

 LILLE INTEGRATED GENOMIC ADVANCED NETWORK	List of genes for diagnosis	LIGAN/R4-EN-10 V1
		2020-12-18

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Gene	Transcript
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A2ML1	NM_144670.6
ABCC9	NM_005691.4
ACAD9	NM_014049.5
ACAN	NM_013227.4
ACAT1	NM_000019.4
ACSL4	NM_004458.3
ACTB	NM_001101.5
ACTG1	NM_001614.5
ACTL6B	NM_016188.5
ACY1	NM_000666.3
ADA	NM_000022.4
ADARB1	NM_015833.4
ADNP	NM_015339.5
ADPRS	NM_017825.3
ADSL	NM_000026.4
AFF2	NM_002025.4
AFF4	NM_014423.4
AGA	NM_000027.4
AGO1	NM_012199.5
AHDC1	NM_001029882.3
AHI1	NM_017651.5
ALDH18A1	NM_002860.4
ALDH3A2	NM_000382.3
ALDH5A1	NM_001080.3
ALDH7A1	NM_001182.5
ALDOB	NM_000035.4
ALG1	NM_019109.5
ALG12	NM_024105.4
ALG13	NM_001099922.3
ALG3	NM_005787.6
ALG6	NM_013339.4
ALKBH8	NM_001301010.3
ALMS1	NM_001378454.1
AMT	NM_000481.4
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
ANOS1	NM_000216.4
AP1G1	NM_001030007.2

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Gene	Transcript
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AP1S2	NM_003916.5
AP2M1	NM_004068.4
AP4B1	NM_006594.5
AP4E1	NM_007347.5
AP4M1	NM_004722.4
AP4S1	NM_007077.5
APC2	NM_005883.3
APTX	NM_175073.3
ARFGEF2	NM_006420.3
ARHGEF6	NM_004840.3
ARHGEF9	NM_015185.3
ARID1A	NM_006015.6
ARID1B	NM_001374820.1
ARIH1	NM_005744.5
ARL6	NM_177976.3
ARSA	NM_000487.6
ARX	NM_139058.3
ASAH1	NM_177924.5
ASH1L	NM_018489.3
ASL	NM_000048.4
ASPA	NM_000049.4
ASPM	NM_018136.5
ASS1	NM_000050.4
ASXL1	NM_015338.6
ASXL3	NM_030632.3
ATIC	NM_004044.7
ATP1A1	NM_000701.8
ATP2B1	
ATP6AP2	NM_005765.3
ATP7A	NM_000052.7
ATP7B	NM_000053.4
ATR	NM_001184.4
ATRX	NM_000489.6
AUTS2	NM_015570.4
B3GLCT	NM_194318.4
BAP1	
BBIP1	NM_001195306.2
BBS1	NM_024649.5
BBS10	NM_024685.4
BBS12	NM_152618.3
BBS2	NM_031885.5
BBS4	NM_033028.5
BBS5	NM_152384.3

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Gene	Transcript
BBS7	NM_176824.3
BBS9	NM_198428.3
BCAS3	NM_001099432.3
BCKDHA	NM_000709.4
BCKDHB	NM_183050.4
BCKDK	NM_005881.4
BCL11A	NM_022893.4
BCOR	NM_017745.6
BLM	NM_000057.4
BRAF	NM_004333.6
BRD3	NM_007371.4
BRPF1	NM_001003694.2
BRWD1	NM_018963.5
BRWD3	NM_153252.5
BTB	NM_001370658.1
BTF3	NM_001037637.2
C12orf57	NM_138425.4
CA8	NM_004056.6
CACNA1C	NM_000719.7
CACNA1D	NM_000720.4
CACNA1E	NM_000721.4
CACNA1F	NM_005183.4
CACNA1G	NM_018896.5
CACNG2	NM_006078.5
CAMK2A	NM_015981.4
CAMTA1	NM_015215.4
CASK	NM_003688.3
CASR	NM_000388.4
CBL	NM_005188.4
CBS	NM_000071.3
CC2D1A	NM_017721.5
CCDC22	NM_014008.5
CCDC47	NM_020198.3
CDH10	NM_006727.5
CDH15	NM_004933.3
CDH2	NM_001792.5
CDH9	NM_016279.4
CDK13	NM_003718.5
CDK19	NM_001300960.2
CDK5RAP2	NM_018249.6
CDK6	NM_001259.8
CDK8	NM_001260.3
CDKL5	NM_003159.3

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Gene	Transcript
CENPJ	NM_018451.5
CEP152	NM_014985.4
CEP19	NM_032898.5
CEP290	NM_025114.4
CERT1	NM_001130105.1
CHAMP1	NM_001164144.3
CHD2	NM_001271.4
CHD4	NM_001273.5
CHD5	NM_015557.3
CHD7	NM_017780.4
CHD8	NM_001170629.2
CHRNA2	NM_000742.4
CHRNA4	NM_000744.7
CHRNA7	NM_000746.6
CHRNA2	NM_000748.3
CLCN2	NM_004366.6
CLCN3	NM_173872.4
CLCN4	NM_001830.4
CLCN6	NM_001286.5
CLIC2	NM_001289.6
CLN3	NM_001042432.2
CLN5	NM_006493.4
CLN6	NM_017882.3
CLN8	NM_018941.4
CLTC	NM_001288653.2
CNKS2	NM_014927.5
CNOT1	NM_001265612.2
CNOT3	NM_014516.4
CNTN4	NM_175607.3
CNTNAP2	NM_014141.6
COQ8A	NM_020247.5
CPA6	NM_020361.5
CPE	NM_001873.4
CPS1	NM_001875.5
CPSF3	NM_016207.4
CRBN	NM_016302.4
CREBBP	NM_004380.3
CSDE1	NM_001130523.3
CSNK2A1	NM_001895.4
CSTB	NM_000100.4
CTCF	NM_006565.4
CTNNB1	NM_001904.4
CTSF	NM_003793.4

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Gene	Transcript
CUL3	NM_003590.5
CUL4B	NM_003588.4
CUX2	NM_015267.4
CYFIP1	NM_014608.6
CYP27A1	NM_000784.4
CYP2U1	NM_183075.3
D2HGDH	NM_152783.5
DBT	NM_001918.5
DCX	NM_178153.3
DDB1	NM_001923.5
DDHD2	NM_015214.3
DDX3X	NM_001193416.3
DDX6	NM_004397.6
DEAF1	NM_021008.4
DEPDC5	NM_001242896.3
DHCR24	NM_014762.4
DHCR7	NM_001360.3
DIP2B	NM_173602.3
DISC1	NM_018662.3
DKC1	NM_001363.5
DLG2	NM_001142699.3
DLG3	NM_021120.4
DLL1	NM_005618.4
DMD	NM_004006.3
DNM1	NM_004408.4
DNM1L	NM_012062.5
DNM3	NM_015569.5
DNMT3A	NM_175629.2
DNMT3B	NM_006892.4
DOCK6	NM_020812.4
DPAGT1	NM_001382.4
DPM1	NM_003859.3
DPP6	NM_001936.5
DPYD	NM_000110.4
DPYSL5	NM_020134.4
DSCAM	NM_001389.5
DYNC1H1	NM_001376.5
DYNC1I2	NM_001378.3
DYRK1A	NM_001396.5
EBF3	NM_001005463.3
EEF1A2	NM_001958.5
EFTUD2	NM_004247.4
EHMT1	NM_024757.5

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Gene	Transcript
EIF2S3	NM_001415.4
EIF4E	NM_001130679.3
ELP2	NM_001242875.3
EMC1	NM_015047.3
EN2	NM_001427.4
EP300	NM_001429.4
EPB41L1	NM_012156.2
EPM2A	NM_005670.4
ERLIN2	NM_007175.8
FBN3	NM_032447.5
FBXO11	NM_001190274.2
FBXW7	
FBXW11	NM_012300.3
FGD1	NM_004463.3
FGFR1	NM_023110.3
FLNA	NM_001456.4
FMR1	NM_002024.6
FOLR1	NM_016725.3
FOXG1	NM_005249.5
FOXP1	NM_032682.6
FOXP2	NM_014491.4
FOXP4	NM_001012426.2
FRMPD4	NM_014728.3
FTCD	NM_006657.3
FTSJ1	NM_012280.4
FUCA1	NM_000147.5
GABBR2	NM_005458.8
GABRA1	NM_000806.5
GABRB2	NM_021911.3
GABRB3	NM_000814.6
GABRD	NM_000815.5
GABRG2	NM_000816.3
GALT	NM_000155.4
GAMT	NM_000156.6
GAP43	NM_001130064.2
GATAD2B	NM_020699.4
GATM	NM_001482.3
GBA	NM_001005741.3
GCDH	NM_000159.4
GCH1	NM_000161.3
GCSH	NM_004483.5
GDI1	NM_001493.3
GFPT2	NM_005110.4

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GHR	NM_000163.5
GK	NM_000167.6
GLDC	NM_000170.3
GNAI1	NM_002069.6
GNAO1	NM_020988.3
GOSR2	NM_004287.5
GPC3	NM_004484.4
GPRASP1	NM_001099411.2
GRIA1	NM_001114183.2
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
GRIP1	NM_021150.4
GUSB	NM_000181.4
H3-3A	NM_002107.7
H3-3B	NM_005324.5
HAL	NM_002108.4
HCCS	NM_005333.5
HCFC1	NM_005334.3
HCN1	NM_021072.4
HCN2	NM_001194.4
HDAC4	NM_006037.4
HDAC8	NM_018486.3
HEPACAM	NM_152722.5
HEXA	NM_000520.6
HGSNAT	NM_152419.3
HIST1H4C	
HIST1H4D	
HIST1H4E	
HIST1H4F	
HIST1H4I	
HIST1H4J	
HIVEP2	NM_006734.4
HMGA2	NM_003483.6
HNRNPU	NM_031844.3
HOXA1	NM_005522.5
HPDL	NM_032756.3
HPRT1	NM_000194.3
HRAS	NM_005343.4

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Gene	Transcript
HS2ST1	NM_012262.4
HSD17B10	NM_004493.3
HUWE1	NM_031407.7
IDS	NM_000202.8
IDUA	NM_000203.5
IFT172	NM_015662.3
IFT27	NM_006860.5
IGBP1	NM_001551.3
IGF1	NM_000618.5
IGF1R	NM_000875.5
IKBK	NM_001099857.5
IL1RAPL1	NM_014271.4
INPP5E	NM_019892.6
IQSEC1	NM_014869.8
IQSEC2	NM_001111125.3
IPO8	NM_006390.4
ITPR1	NM_002222.7
IVD	NM_002225.5
KANSL1	NM_001193466.2
KANSL2	NM_017822.4
KAT5	NM_006388.4
KAT6A	NM_006766.5
KAT6B	NM_012330.4
KAT8	NM_182958.4
KATNAL2	NM_031303.3
KCNA1	NM_000217.3
KCNB1	NM_004975.4
KCNC1	NM_001112741.2
KCNH1	NM_172362.3
KCNJ10	NM_002241.5
KCNJ6	NM_002240.5
KCNK9	NM_001282534.2
KCNMA1	NM_002247.4
KCNN3	NM_002249.6
KCNQ2	NM_172107.4
KCNQ3	NM_004519.4
KCNT1	NM_020822.3
KCTD13	NM_178863.5
KCTD7	NM_153033.5
KDM3B	NM_016604.4
KDM4B	NM_015015.3
KDM5A	NM_001042603.3
KDM5B	NM_006618.5

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Gene	Transcript
KDM5C	NM_004187.5
KDM6A	NM_021140.4
KIDINS220	NM_020738.4
KIF11	NM_004523.4
KIF1A	NM_004321.8
KIRREL3	NM_032531.4
KLF8	NM_007250.5
KLHL15	NM_030624.3
KMT2A	NM_001197104.2
KMT2C	NM_170606.3
KMT2D	NM_003482.4
KMT2E	NM_182931.3
KMT5B	NM_017635.5
KRAS	NM_004985.5
L1CAM	NM_000425.5
LAMC3	NM_006059.4
LAMP2	NM_002294.3
LAS1L	NM_031206.7
LGI1	NM_005097.4
LIMK1	NM_002314.4
LMNB1	NM_005573.4
LRP2	NM_004525.3
LRRC43	NM_001098519.2
LZTFL1	NM_020347.4
LZTR1	NM_006767.4
MAGEL2	NM_019066.5
MAGI2	NM_012301.4
MAN1B1	NM_016219.5
MAN2B1	NM_000528.4
MANBA	NM_005908.4
MAOA	NM_000240.4
MAP2K1	NM_002755.4
MAP2K2	NM_030662.4
MAPK1	NM_002745.5
MAPK8IP3	NM_001040439.2
MAPKAPK5	NM_003668.4
MAST1	NM_014975.3
MBD5	NM_018328.5
MBOAT7	NM_024298.5
MBTPS2	NM_015884.4
MCPH1	NM_024596.5
MECP2	NM_004992.4
MED12	NM_005120.3

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MED13L	NM_015335.5
MED17	NM_004268.5
MED23	NM_015979.4
MEF2C	NM_002397.5
MEGF8	NM_001410.3
MEIS2	NM_170674.5
MET	NM_001127500.3
METTL5	NM_014168.4
MFSD8	NM_152778.3
MANF	NM_006010.6
MIB1	NM_020774.4
MID1	NM_000381.4
MKKS	NM_018848.3
MKS1	NM_017777.4
MMACHC	NM_015506.3
MMUT	NM_000255.4
MN1	NM_002430.3
MIA3	NM_198551.4
MPV17	NM_002437.5
MRAS	NM_012219.4
MSL3	NM_001282174.1
MTHFR	NM_005957.5
MTR	NM_000254.3
MYCN	NM_005378.6
NAA10	NM_003491.4
NAA15	NM_057175.5
NAGLU	NM_000263.4
NARS1	NM_004539.4
NCDN	NM_001014839.2
MYT1L	NM_015025.4
NDE1	NM_001143979.2
NDST1	NM_001543.5
NDUFA1	NM_004541.4
NDUFAF8	NM_001086521.2
NECAP1	NM_015509.4
NEDD4L	NM_015277.6
NEXMIF	NM_001008537.3
NF1	NM_000267.3
NFIB	NM_001190737.2
NFIX	NM_001271043.2
NGFR	NM_002507.4
NHLRC1	NM_198586.3
NHS	NM_198270.4

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Gene	Transcript
NIPBL	NM_133433.4
NKAP	NM_024528.4
NLGN3	NM_018977.4
NLGN4X	NM_020742.4
NPC1	NM_000271.5
NPC2	NM_006432.5
NPHP1	NM_000272.5
NRAS	NM_002524.5
NRCAM	
NRXN1	NM_001135659.3
NRXN2	NM_138732.3
NSD1	NM_022455.5
NSDHL	NM_015922.3
NSUN2	NM_017755.6
NTNG1	NM_014917.4
NTNG2	NM_032536.4
OCRL	NM_000276.4
OFD1	NM_003611.3
OPHN1	NM_002547.3
OTC	NM_000531.6
OXR1	NM_001198534.1
OXTR	NM_000916.4
P4HTM	NM_177938.2
PACS1	NM_018026.4
PACS2	NM_001100913.3
PAFAH1B1	NM_000430.4
PAH	NM_000277.3
PAK3	NM_002578.5
PAX5	NM_016734.3
PCCA	NM_000282.4
PCCB	NM_000532.5
PCDH19	NM_001184880.2
PDHA1	NM_000284.4
PDHX	NM_003477.3
PEX1	NM_000466.3
PEX12	NM_000286.3
PEX6	NM_000287.4
PEX7	NM_000288.4
PGAP2	NM_001256240.2
PGAP3	NM_033419.5
PGM2L1	NM_173582.6
PHF21A	NM_001101802.3
PHF6	NM_032458.3

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PHF8	NM_015107.3
PHGDH	NM_006623.4
PHIP	NM_017934.7
PIGA	NM_002641.4
PIGK	NM_005482.3
PIGN	NM_176787.5
PIGO	NM_032634.4
PIGV	NM_017837.4
PLCB1	NM_015192.4
PLP1	NM_000533.5
PMM2	NM_000303.3
PMPCB	NM_004279.3
PNKP	NM_007254.4
PNPO	NM_018129.4
POGZ	NM_015100.4
POLG	NM_002693.3
POLR2A	NM_000937.5
POMGNT1	NM_017739.4
PORCN	NM_203475.3
POU1F1	NM_000306.4
POU3F3	NM_006236.3
PPP1CB	NM_206876.2
PPP2CA	NM_002715.4
PPP2R5D	NM_006245.4
PPT1	NM_000310.4
PQBP1	NM_005710.2
PRDM13	NM_021620.4
PRICKLE1	NM_153026.3
PRKRA	NM_003690.5
PRMT7	NM_019023.5
PRODH	NM_016335.6
PROK2	NM_001126128.2
PROKR2	NM_144773.4
PRPS1	NM_002764.4
PRRT2	NM_145239.3
PRSS12	NM_003619.4
PSAP	NM_002778.4
PTCHD1	NM_173495.3
PTEN	NM_000314.8
PTPN11	NM_002834.5
PTS	NM_000317.3
PUF60	NM_078480.3
PURA	NM_005859.5

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Gene	Transcript
QARS1	NM_005051.3
QRICH1	NM_017730.4
RAB23	NM_183227.3
RAB39B	NM_171998.4
RAD21	NM_006265.3
RAF1	NM_002880.4
RAI1	NM_030665.4
RALGAPA1	NM_014990.3
RASA1	NM_002890.3
RBM10	NM_005676.5
RELN	NM_005045.4
RIMS2	NM_014677.5
RIT1	NM_006912.6
RLIM	NM_183353.3
RNF135	NM_032322.4
RORA	NM_134261.3
RPL10	NM_006013.5
RPS6KA3	NM_004586.3
RRAS	NM_006270.5
RRAS2	NM_012250.6
SATB1	NM_001195470.3
SATB2	NM_015265.4
SCAF4	NM_020706.2
SCARB2	NM_005506.4
SCN1A	NM_001165963.4
SCN1B	NM_001037.5
SCN2A	NM_021007.3
SCN8A	NM_014191.4
SCUBE3	NM_001303136.2
SDCCAG8	NM_006642.5
SEMA5A	NM_003966.3
SET	NM_001122821.2
SETBP1	NM_015559.3
SETD1A	NM_014712.3
SETD2	NM_014159.7
SETD5	NM_001080517.3
SGSH	NM_000199.5
SHANK1	NM_016148.5
SHANK2	NM_012309.5
SHANK3	NM_001372044.2
SHOC2	NM_007373.4
SIN3B	NM_015260.4
SKI	NM_003036.4

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SLC13A5	NM_177550.5
SLC16A2	NM_006517.5
SLC17A5	NM_012434.5
SLC1A1	NM_004170.6
SLC25A13	NM_014251.3
SLC25A15	NM_014252.4
SLC25A22	NM_024698.6
SLC2A1	NM_006516.4
SLC35A2	NM_001042498.3
SLC35A3	NM_012243.3
SLC35C1	NM_018389.5
SLC45A1	NM_001080397.3
SLC46A1	NM_080669.6
SLC6A1	NM_003042.4
SLC6A4	NM_001045.6
SLC6A8	NM_005629.4
SLC9A6	NM_006359.3
SMAD4	NM_005359.6
SMARCA2	NM_003070.5
SMARCA4	NM_001128849.3
SMARCA5	NM_003601.4
SMARCB1	NM_003073.5
SMARCC2	NM_003075.5
SMARCE1	NM_003079.5
SMC1A	NM_006306.4
SMC3	NM_005445.4
SMG8	NM_018149.7
SMO	NM_005631.5
SMPD4	NM_017951.4
SMS	NM_004595.5
SNAP25	NM_003081.5
SOBP	NM_018013.4
SON	NM_032195.3
SOS1	NM_005633.4
SOS2	NM_006939.4
SOX10	NM_006941.4
SOX11	NM_003108.4
SOX3	NM_005634.3
SOX5	NM_006940.6
SOX6	NM_033326.3
SPATA5L1	NM_024063.3
SPEN	NM_015001.3
SPRED1	NM_152594.3

 LILLE INTEGRATED GENOMIC ADVANCED NETWORK	List of genes for diagnosis	LIGAN/R4-EN-10 V1
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Gene	Transcript
SPTAN1	NM_001130438.3
SPTBN1	NM_001130438.3
SRCAP	NM_006662.3
SRD5A3	NM_024592.5
SRGAP3	NM_014850.4
ST3GAL3	NM_006279.5
ST3GAL5	NM_003896.4
STAG1	NM_005862.3
STAMBP	NM_006463.6
STIL	NM_003035.2
STX16	NM_001001433.3
STX1A	NM_004603.4
STX1B	NM_052874.5
STXBP1	NM_003165.6
SYN1	NM_133499.2
SYNE1	NM_033071.4
SYNGAP1	NM_006772.3
SYNJ1	NM_003895.3
SYP	NM_003179.3
SZT2	NM_015284.4
TAB2	NM_015093.6
TAF1	NM_004606.5
TAOK1	NM_020791.4
TAOK2	NM_016151.4
TBC1D24	NM_001199107.2
TBL1XR1	NM_024665.7
TBR1	NM_006593.4
TBX1	NM_080647.1
TBX3	NM_005996.4
TCF20	NM_005650.4
TCF4	NM_001083962.2
TECR	NM_138501.6
TET2	NM_001127208.3
THOC6	NM_024339.5
THRA	NM_199334.5
THUMPD1	
TIAM1	
TIMM8A	NM_004085.4
TLK2	NM_006852.6
TMEM94	NM_014738.6
TMLHE	NM_018196.4
TMX2	NM_015959.4
TNK2	NM_001010938.2

 LILLE INTEGRATED GENOMIC ADVANCED NETWORK	List of genes for diagnosis	LIGAN/R4-EN-10 V1
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Gene	Transcript
TNPO2	NM_001136196.2
TPP1	NM_000391.4
TRAF7	NM_032271.3
TRAPPC9	NM_031466.8
TRIM8	NM_030912.3
TRIM32	NM_012210.4
TRIO	NM_007118.4
TRIP12	NM_004238.3
TRPC5	NM_012471.3
TRRAP	NM_003496.4
TSC1	NM_000368.5
TSC2	NM_000548.5
TSPAN7	NM_004615.4
TTC8	NM_198309.3
TUBA1A	NM_006009.4
TUBB2B	NM_178012.5
TUBGCP2	NM_001256617.2
TUSC3	NM_006765.4
TWIST1	NM_000474.4
UBE2A	NM_003336.4
UBE3A	NM_130838.4
UBE3B	NM_130466.4
UBE4A	NM_004788.4
UBR1	NM_174916.3
UPB1	NM_016327.3
UPF3B	NM_080632.3
UQCRCF1	NM_006003.3
UROC1	NM_144639.3
USP27X	NM_001145073.3
USP9X	NM_001039590.3
VCP	NM_007126.5
VLDLR	NM_003383.5
VPS13B	NM_017890.5
VPS4A	NM_013245.3
WAC	NM_016628.5
WASF1	NM_003931.3
WDPCP	NM_015910.7
WDR37	NM_014023.4
WDR45	NM_007075.4
WDR45B	NM_019613.4
WDR62	NM_001083961.2
WNK3	NM_020922.5
WWOX	NM_016373.4

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Gene	Transcript
YAP1	NM_001130145.3
YWHAE	NM_006761.5
ZBTB18	NM_205768.3
ZBTB20	NM_001164342.2
ZC3H14	NM_024824.5
ZC4H2	NM_018684.4
ZDHHC15	NM_144969.3
ZDHHC9	NM_016032.4
ZEB2	NM_014795.4
ZFHX4	NM_024721.5
YIPF5	NM_001024947.4
ZMIZ1	NM_020338.4
ZMYM3	NM_201599.3
ZMYND11	NM_006624.7
ZNF292	NM_015021.3
ZNF526	NM_133444.3
ZNF711	NM_021998.5
ZNF81	NM_007137.5