

WES SHORT STATURE/SKELETAL DYSPLASIA DG 3.2

<i>Gene</i>	<i>Median coverage</i>	<i>% covered >10x</i>	<i>% covered >20x</i>	<i>OMIM disease ID</i>
ABCC9	145.1	100.0	99.8	239850
ACAN	125.7	96.9	92.5	612813;165800;608361
ACP5	178.1	99.9	98.9	607944
ACTB	80.2	99.9	97.2	243310
ACVR1	145.3	100.0	99.9	135100
ADAMTS10	125.9	100.0	99.9	277600
ADAMTS17	112.0	92.9	88.8	613195
ADAMTSL2	109.1	98.0	94.7	231050
AFF3	117.1	98.6	97.9	619297
AGA	159.9	100.0	99.9	208400
AGPS	73.9	98.8	95.2	600121
AIFM1	103.9	99.9	97.8	300232
ALG12	149.3	100.0	99.9	607143
ALG3	90.4	100.0	99.5	601110
ALG9	103.8	99.9	99.3	263210;608776
ALMS1	174.7	99.7	99.5	203800
ALPL	143.9	100.0	99.4	146300;241510;241500
ALX1	131.8	99.6	95.2	613456
ALX3	124.2	80.2	72.8	136760
ALX4	134.4	100.0	99.9	609597;613451
AMER1	96.7	99.6	96.6	300373
AMMECR1	86.2	99.9	98.4	300990
ANKH	108.8	100.0	99.9	123000;118600
ANKRD11	118.2	97.0	94.0	148050
ANO5	133.4	99.2	96.9	166260

ANTXR2	123.1	99.5	97.2	236490
APC2	103.6	98.3	94.8	617169
ARCN1	142.3	96.8	96.6	617164
ARHGAP31	143.3	99.7	98.2	100300
ARID1B	138.9	96.2	94.6	135900
ARSB	111.8	98.8	91.0	253200
ARSL	92.4	98.9	92.4	302950
ATP6V0A2	116.2	99.9	98.7	219200;278250
ATR	164.5	99.7	99.0	210600
B3GALT6	53.2	77.0	73.0	615349;271640
B3GAT3	115.0	99.4	96.6	245600
B4GALT7	124.9	99.7	96.8	130070
BGN	146.9	100.0	99.9	300106
BHLHA9	24.0	72.5	53.5	607539;609432;612576
BMP1	155.6	100.0	100.0	614856
BMP2	167.5	100.0	100.0	112600;617877
BMPER	129.9	100.0	99.6	608022
BMPR1B	151.0	99.9	99.9	616849;112600;609441
BRAF	63.9	89.4	77.6	613706
BRF1	113.6	99.8	98.4	616202
BTK	104.8	100.0	99.7	307200
BTRC	130.2	97.6	97.2	246560
CA2	149.6	100.0	100.0	259730
CANT1	145.3	100.0	100.0	251450
CASR	151.3	100.0	99.5	145980;239200
CBL	133.8	97.3	96.9	613563
CC2D2A	109.3	98.3	96.6	612284
CCDC134	129.2	100.0	100.0	-
CCDC8	179.9	100.0	100.0	614205
CCN6	93.2	84.6	84.6	208230

CCNQ	46.5	82.9	78.3	300707
CDC42	94.5	96.3	87.9	616737
CDC45	144.4	99.8	98.5	617063
CDC6	142.1	100.0	99.9	613805
CDC73	115.4	99.8	98.3	145001;610071;145000
CDKN1C	71.4	89.9	81.6	614732;130650
CDT1	119.1	99.7	97.8	613804
CENPE	71.9	96.7	90.0	616051
CEP120	140.6	99.9	99.6	616300;213300
CEP152	163.8	99.5	98.0	615807
CEP290	86.2	96.2	90.8	611134
CFAP410	129.3	100.0	99.6	602271
CHST11	189.5	100.0	100.0	618167
CHST14	149.1	99.9	98.8	601776
CHST3	127.4	100.0	99.9	143095
CHSY1	122.1	97.8	96.3	605282
CILK1	111.2	99.6	98.0	612651
CKAP2L	157.9	99.5	98.3	272440
CLCN5	115.4	99.7	97.1	300554;310468;308990;300009
CLCN7	143.3	99.4	97.8	166600;611490
COG1	109.3	100.0	99.9	611209
COG4	99.4	100.0	100.0	618150
COL10A1	116.0	100.0	99.6	156500
COL11A1	100.9	96.0	92.7	228520
COL11A2	126.7	100.0	99.6	614524
COL1A1	148.9	99.8	98.2	114000
COL1A2	99.7	98.7	95.7	225320
COL27A1	162.5	99.8	99.4	615155
COL2A1	122.0	100.0	99.8	200610
COL9A1	129.1	99.9	98.6	614135

COL9A2	105.0	99.9	98.9	614284
COL9A3	106.6	98.9	95.5	600969
COLEC11	169.1	100.0	100.0	265050
COMP	128.7	93.8	92.4	132400;177170
CPLANE1	129.6	99.4	98.2	277170
CREB3L1	138.5	100.0	99.9	616229
CREBBP	104.9	99.6	97.8	180849
CRIP1	43.7	98.9	93.5	615789
CRTAP	109.4	100.0	99.4	610682
CSF1R	120.5	100.0	99.6	618476
CSGALNACT1	158.4	100.0	100.0	618870
CTSA	139.9	100.0	99.6	256540
CTSK	90.8	100.0	99.2	265800
CUL7	134.0	100.0	99.1	273750
CYP26B1	165.6	100.0	100.0	614416
CYP27B1	129.3	100.0	99.8	264700
CYP2R1	137.6	99.5	96.0	600081
DDR2	119.8	100.0	99.6	271665
DDRGK1	104.6	100.0	100.0	602557
DDX58	131.5	99.6	98.3	616298
DHCR24	154.7	97.7	97.7	602398
DHODH	106.1	100.0	99.9	263750
DLL3	92.0	93.0	87.8	277300
DLL4	164.9	100.0	99.4	616589
DLX3	130.7	99.8	97.6	190320
DLX5	118.4	99.9	98.2	220600
DLX6	134.3	100.0	100.0	183600
DMP1	121.2	99.9	99.9	241520
DNA2	132.9	99.6	96.9	615807
DNAJC21	117.0	99.5	97.4	617052

DNMT3A	134.0	99.8	98.2	615879
DOCK6	124.2	99.4	98.7	614219
DONSON	101.7	93.8	85.8	251230;617604
DPCD	129.6	100.0	100.0	246560
DPM1	129.7	97.4	90.9	608799
DSE	91.5	98.4	95.4	615539
DVL1	147.0	97.2	95.1	616331
DVL3	190.2	100.0	100.0	616894
DYM	99.3	97.0	95.6	223800
DYNC2H1	107.7	98.6	95.2	613091
DYNC2LI1	97.3	99.6	98.4	617088
EBP	67.1	99.5	94.3	302960;300960
ECEL1	103.5	95.9	91.8	615065
EDN1	135.4	100.0	99.4	615706
EDNRA	166.2	99.8	99.8	616367
EFL1	154.0	99.3	97.7	617941
EFNB1	136.4	100.0	100.0	304110
EFTUD2	111.1	100.0	99.2	610536
EIF2AK3	152.9	98.2	95.5	226980
EIF4A3	87.6	100.0	99.2	268305
ENPP1	129.7	96.5	90.6	615522;208000;613312
EOGT	108.0	79.3	77.8	615297
EP300	174.2	99.9	98.9	613684
ERF	138.1	100.0	98.9	600775
ESCO2	114.4	98.5	94.6	269000;268300
EVC	108.4	94.2	91.4	193530;225500
EVC2	124.2	98.0	96.2	193530;225500
EXOC6B	114.3	98.1	97.1	618395
EXOSC5	157.8	100.0	100.0	-
EXT1	89.6	99.6	97.1	133700

EXT2	124.9	99.9	99.0	133701
EXTL3	170.1	100.0	100.0	617425
EZH2	144.1	99.7	98.0	277590
FAM111A	200.3	100.0	99.4	602361;127000
FAM20B	129.7	100.0	99.4	-
FAM20C	135.5	100.0	100.0	259775
FAR1	77.6	97.4	94.0	616154
FBLN1	142.2	99.7	96.6	608180
FBN1	149.0	100.0	99.7	102370;614185
FBN2	149.7	100.0	99.8	121050
FBXW4	73.4	82.2	79.8	246560
FERMT3	140.9	100.0	100.0	612840
FGD1	83.8	97.2	91.2	305400
FGF10	137.9	100.0	99.5	149730
FGF23	114.8	99.4	96.7	617993;193100
FGF8	123.7	97.1	87.2	612702
FGF9	184.7	100.0	100.0	612961
FGFR1	128.6	100.0	99.3	101600;615465
FGFR2	113.3	97.6	97.0	101600;149730
FGFR3	124.7	99.8	98.0	616482;149730;602849;187600;187601;100800;610474;146000
FIG4	168.2	99.8	99.7	216340
FKBP10	169.3	98.9	97.3	259450;610968
FKBP14	88.0	99.8	98.7	614557
FLNA	143.7	100.0	99.9	305620
FLNB	130.4	99.4	98.7	112310;272460;108721;108720
FMN1	125.0	97.1	95.7	-
FN1	111.4	99.9	98.7	184255
FUCA1	126.0	100.0	100.0	230000
FUZ	130.3	100.0	100.0	-
FZD2	146.2	100.0	97.8	164745

GALNS	110.5	100.0	99.3	253000
GALNT3	140.2	99.8	98.7	211900
GCM2	133.5	100.0	100.0	617343
GDF3	114.9	100.0	100.0	613702
GDF5	153.7	100.0	100.0	201250;615298;612400;615072;200700;112600;610017;228900;113100
GDF6	113.8	100.0	100.0	617898;118100
GH1	167.4	100.0	100.0	262400
GHR	142.7	99.5	99.5	604271;262500
GHRHR	120.2	96.5	96.4	612781
GHSR	163.3	98.7	95.6	615925
GINS2	84.0	100.0	97.5	No OMIM phenotype
GJA1	151.1	100.0	100.0	257850;164200;104100;186100;218400
GLB1	77.0	99.2	92.8	230650;253010;230600;230500
GLI2	163.8	99.8	98.6	610829;615849
GLI3	131.0	98.5	97.7	175700;146510;174700;241800;174200
GMNN	124.4	99.6	96.3	616835
GNAI3	102.5	98.4	93.2	602483
GNAS	178.6	86.7	84.4	219080;612462;174800;103580;166350;612463;603233
GNPAT	124.5	99.5	95.6	222765
GNPNAT1	25.6	69.3	46.4	No OMIM phenotype
GNPTAB	148.1	99.9	99.7	252500;252600
GNPTG	144.9	99.8	96.6	252605
GNS	95.6	99.2	94.6	252940
GORAB	145.8	99.7	97.2	231070
GPC3	77.3	98.8	92.9	312870
GPC6	128.4	100.0	99.9	258315
GPR161	175.8	100.0	100.0	-
GPX4	148.9	91.3	88.4	250220
GSC	104.0	98.9	93.0	602471
GUSB	108.2	92.5	90.1	253220

GZF1	181.8	100.0	99.7	617662
H19				180860
HAAO	105.9	100.0	100.0	617660
HDAC4	124.4	100.0	99.9	600430
HDAC8	90.2	85.7	83.7	300882
HES7	41.3	75.6	44.1	613686
HESX1	60.2	99.3	97.3	182230
HGSNAT	109.4	86.4	86.2	252930
HMGA2	72.5	81.0	76.6	618908
HOXA11	77.4	97.1	88.3	605432
HOXA13	54.9	76.4	67.3	176305;140000
HOXD13	153.6	100.0	98.8	113300;113200;186000
HPGD	76.7	99.5	99.3	259100;119900
HRAS	179.8	100.0	100.0	218040
HSPA9	76.1	87.1	82.8	616854
HSPG2	123.6	99.2	97.5	255800;224410
HYLS1	145.3	100.0	100.0	236680
IARS2	144.8	99.9	99.8	616007
ID4	136.1	90.7	85.3	605274
IDH1	72.6	90.6	75.5	-
IDH2	108.9	99.8	97.4	613657
IDS	95.1	99.6	95.3	309900
IDUA	139.0	94.6	87.4	607015;607014;607016
IFIH1	127.4	99.5	97.3	182250
IFITM5	98.3	99.7	97.0	610967
IFT122	131.2	99.9	99.2	218330
IFT140	120.4	99.9	99.2	266920
IFT172	94.8	99.6	98.6	615630
IFT43	116.4	100.0	100.0	614099
IFT52	130.6	100.0	99.9	617102

IFT80	68.7	97.2	85.7	611263
IFT81	91.9	92.9	89.6	617895
IGF1	87.4	99.8	99.8	608747
IGF1R	123.0	100.0	99.7	270450
IGF2	106.9	100.0	100.0	616489
IGFALS	100.1	100.0	100.0	615961
IGSF1	79.6	99.3	94.0	300888
IHH	144.4	100.0	100.0	112500;607778
IKBKB	123.7	99.0	96.1	615592
IKBKG	55.8	84.6	75.2	300291;300301;308300
IL1RN	130.7	100.0	99.9	147679
IL2RG	58.3	99.8	92.8	300400
IL6ST	97.3	94.9	89.4	618523
IMPAD1	147.0	100.0	99.9	614078
INPPL1	133.9	98.6	94.4	258480
INTU	119.2	99.9	98.6	617925;617926
KAT6B	148.0	99.4	98.0	606170
KCNJ2	149.7	100.0	100.0	106995
KDELR2	100.0	100.0	100.0	619131
KIAA0586	126.1	97.1	92.0	616546;616490
KIAA0753	120.5	99.9	98.9	617127;619479;619476
KIF22	174.6	100.0	99.6	603546
KIF7	105.7	93.6	91.9	200990;614120;607131
KL	152.1	98.5	97.5	617994
KMT2A	129.6	100.0	99.7	605130
KRAS	68.4	99.0	97.8	615278;609942
KYNU	111.3	99.5	96.7	617661
LAMA5	118.2	98.5	96.3	No OMIM phenotype
LBR	102.2	97.9	91.0	215140;169400
LBX1	147.1	100.0	100.0	246560

LEMD3	125.2	99.5	97.8	166700
LFNG	113.2	88.6	86.5	609813
LHX3	85.9	96.6	96.2	221750
LHX4	149.1	100.0	100.0	262700
LIFR	119.1	99.3	97.8	601559
LMNA	100.3	96.1	90.6	248370
LMX1B	156.2	99.3	96.8	161200
LONP1	146.9	100.0	99.9	600373
LPIN2	105.3	99.9	99.7	609628
LRP4	132.4	99.1	98.4	614305;212780
LRP5	183.2	99.2	98.2	259770;601884;166710;607634;144750;607636
LRRK1	152.4	98.7	97.5	-
LTBP1	120.8	99.2	97.4	619451
LTBP2	115.3	99.8	98.9	614819
LTBP3	134.5	99.8	98.6	601216;617809
LZTR1	141.0	100.0	99.9	616564;605275
MAFB	86.9	100.0	99.8	166300
MAN2B1	140.0	99.6	97.4	248500
MANBA	103.5	87.1	84.9	248510
MAP2K1	91.3	99.6	96.1	615279
MAP2K2	128.3	98.5	95.3	615280
MAP3K20	112.4	99.9	99.2	616890
MAP3K7	118.3	99.8	99.6	617137;157800
MAPK1	129.8	100.0	99.9	619087
MATN3	100.4	84.8	84.1	607078;608728
MBTPS2	116.3	99.9	98.5	301014
MCM5	122.6	100.0	99.7	617564
MECOM	133.8	100.0	99.6	616739
MEGF8	141.9	100.0	99.2	614976
MEOX1	100.8	100.0	98.0	214300

MESD	103.9	100.0	98.8	618644
MESP2	93.0	95.7	90.6	608681
MET	159.2	100.0	99.4	607278
MGP	138.7	98.7	93.6	245150
MIR140				618618
MKS1	93.4	99.4	96.3	249000
MMP13	114.5	93.6	92.2	602111;250400
MMP14	165.2	100.0	99.4	277950
MMP2	147.3	100.0	100.0	259600
MMP9	139.4	99.6	96.8	613073
MNX1	41.0	70.8	59.2	176450
MRAS	105.3	100.0	99.3	618499
MSX2	83.9	100.0	98.0	168550;604757;168500
MTAP	89.0	98.3	91.8	112250
MYCN	164.2	100.0	100.0	164280
MYH3	99.6	99.9	98.4	601680;178110;193700
MYLPF	136.0	100.0	100.0	619110
MYO18B	122.6	100.0	99.3	214300
NADSYN1	130.7	100.0	100.0	618845
NAGLU	119.2	93.8	91.7	252920
NANS	98.3	100.0	99.9	610442
NBAS	141.0	99.9	99.3	614800
NEK1	120.2	99.5	98.2	263520
NEK9	116.2	99.9	99.0	614262;617022
NEU1	144.9	99.3	96.1	256550
NF1	117.2	91.8	89.3	162200
NFIX	172.2	100.0	99.3	614753
NIN	130.7	99.9	99.5	614851
NIPBL	119.2	98.4	96.3	122470
NKX3-2	99.0	100.0	99.3	613330

NLRP3	137.0	100.0	99.9	607115
NOG	189.0	100.0	100.0	611377;186500
NOTCH1	128.4	99.3	97.9	616028
NOTCH2	130.5	100.0	99.2	102500
NPPC	88.6	100.0	99.3	-
NPR2	141.3	100.0	99.2	615923;602875;616255
NPR3	166.5	100.0	100.0	-
NRAS	163.7	100.0	100.0	613224
NSD1	137.5	100.0	99.8	117550
NSD2	124.0	99.9	98.3	No OMIM phenotype
NSDHL	132.0	99.8	96.3	308050
NSMCE2	82.1	99.5	98.7	617253
NXN	122.5	100.0	100.0	-
OBSL1	161.9	100.0	99.8	612921
OFD1	50.3	87.1	71.3	300804;311200;300209
ORC1	92.5	99.9	97.9	224690
ORC4	77.5	96.8	90.6	613800
ORC6	114.9	100.0	99.8	613803
OSTM1	97.7	98.7	92.9	259720
OTX2	124.0	100.0	99.0	613986;610125
P3H1	136.0	100.0	100.0	610915
P4HB	116.1	94.6	94.0	112240
PAM16	62.7	65.3	65.2	613320
PAPPA2	132.8	100.0	99.6	-
PAPSS2	108.5	99.8	98.0	612847
PAX3	97.0	100.0	99.8	-
PCNT	108.5	99.3	96.5	210720
PCYT1A	102.5	99.2	95.7	608940
PDE3A	117.2	99.8	99.1	112410
PDE4D	106.2	95.7	93.1	614613

PEX5	110.1	99.9	98.8	616716;202370;214110
PEX6	109.2	96.4	88.0	616617;614862;614863
PEX7	113.8	88.0	81.0	215100
PHEX	109.0	99.9	98.9	307800
PHGDH	111.5	99.9	98.2	256520
PIGV	122.2	100.0	100.0	239300
PIK3R1	123.8	99.7	98.4	269880
PISD	161.8	100.0	99.7	618889
PITX1	117.5	96.4	91.5	119800;186550
PITX2	147.2	99.8	97.2	180500
PKDCC	89.3	91.7	84.5	-
PLAG1	185.5	100.0	100.0	618907
PLCB3	154.3	100.0	99.3	618961
PLCB4	99.9	99.8	98.7	614669
PLEKHM1	128.4	100.0	99.9	611497
PLK4	145.5	99.4	98.4	616171
PLOD1	140.5	100.0	98.2	225400
PLOD2	127.9	99.2	98.1	609220
PLS3	122.6	97.3	96.1	300910
PNPLA6	144.9	100.0	99.8	275400
POC1A	119.6	100.0	100.0	614813
POLE	132.6	100.0	99.5	618336
POLL	122.7	99.8	97.4	246560
POLR1A	111.2	99.9	98.8	616462
POLR1C	83.8	89.6	84.8	248390
POLR1D	172.9	91.6	91.6	613717
POLR3A	115.6	99.9	99.0	264090
POLR3B	131.0	99.7	97.6	213002
POP1	108.3	100.0	99.3	617396
POR	193.1	99.5	98.0	201750

POU1F1	108.6	99.9	98.2	613038
PPIB	90.2	100.0	99.9	259440
PPM1D	148.9	100.0	99.9	617450
PPP1CB	109.6	99.8	98.7	617506
PPP1R21	125.5	99.3	95.5	619383
PRKAR1A	78.7	97.0	89.1	101800
PRKG2	164.7	97.6	96.7	No OMIM phenotype
PROKR2	228.0	100.0	100.0	244200
PROP1	97.0	91.0	80.2	262600
PSAT1	43.1	92.0	75.1	616038
PSMB1	144.9	100.0	99.8	-
PTDSS1	113.5	100.0	100.0	151050
PTH1R	104.0	99.6	95.9	215045
PTHLH	153.5	99.8	98.3	613382
PTPN11	81.2	97.7	87.6	163950;156250
PYCR1	95.6	100.0	98.2	612940
RAB23	114.7	99.7	99.7	201000
RAB33B	181.1	85.0	85.0	615222
RAC3	125.8	98.0	94.3	618577
RAD21	89.2	99.2	95.9	614701
RAF1	101.0	99.9	99.2	611553
RALA	115.4	89.1	82.1	619311
RASGRP2	104.0	100.0	98.3	615888
RBBP8	123.5	99.7	99.4	606744
RBM8A	94.3	99.6	95.3	274000
RBPJ	79.8	97.4	89.0	614814
RECQL4	158.3	99.9	98.6	266280;268400;218600
RIPPLY2	67.5	99.0	94.7	616566
RIT1	158.7	100.0	100.0	615355
RMRP				607095;250460;250250

RNPC3	46.4	94.0	75.1	618160
RNU4ATAC				210710;616651
ROR2	172.6	100.0	99.4	113000;268310
RPGRIP1L	129.9	96.5	95.3	216360;611560;611561
RPL10	76.9	96.7	87.5	300998
RPL13	48.2	95.6	84.7	618728
RRAS	131.8	99.7	95.8	-
RRAS2	79.2	95.9	87.4	618624
RREB1	175.2	99.8	99.2	-
RSPO2	144.5	94.8	88.3	618021
RSPRY1	146.8	99.9	99.9	616723
RUNX2	105.6	72.2	72.2	119600
SALL1	117.9	99.7	97.5	107480
SALL4	137.8	99.1	96.4	607323
SATB2	102.1	99.5	96.5	612313
SBDS	176.5	100.0	99.9	260400
SCARF2	76.3	97.4	88.9	600920
SEC24D	136.6	99.9	99.3	616294
SEMA3A	163.6	100.0	99.7	614897
SERPINF1	120.7	100.0	99.9	613982
SERPINH1	198.4	99.8	98.0	613848
SETD2	140.0	99.9	99.6	616831
SF3B4	59.4	99.8	94.1	201170;154400
SFRP4	124.3	99.8	99.1	265900
SGMS2	153.1	100.0	100.0	126550
SGSH	143.6	94.8	94.1	252900
SH3BP2	153.6	91.4	91.3	118400
SH3PXD2B	164.4	100.0	99.9	249420
SHH	125.7	100.0	100.0	188740;200500
SHOC2	141.2	99.8	99.6	607721

SHOX	31.4	71.5	60.7	127300;300582;249700
SKI	110.2	99.7	97.1	182212
SLC10A7	107.8	99.5	98.1	618363
SLC17A5	116.5	99.6	96.2	269920
SLC25A24	128.8	99.3	98.8	612289
SLC26A2	199.3	100.0	100.0	226900
SLC29A3	191.6	100.0	99.5	602782
SLC34A3	148.7	100.0	99.3	241530
SLC35C1	178.7	100.0	99.4	266265
SLC35D1	114.8	99.6	97.6	269250
SLC39A13	136.1	99.9	97.9	612350
SLCO2A1	96.7	99.9	98.0	614441
SLCO5A1	159.2	99.3	98.2	600383
SMAD2	133.0	100.0	99.8	601366
SMAD3	132.6	99.9	98.4	613795
SMAD4	113.8	99.9	99.9	139210
SMARCA4	154.0	99.9	99.2	614609
SMARCAL1	117.0	100.0	99.8	242900
SMARCB1	201.9	100.0	99.9	614608
SMARCE1	74.4	93.7	85.9	616938
SMC1A	89.7	99.6	97.1	300590
SMC3	79.3	94.5	89.0	610759
SMOC2	86.5	76.7	74.9	-
SNRPB	79.3	100.0	98.6	117650
SNX10	131.0	96.2	95.9	615085
SOS1	104.8	99.6	97.9	610733
SOS2	103.3	99.6	98.7	616559
SOST	106.8	100.0	99.6	122860
SOX2	194.7	100.0	99.8	206900
SOX3	54.4	94.9	81.2	300123

SOX9	171.5	100.0	99.9	114290
SP7	149.5	99.9	99.2	613849
SPARC	147.1	100.0	100.0	616507
SPECC1L	118.1	96.0	95.0	145410;145420
SPINK5	119.1	99.8	99.6	256500
SPR	153.3	100.0	99.4	612716
SPRED1	146.8	99.8	98.2	611431
SRCAP	154.9	99.7	98.9	136140
SRP54	111.1	98.0	93.4	-
STAT3	106.2	99.9	99.0	615952
STAT5B	120.2	99.9	98.1	245590;618985
STIM1	121.5	99.9	97.5	185070
SULF1	141.9	99.9	99.2	600383
SUMF1	91.4	98.3	92.5	272200
TAB2	170.6	99.8	99.2	-
TAPT1	90.1	93.0	87.1	616897
TBCE	118.0	99.7	96.6	241410
TBX15	102.0	100.0	99.7	260660
TBX3	93.9	99.4	97.3	181450
TBX4	219.4	98.1	95.4	147891
TBX5	128.4	100.0	100.0	142900
TBX6	124.1	99.2	94.8	122600
TBXAS1	131.9	100.0	100.0	231095
TCF12	136.8	99.9	99.7	615314
TCIRG1	118.4	98.5	93.4	259700
TCOF1	120.8	99.7	98.7	154500
TCTEX1D2	122.1	100.0	99.8	617405
TCTN2	127.2	99.9	99.1	616654
TCTN3	118.9	100.0	100.0	614815
TENT5A	153.0	100.0	99.5	617952

TGDS	95.5	99.4	95.9	616145
TGFB1	86.3	100.0	98.8	131300
TGFB2	169.0	100.0	100.0	614816
TGFB3	139.0	100.0	100.0	615582
TGFBR1	156.6	93.6	93.6	609192
TGFBR2	159.9	100.0	99.9	610168
THPO	74.2	81.4	78.7	187950
TMEM165	123.8	100.0	100.0	614727
TMEM216	89.9	98.5	92.8	603194
TMEM231	99.0	100.0	99.3	615397
TMEM251	149.4	100.0	98.8	619345
TMEM38B	92.6	99.8	99.8	615066
TMEM67	84.8	98.6	93.5	607361
TNFRSF11A	119.0	94.9	93.8	174810
TNFRSF11B	193.8	100.0	100.0	239000
TNFSF11	129.2	100.0	100.0	259710
TONSL	122.2	99.9	98.4	271510
TP63	170.6	100.0	100.0	106260;603543;225280;604292;605289
TRAF3IP1	82.2	98.7	95.4	616629
TRAIP	123.0	100.0	100.0	616777
TRAPPC2	60.1	91.6	73.2	313400
TREM2	128.3	100.0	99.3	221770
TRIP11	81.8	97.2	92.6	200600
TRPS1	164.6	100.0	99.9	190350
TRPV4	151.2	100.0	99.9	113500
TRPV6	155.1	100.0	99.9	618188
TTC21B	125.8	99.7	99.1	613820
TTI2	97.1	100.0	99.9	615541
TWIST1	102.3	100.0	99.4	101400
TYROBP	94.1	100.0	100.0	221770

UFSP2	146.5	99.7	98.9	142669
VAC14	99.5	99.8	98.5	-
VDR	106.0	96.7	94.4	277440
VPS33A	97.1	91.9	89.9	617303
VPS35L	142.6	100.0	99.8	-
WDR19	128.4	99.8	98.6	614377
WDR34	119.3	100.0	99.8	615633
WDR35	147.5	99.6	98.4	614091
WDR60	106.7	99.3	95.8	615503
WNT1	218.9	99.9	96.6	615220
WNT10B	145.8	100.0	99.6	225300
WNT3	130.5	100.0	99.9	273395
WNT5A	123.1	100.0	100.0	180700
WNT6	85.4	100.0	99.3	-
WNT7A	195.0	100.0	100.0	276820;228930
XRCC4	131.6	99.7	98.4	616541
XYLT1	134.5	97.8	91.1	615777
XYLT2	158.7	99.9	97.1	605822
ZBTB16	165.2	100.0	100.0	612447
ZC4H2	78.1	100.0	98.1	314580;301041
ZMPSTE24	134.5	99.6	99.4	608612
ZSWIM6	118.8	95.1	91.6	603671

Gene symbols used follow HGCN guidelines: Gray KA, Yates B, Seal RL, Wright MW, Bruford EA. Nucleic Acids Res. 2015 Jan 43(Database issue):D1079-85.

TWIST is the default chemistry for all WES samples. Agilent V5 was the default chemistry until Q3 2021.

Median Coverage describes the average number of reads seen across 50 exomes.

Covered 10x describes the percentage of a gene's coding sequence that is covered at least 10x.

Covered 20x describes the percentage of a gene's coding sequence that is covered at least 20x.

Genes with no value for coverage are non protein coding genes.

Non protein coding genes are covered, but as coverage statistics are based on protein coding regions, statistics could not be generated.

OMIM release used for OMIM disease identifiers and descriptions: September 1st, 2021.

