NM_145207.3
AFG2B	NM_024063.3
AGA	NM_000027.4
AGMO	NM_001004320.2

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AGO1	NM_012199.5
AGO2	NM_012154.5
AGPAT2	NM_006412.4
AGPS	NM_003659.4
AGTPBP1	NM_001330701.2
AHCY	NM_000687.4
AHDC1	NM_001029882.3
AHI1	NM_017651.5
AIFM1	NM_004208.4
AIMP1	NM_001142416.2
AIMP2	NM_006303.4
AK1	NM_000476.3
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	NM_001004127.3
ALG12	NM_024105.4
ALG13	NM_001099922.3
ALG2	NM_033087.4
ALG3	NM_005787.6
ALG6	NM_013339.4
ALG9	NM_024740.2
ALKBH8	NM_001301010.3
ALMS1	NM_001378454.1
ALS2	NM_020919.4
AMER1	NM_152424.4
AMFR	NM_001144.6
AMPD2	NM_001368809.2
AMT	NM_000481.4
ANAPC1	NM_022662.4
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	NM_018075.5
ANO3	NM_031418.4

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ANOS1	NM_000216.4
AP1B1	NM_001127.4
AP1G1	NM_001030007.2
AP1S1	NM_001283.5
AP1S2	NM_003916.5
AP2M1	NM_004068.4
AP3B1	NM_003664.5
AP3B2	NM_001278512.2
AP3D1	NM_001261826.3
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	NM_001655.5
ARF1	NM_001658.4
ARF3	NM_001659.3
ARFGEF1	NM_006421.5
ARFGEF2	NM_006420.3
ARG1	NM_000045.4
ARHGAP32	NM_001378024.1
ARHGAP35	NM_004491.5
ARHGEF6	NM_004840.3
ARHGEF9	NM_015185.3
ARID1A	NM_006015.6
ARID1B	NM_001374820.1
ARID2	NM_152641.4
ARIH1	NM_005744.5
ARL13B	NM_182896.3
ARL3	NM_004311.4
ARL6	NM_177976.3
ARMC9	NM_001352754.2
ARPC4	NM_005718.5
ARSA	NM_000487.6
ARSL	NM_000047.3
ARV1	NM_022786.3
ARX	NM_139058.3
ASAH1	NM_177924.5
ASH1L	NM_018489.3
ASL	NM_000048.4
ASNS	NM_001673.5
ASPA	NM_000049.4

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ASPM	NM_018136.5
ASS1	NM_000050.4
ASXL1	NM_015338.6
ASXL2	NM_018263.6
ASXL3	NM_030632.3
ATAD3A	NM_001170535.3
ATG7	NM_001349232.2
ATIC	NM_004044.7
ATN1	NM_001940.4
ATP1A1	NM_000701.8
ATP1A2	NM_000702.4
ATP1A3	NM_152296.5
ATP2A2	NM_170665.4
ATP2B1	NM_001366521.1
ATP5F1A	NM_004046.6
ATP5F1E	NM_006886.4
ATP5PO	NM_001697.3
ATP6AP2	NM_005765.3
ATP6V0A1	NM_001130021.3
ATP6V0A2	NM_012463.4
ATP6V0C	NM_001694.4
ATP6V1A	NM_001690.4
ATP6V1B2	NM_001693.4
ATP7A	NM_000052.7
ATP7B	NM_000053.4
ATP8A2	NM_016529.6
ATP9A	NM_006045.3
ATR	NM_001184.4
ATRX	NM_000489.6
AUH	NM_001698.3
AUTS2	NM_015570.4
B3GALNT2	NM_152490.5
B3GALT6	NM_080605.4
B3GAT3	NM_012200.4
B3GLCT	NM_194318.4
B4GALNT1	NM_001478.5
B4GALT1	NM_001497.4
B4GALT7	NM_007255.3
B9D1	NM_015681.5
BAP1	NM_004656.4
BBIP1	NM_001195306.2
BBS1	NM_024649.5
BBS10	NM_024685.4

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BBS12	NM_152618.3
BBS2	NM_031885.5
BBS4	NM_033028.5
BBS5	NM_152384.3
BBS7	NM_176824.3
BBS9	NM_198428.3
BCAP31	NM_001256447.2
BCAS3	NM_001099432.3
BCKDHA	NM_000709.4
BCKDHB	NM_183050.4
BCKDK	NM_005881.4
BCL11A	NM_022893.4
BCL11B	NM_138576.4
BCOR	NM_017745.6
BCORL1	NM_001379451.1
BCS1L	NM_004328.5
BICRA	NM_001394372.1
BLM	NM_000057.4
BLOC1S1	NM_001487.4
BLTP1	NM_001384125.1
BOD1	NM_138369.3
BOLA3	NM_212552.3
BPTF	NM_182641.4
BRAF	NM_004333.6
BRAT1	NM_152743.4
BRCA1	NM_007294.4
BRD3	NM_007371.4
BRD4	NM_001379291.1
BRF1	NM_001519.4
BRPF1	NM_001003694.2
BRSK2	NM_001256627.2
BRWD1	NM_018963.5
BRWD3	NM_153252.5
BSCL2	NM_032667.6
BTD	NM_001370658.1
BTF3	NM_001037637.2
BUB1B	NM_001211.6
BUD13	NM_032725.4
C12orf57	NM_138425.4
C2orf69	NM_153689.6
CA2	NM_000067.3
CA5A	NM_001739.2
CA8	NM_004056.6

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CACNA1A	NM_001127221.2
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	NM_021098.3
CACNA1I	NM_021096.4
CACNA2D1	NM_000722.4
CACNA2D2	NM_006030.4
CACNG2	NM_006078.5
CAD	NM_004341.5
CAMK2A	NM_015981.4
CAMK2B	NM_001220.5
CAMK2D	NM_001321571.2
CAMK4	NM_001744.6
CAMSAP1	NM_015447.4
CAMTA1	NM_015215.4
CAPN10	NM_023083.4
CAPN15	NM_005632.3
CAPRIN1	NM_005898.5
CAPZA2	NM_006136.3
CARS1	NM_001014437.3
CARS2	NM_024537.4
CASK	NM_003688.3
CASR	NM_000388.4
CBL	NM_005188.4
CBS	NM_000071.3
CBX1	NM_001127228.2
CBY1	NM_015373.4
CC2D1A	NM_017721.5
CC2D2A	NM_001080522.2
CCBE1	NM_133459.4
CCDC115	NM_032357.4
CCDC174	NM_016474.5
CCDC22	NM_014008.5
CCDC32	NM_001080792.4
CCDC47	NM_020198.3
CCDC82	NM_024725.4
CCDC88A	NM_001365480.1
CCDC88C	NM_001080414.4
CCND2	NM_001759.4

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CDC42	NM_001791.4
CDC42BPB	NM_006035.4
CDH10	NM_006727.5
CDH11	NM_001797.4
CDH15	NM_004933.3
CDH2	NM_001792.5
CDH9	NM_016279.4
CDK10	NM_052988.5
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	NM_001378964.1
CELF2	NM_001326342.2
CENPE	NM_001813.3
CENPF	NM_016343.4
CENPJ	NM_018451.5
CEP104	NM_014704.4
CEP120	NM_153223.4
CEP135	NM_025009.5
CEP152	NM_014985.4
CEP19	NM_032898.5
CEP290	NM_025114.4
CEP41	NM_018718.3
CEP55	NM_018131.5
CEP57	NM_014679.5
CEP63	NM_001353108.3
CEP83	NM_016122.3
CEP85L	NM_001042475.3
CERT1	NM_001130105.1
CHAMP1	NM_001164144.3
CHD1	NM_001270.4
CHD2	NM_001271.4
CHD3	NM_001005273.3
CHD4	NM_001273.5
CHD5	NM_015557.3
CHD7	NM_017780.4
CHD8	NM_001170629.2
CHKA	NM_001277.3
CHKB	NM_005198.5

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CHMP1A	NM_002768.5
CHRNA2	NM_000742.4
CHRNA4	NM_000744.7
CHRNA7	NM_000746.6
CHRNA2	NM_000748.3
CIC	NM_001386298.1
CIT	NM_001206999.2
CKAP2L	NM_152515.5
CLCN2	NM_004366.6
CLCN3	NM_173872.4
CLCN4	NM_001830.4
CLCN6	NM_001286.5
CLCN7	NM_001287.6
CLDN11	NM_005602.6
CLDN5	NM_001363066.2
CLIC2	NM_001289.6
CLN3	NM_001042432.2
CLN5	NM_006493.4
CLN6	NM_017882.3
CLN8	NM_018941.4
CLP1	NM_006831.3
CLPB	NM_001258392.3
CLPP	NM_006012.4
CLTC	NM_001288653.2
CNKS1R1	NM_006314.3
CNKS1R2	NM_014927.5
CNNM2	NM_017649.5
CNOT1	NM_001265612.2
CNOT3	NM_014516.4
CNOT9	NM_005444.3
CNPY3	NM_006586.5
CNTN4	NM_175607.3
CNTNAP1	NM_003632.3
CNTNAP2	NM_014141.6
COA8	NM_001370595.2
COASY	NM_025233.7
COG1	NM_018714.3
COG5	NM_006348.5
COG6	NM_020751.3
COG7	NM_153603.4
COG8	NM_032382.5
COL18A1	NM_001379500.1
COL27A1	NM_032888.4

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COL3A1	NM_000090.4
COL4A1	NM_001845.6
COL4A2	NM_001846.4
COLEC11	NM_024027.5
COLGALT1	NM_024656.4
COPB1	NM_001144061.2
COPB2	NM_004766.3
COQ2	NM_015697.9
COQ4	NM_016035.5
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	NM_006651.4
CPS1	NM_001875.5
CPSF3	NM_016207.4
CRADD	NM_003805.5
CRBN	NM_016302.4
CREBBP	NM_004380.3
CRIP1	NM_014171.6
CRLS1	NM_019095.6
CRMP1	NM_001014809.3
CRPPA	NM_001101426.4
CSDE1	NM_001130523.3
CSF1R	NM_001288705.3
CSGALNACT1	NM_001354483.2
CSNK1G1	NM_022048.5
CSNK2A1	NM_001895.4
CSNK2B	NM_001320.7
CSPP1	NM_024790.6
CSTB	NM_000100.4
CTBP1	NM_001012614.2
CTCF	NM_006565.4
CTDP1	NM_004715.5
CTNNA2	NM_001282597.3
CTNNB1	NM_001904.4
CTNND1	NM_001085458.2
CTR9	NM_014633.5
CTSF	NM_003793.4
CTU2	NM_001012759.3
CUL3	NM_003590.5

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CUL4B	NM_003588.4
CUX1	NM_181552.4
CUX2	NM_015267.4
CWC27	NM_005869.4
CWF19L1	NM_018294.6
CYB5R3	NM_000398.7
CYFIP1	NM_014608.6
CYFIP2	NM_001037333.3
CYP26B1	NM_019885.4
CYP27A1	NM_000784.4
CYP2U1	NM_183075.3
D2HGDH	NM_152783.5
DAG1	NM_004393.6
DAGLA	NM_006133.3
DARS1	NM_001349.4
DARS2	NM_018122.5
DBT	NM_001918.5
DCAF17	NM_025000.4
DCC	NM_005215.4
DCHS1	NM_003737.4
DCPS	NM_014026.6
DCX	NM_178153.3
DDB1	NM_001923.5
DDC	NM_001082971.2
DDHD2	NM_015214.3
DDOST	NM_005216.5
DDX23	NM_004818.3
DDX3X	NM_001193416.3
DDX59	NM_001031725.6
DDX6	NM_004397.6
DEAF1	NM_021008.4
DEGS1	NM_003676.4
DENND5A	NM_015213.4
DENND5B	NM_144973.4
DEPDC5	NM_001242896.3
DHCR24	NM_014762.4
DHCR7	NM_001360.3
DHDDS	NM_205861.3
DHFR	NM_000791.4
DHPS	NM_001930.4
DHX30	NM_138615.3
DHX37	NM_032656.4
DHX9	NM_001357.5

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DIAPH1	NM_005219.5
DIP2B	NM_173602.3
DIS3L2	NM_152383.5
DISC1	NM_018662.3
DKC1	NM_001363.5
DLAT	NM_001931.5
DLD	NM_000108.5
DLG2	NM_001142699.3
DLG3	NM_021120.4
DLG4	NM_001321075.3
DLL1	NM_005618.4
DMD	NM_004006.3
DMPK	NM_001081563.2
DMXL2	NM_001174116.3
DNAH14	NM_001367479.1
DNAJC12	NM_021800.3
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	NM_004947.5
DOCK6	NM_020812.4
DOCK7	NM_001367561.1
DOCK8	NM_203447.4
DOHH	NM_001145165.2
DONSON	NM_017613.4
DOT1L	NM_032482.3
DPAGT1	NM_001382.4
DPF2	NM_006268.5
DPH1	NM_001383.6
DPH5	NM_015958.3
DPM1	NM_003859.3
DPM3	NM_153741.2
DPP6	NM_001936.5
DPYD	NM_000110.4
DPYSL5	NM_020134.4
DRG1	NM_004147.4
DSCAM	NM_001389.5
DTYMK	NM_012145.4
DYM	NM_001353214.3
DYNC1H1	NM_001376.5

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DYNC1I2	NM_001378.3
DYRK1A	NM_001396.5
EARS2	NM_001083614.2
EBF3	NM_001005463.3
EBP	NM_006579.3
ECHS1	NM_004092.4
EDEM3	NM_025191.4
EED	NM_003797.5
EEF1A2	NM_001958.5
EEF1B2	NM_001959.4
EEF1D	NM_001130053.5
EEF2	NM_001961.4
EFL1	NM_024580.6
EFTUD2	NM_004247.4
EHMT1	NM_024757.5
EIF2AK2	NM_001135651.3
EIF2AK3	NM_004836.7
EIF2B1	NM_001414.4
EIF2B2	NM_014239.4
EIF2B3	NM_020365.5
EIF2B4	NM_015636.4
EIF2B5	NM_003907.3
EIF2S3	NM_001415.4
EIF3F	NM_003754.3
EIF4A2	NM_001967.4
EIF4A3	NM_014740.4
EIF4E	NM_001130679.3
EIF5A	NM_001970.5
ELAC2	NM_018127.7
ELOVL4	NM_022726.4
ELP2	NM_001242875.3
EMC1	NM_015047.3
EMC10	NM_206538.4
EMG1	NM_006331.8
EML1	NM_004434.3
EMX2	NM_004098.4
EN2	NM_001427.4
ENTPD1	NM_001776.6
EP300	NM_001429.4
EP400	NM_015409.5
EPB41L1	NM_012156.2
EPG5	NM_020964.3
EPM2A	NM_005670.4

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EPRS1	NM_004446.3
ERBB4	NM_005235.3
ERCC1	NM_001983.4
ERCC2	NM_000400.4
ERCC3	NM_000122.2
ERCC5	NM_000123.4
ERCC6	NM_000124.4
ERCC6L2	NM_020207.7
ERCC8	NM_000082.4
ERF	NM_006494.4
ERLIN2	NM_007175.8
ESAM	NM_138961.3
ESCO2	NM_001017420.3
ETHE1	NM_014297.5
EXOC7	NM_001013839.4
EXOC8	NM_175876.5
EXOSC2	NM_014285.7
EXOSC3	NM_016042.4
EXOSC5	NM_020158.4
EXOSC8	NM_181503.3
EXOSC9	NM_005033.3
EXT2	NM_207122.2
EXTL3	NM_001440.4
EZH2	NM_004456.5
FAM149B1	NM_173348.2
FAM50A	NM_004699.4
FANCD2	NM_033084.6
FAR1	NM_032228.6
FARS2	NM_006567.5
FASTKD2	NM_014929.4
FAT1	NM_005245.4
FAT4	NM_024582.6
FBN3	NM_032447.5
FBRSL1	NM_001367871.1
FBXL3	NM_012158.4
FBXL4	NM_012160.5
FBXO11	NM_001190274.2
FBXO28	NM_015176.4
FBXO31	NM_024735.5
FBXW11	NM_012300.3
FBXW7	NM_001349798.2
FCSK	NM_145059.3
FDFT1	NM_004462.5

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FEM1B	NM_015322.5
FERRY3	NM_020374.4
FGD1	NM_004463.3
FGF12	NM_021032.5
FGF13	NM_004114.5
FGFR1	NM_023110.3
FGFR2	NM_000141.5
FGFR3	NM_000142.5
FH	NM_000143.4
FIBP	NM_004214.5
FICD	NM_007076.3
FIG4	NM_014845.6
FILIP1	NM_015687.5
FITM2	NM_001080472.4
FKRP	NM_024301.5
FKTN	NM_001079802.2
FLNA	NM_001456.4
FMN2	NM_020066.5
FMR1	NM_002024.6
FOLR1	NM_016725.3
FOSL2	NM_005253.4
FOXG1	NM_005249.5
FOXP1	NM_032682.6
FOXP2	NM_014491.4
FOXP4	NM_001012426.2
FOXRED1	NM_017547.4
FRA10AC1	NM_145246.5
FRAS1	NM_025074.7
FRMD4A	NM_018027.5
FRMD5	NM_032892.5
FRMPD4	NM_014728.3
FRRS1L	NM_014334.4
FRY	NM_023037.3
FRYL	NM_015030.2
FTCD	NM_006657.3
FTO	NM_001080432.3
FTSJ1	NM_012280.4
FUCA1	NM_000147.5
FUT8	NM_001371533.1
FZR1	NM_016263.4
GABBR1	NM_001470.4
GABBR2	NM_005458.8
GABRA1	NM_000806.5

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GABRA2	NM_000807.4
GABRA5	NM_000810.4
GABRB2	NM_021911.3
GABRB3	NM_000814.6
GABRD	NM_000815.5
GABRG2	NM_000816.3
GAD1	NM_000817.3
GALC	NM_000153.4
GALE	NM_000403.4
GALNT2	NM_004481.5
GALT	NM_000155.4
GAMT	NM_000156.6
GAN	NM_022041.4
GAP43	NM_001130064.2
GATA6	NM_005257.6
GATAD2A	NM_001384528.1
GATAD2B	NM_020699.4
GATM	NM_001482.3
GBA1	NM_001005741.3
GBA2	NM_020944.3
GCDH	NM_000159.4
GCH1	NM_000161.3
GCSH	NM_004483.5
GDF1	NM_001492.6
GDF11	NM_005811.5
GDI1	NM_001493.3
GEMIN4	NM_015721.3
GEMIN5	NM_015465.5
GFAP	NM_002055.5
GFM1	NM_024996.7
GFM2	NM_032380.5
GFPT2	NM_005110.4
GHR	NM_000163.5
GIGYF1	NM_001375765.1
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	NM_002063.4
GLS	NM_014905.5

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GLUL	NM_001033044.4
GMNN	NM_015895.5
GMPPA	NM_013335.4
GMPPB	NM_021971.4
GNAI1	NM_002069.6
GNAO1	NM_020988.3
GNAS	NM_000516.7
GNB1	NM_002074.5
GNB2	NM_005273.4
GNB5	NM_016194.4
GNPAT	NM_014236.4
GNPTAB	NM_024312.5
GNPTG	NM_032520.5
GNS	NM_002076.4
GOLGA2	NM_001366244.2
GOSR2	NM_004287.5
GOT2	NM_002080.4
GPAA1	NM_003801.4
GPC3	NM_004484.4
GPC4	NM_001448.3
GPHN	NM_020806.5
GPRASP1	NM_001099411.2
GPT2	NM_133443.4
GRIA1	NM_001114183.2
GRIA2	NM_001083619.3
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	NM_000836.4
GRIP1	NM_021150.4
GRM1	NM_001278064.2
GRM7	NM_000844.4
GSS	NM_000178.4
GSX2	NM_133267.3
GTF2E2	NM_002095.6
GTF2H5	NM_207118.3
GTPBP1	NM_004286.5
GTPBP2	NM_019096.5
GTPBP3	NM_133644.4

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GUSB	NM_000181.4
H1-4	NM_005321.3
H3-3A	NM_002107.7
H3-3B	NM_005324.5
H4C11	NM_021968.4
H4C3	NM_003542.4
H4C4	NM_003539.4
H4C5	NM_003545.4
H4C6	NM_003540.4
H4C9	NM_003495.3
HACE1	NM_020771.4
HAL	NM_002108.4
HARS1	NM_002109.6
HAX1	NM_006118.4
HCCS	NM_005333.5
HCFC1	NM_005334.3
HCN1	NM_021072.4
HCN2	NM_001194.4
HCRT	NM_001524.1
HDAC3	NM_003883.4
HDAC4	NM_006037.4
HDAC8	NM_018486.3
HEATR3	NM_182922.4
HECTD4	NM_001388303.1
HECW2	NM_001348768.2
HEPACAM	NM_152722.5
HERC1	NM_003922.4
HERC2	NM_004667.6
HESX1	NM_003865.3
HEXA	NM_000520.6
HGSNAT	NM_152419.3
HIBCH	NM_014362.4
HID1	NM_030630.3
HIKESHI	NM_016401.4
HIRA	NM_003325.4
HIVEP2	NM_006734.4
HK1	NM_000188.3
HLCS	NM_001352514.2
HMGA2	NM_003483.6
HMGB1	NM_002128.7
HNMT	NM_006895.3
HNRNPC	NM_031314.3
HNRNPD	NM_031370.3

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HNRNPH1	NM_001257293.2
HNRNPH2	NM_019597.5
HNRNPK	NM_002140.5
HNRNPR	NM_005826.5
HNRNPU	NM_031844.3
HNRNPUL2	NM_001079559.3
HOXA1	NM_005522.5
HPCA	NM_002143.3
HPD	NM_002150.3
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	NM_002156.5
HTR2C	NM_000868.3
HTRA2	NM_013247.5
HTT	NM_001388492.1
HUWE1	NM_031407.7
HYCC1	NM_032581.4
IARS1	NM_002161.6
IDH2	NM_002168.4
IDS	NM_000202.8
IDUA	NM_000203.5
IER3IP1	NM_016097.5
IFIH1	NM_022168.4
IFT172	NM_015662.3
IFT27	NM_006860.5
IFT74	NM_025103.4
IGBP1	NM_001551.3
IGF1	NM_000618.5
IGF1R	NM_000875.5
IKBKG	NM_001099857.5
IL1RAPL1	NM_014271.4
IMPA1	NM_005536.4
IMPDH2	NM_000884.3
INPP4A	NM_001134225.2
INPP5E	NM_019892.6
INPP5K	NM_016532.4
INTS1	NM_001080453.3
INTS11	NM_001256456.2

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IPO8	NM_006390.4
IPP	NM_005897.3
IQSEC1	NM_014869.8
IQSEC2	NM_001111125.3
IRF2BPL	NM_024496.4
IRX5	NM_005853.6
ISCA2	NM_194279.4
ITCH	NM_031483.7
ITGAV	NM_002210.5
ITPA	NM_033453.4
ITPR1	NM_002222.7
ITSN1	NM_003024.3
IVD	NM_002225.5
JAM2	NM_021219.4
JAM3	NM_032801.5
JARID2	NM_004973.4
KANSL1	NM_001193466.2
KANSL2	NM_017822.4
KARS1	NM_005548.3
KAT5	NM_006388.4
KAT6A	NM_006766.5
KAT6B	NM_012330.4
KAT8	NM_182958.4
KATNAL2	NM_031303.3
KATNB1	NM_005886.3
KATNIP	NM_015202.5
KCNA1	NM_000217.3
KCNA2	NM_004974.4
KCNA6	NM_002235.5
KCNB1	NM_004975.4
KCNB2	NM_004770.3
KCNC1	NM_001112741.2
KCNC2	NM_139137.4
KCND1	NM_004979.6
KCND2	NM_012281.3
KCNH1	NM_172362.3
KCNH5	NM_139318.5
KCNJ10	NM_002241.5
KCNJ11	NM_000525.4
KCNJ16	NM_018658.4
KCNJ6	NM_002240.5
KCNK3	NM_002246.3
KCNK4	NM_033310.3

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KCNK9	NM_001282534.2
KCNMA1	NM_002247.4
KCNN2	NM_021614.4
KCNN3	NM_002249.6
KCNQ2	NM_172107.4
KCNQ3	NM_004519.4
KCNQ5	NM_019842.4
KCNT1	NM_020822.3
KCNT2	NM_198503.5
KCTD13	NM_178863.5
KCTD7	NM_153033.5
KDM1A	NM_001009999.3
KDM2B	NM_032590.5
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
KICS2	NM_152440.5
KIDINS220	NM_020738.4
KIF11	NM_004523.4
KIF14	NM_014875.3
KIF1A	NM_004321.8
KIF21B	NM_001252102.2
KIF2A	NM_001098511.3
KIF4A	NM_012310.5
KIF5A	NM_004984.4
KIF5B	NM_004521.3
KIF5C	NM_004522.3
KIF7	NM_198525.3
KIFBP	NM_015634.4
KIRREL3	NM_032531.4
KLF8	NM_007250.5
KLHL15	NM_030624.3
KLHL20	NM_014458.4
KLHL7	NM_001031710.3
KMT2A	NM_001197104.2
KMT2B	NM_014727.3
KMT2C	NM_170606.3

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KMT2D	NM_003482.4
KMT2E	NM_182931.3
KMT5B	NM_017635.5
KPNA7	NM_001145715.3
KPTN	NM_007059.4
KRAS	NM_004985.5
L1CAM	NM_000425.5
L2HGDH	NM_024884.3
LAGE3	NM_006014.5
LAMA1	NM_005559.4
LAMA2	NM_000426.4
LAMB1	NM_002291.3
LAMC3	NM_006059.4
LAMP2	NM_002294.3
LARGE1	NM_004737.7
LARP7	NM_016648.4
LARS2	NM_015340.4
LAS1L	NM_031206.7
LEO1	NM_138792.4
LETM1	NM_012318.3
LGI1	NM_005097.4
LHX2	NM_004789.4
LIAS	NM_006859.4
LIG4	NM_206937.2
LIMK1	NM_002314.4
LINGO1	NM_032808.7
LINS1	NM_001040616.3
LIPT2	NM_001144869.3
LMBRD1	NM_018368.4
LMBRD2	NM_001007527.2
LMNB1	NM_005573.4
LMNB2	NM_032737.4
LNPK	NM_030650.3
LONP1	NM_004793.4
LRP2	NM_004525.3
LRPPRC	NM_133259.4
LRRC43	NM_001098519.2
LRRC7	NM_001370785.2
LSM1	NM_014462.3
LSS	NM_002340.6
LTBP1	NM_206943.4
LYRM7	NM_181705.4
LZTFL1	NM_020347.4

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LZTR1	NM_006767.4
MAB21L1	NM_005584.5
MAB21L2	NM_006439.5
MACF1	NM_001394062.1
MADD	NM_001376571.1
MAF	NM_005360.5
MAG	NM_002361.4
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
MAOA	NM_000240.4
MAP1B	NM_005909.5
MAP2K1	NM_002755.4
MAP2K2	NM_030662.4
MAP3K7	NM_145331.3
MAP4K4	NM_145686.4
MAPK1	NM_002745.5
MAPK8IP3	NM_001040439.2
MAPKAPK5	NM_003668.4
MARK2	NM_001039469.3
MASP1	NM_139125.4
MAST1	NM_014975.3
MAST3	NM_001393504.1
MAST4	NM_001164664.2
MAT1A	NM_000429.3
MBD5	NM_018328.5
MBOAT7	NM_024298.5
MBTPS2	NM_015884.4
MCCC2	NM_022132.5
MCM3AP	NM_003906.5
MCOLN1	NM_020533.3
MCPH1	NM_024596.5
MDH2	NM_005918.4
MECP2	NM_004992.4
MED11	NM_001001683.4
MED12	NM_005120.3
MED12L	NM_001393769.1
MED13	NM_005121.3
MED13L	NM_015335.5

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MED17	NM_004268.5
MED23	NM_015979.4
MED25	NM_030973.4
MED27	NM_004269.4
MEF2C	NM_002397.5
MEGF8	NM_001410.3
MEIS2	NM_170674.5
MESD	NM_015154.3
MET	NM_001127500.3
METTL23	NM_001080510.5
METTL5	NM_014168.4
MFF	NM_001277062.2
MFSD2A	NM_032793.5
MFSD8	NM_152778.3
MGAT2	NM_002408.4
MGME1	NM_052865.4
MIA3	NM_198551.4
MIB1	NM_020774.4
MICOS13	NM_205767.3
MICU1	NM_001195518.2
MID1	NM_000381.4
MINPP1	NM_004897.5
MKKS	NM_018848.3
MKS1	NM_017777.4
MLC1	NM_015166.4
MLYCD	NM_012213.3
MMAA	NM_172250.3
MMACHC	NM_015506.3
MMADHC	NM_015702.3
MMUT	NM_000255.4
MN1	NM_002430.3
MOCS1	NM_001358530.2
MOCS2	NM_004531.5
MOGS	NM_006302.3
MORC2	NM_001303256.3
MPC1	NM_016098.4
MPC2	NM_001143674.4
MPDU1	NM_004870.4
MPDZ	NM_001378778.1
MPLKIP	NM_138701.4
MPV17	NM_002437.5
MRAS	NM_012219.4
MRE11	NM_005591.4

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MRM2	NM_013393.3
MRPS22	NM_020191.4
MRPS34	NM_023936.2
MRTFB	NM_001308142.2
MSL2	NM_018133.4
MSL3	NM_001282174.1
MSMO1	NM_006745.5
MSTO1	NM_018116.4
MTFMT	NM_139242.4
MTHFR	NM_005957.5
MTO1	NM_012123.4
MTOR	NM_004958.4
MTR	NM_000254.3
MTRFR	NM_152269.5
MTRR	NM_002454.3
MTSS2	NM_138383.3
MVK	NM_000431.4
MYCBP2	NM_015057.5
MYCN	NM_005378.6
MYH10	NM_001256012.3
MYO5A	NM_001382347.1
MYT1L	NM_015025.4
NAA10	NM_003491.4
NAA15	NM_057175.5
NAA20	NM_016100.5
NACC1	NM_052876.4
NAE1	NM_003905.4
NAGA	NM_000262.3
NAGLU	NM_000263.4
NALCN	NM_052867.4
NANS	NM_018946.4
NAPB	NM_022080.3
NARS1	NM_004539.4
NARS2	NM_024678.6
NAXD	NM_001242882.2
NAXE	NM_144772.3
NBEA	NM_001385012.1
NBN	NM_002485.5
NCAPG2	NM_017760.7
NCDN	NM_001014839.2
NCKAP1	NM_013436.5
NCOR1	NM_006311.4
NDE1	NM_001143979.2

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NDP	NM_000266.4
NDST1	NM_001543.5
NDUFA1	NM_004541.4
NDUFA11	NM_175614.5
NDUFA2	NM_002488.5
NDUFA6	NM_002490.6
NDUFAF2	NM_174889.5
NDUFAF3	NM_199069.2
NDUFAF4	NM_014165.4
NDUFAF5	NM_024120.5
NDUFAF6	NM_152416.4
NDUFAF8	NM_001086521.2
NDUFB3	NM_002491.3
NDUFB8	NM_005004.4
NDUFC2	NM_004549.6
NDUFS1	NM_005006.7
NDUFS2	NM_001377299.1
NDUFS3	NM_004551.3
NDUFS4	NM_002495.4
NDUFS7	NM_024407.5
NDUFS8	NM_002496.4
NDUFV1	NM_007103.4
NDUFV2	NM_021074.5
NEB	NM_001271208.2
NECAP1	NM_015509.4
NECTIN1	NM_002855.5
NEDD4L	NM_015277.6
NEMF	NM_004713.6
NEU1	NM_000434.4
NEURL4	NM_032442.3
NEUROD2	NM_006160.4
NEUROG1	NM_006161.3
NEXMIF	NM_001008537.3
NF1	NM_000267.3
NFASC	NM_001005388.3
NFIA	NM_001134673.4
NFIB	NM_001190737.2
NFIX	NM_001271043.2
NFU1	NM_001002755.4
NGFR	NM_002507.4
NGLY1	NM_018297.4
NHLRC1	NM_198586.3
NHLRC2	NM_198514.4

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NHS	NM_198270.4
NIPBL	NM_133433.4
NKAP	NM_024528.4
NKX2-1	NM_001079668.3
NKX6-2	NM_177400.3
NLGN3	NM_018977.4
NLGN4X	NM_020742.4
NLRP3	NM_004895.5
NMNAT1	NM_022787.4
NONO	NM_001145408.2
NOVA2	NM_002516.4
NPC1	NM_000271.5
NPC2	NM_006432.5
NPHP1	NM_000272.5
NPRL2	NM_006545.5
NR2F1	NM_005654.6
NR4A2	NM_006186.4
NRAS	NM_002524.5
NRCAM	NM_001037132.4
NRROS	NM_198565.3
NRXN1	NM_001135659.3
NRXN2	NM_138732.3
NSD1	NM_022455.5
NSD2	NM_001042424.3
NSDHL	NM_015922.3
NSRP1	NM_032141.4
NSUN2	NM_017755.6
NT5C2	NM_001351169.2
NTNG1	NM_014917.4
NTNG2	NM_032536.4
NTRK1	NM_002529.4
NTRK2	NM_006180.6
NUBPL	NM_025152.3
NUDT2	NM_001161.5
NUP107	NM_020401.4
NUP188	NM_015354.3
NUP214	NM_005085.4
NUS1	NM_138459.5
OCLN	NM_002538.4
OCRL	NM_000276.4
ODC1	NM_002539.3
OFD1	NM_003611.3
OGDH	NM_002541.4

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OGDHL	NM_018245.3
OGT	NM_181672.3
OPHN1	NM_002547.3
ORC1	NM_004153.4
OSGEP	NM_017807.4
OTC	NM_000531.6
OTUD5	NM_001136157.2
OTUD6B	NM_016023.5
OTX2	NM_172337.3
OXR1	NM_001198534.1
OXTR	NM_000916.4
P4HTM	NM_177938.2
PABPC1	NM_002568.4
PACS1	NM_018026.4
PACS2	NM_001100913.3
PAFAH1B1	NM_000430.4
PAH	NM_000277.3
PAK1	NM_002576.5
PAK3	NM_002578.5
PAN2	NM_014871.6
PANK2	NM_001386393.1
PARN	NM_002582.4
PARP6	NM_001323532.2
PARS2	NM_152268.4
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	NM_016580.4
PCDH19	NM_001184880.2
PCDHGC4	NM_018928.3
PCGF2	NM_007144.3
PCLO	NM_033026.6
PCNT	NM_006031.6
PCYT2	NM_002861.5
PDE2A	NM_002599.5
PDE4D	NM_001104631.2
PDE6D	NM_002601.4
PDGFRB	NM_002609.4
PDHA1	NM_000284.4
PDHX	NM_003477.3

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PDSS2	NM_020381.4
PDZD8	NM_173791.5
PEPD	NM_000285.4
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	NM_024989.4
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	NM_058004.4
PIBF1	NM_006346.4
PIDD1	NM_145886.4
PIEZO2	NM_022068.4
PIGA	NM_002641.4
PIGB	NM_004855.5
PIGC	NM_153747.2
PIGG	NM_001127178.3
PIGH	NM_004569.5
PIGK	NM_005482.3
PIGL	NM_004278.4
PIGN	NM_176787.5
PIGO	NM_032634.4
PIGP	NM_153682.3
PIGQ	NM_004204.5
PIGS	NM_033198.4
PIGT	NM_015937.6

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PIGU	NM_080476.5
PIGV	NM_017837.4
PIGW	NM_001346754.2
PIGY	NM_001042616.3
PIK3CA	NM_006218.4
PIK3R1	NM_181523.3
PIK3R2	NM_005027.4
PIP5K1C	NM_012398.3
PISD	NM_001326411.2
PITRM1	NM_014889.4
PLA2G6	NM_003560.4
PLAA	NM_001031689.3
PLAAT3	NM_007069.3
PLCB1	NM_015192.4
PLCH1	NM_014996.4
PLEKHG2	NM_022835.3
PLK4	NM_014264.5
PLP1	NM_000533.5
PLPBP	NM_007198.4
PLXNA1	NM_032242.3
PLXNA3	NM_017514.5
PMM2	NM_000303.3
PMPCA	NM_015160.3
PMPCB	NM_004279.3
PNKP	NM_007254.4
PNPLA6	NM_006702.5
PNPO	NM_018129.4
PNPT1	NM_033109.5
POGZ	NM_015100.4
POLA1	NM_001330360.2
POLG	NM_002693.3
POLR1A	NM_015425.6
POLR1C	NM_203290.4
POLR2A	NM_000937.5
POLR3A	NM_007055.4
POLR3B	NM_018082.6
POLRMT	NM_005035.4
POMGNT1	NM_017739.4
POMGNT2	NM_032806.6
POMK	NM_032237.5
POMT1	NM_007171.4
POMT2	NM_013382.7
POR	NM_000941.3

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PORCN	NM_203475.3
POU1F1	NM_000306.4
POU3F2	NM_005604.4
POU3F3	NM_006236.3
POU4F1	NM_006237.4
PPFIA3	NM_003660.4
PPFIBP1	NM_001198915.2
PPM1D	NM_003620.4
PPP1CB	NM_206876.2
PPP1R12A	NM_002480.3
PPP1R15B	NM_032833.5
PPP1R21	NM_001135629.3
PPP2CA	NM_002715.4
PPP2R1A	NM_014225.6
PPP2R5D	NM_006245.4
PPP3CA	NM_000944.5
PPT1	NM_000310.4
PQBP1	NM_005710.2
PRDM13	NM_021620.4
PRDM15	NM_001040424.3
PREPL	NM_001171613.2
PRICKLE1	NM_153026.3
PRICKLE2	NM_198859.4
PRKACB	NM_182948.4
PRKAR1B	NM_001164760.2
PRKCG	NM_002739.5
PRKRA	NM_003690.5
PRMT7	NM_019023.5
PRODH	NM_016335.6
PROK2	NM_001126128.2
PROKR2	NM_144773.4
PRORP	NM_014672.4
PROSER1	NM_025138.5
PRPF8	NM_006445.4
PRPS1	NM_002764.4
PRR12	NM_020719.3
PRRT2	NM_145239.3
PRSS12	NM_003619.4
PRUNE1	NM_021222.3
PSAP	NM_002778.4
PSMC3	NM_002804.5
PSMD11	NM_002815.4
PSMD12	NM_002816.5

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PSPH	NM_004577.4
PTCH1	NM_000264.5
PTCHD1	NM_173495.3
PTDSS1	NM_014754.3
PTEN	NM_000314.8
PTPA	NM_178000.3
PTPN11	NM_002834.5
PTPN23	NM_015466.4
PTRH2	NM_016077.5
PTRHD1	NM_001013663.2
PTS	NM_000317.3
PUF60	NM_078480.3
PUM1	NM_001020658.2
PURA	NM_005859.5
PUS1	NM_025215.6
PUS3	NM_031307.4
PUS7	NM_019042.5
PYCR1	NM_006907.4
PYCR2	NM_013328.4
QARS1	NM_005051.3
QRICH1	NM_017730.4
RAB11A	NM_004663.5
RAB11B	NM_004218.4
RAB18	NM_021252.5
RAB23	NM_183227.3
RAB27A	NM_183235.3
RAB39B	NM_171998.4
RAB3GAP1	NM_012233.3
RAB3GAP2	NM_012414.4
RABGAP1	NM_012197.4
RABL6	NM_024718.5
RAC1	NM_006908.5
RAC3	NM_005052.3
RAD21	NM_006265.3
RAF1	NM_002880.4
RAI1	NM_030665.4
RALA	NM_005402.4
RALGAPA1	NM_014990.3
RAP1B	NM_015646.6
RAP1GDS1	NM_001100427.2
RARB	NM_000965.5
RARS1	NM_002887.4
RARS2	NM_020320.5

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RASA1	NM_002890.3
RBBP8	NM_002894.3
RBL2	NM_005611.4
RBM10	NM_005676.5
RBM28	NM_018077.3
RBPJ	NM_015874.6
RCBTB1	NM_018191.4
RELN	NM_005045.4
RERE	NM_012102.4
RFT1	NM_052859.4
RFX3	NM_001282116.2
RFX4	NM_213594.3
RFX7	NM_022841.7
RGS6	NM_001204424.2
RHOBTB2	NM_015178.3
RIC1	NM_020829.4
RIMS1	NM_014989.7
RIMS2	NM_014677.5
RIT1	NM_006912.6
RLIM	NM_183353.3
RMND1	NM_017909.4
RNASEH2A	NM_006397.3
RNASEH2B	NM_024570.4
RNASEH2C	NM_032193.4
RNASET2	NM_003730.6
RNF113A	NM_006978.3
RNF125	NM_017831.4
RNF13	NM_183381.3
RNF135	NM_032322.4
RNF220	NM_018150.4
RNFT2	NM_001382266.1
RNH1	NM_203387.3
RNPC3	NM_017619.4
ROBO1	NM_002941.4
ROGDI	NM_024589.3
RORA	NM_134261.3
RPGRIP1L	NM_015272.5
RPL10	NM_006013.5
RPS6KA3	NM_004586.3
RRAGC	NM_022157.4
RRAS	NM_006270.5
RRAS2	NM_012250.6
RRM2B	NM_015713.5

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RSPRY1	NM_133368.3
RSRC1	NM_001271838.2
RTEL1	NM_032957.5
RTN4IP1	NM_032730.5
RTTN	NM_173630.4
RUSC2	NM_014806.5
SALL1	NM_002968.3
SAMD9	NM_017654.4
SAMHD1	NM_015474.4
SARS1	NM_006513.4
SASS6	NM_194292.3
SATB1	NM_001195470.3
SATB2	NM_015265.4
SBDS	NM_016038.4
SC5D	NM_006918.5
SCAF4	NM_020706.2
SCAMP5	NM_138967.4
SCAPER	NM_020843.4
SCARB2	NM_005506.4
SCN10A	NM_006514.4
SCN1A	NM_001165963.4
SCN1B	NM_001037.5
SCN2A	NM_021007.3
SCN3A	NM_006922.4
SCN8A	NM_014191.4
SCO2	NM_005138.3
SCUBE3	NM_001303136.2
SCYL1	NM_020680.4
SCYL2	NM_017988.6
SDCCAG8	NM_006642.5
SDHA	NM_004168.4
SDHAF1	NM_001042631.3
SDHB	NM_003000.3
SDHD	NM_003002.4
SEMA5A	NM_003966.3
SEMA6B	NM_032108.4
SEPHS1	NM_012247.5
SEPSECS	NM_016955.4
SERAC1	NM_032861.4
SET	NM_001122821.2
SETBP1	NM_015559.3
SETD1A	NM_014712.3
SETD1B	NM_001353345.2

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SETD2	NM_014159.7
SETD5	NM_001080517.3
SFXN4	NM_213649.2
SGPL1	NM_003901.4
SGSH	NM_000199.5
SHANK1	NM_016148.5
SHANK2	NM_012309.5
SHANK3	NM_001372044.2
SHH	NM_000193.4
SHMT2	NM_005412.6
SHOC2	NM_007373.4
SHQ1	NM_018130.3
SIAH1	NM_003031.4
SIK1	NM_173354.5
SIL1	NM_022464.5
SIN3A	NM_001145358.2
SIN3B	NM_015260.4
SIX3	NM_005413.4
SKI	NM_003036.4
SKIC3	NM_014639.4
SLC12A2	NM_001046.3
SLC12A5	NM_020708.5
SLC12A6	NM_001365088.1
SLC13A5	NM_177550.5
SLC16A2	NM_006517.5
SLC17A5	NM_012434.5
SLC18A2	NM_003054.6
SLC1A1	NM_004170.6
SLC1A2	NM_004171.4
SLC1A4	NM_003038.5
SLC25A1	NM_005984.5
SLC25A12	NM_003705.5
SLC25A13	NM_014251.3
SLC25A15	NM_014252.4
SLC25A19	NM_001126121.2
SLC25A22	NM_024698.6
SLC25A42	NM_178526.5
SLC2A1	NM_006516.4
SLC30A7	NM_133496.5
SLC30A9	NM_006345.4
SLC32A1	NM_080552.3
SLC33A1	NM_004733.4
SLC35A2	NM_001042498.3

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SLC35A3	NM_012243.3
SLC35B2	NM_178148.4
SLC35C1	NM_018389.5
SLC38A3	NM_006841.6
SLC39A8	NM_001135146.2
SLC44A1	NM_080546.5
SLC45A1	NM_001080397.3
SLC46A1	NM_080669.6
SLC4A4	NM_003759.4
SLC5A7	NM_021815.5
SLC6A1	NM_003042.4
SLC6A17	NM_001010898.4
SLC6A19	NM_001003841.3
SLC6A3	NM_001044.5
SLC6A4	NM_001045.6
SLC6A8	NM_005629.4
SLC6A9	NM_001024845.3
SLC9A6	NM_006359.3
SLC9A7	NM_001257291.2
SLF2	NM_018121.4
SLITRK2	NM_032539.5
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	NM_003076.5
SMARCE1	NM_003079.5
SMC1A	NM_006306.4
SMC3	NM_005445.4
SMC5	NM_015110.4
SMG8	NM_018149.7
SMG9	NM_019108.4
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	NM_004782.4
SNAPC4	NM_003086.4

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SNF8	NM_007241.4
SNIP1	NM_024700.4
SNRPB	NM_003091.4
SNX14	NM_153816.6
SNX27	NM_001330723.2
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	NM_003107.3
SOX5	NM_006940.6
SOX6	NM_033326.3
SPART	NM_015087.5
SPECC1L	NM_015330.6
SPEN	NM_015001.3
SPG11	NM_025137.4
SPOP	NM_001007228.2
SPR	NM_003124.5
SPRED1	NM_152594.3
SPRED2	NM_181784.3
SPTAN1	NM_001130438.3
SPTBN1	NM_003128.3
SPTBN2	NM_006946.4
SPTBN4	NM_020971.3
SQSTM1	NM_003900.5
SRCAP	NM_006662.3
SRD5A3	NM_024592.5
SRGAP3	NM_014850.4
SRP54	NM_003136.4
SRRM2	NM_016333.4
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	NM_022101.4
STIL	NM_003035.2
STIM1	NM_001382567.1

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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	NM_016169.4
SUOX	NM_001032386.2
SUPT16H	NM_007192.4
SUPV3L1	NM_003171.5
SURF1	NM_003172.4
SUZ12	NM_015355.4
SVBP	NM_199342.4
SYN1	NM_133499.2
SYNCRIP	NM_006372.5
SYNE1	NM_033071.4
SYNGAP1	NM_006772.3
SYNJ1	NM_003895.3
SYP	NM_003179.3
SYT1	NM_005639.3
SZT2	NM_015284.4
TAB2	NM_015093.6
TACO1	NM_016360.4
TAF1	NM_004606.5
TAF13	NM_005645.4
TAF2	NM_003184.4
TAF4	NM_003185.4
TAF6	NM_139315.3
TAF8	NM_138572.3
TANC2	NM_001394998.1
TANGO2	NM_152906.7
TAOK1	NM_020791.4
TAOK2	NM_016151.4
TARS2	NM_025150.5
TASP1	NM_017714.3
TAT	NM_000353.3
TBC1D20	NM_144628.4
TBC1D23	NM_001199198.3
TBC1D24	NM_001199107.2
TBC1D2B	NM_144572.2

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TBC1D7	NM_016495.6
TBCD	NM_005993.5
TBCE	NM_003193.5
TBCK	NM_001163435.3
TBL1XR1	NM_024665.7
TBR1	NM_006593.4
TBX1	NM_080647.1
TBX2	NM_005994.4
TBX3	NM_005996.4
TCEAL1	NM_004780.3
TCF12	NM_207037.2
TCF20	NM_005650.4
TCF4	NM_001083962.2
TCF7L2	NM_001367943.1
TCTN2	NM_024809.5
TDP2	NM_016614.3
TECPR2	NM_014844.5
TECR	NM_138501.6
TELO2	NM_016111.4
TET2	NM_001127208.3
TET3	NM_001287491.2
TFE3	NM_006521.6
TGIF1	NM_003244.4
TH	NM_000360.4
THG1L	NM_017872.5
THOC2	NM_001081550.2
THOC6	NM_024339.5
THRA	NM_199334.5
THRB	NM_001354712.2
THUMPD1	NM_017736.5
TIAM1	NM_001353694.2
TIMM50	NM_001001563.5
TIMM8A	NM_004085.4
TIMMDC1	NM_016589.4
TKFC	NM_015533.4
TKT	NM_001135055.3
TLK2	NM_006852.6
TM4SF20	NM_024795.4
TMCO1	NM_019026.6
TMEM106B	NM_001134232.2
TMEM107	NM_032354.5
TMEM147	NM_032635.4
TMEM163	NM_030923.5

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TMEM165	NM_018475.5
TMEM216	NM_001173990.3
TMEM218	NM_001258244.2
TMEM222	NM_032125.3
TMEM231	NM_001077416.2
TMEM237	NM_001044385.3
TMEM240	NM_001114748.2
TMEM63A	NM_014698.3
TMEM63B	NM_018426.3
TMEM63C	NM_020431.4
TMEM67	NM_153704.6
TMEM70	NM_017866.6
TMEM94	NM_014738.6
TMLHE	NM_018196.4
TMTC3	NM_181783.4
TMX2	NM_015959.4
TNIK	NM_015028.4
TNK2	NM_001010938.2
TNPO2	NM_001136196.2
TNR	NM_003285.3
TNRC6B	NM_001162501.2
TOE1	NM_025077.4
TOGARAM1	NM_001308120.2
TOP3A	NM_004618.5
TOR1A	NM_000113.3
TOR1AIP1	NM_001267578.2
TP53RK	NM_033550.4
TP73	NM_005427.4
TPI1	NM_000365.6
TPK1	NM_022445.4
TPP1	NM_000391.4
TPP2	NM_001330588.2
TPRKB	NM_016058.5
TRA2B	NM_004593.3
TRAF7	NM_032271.3
TRAIP	NM_005879.3
TRAK1	NM_001042646.3
TRAPPC10	NM_003274.5
TRAPPC11	NM_021942.6
TRAPPC12	NM_016030.6
TRAPPC2L	NM_001318525.2
TRAPPC4	NM_016146.6
TRAPPC6B	NM_001079537.2

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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	NM_017646.6
TRMT1	NM_001136035.4
TRMT10A	NM_152292.5
TRMT5	NM_020810.3
TRNT1	NM_182916.3
TRPC5	NM_012471.3
TRPM3	NM_001366145.2
TRRAP	NM_003496.4
TSC1	NM_000368.5
TSC2	NM_000548.5
TSEN15	NM_052965.4
TSEN2	NM_025265.4
TSEN54	NM_207346.3
TSFM	NM_001172696.2
TSPAN7	NM_004615.4
TSPDAP1	NM_004758.4
TTC5	NM_138376.3
TTC8	NM_198309.3
TTI1	NM_001303457.2
TTI2	NM_001102401.4
TUBA1A	NM_006009.4
TUBB	NM_178014.4
TUBB2A	NM_001069.3
TUBB2B	NM_178012.5
TUBB3	NM_006086.4
TUBB4A	NM_006087.4
TUBG1	NM_001070.5
TUBGCP2	NM_001256617.2
TUBGCP4	NM_014444.5
TUBGCP6	NM_020461.4
TUSC3	NM_006765.4
TWIST1	NM_000474.4
TWIST2	NM_057179.3
TWINK	NM_021830.5
UBA2	NM_005499.3
UBA5	NM_024818.6
UBAP2L	NM_014847.4

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UBE2A	NM_003336.4
UBE3A	NM_130838.4
UBE3B	NM_130466.4
UBE3C	NM_014671.3
UBE4A	NM_004788.4
UBR1	NM_174916.3
UBR5	NM_015902.6
UBR7	NM_175748.4
UBTF	NM_014233.4
UFC1	NM_016406.4
UFM1	NM_016617.4
UFSP2	NM_018359.5
UGDH	NM_003359.4
UGP2	NM_006759.4
UNC45A	NM_018671.5
UNC79	NM_001395159.1
UNC80	NM_001371986.1
UPB1	NM_016327.3
UPF3B	NM_080632.3
UQCC2	NM_032340.4
UQCRFS1	NM_006003.3
UROC1	NM_144639.3
USP27X	NM_001145073.3
USP7	NM_003470.3
USP9X	NM_001039590.3
VAC14	NM_018052.5
VAMP2	NM_014232.3
VARS1	NM_006295.3
VARS2	NM_020442.6
VCP	NM_007126.5
VLDLR	NM_003383.5
VPS11	NM_021729.6
VPS13B	NM_017890.5
VPS13D	NM_015378.4
VPS16	NM_022575.4
VPS35L	NM_020314.7
VPS37A	NM_152415.3
VPS41	NM_014396.4
VPS4A	NM_013245.3
VPS53	NM_001128159.3
VRK1	NM_003384.3
WAC	NM_016628.5
WARS1	NM_004184.4

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WARS2	NM_015836.4
WASF1	NM_003931.3
WASHC4	NM_015275.3
WASHC5	NM_014846.4
WBP4	NM_007187.5
WDFY3	NM_014991.6
WDPCP	NM_015910.7
WDR11	NM_018117.12
WDR26	NM_001379403.1
WDR37	NM_014023.4
WDR4	NM_018669.6
WDR45	NM_007075.4
WDR45B	NM_019613.4
WDR5	NM_017588.3
WDR62	NM_001083961.2
WDR73	NM_032856.5
WDR81	NM_001163809.2
WIP1	NM_015610.4
WNK3	NM_020922.5
WNT1	NM_005430.4
WWOX	NM_016373.4
XPA	NM_000380.4
XRCC4	NM_022406.5
XYLT1	NM_022166.4
YAP1	NM_001130145.3
YARS1	NM_003680.4
YIF1B	NM_001039672.3
YIPF5	NM_001024947.4
YWHAE	NM_006761.5
YWHAG	NM_012479.4
YY1	NM_003403.5
ZBTB11	NM_014415.4
ZBTB18	NM_205768.3
ZBTB20	NM_001164342.2
ZBTB24	NM_014797.3
ZBTB7A	NM_015898.4
ZC3H14	NM_024824.5
ZC4H2	NM_018684.4
ZDHC15	NM_144969.3
ZDHC9	NM_016032.4
ZEB2	NM_014795.4
ZFX3	NM_006885.4
ZFX4	NM_024721.5

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ZFX	NM_003410.4
ZFYVE26	NM_015346.4
ZIC1	NM_003412.4
ZIC2	NM_007129.5
ZMIZ1	NM_020338.4
ZMYM2	NM_003453.6
ZMYM3	NM_201599.3
ZMYND11	NM_006624.7
ZMYND8	NM_001281775.3
ZNF142	NM_001379659.1
ZNF148	NM_021964.3
ZNF292	NM_015021.3
ZNF335	NM_022095.4
ZNF407	NM_017757.3
ZNF462	NM_021224.6
ZNF526	NM_133444.3
ZNF699	NM_198535.3
ZNF711	NM_021998.5
ZNF81	NM_007137.5
ZNHIT3	NM_004773.4
ZNRF3	NM_001206998.2
ZSWIM6	NM_020928.2