

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
ACAN	NM_013227	155760	88	88	87	85	79
ACPS5	NM_001111034	171640	121	100	99	98	97
ACVR1	NM_001105	102576	90	100	100	100	98
ADAMTS10	NM_030957	608990	80	100	100	98	94
ADAMTS17	NM_139057	607511	73	95	91	87	78
ADAMTSL2	NM_001145320	612277	0	4	4	4	4
AGA	NM_000027	613228	91	100	100	99	91
AGPS	NM_003659	603051	46	100	96	82	45
AKT1	NM_001014431	164730	96	100	100	98	97
ALPL	NM_001177520	171760	81	100	100	100	97
ALX1	NM_006982	601527	105	100	99	94	91
ALX3	NM_006492	606014	99	80	78	77	75
ALX4	NM_021926	605420	97	100	100	95	89
AMER1	NM_152424	300647	84	100	98	96	91
ANKH	NM_054027	605145	76	100	100	98	91
ANOS5	NM_001142649	608662	87	100	98	94	83
ANTXR2	NM_058172	608041	86	100	99	97	89
ARHGAP31	NM_020754	610911	118	100	99	97	88
ARSB	NM_000046	611542	71	100	97	92	84
ARSE	NM_001282631	300180	85	100	96	87	65
ATP6V0A2	NM_012463	611716	78	100	100	98	91
B3GALT6	NM_080605	615291	52	70	65	60	52
B4GALT7	NM_007255	604327	80	100	97	94	87
BHLHA9	NM_001164405	615416	19	75	49	37	32
BMP1	NM_006129	112264	103	100	100	100	98
BMP2	NM_001200	112261	120	100	100	98	97
BMPER	NM_133468	608699	85	100	99	96	84
BMPR1B	NM_001256793	603248	85	100	100	98	90
CA2	NM_000067	611492	86	100	100	100	93
CANT1	NM_001159772	613165	113	100	100	98	85
CASR	NM_001178065	601199	98	100	100	98	93
CC2D2A	NM_020785	612013	73	100	99	98	97
CCDC8	NM_032040	614145	124	100	100	100	100
CDC6	NM_001254	602627	101	100	100	98	98
CDH3	NM_001793	114021	103	100	100	97	94
CDKN1C	NM_000076	600856	63	85	77	70	63
CDT1	NM_030928	605525	81	99	98	97	95
CEP290	NM_025114	610142	49	96	85	69	49
CHST14	NM_130468	608429	115	99	97	95	94
CHST3	NM_004273	603799	130	100	100	98	86
CHSY1	NM_014918	608183	105	95	94	94	92

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<i>CKAP2L</i>	NM_152515	616174	107	100	99	98	93
<i>CLCN5</i>	NM_000084	300008	84	100	99	96	91
<i>CLCN7</i>	NM_001114331	602727	80	100	99	99	95
<i>COG1</i>	NM_018714	606973	76	100	100	99	95
<i>COL10A1</i>	NM_000493	120110	81	100	100	98	89
<i>COL11A1</i>	NM_080630	120280	67	98	95	92	78
<i>COL11A2</i>	NM_080679	120290	90	100	100	99	94
<i>COL1A1</i>	NM_000088	120150	98	100	99	99	96
<i>COL1A2</i>	NM_000089	120160	75	99	98	96	90
<i>COL2A1</i>	NM_033150	120140	90	100	100	99	95
<i>COL9A1</i>	NM_001851	120210	86	100	100	98	94
<i>COL9A2</i>	NM_001852	120260	72	100	99	95	84
<i>COL9A3</i>	NM_001853	120270	69	100	97	95	84
<i>COMP</i>	NM_000095	600310	82	98	98	97	96
<i>CREB3L1</i>	NM_052854	616215	101	100	100	98	96
<i>CREBBP</i>	NM_004380	600140	82	99	97	92	81
<i>CRTAP</i>	NM_006371	605497	85	100	99	96	87
<i>CTSA</i>	NM_001167594	613111	74	100	100	100	95
<i>CTSK</i>	NM_000396	601105	77	100	100	99	89
<i>CUL7</i>	NM_014780	609577	90	100	100	100	98
<i>DDR2</i>	NM_001014796	191311	79	100	100	98	84
<i>DHCR24</i>	NM_014762	606418	94	100	100	99	96
<i>DHODH</i>	NM_001361	126064	63	100	100	98	79
<i>DLL3</i>	NM_203486	602768	72	97	94	90	81
<i>DLX3</i>	NM_005220	600525	92	100	99	91	63
<i>DLX5</i>	NM_005221	600028	89	100	99	92	82
<i>DLX6</i>	NM_005222	600030	99	100	100	98	88
<i>DMP1</i>	NM_004407	600980	104	100	100	98	97
<i>DOCK6</i>	NM_020812	614194	85	100	99	96	90
<i>DVL1</i>	NM_004421	601365	84	100	99	97	94
<i>DYM</i>	NM_017653	607461	74	100	98	91	75
<i>DYNC2H1</i>	NM_001377	603297	74	99	93	81	66
<i>EBP</i>	NM_006579	300205	60	100	96	90	69
<i>EFNB1</i>	NM_004429	300035	89	100	100	100	99
<i>EFTUD2</i>	NM_001258353	603892	79	100	100	97	88
<i>EIF2AK3</i>	NM_004836	604032	91	98	95	91	84
<i>ENPP1</i>	NM_006208	173335	94	94	90	84	75
<i>EOGT</i>	NM_173654	614789	93	100	100	100	95
<i>EP300</i>	NM_001429	602700	113	100	99	98	96
<i>ERF</i>	NM_001301035	611888	113	100	100	100	94
<i>ESCO2</i>	NM_001017420	609353	95	100	97	92	85
<i>EVC</i>	NM_153717	604831	80	95	91	86	79
<i>EVC2</i>	NM_001166136	607261	78	100	99	95	83
<i>EXT1</i>	NM_000127	608177	69	100	98	94	83

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<i>EXT2</i>	NM_001178083	608210	75	100	99	97	87
<i>EZH2</i>	NM_001203249	601573	96	100	100	97	91
<i>FAM111A</i>	NM_001142519	615292	197	100	100	98	97
<i>FAM20C</i>	NM_020223	611061	80	100	100	100	96
<i>FAM58A</i>	NM_152274	NA	57	80	76	70	64
<i>FBLN1</i>	NM_006486	135820	86	100	98	97	93
<i>FBN1</i>	NM_000138	134797	90	100	100	99	95
<i>FBN2</i>	NM_001999	612570	90	100	100	99	94
<i>FERMT3</i>	NM_031471	607901	85	100	100	98	95
<i>FGF10</i>	NM_004465	602115	89	100	100	100	94
<i>FGF16</i>	NM_003868	300827	95	100	98	93	86
<i>FGF23</i>	NM_020638	605380	77	100	98	96	94
<i>FGF9</i>	NM_002010	600921	63	100	100	99	84
<i>FGFR1</i>	NM_001174067	136350	84	100	100	98	93
<i>FGFR2</i>	NM_000141	176943	90	100	99	97	87
<i>FGFR3</i>	NM_000142	134934	92	100	99	97	92
<i>FIG4</i>	NM_014845	609390	97	100	99	97	89
<i>FKBP10</i>	NM_021939	607063	126	100	98	96	91
<i>FLNA</i>	NM_001110556	300017	103	100	100	100	99
<i>FLNB</i>	NM_001164317	603381	83	100	100	97	90
<i>FUCA1</i>	NM_000147	612280	80	100	100	100	98
<i>FZD2</i>	NM_001466	600667	125	99	97	96	94
<i>GALNS</i>	NM_000512	612222	69	100	98	94	85
<i>GALNT3</i>	NM_004482	601756	83	100	99	95	77
<i>GDF3</i>	NM_020634	606522	103	100	100	100	100
<i>GDF5</i>	NM_000557	601146	136	100	100	100	99
<i>GDF6</i>	NM_001001557	601147	103	100	100	100	90
<i>GJA1</i>	NM_000165	121014	151	100	100	100	100
<i>GLB1</i>	NM_001135602	611458	73	100	95	90	81
<i>GLI3</i>	NM_000168	165240	92	100	99	97	89
<i>GNAS</i>	NM_016592	139320	163	100	100	100	100
<i>GNPAT</i>	NM_014236	602744	98	100	98	95	86
<i>GNPTAB</i>	NM_024312	607840	103	100	99	98	89
<i>GNPTG</i>	NM_032520	607838	144	100	99	99	98
<i>GNS</i>	NM_002076	607664	75	99	95	86	71
<i>GORAB</i>	NM_152281	607983	132	100	99	97	92
<i>GPC6</i>	NM_005708	604404	76	100	100	99	96
<i>GPX4</i>	NM_001039848	138322	134	100	98	97	94
<i>GUSB</i>	NM_000181	611499	62	82	81	78	67
<i>HDAC4</i>	NM_006037	605314	87	100	100	97	86
<i>HDAC8</i>	NM_001166418	300269	84	100	100	100	100
<i>HES7</i>	NM_032580	608059	56	84	73	62	59
<i>HGSNAT</i>	NM_152419	610453	75	96	95	92	76
<i>HOXA11</i>	NM_005523	142958	65	100	91	84	80

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<i>HOXA13</i>	NM_000522	142959	87	80	73	68	59
<i>HOXD13</i>	NM_000523	142989	138	100	100	97	95
<i>HPGD</i>	NM_001145816	601688	59	100	100	97	72
<i>HSPG2</i>	NM_001291860	142461	82	99	98	96	91
<i>ICK</i>	NM_014920	612325	79	100	99	96	93
<i>IDH1</i>	NM_001282386	147700	70	96	83	71	67
<i>IDH2</i>	NM_001290114	147650	79	100	100	99	92
<i>IDS</i>	NM_000202	300823	81	100	99	93	82
<i>IDUA</i>	NM_000203	252800	114	99	96	94	90
<i>IFITM5</i>	NM_001025295	614757	56	100	96	86	73
<i>IFT122</i>	NM_001280541	606045	83	100	99	96	88
<i>IFT140</i>	NM_014714	614620	90	100	99	96	88
<i>IFT172</i>	NM_015662	607386	74	100	100	98	92
<i>IFT43</i>	NM_001255995	614068	69	100	100	100	87
<i>IFT80</i>	NM_001190241	611177	53	98	86	71	53
<i>IHH</i>	NM_002181	600726	99	100	100	100	100
<i>IKBKKG</i>	NM_001099856	300248	0	2	2	2	1
<i>IL1RN</i>	NM_000577	147679	100	100	100	100	93
<i>IMPAD1</i>	NM_017813	614010	97	100	100	100	93
<i>INPPL1</i>	NM_001567	600829	90	100	99	97	96
<i>KAT6B</i>	NM_012330	605880	112	100	99	98	97
<i>KIF22</i>	NM_001256269	603213	173	100	100	100	99
<i>KIF7</i>	NM_198525	611254	73	96	91	85	76
<i>LBR</i>	NM_002296	600024	81	97	90	82	71
<i>LEMD3</i>	NM_001167614	607844	98	100	97	93	83
<i>LEPRE1</i>	NM_001146289	NA	77	100	100	100	99
<i>LFNG</i>	NM_002304	602576	94	100	100	100	98
<i>LIFR</i>	NM_001127671	151443	75	100	97	88	71
<i>LMBR1</i>	NM_022458	605522	83	100	98	93	82
<i>LMNA</i>	NM_170708	150330	66	99	96	91	79
<i>LMX1B</i>	NM_002316	602575	86	100	97	91	76
<i>LONP1</i>	NM_001276480	605490	86	100	100	100	97
<i>LPIN2</i>	NM_014646	605519	73	100	100	96	82
<i>LRP4</i>	NM_002334	604270	85	100	99	98	92
<i>LRP5</i>	NM_001291902	603506	97	100	100	99	98
<i>LTBP2</i>	NM_000428	602091	75	100	99	97	92
<i>MAFB</i>	NM_005461	608968	106	100	99	96	93
<i>MAN2B1</i>	NM_000528	609458	96	100	99	96	92
<i>MANBA</i>	NM_005908	609489	77	100	99	95	80
<i>MATN3</i>	NM_002381	602109	60	87	86	84	71
<i>MEGF8</i>	NM_001271938	604267	81	100	99	96	89
<i>MEOX1</i>	NM_001040002	600147	72	100	100	100	75
<i>MESP2</i>	NM_001039958	605195	86	100	95	92	88
<i>MGP</i>	NM_001190839	154870	89	100	96	96	86

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<i>MKS1</i>	NM_017777	609883	89	100	99	97	90
<i>MMP13</i>	NM_002427	600108	98	100	100	99	94
<i>MMP2</i>	NM_004530	120360	82	100	100	100	94
<i>MMP9</i>	NM_004994	120361	96	100	99	96	93
<i>MNX1</i>	NM_001165255	142994	71	100	100	96	79
<i>MSX2</i>	NM_002449	123101	92	100	100	96	82
<i>MYCN</i>	NM_001293231	164840	113	100	100	99	94
<i>NAGLU</i>	NM_000263	609701	76	96	93	92	87
<i>NEK1</i>	NM_001199397	604588	71	100	98	92	79
<i>NEU1</i>	NM_000434	608272	108	100	99	96	94
<i>NF1</i>	NM_001042492	613113	82	94	92	90	81
<i>NFIX</i>	NM_001271043	164005	117	100	100	99	94
<i>NIPBL</i>	NM_133433	608667	82	98	95	90	77
<i>NKX3-2</i>	NM_001189	602183	64	100	98	93	86
<i>NLRP3</i>	NM_183395	606416	114	100	100	98	91
<i>NOG</i>	NM_005450	602991	146	100	100	100	100
<i>NOTCH2</i>	NM_001200001	600275	82	100	100	98	91
<i>NPPC</i>	NM_024409	600296	89	100	100	97	86
<i>NPR2</i>	NM_003995	108961	95	100	100	99	96
<i>NSD1</i>	NM_172349	606681	121	100	100	99	96
<i>NSDHL</i>	NM_001129765	300275	94	100	100	96	91
<i>OBSL1</i>	NM_001173408	610991	89	100	100	100	98
<i>OFD1</i>	NM_003611	300170	50	89	77	68	50
<i>ORC1</i>	NM_001190818	601902	73	100	98	92	77
<i>ORC4</i>	NM_001190879	603056	47	99	91	76	43
<i>ORC6</i>	NM_014321	607213	86	100	100	100	90
<i>OSTM1</i>	NM_014028	607649	93	92	90	83	60
<i>P4HB</i>	NM_000918	176790	79	100	100	97	93
<i>PAM16</i>	NM_016069	614336	60	100	100	98	81
<i>PAPSS2</i>	NM_004670	603005	79	100	99	96	84
<i>PCNT</i>	NM_006031	605925	77	100	97	93	84
<i>PCYT1A</i>	NM_005017	123695	69	99	96	91	87
<i>PDE3A</i>	NM_000921	123805	85	100	99	96	88
<i>PDE4D</i>	NM_001197218	600129	84	100	100	98	89
<i>PEX7</i>	NM_000288	601757	83	100	96	91	83
<i>PEX</i>	NM_000444	300550	83	100	99	98	93
<i>PIGV</i>	NM_017837	610274	107	100	100	100	99
<i>PIK3CA</i>	NM_006218	171834	75	100	100	99	93
<i>PITX1</i>	NM_002653	602149	105	98	94	91	83
<i>PLEKHM1</i>	NM_014798	611466	97	100	99	96	92
<i>PLOD2</i>	NM_000935	601865	78	100	97	92	78
<i>PLS3</i>	NM_001282338	300131	83	100	100	99	91
<i>POLR1C</i>	NM_203290	610060	76	100	99	98	97
<i>POLR1D</i>	NM_001206559	613715	109	100	100	100	100

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<i>POP1</i>	NM_001145860	602486	93	100	100	98	88
<i>POR</i>	NM_000941	124015	106	100	100	99	96
<i>PPIB</i>	NM_000942	123841	64	100	100	100	93
<i>PRKAR1A</i>	NM_001278433	188830	62	98	90	83	64
<i>PTDSS1</i>	NM_001290225	612792	93	100	100	100	86
<i>PTH1R</i>	NM_000316	168468	82	100	100	98	93
<i>PTHLH</i>	NM_002820	168470	121	100	100	100	100
<i>PTPN11</i>	NM_002834	176876	82	99	94	88	77
<i>PYCR1</i>	NM_153824	179035	65	100	98	93	74
<i>RAB23</i>	NM_001278666	606144	81	100	100	93	72
<i>RAB33B</i>	NM_031296	605950	157	100	100	100	100
<i>RAD21</i>	NM_006265	606462	60	98	94	84	63
<i>RASGRP2</i>	NM_001098670	605577	70	100	99	95	82
<i>RBM8A</i>	NM_005105	605313	79	100	100	99	95
<i>RBPJ</i>	NM_005349	147183	100	97	90	81	69
<i>RECQL4</i>	NM_004260	603780	118	100	100	99	97
<i>RMRP</i>	NA	NA	NA	NA	NA	NA	NA
<i>ROR2</i>	NM_004560	602337	96	100	100	99	94
<i>RPGRIP1L</i>	NM_001127897	610937	85	100	98	92	80
<i>RUNX2</i>	NM_001015051	600211	86	100	100	100	99
<i>SALL1</i>	NM_001127892	602218	111	100	100	98	91
<i>SALL4</i>	NM_020436	607343	104	100	97	95	92
<i>SBDS</i>	NM_016038	607444	110	100	100	100	98
<i>SEC24D</i>	NM_014822	607186	77	100	100	97	87
<i>SERPINF1</i>	NM_002615	172860	71	100	99	93	81
<i>SERPINH1</i>	NM_001207014	600943	118	100	100	99	97
<i>SETD2</i>	NM_014159	612778	100	100	100	99	94
<i>SF3B4</i>	NM_005850	605593	72	100	99	91	83
<i>SGSH</i>	NM_000199	605270	95	96	95	93	90
<i>SH3BP2</i>	NM_001122681	602104	89	100	100	100	95
<i>SH3PXD2B</i>	NM_001017995	613293	98	100	100	98	87
<i>SHOX</i>	NM_000451	312865	0	0	0	0	0
<i>SKI</i>	NM_003036	164780	84	100	98	93	90
<i>SLC17A5</i>	NM_012434	604322	82	100	96	95	89
<i>SLC26A2</i>	NM_000112	606718	151	100	100	100	99
<i>SLC29A3</i>	NM_018344	612373	108	99	99	97	95
<i>SLC34A3</i>	NM_001177316	609826	96	100	98	96	93
<i>SLC35D1</i>	NM_015139	610804	106	100	97	90	78
<i>SLC39A13</i>	NM_001128225	608735	105	100	100	96	92
<i>SLCO5A1</i>	NM_030958	613543	114	100	99	96	94
<i>SMAD3</i>	NM_001145102	603109	93	100	100	98	87
<i>SMAD4</i>	NM_005359	600993	77	100	100	98	95
<i>SMARCAL1</i>	NM_014140	606622	79	100	100	97	93
<i>SMC1A</i>	NM_001281463	300040	76	100	100	98	93

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<i>SMC3</i>	NM_005445	606062	68	98	91	83	66
<i>SNRPB</i>	NM_198216	182282	65	100	100	97	88
<i>SNX10</i>	NM_001199838	614780	91	100	100	100	100
<i>SOST</i>	NM_025237	605740	114	100	100	96	90
<i>SOX9</i>	NM_000346	608160	100	100	100	98	92
<i>SP7</i>	NM_001300837	606633	109	100	100	100	100
<i>SULF1</i>	NM_001128204	610012	86	100	100	99	98
<i>SUMF1</i>	NM_182760	607939	73	100	98	91	79
<i>Skeletafwijkingen</i>	NA	NA	NA	NA	NA	NA	NA
<i>TBCE</i>	NM_001079515	604934	80	100	100	99	95
<i>TBX15</i>	NM_152380	604127	81	100	100	100	93
<i>TBX3</i>	NM_016569	601621	77	100	97	92	76
<i>TBX4</i>	NM_018488	601719	100	99	98	96	93
<i>TBX5</i>	NM_000192	601620	84	100	100	100	100
<i>TBX6</i>	NM_004608	602427	141	100	97	93	82
<i>TBXAS1</i>	NM_001130966	274180	82	100	100	100	96
<i>TCF12</i>	NM_003205	600480	79	100	100	100	95
<i>TCIRG1</i>	NM_006053	604592	114	100	99	96	92
<i>TCOF1</i>	NM_000356	606847	89	100	99	98	92
<i>TCTN3</i>	NM_001143973	613847	80	100	100	100	96
<i>TGDS</i>	NM_014305	616146	64	100	95	83	60
<i>TGFB1</i>	NM_000660	190180	78	100	98	91	77
<i>TGFB2</i>	NM_001135599	190220	90	100	100	99	97
<i>TGFBR1</i>	NM_004612	190181	94	92	92	92	92
<i>TGFBR2</i>	NM_001024847	190182	95	100	100	100	100
<i>THPO</i>	NM_001289997	600044	80	100	100	99	91
<i>TMEM216</i>	NM_001173991	613277	69	100	97	93	80
<i>TMEM38B</i>	NM_018112	611236	73	100	100	90	78
<i>TMEM67</i>	NM_001142301	609884	57	99	92	80	63
<i>TNFRSF11A</i>	NM_001278268	603499	92	94	93	90	87
<i>TNFRSF11B</i>	NM_002546	602643	118	100	100	100	100
<i>TNFSF11</i>	NM_033012	602642	114	100	100	100	100
<i>TP63</i>	NM_001114978	603273	96	100	100	100	100
<i>TRAPPC2</i>	NM_001128835	300202	72	95	79	70	59
<i>TREM2</i>	NM_001271821	605086	91	100	100	100	100
<i>TRIP11</i>	NM_004239	604505	82	97	89	79	63
<i>TRPS1</i>	NM_001282902	604386	128	100	100	100	100
<i>TRPV4</i>	NM_001177431	605427	77	100	100	99	96
<i>TTC21B</i>	NM_024753	612014	78	100	99	95	83
<i>TWIST1</i>	NM_000474	601622	125	100	91	83	66
<i>TYROBP</i>	NM_001173514	604142	63	100	100	100	89
<i>WDR19</i>	NM_025132	608151	81	100	99	95	86
<i>WDR34</i>	NM_052844	613363	65	100	100	98	86
<i>WDR35</i>	NM_001006657	613602	85	100	99	97	87

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>WISP3</i>	NM_003880	603400	74	100	100	100	100
<i>WNT1</i>	NM_005430	164820	159	100	100	93	93
<i>WNT10B</i>	NM_003394	601906	124	100	100	100	99
<i>WNT3</i>	NM_030753	165330	104	100	98	94	82
<i>WNT5A</i>	NM_001256105	164975	100	100	100	100	96
<i>WNT6</i>	NM_006522	604663	81	100	99	93	77
<i>WNT7A</i>	NM_004625	601570	116	100	100	100	98
<i>XYLT1</i>	NM_022166	608124	83	97	91	89	83
<i>XYLT2</i>	NM_022167	608125	109	100	98	96	95
<i>ZMPSTE24</i>	NM_005857	606480	75	100	100	98	90