

Exome

Gene panel Growth disorders (687 genes)

version 4, 10-07-2023

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>ABCC9</i>						
<i>ACAN</i>	NM_001369268.1	124.00	86.57	86.28	85.50	82.69
<i>ACP5</i>	NM_001611.5	123.00	100.00	100.00	100.00	99.67
<i>ACTB</i>						
<i>ACTG1</i>						
<i>ACVR1</i>	NM_001111067.4	116.00	100.00	100.00	99.95	99.63
<i>ADAMTS10</i>	NM_030957.4	93.00	100.00	99.71	96.64	88.03
<i>ADAMTS17</i>	NM_139057.4	79.00	94.69	89.49	85.62	81.31
<i>ADAMTS3</i>	NM_014243.3	126.00	100.00	100.00	99.98	99.89
<i>ADAMTSL2</i>	NM_014694.4	0.00	43.23	39.66	35.69	29.83
<i>AFF3</i>						
<i>AGA</i>	NM_000027.4	106.00	100.00	99.96	98.88	92.60
<i>AGPS</i>	NM_003659.4	95.00	98.59	96.03	94.54	92.67
<i>AIFM1</i>						
<i>AKT1</i>	NM_001014432.1	96.00	100.00	99.95	98.69	92.31
<i>AKT2</i>	NM_001626.6	92.00	100.00	99.73	96.42	80.16
<i>AKT3</i>	NM_005465.7	103.00	100.00	100.00	99.98	97.46
<i>ALG12</i>						
<i>ALG3</i>						
<i>ALG9</i>						
<i>ALMS1</i>	NM_015120.4	255.00	99.79	99.19	98.17	96.20
<i>ALPL</i>	NM_000478.6	100.00	100.00	100.00	99.98	98.64
<i>ALX1</i>	NM_006982.3	136.00	100.00	100.00	99.70	97.12
<i>ALX3</i>	NM_006492.3	73.00	87.72	74.78	73.13	72.25
<i>ALX4</i>	NM_021926.4	70.00	99.48	96.43	90.72	76.56
<i>AMER1</i>	NM_152424.4	147.00	100.00	100.00	99.97	99.93
<i>AMMECR1</i>						
<i>ANAPC1</i>						
<i>ANKH</i>	NM_054027.6	97.00	100.00	99.97	99.69	96.18
<i>ANKRD11</i>						
<i>ANO5</i>	NM_213599.2	112.00	99.99	99.62	97.81	92.48
<i>ANTXR2</i>	NM_058172.6	91.00	100.00	100.00	99.74	96.61
<i>APC2</i>						
<i>ARCN1</i>						
<i>ARHGAP31</i>	NM_020754.4	133.00	100.00	100.00	99.98	99.46
<i>ARID1A</i>						
<i>ARID1B</i>						
<i>ARL6</i>						
<i>ARSB</i>	NM_000046.5	102.00	99.97	99.55	96.59	86.73

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<i>ARSK</i>						
<i>ARSL</i>	NM_000047	73.00	99.93	98.55	95.17	84.76
<i>ASXL1</i>						
<i>ASXL2</i>						
<i>ATP6V0A2</i>	NM_012463.4	122.00	100.00	99.88	99.19	94.99
<i>ATP7A</i>						
<i>ATR</i>	NM_001184.4	109.00	100.00	99.98	99.92	98.92
<i>B3GALT6</i>	NM_080605.4	98.00	75.54	71.91	69.55	68.51
<i>B3GALT1</i>						
<i>B3GAT3</i>						
<i>B4GALT7</i>	NM_007255.3	97.00	98.85	94.43	90.82	86.67
<i>BANF1</i>						
<i>BBS1</i>						
<i>BBS10</i>						
<i>BBS12</i>						
<i>BBS2</i>						
<i>BBS4</i>						
<i>BBS5</i>						
<i>BBS7</i>						
<i>BBS9</i>						
<i>BCL2</i>	NM_000633.2	85.00	100.00	99.37	96.52	87.40
<i>BGN</i>						
<i>BHLHA9</i>	NM_001164405.1	23.00	79.99	56.94	41.99	30.22
<i>BMP1</i>	NM_006129.5	99.00	100.00	99.80	98.18	90.10
<i>BMP2</i>	NM_001200.4	210.00	100.00	99.94	99.74	98.83
<i>BMP3</i>	NM_001201.4	177.00	100.00	100.00	99.99	99.77
<i>BMP4</i>	NM_001202.6	146.00	100.00	100.00	100.00	99.99
<i>BMPER</i>	NM_001365308.1	96.00	99.82	98.26	96.12	93.46
<i>BMPR1B</i>	NM_001203.3	93.00	100.00	99.87	98.51	94.21
<i>BRAF</i>	NM_004333.6	105.00	99.99	99.70	99.25	95.30
<i>BRF1</i>						
<i>BTK</i>						
<i>BTRC</i>						
<i>BUB1B</i>						
<i>C16orf62</i>						
<i>C21orf2</i>						
<i>C2CD3</i>						
<i>C3orf17</i>						
<i>C5orf42</i>						
<i>CA2</i>	NM_000067.3	105.00	100.00	99.97	99.84	97.16
<i>CANT1</i>	NM_001159773.2	120.00	100.00	100.00	99.87	98.51
<i>CASR</i>	NM_000388.4	156.00	100.00	100.00	100.00	99.92
<i>CBFB</i>						

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<i>CBL</i>						
<i>CC2D2A</i>	NM_001080522.2	103.00	99.96	99.33	97.51	89.20
<i>CCDC134</i>						
<i>CCDC8</i>	NM_032040.5	99.00	99.98	99.87	99.02	96.95
<i>CCN6</i>	NM_003880	118.00	100.00	99.89	98.63	95.00
<i>CCNQ</i>	NM_152274	77.00	84.97	84.75	83.88	76.09
<i>CDC42</i>						
<i>CDC45</i>						
<i>CDC6</i>	NM_001254.4	120.00	100.00	100.00	99.99	99.90
<i>CDC73</i>						
<i>CDH3</i>	NM_001793.6	105.00	99.19	96.11	94.58	89.68
<i>CDK10</i>						
<i>CDKN1B</i>	NM_004064.4	140.00	100.00	100.00	100.00	99.62
<i>CDKN1C</i>	NM_000076.2	50.00	79.27	66.48	56.73	50.20
<i>CDT1</i>	NM_030928.4	69.00	97.03	89.79	81.71	70.86
<i>CENPE</i>						
<i>CENPJ</i>	NM_018451.5	231.00	100.00	100.00	100.00	99.99
<i>CEP120</i>						
<i>CEP152</i>	NM_001194998.2	140.00	98.80	98.00	97.22	94.24
<i>CEP290</i>	NM_025114.4	101.00	95.31	91.21	88.09	82.78
<i>CEP57</i>	NM_014679.5	95.00	100.00	99.99	99.40	92.55
<i>CEP63</i>	NM_025180.4	79.00	100.00	99.69	97.00	87.26
<i>CHST11</i>						
<i>CHST14</i>	NM_130468.3	111.00	98.72	95.63	93.45	91.52
<i>CHST3</i>	NM_004273.5	161.00	100.00	100.00	100.00	98.86
<i>CHSY1</i>	NM_014918.5	205.00	94.08	93.17	92.21	88.80
<i>CILK1</i>	NM_016513	112.00	100.00	100.00	99.98	99.16
<i>CKAP2L</i>	NM_152515.5	256.00	100.00	99.73	98.48	95.25
<i>CLCN5</i>	NM_001127898.4	120.00	100.00	99.78	98.56	94.02
<i>CLCN7</i>	NM_001287.6	72.00	100.00	99.85	98.01	83.21
<i>COG1</i>	NM_018714.3	106.00	100.00	100.00	99.90	98.60
<i>COG4</i>						
<i>COL10A1</i>	NM_000493.4	142.00	99.98	99.56	98.32	96.07
<i>COL11A1</i>	NM_001854.4	98.00	99.99	99.28	97.78	88.22
<i>COL11A2</i>	NM_080680.3	68.00	99.10	96.64	90.09	72.75
<i>COL1A1</i>	NM_000088.3	81.00	100.00	98.98	93.75	81.44
<i>COL1A2</i>	NM_000089.4	102.00	99.97	98.48	92.73	81.82
<i>COL27A1</i>						
<i>COL2A1</i>	NM_001844.5	83.00	100.00	99.76	97.86	86.86
<i>COL9A1</i>	NM_001851.5	91.00	100.00	99.77	96.98	82.49
<i>COL9A2</i>	NM_001852.4	52.00	99.68	94.84	83.36	54.67
<i>COL9A3</i>	NM_001853.4	58.00	100.00	99.08	91.71	67.09
<i>COLEC10</i>						

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<i>COLEC11</i>						
<i>COMP</i>	NM_000095.3	106.00	96.25	92.65	90.98	83.00
<i>COPB2</i>						
<i>CREB3L1</i>	NM_052854.4	77.00	99.61	95.61	89.51	71.63
<i>CREBBP</i>	NM_004380.3	105.00	99.60	98.03	94.76	86.79
<i>CRIP1</i>						
<i>CRTAP</i>	NM_006371.5	102.00	100.00	100.00	99.92	99.61
<i>CSF1R</i>						
<i>CSGALNACT1</i>						
<i>CSPP1</i>						
<i>CTSA</i>	NM_000308.3	80.00	100.00	99.98	99.36	92.33
<i>CTSC</i>						
<i>CTSK</i>	NM_000396.4	113.00	100.00	100.00	100.00	99.93
<i>CUL7</i>	NM_014780.4	108.00	100.00	99.98	99.75	99.51
<i>CYP26B1</i>						
<i>CYP27B1</i>						
<i>CYP2R1</i>						
<i>DDR2</i>	NM_006182.4	116.00	100.00	100.00	99.99	99.93
<i>DDRGK1</i>						
<i>DDX58</i>	NM_014314.4					
<i>DHCR24</i>	NM_014762.4	90.00	100.00	100.00	99.65	97.39
<i>DHCR7</i>						
<i>DHODH</i>	NM_001361.5	88.00	100.00	99.45	96.79	81.65
<i>DIS3L2</i>						
<i>DLL3</i>	NM_203486.3	59.00	99.99	96.75	83.70	60.78
<i>DLL4</i>						
<i>DLX3</i>	NM_005220.3	100.00	100.00	99.37	94.92	89.76
<i>DLX5</i>	NM_005221.6	122.00	100.00	99.98	96.42	87.10
<i>DLX6</i>	NM_005222.4	87.00	100.00	98.09	90.21	79.98
<i>DMP1</i>	NM_004407.4	73.00	100.00	100.00	99.74	94.60
<i>DNA2</i>						
<i>DNAJC21</i>						
<i>DNMT3A</i>						
<i>DOCK6</i>	NM_020812.4	93.00	99.59	97.21	92.03	84.55
<i>DONSON</i>						
<i>DPAGT1</i>						
<i>DPCD</i>						
<i>DPF2</i>	NM_006268.5	98.00	99.98	98.91	97.59	96.15
<i>DPM1</i>						
<i>DSE</i>						
<i>DVL1</i>	NM_001330311.2	74.00	96.18	90.98	84.57	71.36
<i>DVL3</i>						
<i>DYM</i>	NM_001353214.2	99.00	100.00	100.00	99.89	98.90

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<i>DYNC2H1</i>	NM_001377.3	110.00	99.32	98.87	97.81	93.99
<i>DYNC2LI1</i>						
<i>EBP</i>	NM_006579.3	86.00	100.00	99.58	97.84	88.81
<i>ECEL1</i>						
<i>EDN1</i>						
<i>EDNRA</i>						
<i>EED</i>						
<i>EFNB1</i>	NM_004429.4	84.00	100.00	98.59	90.66	77.11
<i>EFTUD1</i>						
<i>EFTUD2</i>	NM_004247.4	91.00	100.00	100.00	99.58	93.95
<i>EIF2AK3</i>	NM_004836.7	123.00	99.94	99.26	96.46	92.52
<i>EIF4A3</i>						
<i>ELMO2</i>						
<i>EN1</i>						
<i>ENPP1</i>	NM_006208.3	112.00	93.03	90.58	88.98	86.57
<i>EOGT</i>	NM_001278689.2	108.00	100.00	100.00	99.99	99.72
<i>EP300</i>	NM_001429.4	137.00	100.00	99.79	98.41	94.86
<i>ERF</i>	NM_006494.4	102.00	100.00	99.04	92.98	81.32
<i>ESCO2</i>	NM_001017420.3	155.00	100.00	100.00	100.00	99.84
<i>EVC</i>	NM_153717.3	87.00	94.33	93.34	90.84	81.90
<i>EVC2</i>	NM_147127.5	107.00	100.00	99.82	98.45	95.67
<i>EXOC6B</i>						
<i>EXOSC5</i>						
<i>EXT1</i>	NM_000127.2	134.00	100.00	100.00	99.88	96.59
<i>EXT2</i>	NM_207122.1	121.00	100.00	100.00	99.99	99.98
<i>EXTL3</i>						
<i>EZH2</i>	NM_004456.5	100.00	100.00	99.95	99.50	98.61
<i>FAM111A</i>	NM_001312909.2	254.00	100.00	100.00	99.89	99.67
<i>FAM20B</i>						
<i>FAM20C</i>	NM_020223.4	67.00	99.31	94.57	88.54	69.21
<i>FAM46A</i>						
<i>FAR1</i>						
<i>FBLN1</i>	NM_006486.3	103.00	99.18	96.82	94.31	90.91
<i>FBN1</i>	NM_000138.4	116.00	100.00	99.97	99.83	99.11
<i>FBN2</i>	NM_001999.4	111.00	100.00	99.97	99.80	98.72
<i>FBXW4</i>						
<i>FERMT3</i>	NM_178443.2	82.00	99.49	95.87	92.05	81.85
<i>FGD1</i>	NM_004463.3	64.00	99.06	95.14	85.17	66.93
<i>FGF10</i>	NM_004465.2	119.00	100.00	100.00	100.00	99.13
<i>FGF16</i>	NM_003868.3	92.00	97.92	91.90	84.69	78.17
<i>FGF18</i>	NM_003862.3	105.00	100.00	99.95	99.30	96.19
<i>FGF23</i>	NM_020638.3	107.00	100.00	100.00	100.00	99.37
<i>FGF8</i>	NM_033164.4	52.00	93.89	88.56	79.86	52.76

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<i>FGF9</i>	NM_002010.3	109.00	100.00	99.98	99.30	96.08
<i>FGFR1</i>	NM_023110.3	98.00	100.00	99.79	98.61	96.96
<i>FGFR2</i>	NM_022970.3	103.00	100.00	100.00	99.86	99.06
<i>FGFR3</i>	NM_000142.4	67.00	99.85	98.50	94.54	78.27
<i>FIG4</i>	NM_014845.5	107.00	100.00	100.00	99.98	99.36
<i>FKBP10</i>	NM_021939.4	86.00	99.91	98.82	95.43	85.66
<i>FKBP14</i>						
<i>FLNA</i>	NM_001110556.2	83.00	99.51	98.02	94.58	84.51
<i>FLNB</i>	NM_001457.4	111.00	100.00	99.95	99.52	96.92
<i>FMN1</i>	NM_001277313.2					
<i>FN1</i>						
<i>FUCA1</i>	NM_000147.4	108.00	100.00	100.00	99.99	99.90
<i>FURIN</i>	NM_002569.4	102.00	99.95	99.64	97.55	89.60
<i>FUZ</i>						
<i>FZD2</i>	NM_001466.4	242.00	99.38	97.32	95.65	94.46
<i>GALNS</i>	NM_000512.5	73.00	100.00	98.54	91.29	76.06
<i>GALNT2</i>	NM_004481.5	92.00	97.36	93.33	92.32	90.17
<i>GALNT3</i>	NM_004482.4	129.00	100.00	100.00	99.99	99.80
<i>GBA</i>						
<i>GCM2</i>						
<i>GDF3</i>	NM_020634.3	172.00	100.00	100.00	99.65	98.21
<i>GDF5</i>	NM_000557.5	122.00	100.00	99.95	99.68	95.28
<i>GDF6</i>	NM_001001557.4	73.00	100.00	98.51	91.79	74.63
<i>GFER</i>	NM_005262.3					
<i>GH1</i>	NM_000515.5	141.00	100.00	100.00	100.00	99.98
<i>GHR</i>	NM_000163.5	183.00	99.78	99.77	99.56	99.27
<i>GHRH</i>	NM_021081.5	84.00	100.00	98.74	90.45	74.62
<i>GHRHR</i>	NM_000823.4	85.00	99.80	96.38	89.58	79.04
<i>GHSR</i>	NM_198407.2	225.00	100.00	99.99	99.67	98.82
<i>GINS2</i>						
<i>GJA1</i>	NM_000165.5	161.00	100.00	100.00	100.00	100.00
<i>GLB1</i>	NM_000404.4	97.00	100.00	99.86	99.24	96.89
<i>GLI1</i>						
<i>GLI2</i>	NM_001371271.1	92.00	99.69	97.66	93.41	89.14
<i>GLI3</i>	NM_000168.6	132.00	100.00	100.00	99.80	96.33
<i>GMNN</i>						
<i>GNAI3</i>						
<i>GNAS</i>	NM_080425.3	169.00	100.00	99.92	99.53	96.20
<i>GNPAT</i>	NM_014236.4	125.00	100.00	99.97	99.48	96.91
<i>GNPNAT1</i>						
<i>GNPTAB</i>	NM_024312.5	124.00	100.00	99.95	99.68	98.22
<i>GNPTG</i>	NM_032520.5	115.00	99.86	96.85	94.49	93.34
<i>GNS</i>	NM_002076.4	104.00	99.72	97.70	95.67	91.27

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<i>GORAB</i>	NM_152281.2	111.00	100.00	99.55	96.99	88.42
<i>GPC3</i>						
<i>GPC4</i>						
<i>GPC6</i>	NM_005708.5	106.00	100.00	99.99	99.67	98.64
<i>GPR161</i>	NM_001349632.1	138.00	99.99	99.76	98.96	96.58
<i>GPX4</i>	NM_002085.5	119.00	100.00	98.62	92.85	85.78
<i>GREM1</i>	NM_013372.7					
<i>GSC</i>						
<i>GUSB</i>	NM_000181.4	113.00	100.00	99.99	99.62	93.24
<i>GZF1</i>						
<i>H19</i>						
<i>HAAO</i>						
<i>HDAC4</i>	NM_006037.3	75.00	98.85	95.30	89.67	77.32
<i>HDAC8</i>	NM_018486.3	77.00	99.99	99.42	97.09	85.24
<i>HES7</i>	NM_001165967.2	33.00	83.48	66.20	53.91	31.40
<i>HESX1</i>	NM_003865.3	94.00	100.00	99.22	96.96	92.85
<i>HGSNAT</i>	NM_152419.3	107.00	93.97	91.96	88.61	81.24
<i>HHAT</i>						
<i>HMGA2</i>	NM_003483.4	50.00	99.95	98.90	88.93	51.33
<i>HOXA11</i>	NM_005523.6	100.00	100.00	99.41	94.74	80.77
<i>HOXA13</i>	NM_000522.5	113.00	80.45	74.28	69.43	62.80
<i>HOXD13</i>	NM_000523.4	167.00	99.76	97.30	93.38	87.37
<i>HPGD</i>	NM_000860.6	91.00	100.00	99.98	99.76	99.49
<i>HRAS</i>						
<i>HS2ST1</i>						
<i>HSPA9</i>						
<i>HSPG2</i>	NM_005529.7	80.00	99.42	98.10	94.35	84.23
<i>HYLS1</i>						
<i>IARS2</i>						
<i>ID4</i>						
<i>IDH1</i>	NM_005896.3	121.00	100.00	100.00	100.00	100.00
<i>IDH2</i>	NM_002168.3	119.00	98.97	94.44	91.84	91.21
<i>IDS</i>	NM_000202.8	88.00	99.94	97.50	93.21	83.35
<i>IDUA</i>	NM_000203.5	84.00	97.59	89.68	81.15	66.83
<i>IFIH1</i>	NM_022168.4					
<i>IFITM5</i>	NM_001025295.3	132.00	100.00	100.00	100.00	99.97
<i>IFT122</i>	NM_052989.3	91.00	100.00	99.62	97.64	93.20
<i>IFT140</i>	NM_014714.4	93.00	100.00	99.76	98.30	92.62
<i>IFT172</i>	NM_015662.3	108.00	100.00	99.98	99.53	97.76
<i>IFT43</i>	NM_001102564.1	92.00	100.00	100.00	99.84	95.10
<i>IFT52</i>						
<i>IFT80</i>	NM_020800.3	100.00	100.00	99.98	99.54	95.48
<i>IFT81</i>						

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>IGF1</i>	NM_000618.5	76.00	100.00	99.93	98.82	85.96
<i>IGF1R</i>	NM_000875.5	101.00	100.00	99.55	98.40	97.20
<i>IGF2</i>	NM_000612.6	63.00	100.00	99.79	98.31	80.76
<i>IGFALS</i>	NM_004970.2	92.00	100.00	99.99	99.37	93.53
<i>IGFBP3</i>	NM_001013398.2	60.00	100.00	99.53	93.53	74.53
<i>IGSF1</i>	NM_001555.5	93.00	100.00	99.53	97.00	90.85
<i>IHH</i>	NM_002181.4	115.00	100.00	98.79	95.82	91.15
<i>IKBKB</i>	NM_001556.3	94.00	100.00	99.35	97.20	88.95
<i>IKBKG</i>	NM_003639.4	0.00	19.84	14.24	11.58	5.97
<i>IL11RA</i>	NM_001142784.2	77.00	99.98	96.94	88.22	77.91
<i>IL1RN</i>	NM_173841.2	100.00	100.00	100.00	99.99	97.46
<i>IL2RG</i>	NM_000206.2	78.00	100.00	99.84	96.94	86.12
<i>IL6ST</i>						
<i>IMPAD1</i>	NM_017813.5	139.00	100.00	100.00	99.92	99.48
<i>INPPL1</i>	NM_001567.4	88.00	97.84	95.31	93.74	86.91
<i>INTU</i>						
<i>KAT6B</i>	NM_012330.4	162.00	99.99	99.71	98.51	92.94
<i>KCNJ2</i>						
<i>KDELR2</i>	NM_006854.4	71.00	100.00	98.54	89.08	76.61
<i>KIAA0586</i>						
<i>KIAA0753</i>						
<i>KIAA0825</i>						
<i>KIF22</i>	NM_007317.3	120.00	99.98	99.61	98.50	93.72
<i>KIF24</i>						
<i>KIF7</i>	NM_198525.3	78.00	98.34	93.95	88.39	76.48
<i>KL</i>						
<i>KMT2A</i>						
<i>KMT2D</i>						
<i>KRAS</i>	NM_004985.5	120.00	100.00	99.32	98.31	88.38
<i>KYNU</i>						
<i>LAMA5</i>						
<i>LBR</i>	NM_002296.4	94.00	100.00	99.99	99.82	96.02
<i>LBX1</i>						
<i>LEMD3</i>	NM_014319.5	107.00	100.00	99.98	99.32	94.06
<i>LFNG</i>	NM_001040167.2	70.00	84.51	81.81	78.52	69.63
<i>LHX3</i>	NM_178138.6	73.00	100.00	99.99	98.28	84.40
<i>LHX4</i>	NM_033343.4	92.00	100.00	98.98	95.72	88.92
<i>LIFR</i>	NM_001127671.2	114.00	100.00	99.68	97.92	90.84
<i>LMBR1</i>	NM_022458.4	78.00	99.97	99.75	97.29	89.41
<i>LMNA</i>	NM_170707.4	57.00	100.00	98.85	90.66	64.94
<i>LMX1B</i>	NM_001174147.2	85.00	99.75	96.63	93.70	87.23
<i>LONP1</i>	NM_004793.4	91.00	99.99	99.71	97.52	90.32
<i>LPIN2</i>	NM_014646.2	106.00	100.00	99.99	99.87	99.17

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>LRP4</i>	NM_002334.4	111.00	100.00	99.97	99.16	94.95
<i>LRP5</i>	NM_002335.4	120.00	98.18	97.79	96.26	93.62
<i>LRRK1</i>						
<i>LTBP1</i>						
<i>LTBP2</i>	NM_000428.3	73.00	99.80	97.72	92.64	82.21
<i>LTBP3</i>						
<i>LZTR1</i>						
<i>MAB21L2</i>						
<i>MAFB</i>	NM_005461.5	90.00	100.00	100.00	99.79	99.23
<i>MAN2B1</i>	NM_000528.4	93.00	100.00	99.34	95.41	88.65
<i>MAN2C1</i>	NM_006715.4					
<i>MANBA</i>	NM_005908.4	104.00	100.00	100.00	99.98	99.59
<i>MAP2K1</i>						
<i>MAP2K2</i>						
<i>MAP3K20</i>						
<i>MAP3K7</i>						
<i>MAPK1</i>						
<i>MAPKAPK5</i>						
<i>MASP1</i>						
<i>MATN3</i>	NM_002381.5	118.00	90.49	85.33	84.80	84.75
<i>MBTPS1</i>						
<i>MBTPS2</i>	NM_015884.4					
<i>MC3R</i>	NM_019888.3					
<i>MCM5</i>						
<i>MECOM</i>						
<i>MEGF8</i>	NM_001271938.2	79.00	99.78	96.97	90.98	78.59
<i>MEOX1</i>	NM_004527.4	71.00	100.00	99.94	97.11	79.14
<i>MESDC2</i>						
<i>MESP2</i>	NM_001039958.2	89.00	99.89	97.95	94.79	82.02
<i>MET</i>						
<i>MGP</i>	NM_000900.5	101.00	100.00	98.90	92.83	84.96
<i>MIR140</i>						
<i>MKKS</i>						
<i>MKS1</i>	NM_017777.4	94.00	99.99	99.19	97.05	89.75
<i>MMP13</i>	NM_002427.4	139.00	100.00	100.00	99.99	99.84
<i>MMP14</i>						
<i>MMP2</i>	NM_004530.6	88.00	100.00	99.57	96.53	86.46
<i>MMP9</i>	NM_004994.3	82.00	100.00	99.89	98.11	89.69
<i>MXN1</i>	NM_005515.4	35.00	73.23	66.30	56.81	33.57
<i>MPDU1</i>						
<i>MRAS</i>						
<i>MSX2</i>	NM_002449.5	104.00	100.00	98.98	95.14	89.74
<i>MTAP</i>						

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>MTX2</i>						
<i>MYCN</i>	NM_005378.6	132.00	98.65	93.71	89.09	82.18
<i>MYH3</i>						
<i>MYLPF</i>						
<i>MYO18B</i>						
<i>NADSYN1</i>						
<i>NAGLU</i>	NM_000263.4	82.00	95.86	91.28	88.69	81.45
<i>NANS</i>						
<i>NBAS</i>	NM_015909.4					
<i>NCAM1</i>	NM_181351.5	78.00	99.98	99.44	96.90	88.46
<i>NEK1</i>	NM_012224.3	112.00	99.97	99.60	98.78	97.24
<i>NEK9</i>						
<i>NEU1</i>	NM_000434.4	115.00	100.00	100.00	99.89	97.68
<i>NF1</i>	NM_001042492.3	125.00	100.00	99.77	98.75	94.96
<i>NFIX</i>	NM_001271043.2	120.00	100.00	99.47	96.92	88.61
<i>NIN</i>	NM_020921.3	140.00	100.00	99.96	99.73	98.60
<i>NIPBL</i>	NM_133433.4	115.00	100.00	99.96	99.71	98.33
<i>NKX3-2</i>	NM_001189.4	80.00	100.00	99.45	96.84	90.96
<i>NLRP3</i>	NM_004895.4	295.00	100.00	100.00	99.96	99.59
<i>NMNAT1</i>						
<i>NOG</i>	NM_005450.6	126.00	100.00	100.00	99.96	99.57
<i>NOTCH1</i>						
<i>NOTCH2</i>	NM_024408.4	113.00	99.79	98.82	97.44	95.01
<i>NOX4</i>	NM_016931.5	98.00	100.00	99.99	99.79	94.50
<i>NPPA</i>	NM_006172.4	139.00	100.00	100.00	99.93	98.76
<i>NPPB</i>	NM_002521.3	55.00	100.00	97.92	89.71	60.03
<i>NPPC</i>	NM_024409.4	70.00	99.83	97.56	87.81	73.05
<i>NPR1</i>	NM_000906.4	81.00	99.72	97.15	90.56	82.01
<i>NPR2</i>	NM_003995.3	129.00	100.00	99.99	99.89	98.88
<i>NPR3</i>	NM_001204375.2	119.00	100.00	99.61	98.49	97.80
<i>NRAS</i>						
<i>NSD1</i>	NM_022455.4	160.00	100.00	99.96	99.55	98.36
<i>NSD2</i>	NM_133330	125.00	99.30	97.77	95.85	90.05
<i>NSDHL</i>	NM_015922.3	79.00	100.00	99.91	97.77	84.84
<i>NSMCE2</i>						
<i>NXN</i>						
<i>OBSL1</i>	NM_015311.3	110.00	100.00	99.90	99.05	96.93
<i>OFD1</i>	NM_003611.3	84.00	99.93	99.17	97.10	87.97
<i>ORC1</i>	NM_004153.4	99.00	100.00	99.99	99.75	97.50
<i>ORC4</i>	NM_181741.4	96.00	100.00	100.00	99.96	95.82
<i>ORC6</i>	NM_014321.4	90.00	100.00	100.00	99.62	92.27
<i>OSTM1</i>	NM_014028.4	97.00	99.93	95.85	85.58	72.84
<i>OTX2</i>	NM_172337.3	143.00	100.00	100.00	100.00	100.00

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>P3H1</i>	NM_022356	103.00	100.00	100.00	100.00	99.98
<i>P4HB</i>	NM_000918.4	82.00	99.97	99.03	95.31	82.53
<i>PAM16</i>	NM_016069.11	67.00	100.00	99.93	99.09	87.66
<i>PAPPA</i>	NM_002581.5	119.00	94.83	92.91	91.06	90.23
<i>PAPPA2</i>	NM_020318.3	126.00	100.00	99.90	99.30	96.84
<i>PAPSS2</i>	NM_001015880.2	95.00	100.00	99.85	99.21	92.37
<i>PAX3</i>						
<i>PCNT</i>	NM_006031.6	110.00	100.00	99.80	97.99	92.41
<i>PCYT1A</i>	NM_001312673.2	111.00	100.00	99.99	99.48	88.94
<i>PDE3A</i>	NM_000921.4	98.00	100.00	99.85	98.82	92.83
<i>PDE4D</i>	NM_001104631.2	97.00	94.07	88.92	86.40	82.09
<i>PDGFRB</i>						
<i>PEX5</i>						
<i>PEX6</i>						
<i>PEX7</i>	NM_000288.4	119.00	99.89	98.95	95.52	87.31
<i>PGM3</i>						
<i>PHEX</i>	NM_000444.6	86.00	100.00	100.00	99.34	90.77
<i>PHGDH</i>						
<i>PIGT</i>						
<i>PIGV</i>	NM_017837.3	217.00	100.00	100.00	100.00	100.00
<i>PIK3C2A</i>						
<i>PIK3CA</i>	NM_006218.4	135.00	100.00	100.00	99.97	99.87
<i>PIK3R1</i>	NM_181523.3	112.00	100.00	100.00	99.95	99.05
<i>PIK3R3</i>	NM_003629.4	113.00	100.00	100.00	99.96	99.90
<i>PISD</i>						
<i>PITX1</i>	NM_002653.5	107.00	98.87	91.33	81.39	75.25
<i>PITX2</i>	NM_000325.6	107.00	99.81	96.63	91.73	85.63
<i>PKDCC</i>						
<i>PLAG1</i>						
<i>PLCB3</i>						
<i>PLCB4</i>						
<i>PLCD4</i>	NM_032726.4	103.00	100.00	99.97	99.30	97.11
<i>PLEKHM1</i>	NM_014798.3	84.00	98.97	97.30	93.24	82.25
<i>PLK4</i>						
<i>PLOD1</i>						
<i>PLOD2</i>	NM_182943.3	115.00	97.87	94.97	89.97	86.85
<i>PLOD3</i>						
<i>PLS3</i>	NM_005032.7	82.00	100.00	99.98	99.76	96.50
<i>PNPLA6</i>						
<i>POC1A</i>						
<i>POLE</i>						
<i>POLL</i>						
<i>POLR1A</i>						

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>POLR1B</i>						
<i>POLR1C</i>	NM_203290.4	103.00	100.00	99.75	97.27	92.79
<i>POLR1D</i>	NM_152705.3	85.00	100.00	99.97	97.85	85.99
<i>POLR3A</i>						
<i>POLR3B</i>						
<i>POLR3GL</i>						
<i>POP1</i>	NM_001145860.2	131.00	100.00	100.00	99.96	98.18
<i>POR</i>	NM_000941.3	108.00	100.00	100.00	100.00	98.61
<i>PORCN</i>						
<i>POU1F1</i>	NM_000306.4	98.00	99.88	96.87	93.62	92.02
<i>PPIB</i>	NM_000942.4	109.00	100.00	100.00	100.00	99.99
<i>PPM1D</i>						
<i>PPP1CB</i>						
<i>PPP1R21</i>						
<i>PRKACA</i>						
<i>PRKACB</i>						
<i>PRKAR1A</i>	NM_002734.4	104.00	100.00	100.00	100.00	99.99
<i>PRKG2</i>	NM_001363401.2	107.00	100.00	99.84	98.38	92.51
<i>PRMT7</i>						
<i>PROKR2</i>	NM_144773.3	240.00	100.00	100.00	100.00	99.97
<i>PROP1</i>	NM_006261.4	56.00	99.96	98.40	90.69	61.22
<i>PSAT1</i>						
<i>PSMB1</i>						
<i>PSPH</i>						
<i>PTDSS1</i>	NM_014754.3	112.00	100.00	100.00	99.97	99.07
<i>PTEN</i>	NM_000314.8	152.00	100.00	100.00	100.00	99.55
<i>PTH</i>	NM_000315.4	169.00	100.00	100.00	100.00	99.96
<i>PTH1R</i>	NM_000316.3	96.00	100.00	99.92	98.59	89.98
<i>PTHLH</i>	NM_198965.2	183.00	100.00	100.00	100.00	100.00
<i>PTPN11</i>	NM_002834.4	137.00	99.19	99.17	99.17	99.17
<i>PUF60</i>	NM_078480.3	122.00	99.97	99.11	95.78	87.76
<i>PYCR1</i>	NM_006907.4	84.00	100.00	99.95	97.50	79.64
<i>RAB23</i>	NM_016277.5	106.00	100.00	100.00	100.00	99.99
<i>RAB33B</i>	NM_031296.3	210.00	100.00	100.00	100.00	99.98
<i>RAC3</i>						
<i>RAD21</i>	NM_006265.3	100.00	100.00	100.00	99.92	98.46
<i>RAF1</i>						
<i>RALA</i>						
<i>RASGRP2</i>	NM_001098671.2	91.00	100.00	99.62	96.87	83.68
<i>RBBP8</i>	NM_002894.3	102.00	100.00	99.92	99.65	98.10
<i>RBM8A</i>	NM_005105.4	102.00	100.00	100.00	99.84	99.08
<i>RBPJ</i>	NM_015874.4	132.00	99.98	99.21	97.95	96.61
<i>RECQL4</i>	NM_004260.3	101.00	99.95	99.39	97.29	94.31

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>RFT1</i>						
<i>RINT1</i>						
<i>RIPPLY2</i>						
<i>RIT1</i>						
<i>RMRP</i>						
<i>RNPC3</i>	NM_017619.4	94.00	99.84	97.79	94.51	89.43
<i>RNU4ATAC</i>						
<i>ROR2</i>	NM_004560.4	105.00	100.00	99.84	98.47	94.86
<i>RPGRIP1L</i>	NM_015272.5	124.00	99.53	98.06	96.53	92.73
<i>RPL10</i>						
<i>RPL13</i>						
<i>RRAS</i>						
<i>RRAS2</i>						
<i>RREB1</i>						
<i>RSPO2</i>						
<i>RSPRY1</i>						
<i>RUNX2</i>	NM_001024630.4	112.00	100.00	100.00	100.00	99.92
<i>SALL1</i>	NM_002968.3	159.00	100.00	99.99	99.52	98.13
<i>SALL4</i>	NM_020436.5	136.00	99.85	97.97	96.28	95.83
<i>SATB2</i>						
<i>SBDS</i>	NM_016038.4	131.00	100.00	100.00	100.00	100.00
<i>SCARF2</i>						
<i>SCUBE3</i>	NM_152753.4	92.00	99.98	99.27	97.67	96.30
<i>SEC24D</i>	NM_014822.4	95.00	100.00	99.94	98.68	93.07
<i>SEMA3A</i>						
<i>SERPINF1</i>	NM_002615.7	80.00	99.51	96.21	91.00	82.79
<i>SERPINH1</i>	NM_001235.4	164.00	100.00	100.00	100.00	99.98
<i>SETD2</i>	NM_014159.6	280.00	99.91	99.15	98.08	96.96
<i>SF3B4</i>	NM_005850.5	123.00	100.00	97.65	90.47	77.51
<i>SFRP4</i>						
<i>SGMS2</i>						
<i>SGSH</i>	NM_000199.5	71.00	94.18	94.13	93.64	88.83
<i>SH3BP2</i>	NM_001122681.2	95.00	100.00	99.99	99.75	94.62
<i>SH3PXD2B</i>	NM_001017995.3	109.00	99.93	98.53	95.46	87.65
<i>SHH</i>	NM_000193.4					
<i>SHOC2</i>						
<i>SHOX</i>	NM_000451.3	0.00	0.00	0.00	0.00	0.00
<i>SHOX2</i>	NM_001163678.1	83.00	100.00	99.89	97.50	88.06
<i>SKI</i>	NM_003036.4	80.00	94.46	87.24	81.69	74.70
<i>SLC10A7</i>						
<i>SLC17A5</i>	NM_012434.5	93.00	100.00	100.00	100.00	99.93
<i>SLC25A24</i>						
<i>SLC26A2</i>	NM_000112.4	294.00	100.00	100.00	100.00	100.00

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SLC29A3</i>	NM_018344.6	141.00	99.98	99.88	99.40	98.57
<i>SLC34A1</i>						
<i>SLC34A3</i>	NM_001177316.2	93.00	99.90	98.99	96.04	87.72
<i>SLC35C1</i>						
<i>SLC35D1</i>	NM_015139.3	96.00	100.00	99.96	99.11	90.34
<i>SLC39A13</i>	NM_001128225.3	76.00	100.00	99.98	98.09	84.69
<i>SLC4A2</i>						
<i>SLCO2A1</i>						
<i>SLCO5A1</i>	NM_030958.3	114.00	100.00	99.78	98.78	97.47
<i>SMAD2</i>						
<i>SMAD3</i>	NM_005902.4	93.00	100.00	99.96	99.13	97.69
<i>SMAD4</i>	NM_005359.6	132.00	100.00	100.00	99.98	99.94
<i>SMAD6</i>						
<i>SMARCA4</i>						
<i>SMARCA5</i>						
<i>SMARCAL1</i>	NM_014140.4	120.00	100.00	99.99	99.77	97.99
<i>SMARCB1</i>						
<i>SMARCE1</i>						
<i>SMC1A</i>	NM_006306.4	90.00	99.96	99.41	98.06	92.98
<i>SMC3</i>	NM_005445.3	90.00	99.96	99.33	96.55	89.06
<i>SMO</i>						
<i>SMOC1</i>						
<i>SMOC2</i>						
<i>SNRPB</i>	NM_003091.4	70.00	100.00	99.30	95.47	76.47
<i>SNX10</i>	NM_013322.2	103.00	100.00	100.00	100.00	99.91
<i>SOCS2</i>	NM_001270471.2	183.00	100.00	100.00	99.62	92.09
<i>SOS1</i>	NM_005633.3	114.00	100.00	99.63	98.47	97.25
<i>SOS2</i>						
<i>SOST</i>	NM_025237.3	124.00	100.00	100.00	100.00	99.99
<i>SOX2</i>	NM_003106.4	111.00	100.00	99.97	99.26	96.27
<i>SOX3</i>	NM_005634.2	71.00	98.48	90.15	77.85	61.96
<i>SOX5</i>	NM_006940.6	107.00	100.00	99.99	99.73	95.10
<i>SOX6</i>	NM_001367873.1	115.00	100.00	99.99	99.89	97.91
<i>SOX9</i>	NM_000346.4	103.00	99.83	97.87	94.09	88.27
<i>SP7</i>	NM_001173467.3	95.00	100.00	99.61	96.66	90.55
<i>SPARC</i>						
<i>SPECC1L</i>						
<i>SPINK5</i>	NM_006846.3	93.00	100.00	99.11	95.09	82.17
<i>SPR</i>	NM_003124.5	79.00	100.00	99.24	94.51	86.47
<i>SPRED1</i>						
<i>SPRED2</i>						
<i>SRCAP</i>	NM_006662.3	114.00	100.00	99.80	98.74	95.48
<i>SRP54</i>						

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>STAT3</i>	NM_139276.2	117.00	100.00	100.00	99.73	96.87
<i>STAT5B</i>	NM_012448.4	97.00	99.95	98.18	95.20	87.08
<i>STC1</i>	NM_003155.3	121.00	100.00	99.97	99.67	98.85
<i>STC2</i>	NM_003714.2	72.00	99.80	97.59	92.13	77.68
<i>STIM1</i>						
<i>SULF1</i>	NM_001128205.2	109.00	100.00	99.72	98.41	94.30
<i>SUMF1</i>	NM_182760.4	111.00	100.00	100.00	100.00	100.00
<i>TAB2</i>						
<i>TALDO1</i>						
<i>TAPT1</i>						
<i>TBCE</i>	NM_003193.5	97.00	100.00	100.00	99.95	98.65
<i>TBX15</i>	NM_001330677.2	133.00	100.00	99.99	99.43	98.54
<i>TBX2</i>						
<i>TBX3</i>	NM_005996.4	63.00	99.94	98.12	92.36	69.52
<i>TBX4</i>	NM_001321120.2	108.00	98.95	94.52	89.98	82.51
<i>TBX5</i>	NM_000192.3	117.00	100.00	99.94	99.21	94.35
<i>TBX6</i>	NM_004608.3	77.00	100.00	99.80	96.53	80.17
<i>TBXAS1</i>	NM_001130966.4	117.00	100.00	100.00	99.82	97.28
<i>TCF12</i>	NM_003205.4	113.00	100.00	100.00	99.97	99.77
<i>TCIRG1</i>	NM_006019.4	88.00	99.87	96.67	91.39	85.41
<i>TCOF1</i>	NM_001371623.1	82.00	99.97	98.30	92.78	82.53
<i>TCTEX1D2</i>						
<i>TCTN2</i>						
<i>TCTN3</i>	NM_015631.6	97.00	100.00	100.00	99.96	97.17
<i>TERT</i>						
<i>TGDS</i>	NM_014305.4	102.00	100.00	99.99	99.55	87.83
<i>TGFB1</i>	NM_000660.7	100.00	100.00	100.00	100.00	99.60
<i>TGFB2</i>	NM_003238.6	130.00	100.00	99.93	98.83	96.85
<i>TGFB3</i>						
<i>TGFBR1</i>	NM_004612.4	134.00	93.69	93.56	93.56	93.56
<i>TGFBR2</i>	NM_003242.6	149.00	100.00	99.92	99.31	95.99
<i>THPO</i>	NM_000460.4	163.00	100.00	99.87	99.02	95.94
<i>THRA</i>	NM_003250.6	101.00	100.00	99.98	99.79	98.62
<i>TMCO1</i>						
<i>TMEM165</i>						
<i>TMEM216</i>	NM_001173990.3	130.00	99.99	99.75	98.73	92.84
<i>TMEM231</i>						
<i>TMEM251</i>						
<i>TMEM38B</i>	NM_018112.3	119.00	100.00	100.00	100.00	99.37
<i>TMEM53</i>						
<i>TMEM67</i>	NM_153704.6	104.00	100.00	100.00	99.82	96.98
<i>TNFRSF11A</i>	NM_003839.4	122.00	95.89	94.92	90.99	83.78
<i>TNFRSF11B</i>	NM_002546.4	167.00	100.00	100.00	100.00	99.86

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>TNFSF11</i>	NM_003701.4	195.00	100.00	100.00	99.06	92.62
<i>TONSL</i>						
<i>TP63</i>	NM_003722.5	103.00	100.00	99.99	99.67	97.46
<i>TRAF3IP1</i>						
<i>TRAF7</i>						
<i>TRAIP</i>						
<i>TRAPPC2</i>	NM_001011658.4	74.00	100.00	99.88	96.33	78.12
<i>TREM2</i>	NM_018965.4	78.00	100.00	100.00	99.53	95.96
<i>TRIM37</i>	NM_015294.6	104.00	100.00	100.00	99.93	96.87
<i>TRIP11</i>	NM_004239.4	158.00	100.00	99.88	98.99	95.39
<i>TRIP13</i>						
<i>TRPS1</i>	NM_001330599.2	261.00	100.00	100.00	100.00	100.00
<i>TRPV4</i>	NM_021625.5	100.00	100.00	99.90	98.48	92.60
<i>TRPV6</i>						
<i>TTC21B</i>	NM_024753.5	118.00	100.00	100.00	99.98	99.86
<i>TTC8</i>						
<i>TTI2</i>						
<i>TWIST1</i>	NM_000474.4	71.00	95.32	84.83	77.64	71.43
<i>TYROBP</i>	NM_003332.4	82.00	99.77	93.34	77.52	72.25
<i>UBA2</i>						
<i>UFSP2</i>						
<i>UNC45A</i>						
<i>VAC14</i>						
<i>VDR</i>						
<i>VPS33A</i>						
<i>WBP11</i>						
<i>WDPCP</i>						
<i>WDR19</i>	NM_025132.4	117.00	100.00	99.98	99.82	97.86
<i>WDR34</i>	NM_052844.3	67.00	100.00	99.44	95.05	75.93
<i>WDR35</i>	NM_020779.4	113.00	100.00	99.81	99.08	96.97
<i>WDR60</i>						
<i>WNT1</i>	NM_005430.4	112.00	100.00	99.89	98.00	91.32
<i>WNT10B</i>	NM_003394.4	160.00	100.00	99.86	98.73	95.22
<i>WNT3</i>	NM_030753.5	140.00	100.00	99.48	96.50	90.79
<i>WNT5A</i>	NM_003392.4	144.00	99.99	99.55	99.25	98.33
<i>WNT6</i>	NM_006522.4	88.00	99.54	94.02	88.35	80.76
<i>WNT7A</i>	NM_004625.4	162.00	100.00	100.00	100.00	98.31
<i>XRCC4</i>						
<i>XYLT1</i>	NM_022166.4	97.00	97.23	93.15	88.92	83.11
<i>XYLT2</i>	NM_022167.4	104.00	94.95	94.73	94.13	90.37
<i>YY1</i>						
<i>ZBTB16</i>						
<i>ZC4H2</i>						

HGNC approved gene symbol	transcript	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
ZMPSTE24	NM_005857.5	113.00	100.00	100.00	100.00	99.70
ZNF687						
ZSWIM6						

Blank cells: no transcript, median depth and coverage numbers known yet