

## Exome

## Gene panel Intellectual Disability , version 1, 18-2-2018

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
AAAS	NM_001173466	605378	93	100	100	99	95
AARS	NM_001605	601065	74	100	100	97	87
AARS2	NM_020745	612035	89	100	100	99	95
AASS	NM_005763	605113	92	100	100	98	91
ABCB11	NM_003742	603201	89	100	100	98	93
ABCB6	NM_005689	605452	95	100	100	99	95
ABCB7	NM_001271696	300135	99	100	100	98	95
ABCC6	NM_001171	603234	59	71	70	66	56
ABCC9	NM_005691	601439	94	100	100	98	93
ABCD1	NM_000033	300371	77	74	71	68	63
ABCD4	NM_005050	603214	92	100	99	98	89
ABHD5	NM_016006	604780	98	100	100	100	100
ABL1	NM_005157	189980	113	100	100	99	95
ACAD9	NM_014049	611103	82	100	99	98	97
ACADM	NM_001286043	607008	76	100	100	98	86
ACADS	NM_001302554	606885	98	100	100	99	99
ACADVL	NM_001270448	609575	98	100	99	98	95
ACAN	NM_013227	155760	88	88	87	85	79
ACAT1	NM_000019	607809	80	100	98	90	78
ACBD6	NM_032360	616352	83	100	99	87	71
ACO2	NM_001098	100850	114	97	93	88	79
ACOX1	NM_007292	609751	118	100	100	99	95
ACP5	NM_001111034	171640	121	100	99	98	97
ACSF3	NM_001127214	614245	85	100	100	98	92
ACSL4	NM_004458	300157	71	99	95	88	76
ACTA1	NM_001100	102610	69	100	98	92	87
ACTA2	NM_001141945	102620	64	100	99	95	79
ACTB	NM_001101	102630	81	100	100	99	97
ACTG1	NM_001199954	102560	75	100	100	100	100
ACTL6B	NM_016188	612458	89	100	100	100	97
ACVR1	NM_001105	102576	90	100	100	100	98
ACVR2B	NM_001106	602730	69	100	96	93	86
ACY1	NM_001198898	104620	92	100	100	99	97
ADA	NM_000022	608958	94	100	100	96	83
ADAM22	NM_021723	603709	78	100	100	97	94
ADAMTS10	NM_030957	608990	80	100	100	98	94
ADAMTS18	NM_199355	607512	84	100	100	99	94
ADAR	NM_001111	146920	86	100	100	98	91
ADCK3	NM_020247	NA	86	100	100	99	92
ADK	NM_001123	102750	74	100	99	92	74
ADNP	NM_001282531	611386	153	100	100	100	96
ADRA2B	NM_000682	104260	146	100	100	100	100

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<i>ADSL</i>	NM_001123378	608222	93	100	100	99	95
<i>AFF2</i>	NM_001169123	300806	86	100	99	97	90
<i>AFF3</i>	NM_001025108	601464	83	97	97	94	88
<i>AFF4</i>	NM_014423	604417	82	100	99	94	83
<i>AFG3L2</i>	NM_006796	604581	80	96	90	83	68
<i>AGA</i>	NM_000027	613228	91	100	100	99	91
<i>AGK</i>	NM_018238	610345	82	100	97	92	87
<i>AGL</i>	NM_000646	610860	90	100	100	98	91
<i>AGO2</i>	NM_012154	606229	68	88	88	86	81
<i>AGPS</i>	NM_003659	603051	46	100	96	82	45
<i>AGTR2</i>	NM_000686	300034	139	100	100	100	100
<i>AGXT</i>	NM_000030	604285	107	100	100	100	94
<i>AHDC1</i>	NM_001029882	615790	112	99	96	91	86
<i>AHI1</i>	NM_001134830	608894	81	100	97	90	78
<i>AIFM1</i>	NM_001130847	300169	91	100	100	98	93
<i>AIMP1</i>	NM_001142416	603605	69	100	96	86	69
<i>AIPL1</i>	NM_001285403	604392	83	100	100	100	97
<i>AIRE</i>	NM_000383	607358	66	100	99	92	77
<i>AK2</i>	NM_001199199	103020	81	100	99	96	89
<i>AKR1D1</i>	NM_005989	604741	68	99	95	91	81
<i>AKT1</i>	NM_001014431	164730	96	100	100	98	97
<i>AKT3</i>	NM_005465	611223	66	100	95	85	64
<i>ALAD</i>	NM_000031	125270	69	100	96	93	89
<i>ALDH18A1</i>	NM_001017423	138250	87	100	100	99	94
<i>ALDH1A3</i>	NM_000693	600463	74	100	100	97	86
<i>ALDH3A2</i>	NM_000382	609523	82	100	99	94	83
<i>ALDH4A1</i>	NM_003748	606811	77	100	99	96	81
<i>ALDH5A1</i>	NM_001080	610045	68	98	90	84	74
<i>ALDH7A1</i>	NM_001182	107323	70	99	93	82	69
<i>ALDOA</i>	NM_000034	103850	118	100	100	99	99
<i>ALDOB</i>	NM_000035	612724	91	100	99	97	89
<i>ALG1</i>	NM_019109	605907	0	31	30	28	24
<i>ALG11</i>	NM_001004127	613666	99	100	99	97	96
<i>ALG12</i>	NM_024105	607144	141	100	100	100	99
<i>ALG13</i>	NM_001039210	300776	80	100	100	96	82
<i>ALG2</i>	NM_033087	607905	80	100	100	100	100
<i>ALG3</i>	NM_001006941	608750	89	100	100	99	99
<i>ALG6</i>	NM_013339	604566	62	99	95	86	60
<i>ALG8</i>	NM_024079	608103	83	100	100	98	89
<i>ALG9</i>	NM_001077691	606941	81	100	100	99	96
<i>ALMS1</i>	NM_015120	606844	151	100	100	99	96
<i>ALPL</i>	NM_001177520	171760	81	100	100	100	97
<i>ALS2</i>	NM_001135745	606352	105	100	100	100	85
<i>ALX1</i>	NM_006982	601527	105	100	99	94	91
<i>ALX3</i>	NM_006492	606014	99	80	78	77	75

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<i>ALX4</i>	NM_021926	605420	97	100	100	95	89
<i>AMER1</i>	NM_152424	300647	84	100	98	96	91
<i>AMPD2</i>	NM_139156	102771	88	100	100	99	97
<i>AMT</i>	NM_000481	238310	95	100	100	100	97
<i>ANK3</i>	NM_020987	600465	106	100	100	99	94
<i>ANKH</i>	NM_054027	605145	76	100	100	98	91
<i>ANKRD11</i>	NM_001256182	611192	92	97	95	92	86
<i>ANKRD26</i>	NM_001256053	610855	51	97	87	71	51
<i>ANOS5</i>	NM_001142649	608662	87	100	98	94	83
<i>ANTXR1</i>	NM_018153	606410	81	100	100	100	93
<i>AP1S1</i>	NM_001283	603531	64	100	99	98	95
<i>AP1S2</i>	NM_003916	300629	60	82	78	75	69
<i>AP3B1</i>	NM_003664	603401	73	100	95	87	70
<i>AP3B2</i>	NM_001278512	602166	86	99	98	96	91
<i>AP4B1</i>	NM_001253853	607245	96	100	100	99	95
<i>AP4E1</i>	NM_007347	607244	71	100	99	95	80
<i>AP4M1</i>	NM_004722	602296	89	100	100	98	97
<i>AP4S1</i>	NM_007077	607243	68	100	100	97	86
<i>APOA1BP</i>	NM_144772	NA	65	100	98	94	80
<i>APOPT1</i>	NM_032374	616003	63	100	99	95	83
<i>APTX</i>	NM_001195250	606350	79	95	94	89	81
<i>AR</i>	NM_001011645	313700	62	100	98	93	77
<i>ARCN1</i>	NM_001655	600820	89	100	100	100	95
<i>ARFGEF2</i>	NM_006420	605371	86	100	100	98	93
<i>ARG1</i>	NM_000045	608313	96	100	100	100	100
<i>ARHGAP31</i>	NM_020754	610911	118	100	99	97	88
<i>ARHGEF6</i>	NM_004840	300267	86	100	98	95	86
<i>ARHGEF9</i>	NM_001173479	300429	54	100	97	91	59
<i>ARID1A</i>	NM_006015	603024	107	99	97	94	91
<i>ARID1B</i>	NM_020732	614556	93	100	98	95	87
<i>ARID2</i>	NM_152641	609539	130	100	98	94	88
<i>ARL13B</i>	NM_001174151	608922	73	100	100	96	83
<i>ARL14EP</i>	NM_152316	612295	89	100	100	100	94
<i>ARL6</i>	NM_001278293	608845	71	100	99	90	63
<i>ARMC4</i>	NM_001290020	615408	70	94	93	91	82
<i>ARMC9</i>	NM_001271466	617612	79	100	100	97	92
<i>ARSA</i>	NM_001085428	607574	81	100	100	100	98
<i>ARSB</i>	NM_000046	611542	71	100	97	92	84
<i>ARSE</i>	NM_001282631	300180	85	100	96	87	65
<i>ARX</i>	NM_139058	300382	32	85	77	55	30
<i>ASAH1</i>	NM_001127505	613468	100	100	100	98	92
<i>ASCC1</i>	NM_001198798	614215	97	100	100	100	89
<i>ASCC3</i>	NM_006828	614217	83	100	98	93	83
<i>ASCL1</i>	NM_004316	100790	195	100	100	95	80
<i>ASH1L</i>	NM_018489	607999	112	100	100	99	92

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<i>ASL</i>	NM_000048	608310	67	100	99	98	94
<i>ASPA</i>	NM_001128085	608034	85	100	95	86	78
<i>ASPH</i>	NM_020164	600582	97	100	100	97	89
<i>ASPM</i>	NM_018136	605481	85	100	97	90	74
<i>ASS1</i>	NM_000050	603470	102	98	94	90	85
<i>ASXL1</i>	NM_015338	612990	109	100	99	97	90
<i>ASXL2</i>	NM_018263	612991	111	99	98	98	97
<i>ASXL3</i>	NM_030632	615115	113	100	99	99	95
<i>ATAD3A</i>	NM_001170536	612316	66	99	94	86	71
<i>ATIC</i>	NM_004044	601731	76	100	99	98	90
<i>ATM</i>	NM_000051	607585	79	100	97	88	76
<i>ATOH7</i>	NM_145178	609875	114	86	83	80	73
<i>ATP13A2</i>	NM_001141973	610513	82	100	100	99	94
<i>ATP1A2</i>	NM_000702	182340	112	100	100	99	97
<i>ATP1A3</i>	NM_001256214	182350	99	100	100	100	99
<i>ATP2A2</i>	NM_001681	108740	91	100	100	99	98
<i>ATP6AP2</i>	NM_005765	300556	31	93	67	52	38
<i>ATP6V0A2</i>	NM_012463	611716	78	100	100	98	91
<i>ATP6V1B1</i>	NM_001692	192132	96	100	100	100	98
<i>ATP6V1B2</i>	NM_001693	606939	77	100	100	97	89
<i>ATP7A</i>	NM_000052	300011	88	100	99	95	84
<i>ATP8A2</i>	NM_016529	605870	76	100	100	98	87
<i>ATP8B1</i>	NM_005603	602397	83	97	96	94	86
<i>ATR</i>	NM_001184	601215	84	100	99	95	82
<i>ATRX</i>	NM_138270	300032	74	99	97	90	73
<i>AUH</i>	NM_001698	600529	77	100	100	99	84
<i>AUTS2</i>	NM_015570	607270	89	99	97	94	90
<i>AXIN1</i>	NM_003502	603816	81	99	98	96	90
<i>B3GALNT2</i>	NM_152490	610194	70	100	99	97	85
<i>B3GALT6</i>	NM_080605	615291	52	70	65	60	52
<i>B3GALT1L</i>	NM_194318	NA	65	100	97	91	75
<i>B3GNT1</i>	NM_006876	NA	93	100	100	99	95
<i>B4GALT1</i>	NM_001497	137060	76	100	99	97	89
<i>B4GALT7</i>	NM_007255	604327	80	100	97	94	87
<i>B9D1</i>	NM_001243473	614144	79	100	100	99	93
<i>B9D2</i>	NM_030578	611951	67	100	100	100	100
<i>BANF1</i>	NM_001143985	603811	52	98	81	66	52
<i>BBS1</i>	NM_024649	209901	91	100	100	100	97
<i>BBS10</i>	NM_024685	610148	128	100	100	99	97
<i>BBS12</i>	NM_001178007	610683	135	100	100	100	100
<i>BBS2</i>	NM_031885	606151	100	100	100	99	99
<i>BBS4</i>	NM_001252678	600374	95	100	100	98	87
<i>BBS5</i>	NM_152384	603650	88	100	95	83	64
<i>BBS7</i>	NM_018190	607590	99	99	96	92	86
<i>BBS9</i>	NM_198428	607968	87	99	97	93	81

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<i>BCAP31</i>	NM_001139457	300398	58	97	88	78	65
<i>BCKDHA</i>	NM_000709	608348	112	100	100	99	98
<i>BCKDHB</i>	NM_000056	248611	83	98	90	87	75
<i>BCL11A</i>	NM_022893	606557	101	98	98	98	97
<i>BCOR</i>	NM_001123383	300485	82	99	97	93	84
<i>BCS1L</i>	NM_001079866	603647	96	100	100	100	99
<i>BFSP2</i>	NM_003571	603212	79	100	98	92	73
<i>BGN</i>	NM_001711	301870	91	100	100	99	98
<i>BHLHA9</i>	NM_001164405	615416	19	75	49	37	32
<i>BICD2</i>	NM_001003800	609797	97	100	99	98	93
<i>BIN1</i>	NM_004305	601248	77	100	100	98	94
<i>BLM</i>	NM_001287248	604610	76	100	98	91	81
<i>BLOC1S6</i>	NM_012388	604310	79	100	96	91	80
<i>BMP1</i>	NM_006129	112264	103	100	100	100	98
<i>BMP2</i>	NM_001200	112261	120	100	100	98	97
<i>BMP4</i>	NM_001202	112262	108	100	100	100	100
<i>BMPER</i>	NM_133468	608699	85	100	99	96	84
<i>BMPR1B</i>	NM_001256793	603248	85	100	100	98	90
<i>BOLA3</i>	NM_212552	613183	55	100	90	82	59
<i>BPIFB6</i>	NM_174897	614110	87	100	100	98	93
<i>BPTF</i>	NM_004459	601819	113	97	95	93	90
<i>BRAF</i>	NM_004333	164757	51	94	84	72	51
<i>BRAT1</i>	NM_152743	614506	112	100	99	95	87
<i>BRCA1</i>	NM_007297	113705	105	100	100	98	94
<i>BRCA2</i>	NM_000059	600185	76	100	99	96	90
<i>BRIP1</i>	NM_032043	605882	93	100	99	94	77
<i>BRPF1</i>	NM_004634	602410	86	100	100	100	98
<i>BRWD3</i>	NM_153252	300553	77	99	97	92	82
<i>BSND</i>	NM_057176	606412	103	100	100	98	93
<i>BTD</i>	NM_001281723	609019	106	100	100	100	100
<i>BUB1B</i>	NM_001211	602860	86	100	99	97	90
<i>C10orf2</i>	NM_001163812	NA	139	100	100	100	99
<i>C12orf4</i>	NM_020374	616082	89	100	99	95	82
<i>C12orf57</i>	NM_001301838	615140	80	100	100	100	100
<i>C12orf65</i>	NM_152269	613541	77	100	100	96	92
<i>C1QBP</i>	NM_001212	601269	82	95	88	83	76
<i>C21orf2</i>	NM_001271441	603191	78	100	100	98	96
<i>C21orf59</i>	NM_021254	NA	76	100	97	93	90
<i>C2CD3</i>	NM_015531	615944	82	100	99	98	90
<i>C2orf71</i>	NM_001029883	613425	96	100	98	96	90
<i>C4orf26</i>	NM_001206981	NA	141	100	100	100	100
<i>C5orf42</i>	NM_023073	614571	75	100	98	94	85
<i>C8orf37</i>	NM_177965	614477	83	100	100	98	90
<i>CA2</i>	NM_000067	611492	86	100	100	100	93
<i>CA5A</i>	NM_001739	114761	74	100	98	89	81

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CA8	NM_004056	114815	74	100	97	96	89
CACNA1A	NM_000068	601011	67	99	98	95	83
CACNA1C	NM_001129827	114205	89	100	99	98	91
CACNA1D	NM_001128840	114206	88	100	100	99	95
CACNA1G	NM_001256327	604065	87	100	100	98	93
CACNA1H	NM_021098	607904	89	99	97	94	89
CACNB4	NM_001005747	601949	74	100	100	99	94
CACNG2	NM_006078	602911	81	100	100	98	96
CAMK2A	NM_015981	114078	72	100	100	99	89
CAMK2B	NM_172083	607707	75	100	100	99	95
CAMTA1	NM_015215	611501	105	100	99	98	94
CAPN10	NM_023083	605286	71	100	100	98	90
CAPRIN1	NM_203364	601178	108	100	99	96	90
CARS2	NM_024537	612800	82	100	100	98	91
CASC5	NM_144508	NA	78	98	95	91	81
CASK	NM_003688	300172	70	100	97	90	76
CASP2	NM_032983	600639	79	100	100	100	100
CAV1	NM_001753	601047	123	100	100	100	98
CBL	NM_005188	165360	94	100	100	97	92
CBS	NM_000071	613381	77	100	97	93	85
CC2D1A	NM_017721	610055	120	100	99	98	95
CC2D2A	NM_020785	612013	73	100	99	98	97
CCBE1	NM_133459	612753	74	100	98	90	76
CCDC103	NM_001258397	614677	95	100	100	100	84
CCDC114	NM_144577	615038	90	100	100	99	95
CCDC115	NM_032357	613734	60	92	91	88	77
CCDC151	NM_145045	615956	75	100	100	99	98
CCDC22	NM_014008	300859	74	99	97	94	88
CCDC39	NM_181426	613798	53	100	94	83	57
CCDC40	NM_017950	613799	78	100	99	97	89
CCDC41	NA	NA	NA	NA	NA	NA	NA
CCDC65	NM_033124	611088	67	100	99	94	79
CCDC78	NM_001031737	614666	85	100	100	100	100
CCDC8	NM_032040	614145	124	100	100	100	100
CCDC88A	NM_001254943	609736	74	99	94	85	71
CCDC88C	NM_001080414	611204	66	100	99	95	80
CCNA2	NM_001237	123835	94	100	100	100	96
CCND2	NM_001759	123833	83	100	100	100	99
CCNO	NM_021147	607752	80	100	99	95	90
CD151	NM_001039490	602243	102	100	100	100	90
CD96	NM_198196	606037	88	100	100	99	96
CDC45	NM_003504	603465	84	100	99	99	99
CDC6	NM_001254	602627	101	100	100	98	98
CDH1	NM_004360	192090	80	100	100	98	93
CDH15	NM_004933	114019	97	100	99	96	85

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<i>CDH23</i>	NM_001171932	605516	97	100	100	100	98
<i>CDH3</i>	NM_001793	114021	103	100	100	97	94
<i>CDK10</i>	NM_052987	603464	72	100	100	100	96
<i>CDK13</i>	NM_003718	603309	109	100	95	89	79
<i>CDK16</i>	NM_033018	311550	86	100	100	99	96
<i>CDK5RAP2</i>	NM_018249	608201	78	100	99	95	83
<i>CDKL5</i>	NM_003159	300203	85	100	99	96	90
<i>CDKN1C</i>	NM_000076	600856	63	85	77	70	63
<i>CDON</i>	NM_001243597	608707	85	100	99	96	89
<i>CDT1</i>	NM_030928	605525	81	99	98	97	95
<i>CENPJ</i>	NM_018451	609279	105	100	99	96	89
<i>CEP104</i>	NM_014704	616690	71	100	100	98	85
<i>CEP135</i>	NM_025009	611423	61	99	93	82	62
<i>CEP152</i>	NM_001194998	613529	91	100	97	94	87
<i>CEP290</i>	NM_025114	610142	49	96	85	69	49
<i>CEP41</i>	NM_001257158	610523	71	100	100	95	83
<i>CEP57</i>	NM_014679	607951	65	100	96	88	69
<i>CEP63</i>	NM_001042400	614724	77	100	97	95	83
<i>CFC1</i>	NM_001270421	605194	0	10	9	8	8
<i>CFL2</i>	NM_001243645	601443	100	100	100	93	85
<i>CHAMP1</i>	NM_001164144	616327	156	100	100	100	100
<i>CHD2</i>	NM_001042572	602119	98	100	100	100	94
<i>CHD4</i>	NM_001297553	603277	93	100	100	100	97
<i>CHD7</i>	NM_017780	608892	90	100	100	98	92
<i>CHD8</i>	NM_001170629	610528	100	100	100	99	96
<i>CHM</i>	NM_000390	300390	77	100	95	85	74
<i>CHMP1A</i>	NM_001083314	164010	84	100	100	99	96
<i>CHRDL1</i>	NM_001143981	300350	74	100	100	98	92
<i>CHRNA1</i>	NM_001039523	100690	74	100	100	97	89
<i>CHRNA2</i>	NM_000742	118502	115	100	100	100	99
<i>CHRNA4</i>	NM_001256573	118504	105	100	100	98	85
<i>CHRN2</i>	NM_000748	118507	76	100	98	95	90
<i>CHRNA2</i>	NM_001256657	100720	131	100	100	99	98
<i>CHRNA2</i>	NM_005199	100730	90	100	100	99	93
<i>CHST14</i>	NM_130468	608429	115	99	97	95	94
<i>CHST3</i>	NM_004273	603799	130	100	100	98	86
<i>CHSY1</i>	NM_014918	608183	105	95	94	94	92
<i>CHUK</i>	NM_001278	600664	84	100	100	97	93
<i>CIB2</i>	NM_006383	605564	94	100	100	98	97
<i>CIC</i>	NM_015125	612082	87	100	100	99	95
<i>CIRH1A</i>	NM_032830	NA	86	100	100	100	99
<i>CISD2</i>	NM_001008388	611507	0	23	23	23	23
<i>CIT</i>	NM_001206999	605629	71	100	98	94	85
<i>CKAP2L</i>	NM_152515	616174	107	100	99	98	93
<i>CLCN4</i>	NM_001830	302910	76	100	100	98	91



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>CLCN7</i>	NM_001114331	602727	80	100	99	99	95
<i>CLCNKA</i>	NM_001042704	602024	80	100	98	93	85
<i>CLCNKB</i>	NM_000085	602023	71	100	98	92	81
<i>CLDN19</i>	NM_148960	610036	131	100	96	93	88
<i>CLIC2</i>	NM_001289	300138	57	100	100	95	73
<i>CLMP</i>	NM_024769	611693	60	100	100	96	81
<i>CLN3</i>	NM_001286105	607042	131	100	100	99	95
<i>CLN5</i>	NM_006493	608102	89	100	97	94	88
<i>CLN6</i>	NM_017882	606725	83	100	100	96	83
<i>CLN8</i>	NM_018941	607837	134	100	100	100	100
<i>CLP1</i>	NM_001142597	608757	93	100	100	100	100
<i>CLPB</i>	NM_001258393	616254	73	100	100	99	93
<i>CLPP</i>	NM_006012	601119	87	100	99	95	93
<i>CLTC</i>	NM_001288653	118955	103	100	100	99	98
<i>CNKSRI</i>	NM_001297648	603272	73	100	100	100	98
<i>CNKSRI2</i>	NM_001168648	300724	75	100	95	89	80
<i>CNOT2</i>	NM_014515	604909	87	100	100	99	89
<i>CNOT3</i>	NM_014516	604910	83	100	100	99	94
<i>CNTNAP1</i>	NM_003632	602346	103	100	99	98	95
<i>CNTNAP2</i>	NM_014141	604569	83	100	100	98	94
<i>COA5</i>	NM_001008215	613920	84	100	100	98	60
<i>COASY</i>	NM_001042529	609855	94	100	100	100	100
<i>COG1</i>	NM_018714	606973	76	100	100	99	95
<i>COG4</i>	NM_015386	606976	70	100	100	98	86
<i>COG5</i>	NM_181733	606821	84	100	97	92	83
<i>COG7</i>	NM_153603	606978	76	100	100	98	91
<i>COG8</i>	NM_032382	606979	98	100	100	95	88
<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>COL13A1</i>	NM_080798	120350	61	100	99	97	80
<i>COL18A1</i>	NM_030582	120328	70	100	97	93	81
<i>COL1A1</i>	NM_000088	120150	98	100	99	99	96
<i>COL25A1</i>	NM_198721	610004	81	100	99	98	91
<i>COL2A1</i>	NM_033150	120140	90	100	100	99	95
<i>COL3A1</i>	NM_000090	120180	63	100	98	93	80
<i>COL4A1</i>	NM_001845	120130	81	100	98	95	88
<i>COL4A2</i>	NM_001846	120090	80	100	99	95	85
<i>COL4A3</i>	NM_000091	120070	68	99	98	95	84
<i>COL4A3BP</i>	NM_005713	604677	87	100	97	95	89
<i>COL4A4</i>	NM_000092	120131	70	100	98	94	81
<i>COL6A1</i>	NM_001848	120220	86	100	100	98	95
<i>COL6A3</i>	NM_057166	120250	108	100	100	99	94
<i>COL9A1</i>	NM_001851	120210	86	100	100	98	94
<i>COL9A2</i>	NM_001852	120260	72	100	99	95	84



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>COL9A3</i>	NM_001853	120270	69	100	97	95	84
<i>COLEC10</i>	NM_006438	607620	90	100	100	100	88
<i>COLEC11</i>	NM_001255982	612502	99	100	100	100	95
<i>COMP</i>	NM_000095	600310	82	98	98	97	96
<i>COQ2</i>	NM_015697	609825	73	100	99	97	79
<i>COQ4</i>	NM_016035	612898	83	100	100	98	90
<i>COQ5</i>	NM_032314	616359	149	100	100	100	99
<i>COQ9</i>	NM_020312	612837	65	100	94	89	72
<i>COX10</i>	NM_001303	602125	144	100	100	98	89
<i>COX14</i>	NM_001257133	614478	65	100	100	94	84
<i>COX15</i>	NM_004376	603646	70	100	100	96	80
<i>COX6B1</i>	NM_001863	124089	83	100	100	100	100
<i>COX7B</i>	NM_001866	300885	84	76	56	53	53
<i>CPA4</i>	NM_016352	607635	77	100	100	99	98
<i>CPAMD8</i>	NM_015692	608841	79	98	96	92	85
<i>CPS1</i>	NM_001122633	608307	84	100	100	99	93
<i>CRADD</i>	NM_003805	603454	72	100	99	91	86
<i>CRB1</i>	NM_001257965	604210	114	100	100	100	100
<i>CRB2</i>	NM_173689	609720	98	100	96	90	77
<i>CRBN</i>	NM_001173482	609262	87	100	99	95	86
<i>CREBBP</i>	NM_004380	600140	82	99	97	92	81
<i>CRELD1</i>	NM_001031717	607170	74	100	97	96	90
<i>CRIM1</i>	NM_016441	606189	78	100	100	98	89
<i>CRIP1</i>	NM_014171	604594	28	100	84	44	0
<i>CRX</i>	NM_000554	602225	132	100	100	100	99
<i>CRYAA</i>	NM_000394	123580	91	100	100	100	98
<i>CRYAB</i>	NM_001289807	123590	62	100	98	94	85
<i>CRYBA1</i>	NM_005208	123610	79	100	100	97	94
<i>CRYBA4</i>	NM_001886	123631	75	100	100	99	79
<i>CRYBB1</i>	NM_001887	600929	89	100	100	96	87
<i>CRYBB2</i>	NM_000496	123620	75	100	100	100	100
<i>CRYBB3</i>	NM_004076	123630	85	100	100	99	91
<i>CRYGC</i>	NM_020989	123680	82	100	100	98	97
<i>CRYGD</i>	NM_006891	123690	77	100	100	92	84
<i>CSNK1G1</i>	NM_022048	606274	83	100	100	98	91
<i>CSNK2A1</i>	NM_177560	115440	87	100	100	98	90
<i>CSNK2B</i>	NM_001282385	115441	97	100	100	100	99
<i>CSPP1</i>	NM_001291339	611654	82	100	100	98	87
<i>CSTA</i>	NM_005213	184600	74	100	100	98	92
<i>CSTB</i>	NM_000100	601145	80	100	93	89	87
<i>CTC1</i>	NM_025099	613129	87	100	100	98	93
<i>CTCF</i>	NM_006565	604167	88	100	98	97	92
<i>CTDP1</i>	NM_001202504	604927	95	99	96	96	94
<i>CTNNA1</i>	NM_001098209	116806	102	100	100	100	99
<i>CTNND1</i>	NM_001085463	601045	88	100	100	100	95

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>CTNS</i>	NM_001031681	606272	84	100	100	98	90
<i>CTSA</i>	NM_001167594	613111	74	100	100	100	95
<i>CTSD</i>	NM_001909	116840	101	100	98	98	97
<i>CTSK</i>	NM_000396	601105	77	100	100	99	89
<i>CUL3</i>	NM_001257197	603136	80	100	99	95	84
<i>CUL4B</i>	NM_003588	300304	65	99	91	79	63
<i>CUL7</i>	NM_014780	609577	90	100	100	100	98
<i>CWC27</i>	NM_005869	617170	56	100	95	83	59
<i>CYB5R3</i>	NM_001129819	613213	85	100	100	100	100
<i>CYC1</i>	NM_001916	123980	139	100	97	96	96
<i>CYP1B1</i>	NM_000104	601771	99	100	100	100	93
<i>CYP24A1</i>	NM_000782	126065	109	100	100	100	99
<i>CYP2U1</i>	NM_183075	610670	105	97	95	93	91
<i>D2HGDH</i>	NM_001287249	609186	82	100	99	96	87
<i>DAG1</i>	NM_001177643	128239	170	100	100	100	99
<i>DARS</i>	NM_001293312	603084	71	100	98	94	76
<i>DARS2</i>	NM_018122	610956	77	100	100	98	91
<i>DBT</i>	NM_001918	248610	71	100	96	90	72
<i>DCAF17</i>	NM_001164821	612515	69	100	97	89	69
<i>DCC</i>	NM_005215	120470	84	100	100	99	91
<i>DCDC2</i>	NM_001195610	605755	103	100	100	100	93
<i>DCHS1</i>	NM_003737	603057	99	100	100	99	98
<i>DCX</i>	NM_001195553	300121	71	100	100	99	87
<i>DDB2</i>	NM_000107	600811	114	100	99	98	93
<i>DDC</i>	NM_001242887	107930	71	100	97	92	80
<i>DDHD1</i>	NM_030637	614603	98	99	97	94	85
<i>DDHD2</i>	NM_015214	615003	91	100	100	98	90
<i>DDOST</i>	NM_005216	602202	82	100	100	99	96
<i>DDR2</i>	NM_001014796	191311	79	100	100	98	84
<i>DDX11</i>	NM_001257145	601150	84	93	90	88	81
<i>DDX3X</i>	NM_001193417	300160	64	100	99	96	88
<i>DDX58</i>	NM_014314	609631	83	100	99	95	87
<i>DDX59</i>	NM_001031725	615464	96	100	100	95	88
<i>DEAF1</i>	NM_001293634	602635	85	98	91	89	84
<i>DECR1</i>	NM_001359	222745	71	100	99	93	84
<i>DENND5A</i>	NM_001243254	617278	73	100	99	97	88
<i>DEPDC5</i>	NM_001007188	614191	80	100	100	99	90
<i>DGAT1</i>	NM_012079	604900	117	100	99	99	99
<i>DGCR6</i>	NM_005675	601279	66	100	91	77	71
<i>DGCR6L</i>	NM_033257	609459	58	100	90	76	69
<i>DHCR24</i>	NM_014762	606418	94	100	100	99	96
<i>DHCR7</i>	NM_001163817	602858	89	100	100	100	100
<i>DHDDS</i>	NM_001243565	608172	58	100	100	99	78
<i>DHFR</i>	NM_001290357	126060	52	100	96	90	54
<i>DHODH</i>	NM_001361	126064	63	100	100	98	79

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>DHRS3</i>	NM_004753	612830	90	100	100	100	99
<i>DHTKD1</i>	NM_018706	614984	78	100	99	97	90
<i>DHX30</i>	NM_138615	616423	117	100	100	100	99
<i>DIAPH1</i>	NM_005219	602121	84	100	100	97	90
<i>DIP2B</i>	NM_173602	611379	84	100	100	99	95
<i>DIRAS3</i>	NM_004675	605193	118	100	100	100	100
<i>DIS3L2</i>	NM_001257282	614184	95	100	100	100	95
<i>DKC1</i>	NM_001142463	300126	74	100	100	98	90
<i>DLAT</i>	NM_001931	608770	74	100	99	94	78
<i>DLD</i>	NM_001289751	238331	79	100	100	99	89
<i>DLG3</i>	NM_001166278	300189	66	100	97	93	76
<i>DLG4</i>	NM_001365	602887	139	100	100	100	96
<i>DLL3</i>	NM_203486	602768	72	97	94	90	81
<i>DLL4</i>	NM_019074	605185	114	100	100	99	97
<i>DLX5</i>	NM_005221	600028	89	100	99	92	82
<i>DMD</i>	NM_004019	300377	92	100	100	100	99
<i>DMP1</i>	NM_004407	600980	104	100	100	98	97
<i>DMPK</i>	NM_001288766	605377	103	100	100	99	96
<i>DNA2</i>	NM_001080449	601810	110	100	98	94	87
<i>DNAAF3</i>	NM_001256714	614566	94	100	96	90	79
<i>DNAH5</i>	NM_001369	603335	76	100	99	95	85
<i>DNAJB13</i>	NM_153614	610263	87	100	100	94	88
<i>DNAJC12</i>	NM_021800	606060	92	100	100	100	99
<i>DNAJC19</i>	NM_145261	608977	108	100	98	94	77
<i>DNM1</i>	NM_001288737	602377	105	99	98	97	93
<i>DNM1L</i>	NM_001278464	603850	82	100	98	92	81
<i>DNMT1</i>	NM_001379	126375	76	100	100	98	91
<i>DNMT3A</i>	NM_153759	602769	85	100	99	98	90
<i>DNMT3B</i>	NM_175849	602900	84	100	100	99	94
<i>DOCK6</i>	NM_020812	614194	85	100	99	96	90
<i>DOCK7</i>	NM_001271999	615730	79	99	98	95	86
<i>DOCK8</i>	NM_001193536	611432	76	100	99	97	90
<i>DOK7</i>	NM_001256896	610285	128	100	100	100	100
<i>DOLK</i>	NM_014908	610746	132	100	100	100	100
<i>DONSON</i>	NM_017613	611428	88	99	91	83	75
<i>DPAGT1</i>	NM_001382	191350	66	100	100	100	92
<i>DPCD</i>	NM_015448	616467	82	100	100	100	100
<i>DPH1</i>	NM_001383	603527	99	100	100	100	99
<i>DPM1</i>	NM_003859	603503	90	100	98	92	78
<i>DPM2</i>	NM_003863	603564	74	100	99	96	94
<i>DPM3</i>	NM_018973	605951	114	100	100	100	100
<i>DPYD</i>	NM_001160301	612779	81	100	100	97	91
<i>DRC1</i>	NM_145038	615288	65	100	100	97	79
<i>DSE</i>	NM_001080976	605942	76	100	99	93	84
<i>DSG1</i>	NM_001942	125670	92	100	98	94	89

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>DSPP</i>	NM_014208	125485	107	98	96	89	66
<i>DSTYK</i>	NM_015375	612666	90	100	98	94	82
<i>DVL1</i>	NM_004421	601365	84	100	99	97	94
<i>DVL3</i>	NM_004423	601368	92	100	100	100	100
<i>DYM</i>	NM_017653	607461	74	100	98	91	75
<i>DYNC1H1</i>	NM_001376	600112	97	100	100	99	97
<i>DYNC2H1</i>	NM_001377	603297	74	99	93	81	66
<i>DYRK1A</i>	NM_130438	600855	86	100	100	100	99
<i>DYX1C1</i>	NM_001033560	NA	66	100	98	89	74
<i>EBF3</i>	NM_001005463	607407	84	100	100	98	93
<i>EBP</i>	NM_006579	300205	60	100	96	90	69
<i>ECEL1</i>	NM_001290787	605896	86	100	98	94	91
<i>EDA</i>	NM_001005610	300451	104	100	100	93	91
<i>EDN1</i>	NM_001168319	131240	88	100	100	100	100
<i>EDNRA</i>	NM_001166055	131243	103	100	100	100	91
<i>EDNRB</i>	NM_001201397	131244	98	100	99	95	90
<i>EED</i>	NM_003797	605984	52	100	94	85	57
<i>EEF1A2</i>	NM_001958	602959	93	100	99	94	92
<i>EEF1B2</i>	NM_001037663	600655	82	100	97	88	83
<i>EFNB1</i>	NM_004429	300035	89	100	100	100	99
<i>EFTUD2</i>	NM_001258353	603892	79	100	100	97	88
<i>EGR2</i>	NM_000399	129010	93	100	100	100	99
<i>EHMT1</i>	NM_024757	607001	80	96	95	94	84
<i>EIF2AK3</i>	NM_004836	604032	91	98	95	91	84
<i>EIF2S3</i>	NM_001415	300161	68	98	94	88	74
<i>EIF4A3</i>	NM_014740	608546	62	100	100	98	83
<i>ELAC2</i>	NM_018127	605367	82	100	100	98	96
<i>ELMO2</i>	NM_133171	606421	75	100	99	97	87
<i>ELN</i>	NM_001081755	130160	73	100	100	98	95
<i>ELOVL4</i>	NM_022726	605512	65	100	99	96	82
<i>ELP2</i>	NM_001242877	616054	81	100	99	97	91
<i>EMC1</i>	NM_001271427	616846	74	100	100	98	91
<i>EMG1</i>	NM_006331	611531	94	100	100	100	99
<i>EMX2</i>	NM_001165924	600035	106	100	100	100	100
<i>ENPP1</i>	NM_006208	173335	94	94	90	84	75
<i>ENTPD1</i>	NM_001164178	601752	82	100	100	99	92
<i>EOGT</i>	NM_173654	614789	93	100	100	100	95
<i>EOMES</i>	NM_001278183	604615	79	100	100	98	96
<i>EP300</i>	NM_001429	602700	113	100	99	98	96
<i>EPB41L1</i>	NM_001258329	602879	83	100	96	93	88
<i>EPG5</i>	NM_020964	615068	82	100	98	95	83
<i>ERBB3</i>	NM_001005915	190151	138	100	100	100	87
<i>ERCC1</i>	NM_202001	126380	56	100	99	92	68
<i>ERCC2</i>	NM_001130867	126340	71	100	100	99	95
<i>ERCC3</i>	NM_000122	133510	63	100	98	91	72

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>ERCC4</i>	NM_005236	133520	99	100	100	99	93
<i>ERCC5</i>	NM_000123	133530	91	100	100	97	89
<i>ERCC6</i>	NM_000124	609413	108	100	100	100	96
<i>ERCC6L2</i>	NM_020207	615667	97	100	99	97	89
<i>ERCC8</i>	NM_001290285	609412	76	100	95	84	69
<i>ERF</i>	NM_001301035	611888	113	100	100	100	94
<i>ERLIN1</i>	NM_001100626	611604	89	100	100	100	100
<i>ERLIN2</i>	NM_001003791	611605	94	100	100	100	94
<i>ERMARD</i>	NM_001278531	615532	88	100	99	95	83
<i>ESCO2</i>	NM_001017420	609353	95	100	97	92	85
<i>ETFA</i>	NM_000126	608053	85	100	100	99	93
<i>ETFB</i>	NM_001014763	130410	75	100	100	99	90
<i>ETFDH</i>	NM_001281737	231675	75	100	100	98	93
<i>ETHE1</i>	NM_014297	608451	96	100	100	95	82
<i>EVC</i>	NM_153717	604831	80	95	91	86	79
<i>EVC2</i>	NM_001166136	607261	78	100	99	95	83
<i>EXOSC3</i>	NM_001002269	606489	138	98	91	88	79
<i>EXPH5</i>	NM_015065	612878	125	100	100	99	98
<i>EXT1</i>	NM_000127	608177	69	100	98	94	83
<i>EXT2</i>	NM_001178083	608210	75	100	99	97	87
<i>EYA1</i>	NM_172059	601653	84	100	100	100	95
<i>EZH2</i>	NM_001203249	601573	96	100	100	97	91
<i>FAH</i>	NM_000137	613871	86	100	100	98	87
<i>FAM105B</i>	NA	NA	NA	NA	NA	NA	NA
<i>FAM111A</i>	NM_001142519	615292	197	100	100	98	97
<i>FAM120C</i>	NM_001300788	300741	61	100	98	94	70
<i>FAM126A</i>	NM_032581	610531	83	100	98	95	82
<i>FAM134B</i>	NM_019000	NA	99	100	100	94	84
<i>FAM161A</i>	NM_001201543	613596	100	100	99	94	83
<i>FAM20A</i>	NM_001243746	611062	64	100	95	92	78
<i>FAM20C</i>	NM_020223	611061	80	100	100	100	96
<i>FAM58A</i>	NM_152274	NA	57	80	76	70	64
<i>FANCA</i>	NM_001018112	607139	94	100	100	98	94
<i>FANCB</i>	NM_001018113	300515	69	100	93	82	64
<i>FANCC</i>	NM_001243744	613899	100	100	100	98	86
<i>FANCD2</i>	NM_001018115	613984	78	100	98	95	89
<i>FANCE</i>	NM_021922	613976	88	95	93	93	92
<i>FANCF</i>	NM_022725	613897	178	100	100	100	99
<i>FANCG</i>	NM_004629	602956	121	100	100	100	97
<i>FANCI</i>	NM_001113378	611360	89	100	99	98	95
<i>FANCL</i>	NM_018062	608111	77	100	99	92	75
<i>FANCM</i>	NM_020937	609644	74	100	95	87	73
<i>FAR1</i>	NM_032228	616107	53	97	93	81	54
<i>FARS2</i>	NM_006567	611592	96	100	100	100	99
<i>FASN</i>	NM_004104	600212	118	100	100	99	96

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>FAT4</i>	NM_001291285	612411	146	100	100	99	98
<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>FBP1</i>	NM_000507	611570	70	100	99	96	84
<i>FBXL4</i>	NM_001278716	605654	121	100	100	100	100
<i>FBXO11</i>	NM_025133	607871	65	100	98	91	80
<i>FBXO25</i>	NM_183421	609098	0	21	21	20	19
<i>FBXW4</i>	NM_022039	608071	66	100	100	97	84
<i>FEZF1</i>	NM_001024613	613301	106	100	100	100	99
<i>FGD1</i>	NM_004463	300546	78	99	96	91	84
<i>FGF10</i>	NM_004465	602115	89	100	100	100	94
<i>FGF12</i>	NM_004113	601513	63	100	100	100	97
<i>FGF3</i>	NM_005247	164950	87	100	99	91	78
<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>FH</i>	NM_000143	136850	94	93	91	87	79
<i>FHL1</i>	NM_001159703	300163	64	100	97	91	77
<i>FIG4</i>	NM_014845	609390	97	100	99	97	89
<i>FKBP14</i>	NM_017946	614505	57	100	100	96	78
<i>FKRP</i>	NM_001039885	606596	93	100	100	100	100
<i>FKTN</i>	NM_001198963	607440	78	100	96	90	81
<i>FLAD1</i>	NM_001184892	610595	185	100	100	100	100
<i>FLG</i>	NM_002016	135940	121	100	97	95	94
<i>FLNA</i>	NM_001110556	300017	103	100	100	100	99
<i>FLNB</i>	NM_001164317	603381	83	100	100	97	90
<i>FLT4</i>	NM_182925	136352	87	100	99	98	96
<i>FLVCR1</i>	NM_014053	609144	92	100	98	94	89
<i>FLVCR2</i>	NM_017791	610865	72	100	100	100	90
<i>FMN2</i>	NM_020066	606373	91	91	88	84	73
<i>FMR1</i>	NM_001185075	309550	72	100	96	88	70
<i>FN1</i>	NM_212474	135600	78	100	100	97	87
<i>FOLR1</i>	NM_016724	136430	71	100	100	100	100
<i>FOXC1</i>	NM_001453	601090	61	96	85	73	57
<i>FOXC2</i>	NM_005251	602402	91	100	100	92	82
<i>FOXE1</i>	NM_004473	602617	76	100	92	70	60
<i>FOXE3</i>	NM_012186	601094	33	75	63	54	33
<i>FOXF1</i>	NM_001451	601089	98	100	100	98	96
<i>FOXG1</i>	NM_005249	164874	115	91	81	77	74
<i>FOXL2</i>	NM_023067	605597	88	98	91	83	72
<i>FOXN1</i>	NM_003593	600838	89	100	100	97	89
<i>FOXP1</i>	NM_001012505	605515	144	100	100	100	100
<i>FOXP2</i>	NM_001172767	605317	79	100	100	99	93

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>FOXP3</i>	NM_014009	300292	83	100	97	93	82
<i>FOXRED1</i>	NM_017547	613622	71	100	100	98	88
<i>FRAS1</i>	NM_025074	607830	79	100	99	97	88
<i>FREM1</i>	NM_144966	608944	81	100	99	96	86
<i>FREM2</i>	NM_207361	608945	106	100	100	98	93
<i>FRMD4A</i>	NM_018027	616305	85	100	99	95	89
<i>FRMD7</i>	NM_194277	300628	83	100	99	97	90
<i>FRMPD4</i>	NM_014728	300838	90	100	99	96	83
<i>FRRS1L</i>	NM_014334	604574	93	83	75	74	73
<i>FRY</i>	NM_023037	614818	81	100	98	96	91
<i>FTCD</i>	NM_006657	606806	70	98	95	93	81
<i>FTL</i>	NM_000146	134790	133	100	100	98	96
<i>FTO</i>	NM_001080432	610966	93	100	100	96	89
<i>FTSJ1</i>	NM_001282157	300499	86	100	100	99	98
<i>FUCA1</i>	NM_000147	612280	80	100	100	100	98
<i>FYCO1</i>	NM_024513	607182	80	100	100	99	97
<i>FZD5</i>	NM_003468	601723	135	100	100	100	100
<i>FZD6</i>	NM_001164615	603409	112	100	100	100	100
<i>G6PC3</i>	NM_138387	611045	80	100	100	99	92
<i>GAA</i>	NM_000152	606800	94	100	100	99	92
<i>GABBR2</i>	NM_005458	607340	82	97	94	89	80
<i>GABRA1</i>	NM_000806	137160	99	100	100	100	100
<i>GABRB2</i>	NM_000813	600232	98	100	100	100	95
<i>GABRB3</i>	NM_001191321	137192	94	100	99	98	96
<i>GABRG2</i>	NM_000816	137164	90	100	100	100	96
<i>GAD1</i>	NM_000817	605363	74	100	100	97	86
<i>GALC</i>	NM_001201402	606890	71	100	99	94	79
<i>GALE</i>	NM_000403	606953	102	100	100	100	99
<i>GALK1</i>	NM_000154	604313	97	100	100	99	97
<i>GALNS</i>	NM_000512	612222	69	100	98	94	85
<i>GALT</i>	NM_000155	606999	111	100	100	100	98
<i>GAMT</i>	NM_000156	601240	81	98	92	91	90
<i>GAS8</i>	NM_001286209	605178	89	100	100	98	89
<i>GATA2</i>	NM_001145661	137295	70	100	98	91	82
<i>GATA4</i>	NM_002052	600576	73	91	81	75	68
<i>GATA6</i>	NM_005257	601656	83	96	89	81	74
<i>GATAD2B</i>	NM_020699	614998	73	100	100	94	76
<i>GATM</i>	NM_001482	602360	82	100	100	100	96
<i>GBA</i>	NM_000157	606463	114	100	100	100	100
<i>GBA2</i>	NM_020944	609471	109	100	100	100	99
<i>GCDH</i>	NM_000159	608801	94	100	100	99	97
<i>GCH1</i>	NM_000161	600225	64	100	100	92	73
<i>GCSH</i>	NM_004483	238330	43	85	77	65	28
<i>GDF1</i>	NM_001492	602880	38	85	63	56	49
<i>GDF3</i>	NM_020634	606522	103	100	100	100	100



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>GDF5</i>	NM_000557	601146	136	100	100	100	99
<i>GDF6</i>	NM_001001557	601147	103	100	100	100	90
<i>GDI1</i>	NM_001493	300104	98	100	100	100	98
<i>GFAP</i>	NM_001131019	137780	66	100	98	92	75
<i>GFER</i>	NM_005262	600924	58	100	98	84	57
<i>GFM1</i>	NM_024996	606639	70	100	98	94	84
<i>GHR</i>	NM_000163	600946	105	100	100	100	92
<i>GJA1</i>	NM_000165	121014	151	100	100	100	100
<i>GJA3</i>	NM_021954	121015	144	100	100	100	92
<i>GJA8</i>	NM_005267	600897	125	100	100	100	98
<i>GJB2</i>	NM_004004	121011	114	100	100	100	99
<i>GJB3</i>	NM_024009	603324	171	100	100	100	100
<i>GJC2</i>	NM_020435	608803	28	84	61	49	44
<i>GK</i>	NM_203391	300474	52	89	75	67	52
<i>GLB1</i>	NM_001135602	611458	73	100	95	90	81
<i>GLDC</i>	NM_000170	238300	74	95	89	85	75
<i>GLDN</i>	NM_181789	608603	80	100	96	94	90
<i>GLE1</i>	NM_001499	603371	72	100	100	99	92
<i>GLI2</i>	NM_005270	165230	100	100	100	99	96
<i>GLI3</i>	NM_000168	165240	92	100	99	97	89
<i>GLIS2</i>	NM_032575	608539	126	100	100	99	95
<i>GLIS3</i>	NM_001042413	610192	90	100	99	94	86
<i>GLMN</i>	NM_053274	601749	49	100	91	76	49
<i>GLUD1</i>	NM_005271	138130	71	99	91	80	70
<i>GLUL</i>	NM_001033044	138290	75	100	99	95	91
<i>GM2A</i>	NM_000405	613109	76	100	100	100	99
<i>GMNN</i>	NM_001251989	602842	84	100	93	86	85
<i>GMPPA</i>	NM_013335	615495	88	100	100	100	96
<i>GMPPB</i>	NM_013334	615320	133	100	100	100	100
<i>GNA11</i>	NM_002067	139313	101	100	99	95	91
<i>GNA14</i>	NM_004297	604397	78	100	100	100	98
<i>GNAI1</i>	NM_001256414	139310	60	100	96	86	60
<i>GNAI3</i>	NM_006496	139370	61	100	96	88	78
<i>GNAO1</i>	NM_020988	139311	100	100	100	100	95
<i>GNAQ</i>	NM_002072	600998	45	84	71	61	43
<i>GNAS</i>	NM_016592	139320	163	100	100	100	100
<i>GNB1</i>	NM_001282538	139380	90	100	100	100	93
<i>GNB3</i>	NM_001297571	139130	109	100	100	100	98
<i>GNB5</i>	NM_016194	604447	82	100	98	94	88
<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>GON4L</i>	NM_001282861	610393	95	100	98	94	89
<i>GORAB</i>	NM_152281	607983	132	100	99	97	92

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>GPAA1</i>	NM_003801	603048	101	100	99	99	98
<i>GPC3</i>	NM_001164618	300037	73	99	93	87	75
<i>GPC6</i>	NM_005708	604404	76	100	100	99	96
<i>GPHN</i>	NM_020806	603930	96	100	99	98	92
<i>GPR126</i>	NM_198569	NA	89	100	99	97	89
<i>GPR179</i>	NM_001004334	614515	102	100	100	99	95
<i>GPR56</i>	NM_001290142	NA	85	100	100	100	96
<i>GPSM2</i>	NM_013296	609245	78	100	99	94	84
<i>GPX4</i>	NM_001039848	138322	134	100	98	97	94
<i>GRHL2</i>	NM_024915	608576	80	100	100	100	96
<i>GRHL3</i>	NM_198174	608317	83	100	100	99	95
<i>GRIA1</i>	NM_001114183	138248	88	100	100	99	97
<i>GRIA3</i>	NM_007325	305915	73	100	98	94	78
<i>GRIK2</i>	NM_021956	138244	90	100	99	95	91
<i>GRIN1</i>	NM_001185091	138249	75	100	100	99	98
<i>GRIN2A</i>	NM_000833	138253	98	100	100	100	99
<i>GRIN2B</i>	NM_000834	138252	94	100	99	97	94
<i>GRIN2D</i>	NM_000836	602717	65	81	72	67	62
<i>GRM1</i>	NM_001278064	604473	106	100	100	99	98
<i>GRM6</i>	NM_000843	604096	94	95	90	84	80
<i>GSPT2</i>	NM_018094	300418	120	100	100	100	100
<i>GSS</i>	NM_000178	601002	65	100	99	97	87
<i>GTF2E2</i>	NM_002095	189964	63	100	97	89	69
<i>GTF2H5</i>	NM_207118	608780	67	100	97	88	63
<i>GTPBP3</i>	NM_001195422	608536	139	100	100	100	99
<i>GUCY2C</i>	NM_004963	601330	82	100	100	98	89
<i>GUSB</i>	NM_000181	611499	62	82	81	78	67
<i>GZF1</i>	NM_022482	613842	133	100	100	98	96
<i>H19</i>	NA	NA	NA	NA	NA	NA	NA
<i>HACE1</i>	NM_020771	610876	85	100	99	96	83
<i>HADH</i>	NM_001184705	601609	77	100	100	100	99
<i>HADHA</i>	NM_000182	600890	64	99	95	90	77
<i>HARS</i>	NM_001258040	142810	91	100	100	100	99
<i>HAX1</i>	NM_001018837	605998	98	100	100	100	100
<i>HCCS</i>	NM_001122608	300056	60	100	99	96	75
<i>HCFC1</i>	NM_005334	300019	78	99	97	92	81
<i>HCN1</i>	NM_021072	602780	88	100	100	95	88
<i>HDAC4</i>	NM_006037	605314	87	100	100	97	86
<i>HDAC8</i>	NM_001166418	300269	84	100	100	100	100
<i>HEATR2</i>	NM_017802	NA	70	89	83	76	66
<i>HECW2</i>	NM_020760	617245	82	100	99	95	89
<i>HEPACAM</i>	NM_152722	611642	78	93	87	85	83
<i>HESX1</i>	NM_003865	601802	44	100	97	79	33
<i>HEXA</i>	NM_000520	606869	64	100	100	95	76
<i>HEXB</i>	NM_000521	606873	100	100	99	95	82

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>HGSNAT</i>	NM_152419	610453	75	96	95	92	76
<i>HIBCH</i>	NM_014362	610690	75	98	84	73	64
<i>HINT1</i>	NM_005340	601314	52	98	84	69	51
<i>HIRA</i>	NM_003325	600237	73	100	99	96	85
<i>HIST1H1E</i>	NM_005321	142220	87	100	100	100	100
<i>HIST1H4B</i>	NM_003544	602829	163	100	100	100	100
<i>HIST1H4C</i>	NM_003542	602827	69	100	100	100	90
<i>HIST3H3</i>	NM_003493	602820	155	100	100	100	100
<i>HIVEP2</i>	NM_006734	143054	130	100	100	100	100
<i>HLCS</i>	NM_000411	609018	107	100	100	100	100
<i>HMGB3</i>	NM_001301229	300193	48	84	72	64	45
<i>HMGCL</i>	NM_001166059	613898	84	100	100	99	93
<i>HMGCS2</i>	NM_005518	600234	79	100	100	98	92
<i>HMX1</i>	NM_018942	142992	17	69	47	43	22
<i>HNF1B</i>	NM_000458	189907	84	100	96	91	83
<i>HNF4A</i>	NM_000457	600281	77	100	99	96	92
<i>HNMT</i>	NM_001024074	605238	85	100	100	100	88
<i>HNRNPH2</i>	NM_001032393	300610	117	100	100	100	100
<i>HNRNPK</i>	NM_002140	600712	65	93	88	82	68
<i>HNRNPU</i>	NM_004501	602869	91	100	100	99	95
<i>HOXA1</i>	NM_005522	142955	112	100	100	100	100
<i>HOXA11</i>	NM_005523	142958	65	100	91	84	80
<i>HOXA13</i>	NM_000522	142959	87	80	73	68	59
<i>HOXB1</i>	NM_002144	142968	96	100	100	100	100
<i>HOXC13</i>	NM_017410	142976	93	100	100	100	98
<i>HOXD13</i>	NM_000523	142989	138	100	100	97	95
<i>HPD</i>	NM_002150	609695	116	100	100	98	85
<i>HPGD</i>	NM_001145816	601688	59	100	100	97	72
<i>HPRT1</i>	NM_000194	308000	49	98	90	79	45
<i>HPS1</i>	NM_182639	604982	68	100	100	100	90
<i>HPSE2</i>	NM_001166245	613469	74	100	100	97	84
<i>HR</i>	NM_018411	602302	84	100	99	95	90
<i>HRAS</i>	NM_001130442	190020	103	100	100	100	100
<i>HSD17B10</i>	NM_001037811	300256	78	100	100	99	96
<i>HSD17B4</i>	NM_000414	601860	69	99	97	94	80
<i>HSD3B7</i>	NM_025193	607764	101	100	98	96	95
<i>HSF4</i>	NM_001040667	602438	89	100	99	99	97
<i>HSPD1</i>	NM_002156	118190	75	99	96	91	82
<i>HSPG2</i>	NM_001291860	142461	82	99	98	96	91
<i>HTRA2</i>	NM_145074	606441	92	100	100	99	95
<i>HUWE1</i>	NM_031407	300697	74	100	98	94	82
<i>HYAL1</i>	NM_153282	607071	76	100	100	100	98
<i>HYDIN</i>	NM_001198542	610812	71	96	91	86	75
<i>HYLS1</i>	NM_145014	610693	129	100	100	100	100
<i>IARS</i>	NM_002161	600709	85	100	100	98	91

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>IARS2</i>	NM_018060	612801	73	100	100	100	96
<i>IDS</i>	NM_000202	300823	81	100	99	93	82
<i>IDUA</i>	NM_000203	252800	114	99	96	94	90
<i>IER3IP1</i>	NM_016097	609382	68	100	92	88	88
<i>IFIH1</i>	NM_022168	606951	81	100	98	91	80
<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>IFT52</i>	NM_016004	617094	82	100	100	95	83
<i>IFT80</i>	NM_001190241	611177	53	98	86	71	53
<i>IGBP1</i>	NM_001551	300139	88	100	98	94	90
<i>IGF1</i>	NM_001111284	147440	67	100	100	100	97
<i>IGF1R</i>	NM_000875	147370	74	100	100	97	88
<i>IGF2</i>	NM_000612	147470	70	100	100	100	100
<i>IGFBP7</i>	NM_001253835	602867	57	98	91	86	57
<i>IGHMBP2</i>	NM_002180	600502	73	100	97	94	84
<i>IGSF1</i>	NM_001170963	300137	60	100	100	98	88
<i>IHH</i>	NM_002181	600726	99	100	100	100	100
<i>IKBKKG</i>	NM_001099856	300248	0	2	2	2	1
<i>IL11</i>	NM_000641	147681	59	98	91	78	52
<i>IL11RA</i>	NM_001142784	600939	94	100	100	100	97
<i>IL1RAPL1</i>	NM_014271	300206	87	100	100	97	87
<i>IMPAD1</i>	NM_017813	614010	97	100	100	100	93
<i>INPP4A</i>	NM_001134224	600916	78	100	100	97	91
<i>INPP5E</i>	NM_019892	613037	70	100	97	91	81
<i>INPP5K</i>	NM_001135642	607875	60	100	100	98	83
<i>INPPL1</i>	NM_001567	600829	90	100	99	97	96
<i>IQSEC2</i>	NM_015075	300522	66	99	98	94	77
<i>IRF6</i>	NM_001206696	607199	79	100	97	87	75
<i>IRX5</i>	NM_005853	606195	68	100	100	91	72
<i>ISPD</i>	NM_001101426	614631	87	100	97	88	72
<i>ITCH</i>	NM_031483	606409	84	100	99	96	85
<i>ITGA3</i>	NM_002204	605025	106	100	99	98	95
<i>ITGA6</i>	NM_000210	147556	113	100	99	98	95
<i>ITGA7</i>	NM_002206	600536	99	100	100	99	96
<i>ITGA8</i>	NM_003638	604063	82	100	100	97	86
<i>ITPR1</i>	NM_002222	147265	91	100	100	99	94
<i>IVD</i>	NM_002225	607036	67	100	100	99	90
<i>JAG1</i>	NM_000214	601920	88	99	99	98	93
<i>JAGN1</i>	NM_032492	616012	81	100	100	100	100
<i>JAK3</i>	NM_000215	600173	77	99	98	96	91
<i>JAM3</i>	NM_032801	606871	91	100	100	100	94
<i>KANK1</i>	NM_001256876	607704	101	100	100	99	95

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>KANSL1</i>	NM_001193465	612452	87	100	99	96	91
<i>KARS</i>	NM_005548	601421	86	100	99	96	92
<i>KAT6A</i>	NM_001099412	601408	107	100	100	98	95
<i>KAT6B</i>	NM_012330	605880	112	100	99	98	97
<i>KBTBD13</i>	NM_001101362	613727	118	100	100	99	93
<i>KCNA2</i>	NM_001204269	176262	120	100	100	100	91
<i>KCNB1</i>	NM_004975	600397	98	100	100	98	96
<i>KCNC1</i>	NM_001112741	176258	92	100	100	100	100
<i>KCNC3</i>	NM_004977	176264	52	74	61	55	52
<i>KCNE1</i>	NM_000219	176261	245	100	100	100	100
<i>KCNH1</i>	NM_002238	603305	104	100	100	99	94
<i>KCNH5</i>	NM_139318	605716	95	100	100	97	93
<i>KCNJ1</i>	NM_000220	600359	129	100	100	100	100
<i>KCNJ10</i>	NM_002241	602208	132	100	99	96	95
<i>KCNJ11</i>	NM_000525	600937	146	100	100	100	100
<i>KCNJ6</i>	NM_002240	600877	129	100	100	100	97
<i>KCNK9</i>	NM_001282534	605874	100	100	100	100	100
<i>KCNMA1</i>	NM_001271518	600150	79	100	100	98	93
<i>KCNQ1</i>	NM_181798	607542	87	100	100	99	94
<i>KCNQ1OT1</i>	NA	NA	NA	NA	NA	NA	NA
<i>KCNQ2</i>	NM_172107	602235	84	100	99	98	93
<i>KCNQ3</i>	NM_001204824	602232	78	100	99	95	87
<i>KCNQ5</i>	NM_001160133	607357	101	99	98	96	92
<i>KCNT1</i>	NM_001272003	608167	84	100	99	98	86
<i>KCTD1</i>	NM_001136205	613420	75	100	100	100	97
<i>KCTD7</i>	NM_001167961	611725	111	100	100	100	100
<i>KDM1A</i>	NM_015013	609132	84	100	99	96	92
<i>KDM5A</i>	NM_001042603	180202	89	100	100	99	97
<i>KDM5B</i>	NM_006618	605393	88	100	100	98	92
<i>KDM5C</i>	NM_001146702	314690	90	100	99	98	94
<i>KDM6A</i>	NM_001291421	300128	83	96	90	83	70
<i>KDM6B</i>	NM_001080424	611577	118	99	98	97	95
<i>KIAA0226</i>	NM_001145642	NA	69	100	99	96	83
<i>KIAA0586</i>	NM_014749	610178	83	100	98	94	84
<i>KIAA1109</i>	NM_015312	611565	88	100	98	95	85
<i>KIAA1279</i>	NM_015634	NA	105	100	100	100	96
<i>KIAA2022</i>	NM_001008537	NA	116	100	100	98	95
<i>KIDINS220</i>	NM_020738	615759	97	100	100	98	95
<i>KIF11</i>	NM_004523	148760	72	97	94	84	63
<i>KIF14</i>	NM_014875	611279	86	100	96	86	69
<i>KIF1A</i>	NM_001244008	601255	71	100	97	95	83
<i>KIF22</i>	NM_001256269	603213	173	100	100	100	99
<i>KIF2A</i>	NM_001098511	602591	71	100	95	85	68
<i>KIF4A</i>	NM_012310	300521	72	100	97	94	82
<i>KIF5C</i>	NM_004522	604593	76	100	100	98	84

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>KIF7</i>	NM_198525	611254	73	96	91	85	76
<i>KIRREL3</i>	NM_032531	607761	76	100	99	97	86
<i>KIT</i>	NM_000222	164920	90	100	100	99	97
<i>KITLG</i>	NM_000899	184745	66	100	98	95	81
<i>KLF1</i>	NM_006563	600599	81	100	100	96	88
<i>KLF8</i>	NM_001159296	300286	94	100	100	100	93
<i>KLHL15</i>	NM_030624	300980	122	100	100	99	98
<i>KLHL40</i>	NM_152393	615340	84	100	100	100	99
<i>KLHL7</i>	NM_001031710	611119	74	100	100	96	84
<i>KMT2A</i>	NM_001197104	159555	105	100	100	99	96
<i>KMT2B</i>	NM_014727	606834	95	97	97	96	94
<i>KMT2D</i>	NM_003482	602113	102	100	100	99	97
<i>KPNA7</i>	NM_001145715	614107	77	100	100	99	92
<i>KPTN</i>	NM_007059	615620	73	100	100	99	97
<i>KRAS</i>	NM_033360	190070	63	100	100	92	55
<i>KRBOX4</i>	NM_001129898	300585	76	100	100	100	100
<i>KRIT1</i>	NM_004912	604214	61	100	98	89	62
<i>KRT74</i>	NM_175053	608248	98	100	100	100	97
<i>L1CAM</i>	NM_024003	308840	90	100	100	99	96
<i>L2HGDH</i>	NM_024884	609584	85	100	98	95	84
<i>LAMA1</i>	NM_005559	150320	74	100	100	97	86
<i>LAMA2</i>	NM_001079823	156225	84	100	100	98	95
<i>LAMB1</i>	NM_002291	150240	100	100	100	99	95
<i>LAMC3</i>	NM_006059	604349	89	100	99	97	91
<i>LAMP2</i>	NM_002294	309060	73	94	92	89	83
<i>LARGE</i>	NM_004737	NA	74	100	99	96	88
<i>LARP7</i>	NM_016648	612026	64	92	76	66	56
<i>LARS2</i>	NM_015340	604544	79	100	100	100	96
<i>LAS1L</i>	NM_031206	300964	56	100	98	94	66
<i>LBR</i>	NM_002296	600024	81	97	90	81	71
<i>LDB3</i>	NM_001080116	605906	99	100	100	100	99
<i>LEFTY2</i>	NM_001172425	601877	56	100	95	86	66
<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>LGI1</i>	NM_005097	604619	83	100	99	94	92
<i>LGI4</i>	NM_139284	608303	73	99	97	94	88
<i>LHX3</i>	NM_178138	600577	66	100	100	95	81
<i>LHX4</i>	NM_033343	602146	86	100	100	100	98
<i>LIAS</i>	NM_001278592	607031	90	100	100	100	100
<i>LIG4</i>	NM_001098268	601837	125	100	100	99	96
<i>LIN28B</i>	NM_001004317	611044	94	100	100	98	97
<i>LINS</i>	NM_001040616	NA	88	100	100	96	89
<i>LIPN</i>	NM_001102469	613924	83	100	99	94	80
<i>LIPT1</i>	NM_015929	610284	169	100	100	100	97

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>LIPT2</i>	NM_001144869	617659	61	100	99	83	73
<i>LMBRD1</i>	NM_018368	612625	61	99	93	83	62
<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>LRAT</i>	NM_001301645	604863	174	100	100	100	100
<i>LRBA</i>	NM_001199282	606453	82	100	100	97	89
<i>LRIG2</i>	NM_014813	608869	94	100	99	97	91
<i>LRIT3</i>	NM_198506	615004	24	51	50	49	48
<i>LRP1</i>	NM_002332	107770	104	100	100	99	98
<i>LRP2</i>	NM_004525	600073	90	100	100	99	96
<i>LRP4</i>	NM_002334	604270	85	100	99	98	92
<i>LRP5</i>	NM_001291902	603506	97	100	100	99	98
<i>LRP6</i>	NM_002336	603507	94	100	99	98	93
<i>LRPAP1</i>	NM_002337	104225	90	100	99	97	84
<i>LRPPRC</i>	NM_133259	607544	87	100	100	97	87
<i>LRRC6</i>	NM_012472	614930	94	100	96	94	91
<i>LTBP2</i>	NM_000428	602091	75	100	99	97	92
<i>LTBP3</i>	NM_001164266	602090	85	100	99	98	92
<i>LYST</i>	NM_000081	606897	84	99	97	91	81
<i>MAB21L2</i>	NM_006439	604357	165	100	100	100	100
<i>MAF</i>	NM_005360	177075	62	85	81	76	69
<i>MAFB</i>	NM_005461	608968	106	100	99	96	93
<i>MAGEL2</i>	NM_019066	605283	108	95	90	86	78
<i>MAGI2</i>	NM_012301	606382	68	96	92	89	82
<i>MAGT1</i>	NM_032121	300715	75	100	100	95	84
<i>MAMLD1</i>	NM_001177465	300120	96	100	100	98	95
<i>MAN1B1</i>	NM_016219	604346	91	100	100	99	95
<i>MAN2B1</i>	NM_000528	609458	96	100	99	96	92
<i>MANBA</i>	NM_005908	609489	77	100	99	95	80
<i>MAOA</i>	NM_000240	309850	68	100	100	99	89
<i>MAP2K1</i>	NM_002755	176872	78	100	96	90	81
<i>MAP2K2</i>	NM_030662	601263	80	99	96	92	80
<i>MAP3K1</i>	NM_005921	600982	84	99	95	91	84
<i>MAP3K7</i>	NM_145332	602614	78	100	100	98	90
<i>MAPK10</i>	NM_138981	602897	82	100	100	100	95
<i>MAPRE2</i>	NM_001143827	605789	83	100	99	97	91
<i>MASP1</i>	NM_139125	600521	84	100	100	98	84
<i>MAT1A</i>	NM_000429	610550	79	100	98	96	89
<i>MATN3</i>	NM_002381	602109	60	87	86	84	71
<i>MBD5</i>	NM_018328	611472	135	100	100	99	98
<i>MBOAT7</i>	NM_001146082	606048	68	100	100	96	89
<i>MBTPS2</i>	NM_015884	300294	80	100	99	94	85
<i>MC2R</i>	NM_000529	607397	126	100	100	96	95
<i>MCCC1</i>	NM_020166	609010	98	100	99	98	95



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>MCCC2</i>	NM_022132	609014	80	100	100	98	90
<i>MCEE</i>	NM_032601	608419	86	100	100	100	100
<i>MCM5</i>	NM_006739	602696	78	100	100	98	92
<i>MCOLN1</i>	NM_020533	605248	100	100	99	99	98
<i>MCPH1</i>	NM_001172575	607117	103	100	100	98	83
<i>MDH2</i>	NM_001282404	154100	72	100	100	99	96
<i>MECOM</i>	NM_001164000	165215	104	100	100	97	83
<i>MECP2</i>	NM_004992	300005	79	100	97	93	84
<i>MECR</i>	NM_001024732	608205	81	100	100	98	91
<i>MED12</i>	NM_005120	300188	73	100	98	95	85
<i>MED13L</i>	NM_015335	608771	77	100	100	97	87
<i>MED17</i>	NM_004268	603810	92	100	99	97	93
<i>MED23</i>	NM_015979	605042	90	100	99	98	91
<i>MED25</i>	NM_030973	610197	92	100	100	98	95
<i>MEF2A</i>	NM_001130927	600660	86	100	97	92	88
<i>MEF2C</i>	NM_001193347	600662	93	100	98	95	93
<i>MEGF10</i>	NM_001256545	612453	85	100	100	99	89
<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>MFRP</i>	NM_031433	606227	77	100	100	100	99
<i>MFSD2A</i>	NM_001287808	614397	78	100	100	100	96
<i>MFSD8</i>	NM_152778	611124	88	100	100	97	85
<i>MGAT2</i>	NM_002408	602616	119	100	100	100	100
<i>MGP</i>	NM_001190839	154870	89	100	96	96	86
<i>MIB1</i>	NM_020774	608677	82	100	100	98	88
<i>MICU1</i>	NM_001195518	605084	74	100	96	91	88
<i>MID1</i>	NM_001193281	300552	133	100	99	97	90
<i>MIR17HG</i>	NA	NA	NA	NA	NA	NA	NA
<i>MIR184</i>	NA	NA	NA	NA	NA	NA	NA
<i>MITF</i>	NM_198159	156845	89	100	100	100	96
<i>MKKS</i>	NM_018848	604896	138	100	100	100	99
<i>MKS1</i>	NM_017777	609883	89	100	99	97	90
<i>MLC1</i>	NM_015166	605908	68	100	100	96	77
<i>MLYCD</i>	NM_012213	606761	68	98	95	92	80
<i>MMAA</i>	NM_172250	607481	93	100	100	100	100
<i>MMAB</i>	NM_052845	607568	71	100	100	98	89
<i>MMACHC</i>	NM_015506	609831	128	100	100	100	100
<i>MMADHC</i>	NM_015702	611935	60	97	88	81	63
<i>MMP13</i>	NM_002427	600108	98	100	100	99	94
<i>MMP14</i>	NM_004995	600754	95	100	100	99	97
<i>MMP21</i>	NM_147191	608416	71	100	96	91	81
<i>MNX1</i>	NM_001165255	142994	71	100	100	96	79
<i>MOCS1</i>	NM_005943	603707	67	100	98	92	81
<i>MOCS2</i>	NM_004531	603708	80	100	100	100	90

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>MOGS</i>	NM_001146158	601336	95	100	100	100	99
<i>MORC2</i>	NM_014941	616661	94	100	100	99	96
<i>MPDU1</i>	NM_004870	604041	76	100	100	98	95
<i>MPDZ</i>	NM_003829	603785	88	99	98	95	89
<i>MPI</i>	NM_001289155	154550	73	100	100	99	96
<i>MPLKIP</i>	NM_138701	609188	48	100	100	98	49
<i>MPV17</i>	NM_002437	137960	87	100	100	100	98
<i>MRE11A</i>	NM_005591	NA	38	98	86	64	39
<i>MRPS22</i>	NM_020191	605810	87	100	97	89	85
<i>MRPS34</i>	NM_001300900	611994	119	100	100	99	97
<i>MSL3</i>	NM_001282174	300609	56	97	91	83	60
<i>MSX1</i>	NM_002448	142983	110	100	96	93	89
<i>MSX2</i>	NM_002449	123101	92	100	100	96	82
<i>MTF1</i>	NM_005955	600172	91	100	100	100	98
<i>MTHFR</i>	NM_005957	607093	74	100	100	99	96
<i>MTM1</i>	NM_000252	300415	64	100	95	83	70
<i>MTMR14</i>	NM_022485	611089	73	100	98	95	89
<i>MTO1</i>	NM_012123	614667	104	100	98	96	95
<i>MTOR</i>	NM_004958	601231	80	100	99	97	89
<i>MTR</i>	NM_001291939	156570	87	100	100	99	95
<i>MTRR</i>	NM_024010	602568	88	100	99	98	92
<i>MUT</i>	NM_000255	609058	89	100	99	93	83
<i>MVK</i>	NM_001301182	251170	80	100	100	99	89
<i>MYCN</i>	NM_001293231	164840	113	100	100	99	94
<i>MYH10</i>	NM_001256012	160776	84	100	99	97	92
<i>MYH3</i>	NM_002470	160720	74	100	99	97	92
<i>MYH6</i>	NM_002471	160710	74	99	95	90	82
<i>MYH8</i>	NM_002472	160741	93	100	100	99	95
<i>MYH9</i>	NM_002473	160775	75	100	99	97	91
<i>MYLK</i>	NM_053031	600922	89	100	100	100	100
<i>MYO5A</i>	NM_000259	160777	80	100	98	93	78
<i>MYO5B</i>	NM_001080467	606540	78	99	96	94	86
<i>MYO7A</i>	NM_001127179	276903	81	100	99	97	88
<i>MYOC</i>	NM_000261	601652	120	100	100	98	92
<i>MYPN</i>	NM_001256267	608517	88	100	99	97	90
<i>MYT1</i>	NM_004535	600379	99	100	100	97	94
<i>MYT1L</i>	NM_015025	613084	87	100	100	99	97
<i>NAA10</i>	NM_001256119	300013	75	100	99	96	89
<i>NAA15</i>	NM_057175	608000	67	100	98	90	69
<i>NACC1</i>	NM_052876	610672	108	100	100	100	98
<i>NADK2</i>	NM_001287340	615787	108	100	100	100	97
<i>NAGA</i>	NM_000262	104170	73	100	100	99	90
<i>NAGLU</i>	NM_000263	609701	76	96	93	92	87
<i>NAGS</i>	NM_153006	608300	70	100	100	96	92
<i>NALCN</i>	NM_052867	611549	97	100	100	98	91

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>NANS</i>	NM_018946	605202	67	100	100	97	83
<i>NBAS</i>	NM_015909	608025	88	100	99	96	91
<i>NBN</i>	NM_002485	602667	62	100	98	87	66
<i>NCAPD2</i>	NM_014865	615638	94	100	100	98	95
<i>NCAPD3</i>	NM_015261	609276	84	100	99	96	86
<i>NCAPH</i>	NM_001281710	602332	78	100	100	99	96
<i>NDE1</i>	NM_001143979	609449	71	100	100	96	83
<i>NDN</i>	NM_002487	602117	95	99	94	83	64
<i>NDNL2</i>	NM_138704	NA	126	100	100	100	100
<i>NDP</i>	NM_000266	300658	76	100	100	100	94
<i>NDST1</i>	NM_001543	600853	98	100	100	100	99
<i>NDUFA1</i>	NM_004541	300078	106	100	100	100	93
<i>NDUFA10</i>	NM_004544	603835	73	99	97	94	87
<i>NDUFA11</i>	NM_001193375	612638	79	100	99	91	85
<i>NDUFA12</i>	NM_001258338	614530	105	100	100	100	88
<i>NDUFA9</i>	NM_005002	603834	85	100	97	92	82
<i>NDUF2</i>	NM_174889	609653	36	94	79	60	30
<i>NDUFB11</i>	NM_001135998	300403	125	99	97	95	94
<i>NDUFS1</i>	NM_001199983	157655	85	100	100	100	96
<i>NDUFS2</i>	NM_004550	602985	69	100	100	99	95
<i>NDUFS3</i>	NM_004551	603846	103	100	100	99	99
<i>NDUFS4</i>	NM_002495	602694	81	100	100	95	92
<i>NDUFS7</i>	NM_024407	601825	87	100	100	98	96
<i>NDUFS8</i>	NM_002496	602141	85	100	100	99	91
<i>NDUFV1</i>	NM_001166102	161015	106	100	99	98	96
<i>NEB</i>	NM_004543	161650	83	100	99	98	92
<i>NEDD4L</i>	NM_001144964	606384	90	100	99	97	91
<i>NEK1</i>	NM_001199397	604588	71	100	98	92	79
<i>NEK8</i>	NM_178170	609799	104	100	100	99	96
<i>NEU1</i>	NM_000434	608272	108	100	99	96	94
<i>NF1</i>	NM_001042492	613113	82	94	92	90	81
<i>NFIA</i>	NM_001134673	600727	114	100	100	97	94
<i>NFIX</i>	NM_001271043	164005	117	100	100	99	94
<i>NFU1</i>	NM_001002755	608100	46	100	91	74	46
<i>NGLY1</i>	NM_001145294	610661	87	100	100	99	93
<i>NHP2</i>	NM_001034833	606470	116	100	100	100	100
<i>NHS</i>	NM_001136024	300457	119	100	100	100	94
<i>NIPBL</i>	NM_133433	608667	82	98	95	90	77
<i>NKX2-1</i>	NM_001079668	600635	62	100	95	79	64
<i>NKX2-5</i>	NM_001166176	600584	83	100	100	100	97
<i>NKX3-2</i>	NM_001189	602183	64	100	98	93	86
<i>NKX6-2</i>	NM_177400	605955	78	95	88	86	85
<i>NLGN3</i>	NM_018977	300336	96	100	100	98	92
<i>NLGN4X</i>	NM_001282145	300427	119	100	99	97	94
<i>NLRP5</i>	NM_153447	609658	98	100	98	96	94

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>NMNAT1</i>	NM_001297778	608700	91	100	100	98	96
<i>NNAT</i>	NM_181689	603106	99	100	100	100	75
<i>NODAL</i>	NM_018055	601265	126	100	100	97	84
<i>NOG</i>	NM_005450	602991	146	100	100	100	100
<i>NONO</i>	NM_001145410	300084	72	100	99	96	93
<i>NOP10</i>	NM_018648	606471	96	100	100	100	97
<i>NOTCH1</i>	NM_017617	190198	86	99	98	96	90
<i>NOTCH2</i>	NM_001200001	600275	82	100	100	98	91
<i>NOTCH3</i>	NM_000435	600276	87	97	94	90	76
<i>NPC1</i>	NM_000271	607623	86	100	99	97	91
<i>NPC2</i>	NM_006432	601015	90	100	100	100	98
<i>NPHP1</i>	NM_001128179	607100	80	100	100	97	89
<i>NPHP3</i>	NM_153240	608002	87	100	98	94	87
<i>NPHP4</i>	NM_001291593	607215	85	100	100	98	92
<i>NPHS1</i>	NM_004646	602716	79	100	100	98	92
<i>NPHS2</i>	NM_014625	604766	77	100	100	99	95
<i>NPR2</i>	NM_003995	108961	95	100	100	99	96
<i>NR1I3</i>	NM_001077470	603881	65	100	100	100	92
<i>NR2F1</i>	NM_005654	132890	127	100	100	100	97
<i>NR2F2</i>	NM_001145155	107773	191	100	100	100	100
<i>NR5A1</i>	NM_004959	184757	75	100	99	96	90
<i>NRAS</i>	NM_002524	164790	97	100	100	100	98
<i>NRXN1</i>	NM_001135659	600565	95	100	100	99	96
<i>NRXN2</i>	NM_015080	600566	83	99	96	93	86
<i>NRXN3</i>	NM_001272020	600567	104	100	100	100	99
<i>NSD1</i>	NM_172349	606681	121	100	100	99	96
<i>NSDHL</i>	NM_001129765	300275	94	100	100	96	91
<i>NSUN2</i>	NM_017755	610916	79	98	95	91	82
<i>NT5C3A</i>	NM_001002009	606224	47	98	88	73	46
<i>NTRK1</i>	NM_001007792	191315	83	100	99	97	93
<i>NTRK2</i>	NM_001018064	600456	95	100	100	99	97
<i>NUBPL</i>	NM_001201574	613621	77	100	100	98	93
<i>NUP107</i>	NM_020401	607617	82	100	97	93	86
<i>NUP62</i>	NM_001193357	605815	90	100	100	100	86
<i>NUS1</i>	NM_138459	610463	97	74	62	61	61
<i>NYX</i>	NM_022567	300278	93	100	98	96	95
<i>OBSL1</i>	NM_001173408	610991	89	100	100	100	98
<i>OCLN</i>	NM_002538	602876	101	96	92	87	85
<i>OCRL</i>	NM_000276	300535	83	100	99	98	92
<i>OFD1</i>	NM_003611	300170	50	89	77	68	50
<i>OPHN1</i>	NM_002547	300127	71	100	98	95	86
<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>OSGEP</i>	NM_017807	610107	101	100	98	95	93

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>OTC</i>	NM_000531	300461	84	100	100	99	91
<i>OTOGL</i>	NM_173591	614925	73	100	96	88	71
<i>OTUD6B</i>	NM_016023	612021	71	100	99	90	74
<i>OTX2</i>	NM_001270523	600037	96	100	100	99	96
<i>OXCT1</i>	NM_000436	601424	85	100	99	98	90
<i>P4HB</i>	NM_000918	176790	79	100	100	97	93
<i>PACS1</i>	NM_018026	607492	79	100	99	98	92
<i>PACS2</i>	NM_001243127	610423	88	100	100	99	94
<i>PAFAH1B1</i>	NM_000430	601545	69	89	80	73	66
<i>PAH</i>	NM_000277	612349	83	100	100	100	93
<i>PAK3</i>	NM_001128168	300142	69	100	98	94	85
<i>PALB2</i>	NM_024675	610355	104	100	100	99	97
<i>PANK2</i>	NM_024960	606157	114	100	100	100	100
<i>PAPSS2</i>	NM_004670	603005	79	100	99	96	84
<i>PARN</i>	NM_002582	604212	82	100	100	97	86
<i>PARP1</i>	NM_001618	173870	66	100	99	94	84
<i>PAX1</i>	NM_001257096	167411	70	94	89	84	73
<i>PAX2</i>	NM_003987	167409	108	100	100	99	93
<i>PAX3</i>	NM_000438	606597	83	100	100	100	96
<i>PAX6</i>	NM_000280	607108	90	100	100	100	96
<i>PAX8</i>	NM_013992	167415	70	100	100	98	88
<i>PAX9</i>	NM_006194	167416	168	97	97	95	85
<i>PC</i>	NM_000920	608786	108	100	100	100	98
<i>PCBD1</i>	NM_001289797	126090	66	100	100	100	69
<i>PCCA</i>	NM_001127692	232000	68	99	93	89	76
<i>PCCB</i>	NM_000532	232050	84	100	100	100	93
<i>PCDH19</i>	NM_001105243	300460	146	100	100	97	90
<i>PCGF2</i>	NM_007144	600346	77	100	99	95	80
<i>PCNT</i>	NM_006031	605925	77	100	97	93	84
<i>PCYT1A</i>	NM_005017	123695	69	99	96	91	87
<i>PDCD10</i>	NM_007217	609118	71	100	99	89	77
<i>PDE10A</i>	NM_001130690	610652	82	100	99	99	95
<i>PDE4D</i>	NM_001197218	600129	84	100	100	98	89
<i>PDE6G</i>	NM_002602	180073	87	100	100	100	100
<i>PDE6H</i>	NM_006205	601190	70	100	97	77	72
<i>PDGFRB</i>	NM_002609	173410	87	100	98	95	89
<i>PDHA1</i>	NM_000284	300502	71	100	96	94	83
<i>PDHX</i>	NM_003477	608769	90	100	100	97	90
<i>PDSS1</i>	NM_014317	607429	79	97	91	87	83
<i>PDSS2</i>	NM_020381	610564	84	99	95	91	83
<i>PECR</i>	NM_018441	605843	77	100	100	100	96
<i>PEPD</i>	NM_001166057	613230	72	100	99	96	92
<i>PET100</i>	NM_001171155	614770	84	100	93	91	91
<i>PEX1</i>	NM_001282677	602136	84	100	99	96	89
<i>PEX10</i>	NM_002617	602859	77	100	93	91	89

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>PEX11B</i>	NM_001184795	603867	68	100	100	99	96
<i>PEX12</i>	NM_000286	601758	91	100	100	100	100
<i>PEX13</i>	NM_002618	601789	109	100	100	100	100
<i>PEX14</i>	NM_004565	601791	78	100	99	97	90
<i>PEX16</i>	NM_004813	603360	93	100	100	100	98
<i>PEX19</i>	NM_002857	600279	72	100	99	97	87
<i>PEX2</i>	NM_000318	170993	111	100	100	100	100
<i>PEX26</i>	NM_017929	608666	102	100	100	95	83
<i>PEX3</i>	NM_003630	603164	65	100	99	94	74
<i>PEX5</i>	NM_000319	600414	67	100	99	96	84
<i>PEX6</i>	NM_000287	601498	101	99	95	92	86
<i>PEX7</i>	NM_000288	601757	83	100	96	91	83
<i>PGAP1</i>	NM_024989	611655	63	100	96	88	67
<i>PGAP2</i>	NM_001283039	615187	112	100	100	100	97
<i>PGAP3</i>	NM_033419	611801	67	100	98	96	90
<i>PGK1</i>	NM_000291	311800	48	93	87	78	46
<i>PGM1</i>	NM_001172818	171900	86	100	100	98	89
<i>PGM3</i>	NM_001199917	172100	97	100	100	99	93
<i>PHACTR1</i>	NM_001242648	608723	74	100	100	98	86
<i>PHACTR2</i>	NM_014721	608724	85	100	100	97	90
<i>PHACTR3</i>	NM_183246	608725	71	100	100	97	83
<i>PHACTR4</i>	NM_023923	608726	84	100	100	96	85
<i>PHC1</i>	NM_004426	602978	97	100	97	93	88
<i>PHF10</i>	NM_133325	613069	47	86	75	66	46
<i>PHF21A</i>	NM_016621	608325	65	100	99	94	74
<i>PHF6</i>	NM_001015877	300414	56	100	94	85	61
<i>PHF8</i>	NM_001184897	300560	62	100	98	94	76
<i>PHGDH</i>	NM_006623	606879	81	100	100	97	90
<i>PHIP</i>	NM_017934	612870	91	98	95	90	80
<i>PHOX2B</i>	NM_003924	603851	82	100	98	94	91
<i>PIEZO1</i>	NM_001142864	611184	105	100	99	98	94
<i>PIEZO2</i>	NM_022068	613629	77	100	99	97	90
<i>PIGA</i>	NM_002641	311770	64	94	84	76	68
<i>PIGG</i>	NM_001289055	616918	92	100	100	99	97
<i>PIGL</i>	NM_004278	605947	52	100	100	94	53
<i>PIGN</i>	NM_012327	606097	83	100	98	92	76
<i>PIGO</i>	NM_001201484	614730	105	100	100	99	96
<i>PIGQ</i>	NM_148920	605754	90	100	100	99	97
<i>PIGT</i>	NM_001184728	610272	133	100	100	100	100
<i>PIGV</i>	NM_017837	610274	107	100	100	100	99
<i>PIGW</i>	NM_178517	610275	109	100	100	99	97
<i>PIGY</i>	NM_001042616	610662	80	100	100	100	100
<i>PIH1D3</i>	NM_001169154	300933	61	100	90	74	65
<i>PIK3CA</i>	NM_006218	171834	75	100	100	99	93
<i>PIK3R1</i>	NM_181524	171833	95	100	100	98	94

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>PIK3R2</i>	NM_005027	603157	73	95	94	92	83
<i>PIP5K1C</i>	NM_001300849	606102	74	97	96	95	88
<i>PITX1</i>	NM_002653	602149	105	98	94	91	83
<i>PITX2</i>	NM_001204397	601542	129	100	100	100	99
<i>PITX3</i>	NM_005029	602669	54	100	97	86	57
<i>PKD1L1</i>	NM_138295	609721	78	100	100	98	90
<i>PKHD1</i>	NM_138694	606702	89	100	100	98	94
<i>PLA2G6</i>	NM_001004426	603604	69	100	98	94	84
<i>PLAA</i>	NM_001031689	603873	106	100	99	95	88
<i>PLCB1</i>	NM_182734	607120	84	100	100	100	96
<i>PLCB4</i>	NM_000933	600810	79	100	98	95	84
<i>PLCE1</i>	NM_001288989	608414	91	100	99	98	94
<i>PLCG2</i>	NM_002661	600220	70	100	100	98	89
<i>PLEC</i>	NM_201380	601282	85	100	100	99	95
<i>PLK4</i>	NM_001190801	605031	76	100	98	90	77
<i>PLOD1</i>	NM_000302	153454	78	100	97	95	89
<i>PLOD2</i>	NM_000935	601865	78	100	97	92	78
<i>PLOD3</i>	NM_001084	603066	81	100	100	97	87
<i>PLP1</i>	NM_001128834	300401	71	100	99	97	80
<i>PLXND1</i>	NM_015103	604282	78	99	97	94	84
<i>PMM2</i>	NM_000303	601785	96	100	100	98	96
<i>PMS2</i>	NM_000535	600259	8	50	44	40	36
<i>PNKP</i>	NM_007254	605610	82	100	100	99	97
<i>PNPLA1</i>	NM_001145716	612121	102	100	100	100	99
<i>PNPLA2</i>	NM_020376	609059	79	100	99	99	96
<i>PNPT1</i>	NM_033109	610316	43	98	87	70	34
<i>POC1A</i>	NM_001161580	614783	76	100	100	100	98
<i>POC1B</i>	NM_001199777	614784	59	100	98	91	69
<i>POGZ</i>	NM_145796	614787	93	99	99	98	95
<i>POLD1</i>	NM_001256849	174761	86	98	96	93	85
<i>POLG</i>	NM_001126131	174763	80	100	99	98	91
<i>POLR1A</i>	NM_015425	616404	69	100	99	95	83
<i>POLR1C</i>	NM_203290	610060	76	100	99	98	97
<i>POLR1D</i>	NM_001206559	613715	109	100	100	100	100
<i>POLR3A</i>	NM_007055	614258	88	100	100	99	95
<i>POLR3B</i>	NM_001160708	614366	86	100	100	97	88
<i>POMGNT1</i>	NM_001290129	606822	85	100	100	99	93
<i>POMGNT2</i>	NM_032806	614828	146	100	100	100	100
<i>POMP</i>	NM_015932	613386	83	100	94	92	78
<i>POMT1</i>	NM_007171	607423	77	100	98	97	92
<i>POMT2</i>	NM_013382	607439	76	100	99	97	93
<i>PORCN</i>	NM_203475	300651	91	100	100	99	92
<i>POT1</i>	NM_015450	606478	60	100	98	89	64
<i>POU1F1</i>	NM_001122757	173110	75	100	97	95	93
<i>PPA2</i>	NM_176866	609988	91	100	95	88	76



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>PPM1D</i>	NM_003620	605100	110	100	100	99	97
<i>PPP1CB</i>	NM_206876	600590	69	100	100	94	78
<i>PPP1R15B</i>	NM_032833	613257	104	100	100	99	98
<i>PPP2R1A</i>	NM_014225	605983	100	100	100	99	96
<i>PPP2R5D</i>	NM_001270476	601646	125	100	100	100	100
<i>PPP3CA</i>	NM_000944	114105	85	100	97	93	87
<i>PPT1</i>	NM_000310	600722	105	100	100	100	100
<i>PQBP1</i>	NM_001032381	300463	116	100	100	100	100
<i>PRDM12</i>	NM_021619	616458	68	90	88	84	74
<i>PRDM6</i>	NM_001136239	616982	79	100	89	83	81
<i>PREPL</i>	NM_001171613	609557	77	100	99	95	84
<i>PRKAR1A</i>	NM_001278433	188830	62	98	90	83	64
<i>PRKD1</i>	NM_002742	605435	103	100	99	96	89
<i>PRMT7</i>	NM_001184824	610087	76	100	100	98	90
<i>PRMT9</i>	NM_138364	616125	96	100	100	98	97
<i>PROP1</i>	NM_006261	601538	82	91	84	79	63
<i>PROSC</i>	NM_007198	NA	77	100	95	93	84
<i>PROX2</i>	NM_001243007	615094	115	100	100	97	89
<i>PRPS1</i>	NM_001204402	311850	79	100	100	100	100
<i>PRRT2</i>	NM_001256443	614386	94	100	100	100	100
<i>PRRX1</i>	NM_022716	167420	72	100	100	98	92
<i>PRSS12</i>	NM_003619	606709	88	100	100	99	93
<i>PRSS56</i>	NM_001195129	613858	66	100	98	93	78
<i>PRUNE</i>	NM_021222	NA	85	100	100	98	90
<i>PSAP</i>	NM_001042465	176801	76	100	100	98	92
<i>PSAT1</i>	NM_021154	610936	39	94	78	64	35
<i>PSMA7</i>	NM_002792	606607	84	100	100	98	89
<i>PSMB8</i>	NM_148919	177046	96	100	100	97	85
<i>PSMD12</i>	NM_002816	604450	71	100	94	86	75
<i>PSPH</i>	NM_004577	172480	80	100	100	97	94
<i>PTCH1</i>	NM_001083604	601309	78	100	99	98	93
<i>PTCHD1</i>	NM_173495	300828	116	100	100	100	99
<i>PTDSS1</i>	NM_001290225	612792	93	100	100	100	86
<i>PTEN</i>	NM_000314	601728	94	100	97	89	78
<i>PTF1A</i>	NM_178161	607194	102	99	90	81	72
<i>PTH</i>	NM_000315	168450	88	100	100	96	93
<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>PTPN14</i>	NM_005401	603155	98	99	97	96	92
<i>PTPRF</i>	NM_002840	179590	110	100	100	99	97
<i>PTRH2</i>	NM_016077	608625	142	100	100	100	100
<i>PTS</i>	NM_000317	612719	92	100	99	96	89
<i>PUF60</i>	NM_001271099	604819	124	100	100	99	98
<i>PURA</i>	NM_005859	600473	156	99	89	87	85

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>PVRL1</i>	NM_203286	NA	84	100	100	100	99
<i>PVRL4</i>	NM_030916	NA	74	100	100	99	96
<i>PXDN</i>	NM_012293	605158	95	100	100	97	87
<i>PYCR1</i>	NM_153824	179035	65	100	98	93	74
<i>PYCR2</i>	NM_013328	616406	93	100	99	98	95
<i>PYGL</i>	NM_002863	613741	93	100	100	100	93
<i>PYROXD1</i>	NM_024854	617220	44	91	76	65	45
<i>QARS</i>	NM_001272073	603727	125	100	100	100	99
<i>QDPR</i>	NM_000320	612676	72	100	100	97	74
<i>QKI</i>	NM_001301085	609590	83	100	100	100	99
<i>QRICH1</i>	NM_017730	617387	108	100	99	96	83
<i>RAB11A</i>	NM_001206836	605570	107	100	100	100	98
<i>RAB11B</i>	NM_004218	604198	108	100	100	100	100
<i>RAB18</i>	NM_001256412	602207	81	100	99	91	83
<i>RAB23</i>	NM_001278666	606144	81	100	100	93	72
<i>RAB39B</i>	NM_171998	300774	82	100	100	100	100
<i>RAB3GAP1</i>	NM_001172435	602536	80	100	99	97	88
<i>RAB3GAP2</i>	NM_012414	609275	72	100	97	90	77
<i>RAB40AL</i>	NM_001031834	300405	108	100	100	100	100
<i>RABL6</i>	NM_001173989	610615	70	100	100	97	82
<i>RAC1</i>	NM_018890	602048	70	100	96	89	81
<i>RAD21</i>	NM_006265	606462	60	98	94	84	63
<i>RAD50</i>	NM_005732	604040	65	97	91	82	65
<i>RAD51</i>	NM_001164270	179617	77	100	100	100	94
<i>RAD51C</i>	NM_002876	602774	96	100	100	100	100
<i>RAF1</i>	NM_002880	164760	87	100	100	99	95
<i>RAI1</i>	NM_030665	607642	139	100	100	100	99
<i>RALGDS</i>	NM_001271775	601619	73	100	99	97	88
<i>RANBP2</i>	NM_006267	601181	0	12	12	11	11
<i>RAPGEF1</i>	NM_005312	600303	68	100	100	97	89
<i>RAPSN</i>	NM_005055	601592	82	100	95	95	92
<i>RARB</i>	NM_001290216	180220	77	100	100	100	97
<i>RARS2</i>	NM_020320	611524	86	100	100	98	83
<i>RASA1</i>	NM_022650	139150	80	98	93	83	65
<i>RAX</i>	NM_013435	601881	76	100	90	82	76
<i>RBBP8</i>	NM_002894	604124	84	100	100	96	84
<i>RBM10</i>	NM_001204466	300080	114	100	99	98	96
<i>RBM28</i>	NM_018077	612074	85	100	100	100	98
<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>RELN</i>	NM_005045	600514	87	100	100	98	92
<i>RERE</i>	NM_001042682	605226	66	96	88	77	62
<i>RET</i>	NM_020975	164761	73	100	98	92	82
<i>RFT1</i>	NM_052859	611908	74	100	100	97	88

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>RFX6</i>	NM_173560	612659	96	100	100	98	90
<i>RGS7</i>	NM_001282778	602517	87	100	100	97	91
<i>RIN2</i>	NM_001242581	610222	88	100	100	99	94
<i>RIPK4</i>	NM_020639	605706	86	100	100	98	95
<i>RIT1</i>	NM_001256820	609591	87	100	100	100	100
<i>RLIM</i>	NM_016120	300379	103	100	99	94	91
<i>RMND1</i>	NM_001271937	614917	66	100	100	97	75
<i>RMRP</i>	NA	NA	NA	NA	NA	NA	NA
<i>RNASEH2A</i>	NM_006397	606034	89	100	100	99	98
<i>RNASEH2B</i>	NM_001142279	610326	79	99	95	90	81
<i>RNASEH2C</i>	NM_032193	610330	159	100	100	100	100
<i>RNASET2</i>	NM_003730	612944	79	98	95	94	93
<i>RNF113A</i>	NM_006978	300951	114	100	100	100	100
<i>RNF135</i>	NM_032322	611358	66	100	100	98	88
<i>RNF168</i>	NM_152617	612688	113	100	100	94	87
<i>RNU4ATAC</i>	NA	NA	NA	NA	NA	NA	NA
<i>ROBO3</i>	NM_022370	608630	81	100	97	93	80
<i>ROGDI</i>	NM_024589	614574	75	100	99	99	97
<i>ROR2</i>	NM_004560	602337	96	100	100	99	94
<i>RPE65</i>	NM_000329	180069	99	100	100	99	95
<i>RPGRIP1</i>	NM_020366	605446	88	100	100	99	95
<i>RPGRIP1L</i>	NM_001127897	610937	85	100	98	92	80
<i>RPL10</i>	NM_001256577	312173	90	100	98	95	82
<i>RPS19</i>	NM_001022	603474	68	100	98	91	72
<i>RPS23</i>	NM_001025	603683	77	92	84	77	59
<i>RPS26</i>	NM_001029	603701	105	99	94	91	89
<i>RPS28</i>	NM_001031	603685	75	100	96	92	89
<i>RPS6KA3</i>	NM_004586	300075	67	99	92	84	67
<i>RRAS</i>	NM_006270	165090	76	100	96	92	82
<i>RRM2B</i>	NM_015713	604712	98	100	100	98	91
<i>RSPH1</i>	NM_080860	609314	103	100	100	99	94
<i>RSPH3</i>	NM_031924	615876	101	100	98	93	89
<i>RSPO4</i>	NM_001029871	610573	68	100	100	100	96
<i>RSPRY1</i>	NM_133368	616585	78	100	100	99	93
<i>RTEL1</i>	NM_016434	608833	93	100	98	96	89
<i>RTN4IP1</i>	NM_032730	610502	64	100	99	95	73
<i>RTTN</i>	NM_173630	610436	81	99	98	95	89
<i>RUNX2</i>	NM_001015051	600211	86	100	100	100	99
<i>RYR1</i>	NM_000540	180901	79	99	97	94	87
<i>RYR3</i>	NM_001036	180903	89	100	99	97	92
<i>SACS</i>	NM_001278055	604490	111	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>SAMD9L</i>	NM_152703	611170	125	100	100	100	100
<i>SAMHD1</i>	NM_015474	606754	89	100	99	92	80

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SATB2</i>	NM_001172509	608148	78	100	97	90	84
<i>SBDS</i>	NM_016038	607444	110	100	100	100	98
<i>SC5D</i>	NM_006918	602286	92	100	100	98	96
<i>SCAPER</i>	NM_001145923	611611	90	98	98	96	90
<i>SCARF2</i>	NM_153334	613619	84	98	93	87	81
<i>SCN11A</i>	NM_001287223	604385	83	100	98	95	83
<i>SCN1A</i>	NM_001165963	182389	90	100	99	95	84
<i>SCN1B</i>	NM_001037	600235	107	100	96	96	96
<i>SCN2A</i>	NM_001040142	182390	94	100	97	94	88
<i>SCN3A</i>	NM_001081676	182391	108	100	99	95	90
<i>SCN4A</i>	NM_000334	603967	112	100	99	98	93
<i>SCN8A</i>	NM_001177984	600702	103	100	100	99	97
<i>SCO1</i>	NM_004589	603644	91	100	99	96	82
<i>SCO2</i>	NM_001169109	604272	90	100	100	100	98
<i>SCRIB</i>	NM_182706	607733	94	100	99	98	93
<i>SCYL1</i>	NM_001048218	607982	102	100	100	100	97
<i>SDCCAG8</i>	NM_006642	613524	79	100	100	97	91
<i>SDHA</i>	NM_001294332	600857	75	81	76	72	66
<i>SDHAF1</i>	NM_001042631	612848	54	100	100	100	95
<i>SEC23A</i>	NM_006364	610511	76	100	98	94	81
<i>SEC23B</i>	NM_006363	610512	86	100	98	97	93
<i>SEC24D</i>	NM_014822	607186	77	100	100	97	87
<i>SEC61A1</i>	NM_013336	609213	76	100	100	99	97
<i>SECISBP2</i>	NM_001282688	607693	77	100	98	93	85
<i>SERAC1</i>	NM_032861	614725	79	100	99	94	87
<i>SET</i>	NM_001248000	600960	53	96	91	85	59
<i>SETBP1</i>	NM_001130110	611060	90	100	100	96	87
<i>SETD1A</i>	NM_014712	611052	103	100	99	97	94
<i>SETD5</i>	NM_001080517	615743	92	100	100	100	99
<i>SF3B4</i>	NM_005850	605593	72	100	99	91	83
<i>SGCE</i>	NM_001099400	604149	65	100	96	91	69
<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>SHANK1</i>	NM_016148	604999	65	95	87	81	69
<i>SHANK2</i>	NM_133266	603290	97	100	100	99	95
<i>SHANK3</i>	NM_033517	606230	88	94	88	83	76
<i>SHH</i>	NM_000193	600725	66	100	99	97	90
<i>SHOC2</i>	NM_007373	602775	99	100	100	97	88
<i>SHOX</i>	NM_000451	312865	0	0	0	0	0
<i>SHROOM3</i>	NM_020859	604570	110	100	99	97	94
<i>SHROOM4</i>	NM_020717	300579	83	100	99	97	89
<i>SIK1</i>	NM_173354	605705	85	99	97	93	84
<i>SIL1</i>	NM_001037633	608005	86	100	98	96	88
<i>SIN3A</i>	NM_001145357	607776	82	100	99	95	86

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SIX1</i>	NM_005982	601205	97	100	96	91	86
<i>SIX3</i>	NM_005413	603714	139	100	99	95	89
<i>SIX5</i>	NM_175875	600963	45	99	88	74	41
<i>SIX6</i>	NM_007374	606326	193	100	100	100	100
<i>SKI</i>	NM_003036	164780	84	100	98	93	90
<i>SKIV2L</i>	NM_006929	600478	102	100	100	99	97
<i>SLC12A1</i>	NM_000338	600839	87	100	100	99	95
<i>SLC12A5</i>	NM_020708	606726	89	100	100	99	92
<i>SLC12A6</i>	NM_001042494	604878	76	100	100	100	96
<i>SLC13A5</i>	NM_001284509	608305	78	100	100	99	95
<i>SLC16A2</i>	NM_006517	300095	45	98	88	75	37
<i>SLC17A5</i>	NM_012434	604322	82	100	96	95	89
<i>SLC19A3</i>	NM_025243	606152	111	100	100	100	99
<i>SLC1A2</i>	NM_004171	600300	81	100	98	93	80
<i>SLC1A4</i>	NM_001193493	600229	87	100	100	99	97
<i>SLC22A5</i>	NM_003060	603377	84	100	100	100	98
<i>SLC24A1</i>	NM_001254740	603617	103	100	100	100	92
<i>SLC24A4</i>	NM_153648	609840	69	100	100	97	83
<i>SLC25A15</i>	NM_014252	603861	73	99	95	91	89
<i>SLC25A19</i>	NM_001126121	606521	61	100	97	91	73
<i>SLC25A20</i>	NM_000387	613698	62	100	100	98	86
<i>SLC25A22</i>	NM_001191060	609302	95	100	100	98	93
<i>SLC25A24</i>	NM_013386	608744	86	100	100	95	88
<i>SLC25A26</i>	NM_001164796	611037	78	100	97	96	86
<i>SLC25A38</i>	NM_017875	610819	79	100	97	93	85
<i>SLC25A4</i>	NM_001151	103220	91	100	100	98	84
<i>SLC26A2</i>	NM_000112	606718	151	100	100	100	99
<i>SLC27A4</i>	NM_005094	604194	88	100	100	100	99
<i>SLC2A1</i>	NM_006516	138140	111	100	100	100	97
<i>SLC2A10</i>	NM_030777	606145	114	100	100	98	91
<i>SLC2A2</i>	NM_000340	138160	109	100	100	100	99
<i>SLC31A1</i>	NM_001859	603085	77	98	93	89	87
<i>SLC33A1</i>	NM_001190992	603690	112	99	95	90	88
<i>SLC35A1</i>	NM_001168398	605634	92	100	100	98	88
<i>SLC35A2</i>	NM_001282648	314375	76	100	100	100	97
<i>SLC35C1</i>	NM_001145265	605881	129	100	100	98	95
<i>SLC35D1</i>	NM_015139	610804	106	100	97	90	78
<i>SLC39A13</i>	NM_001128225	608735	105	100	100	96	92
<i>SLC39A8</i>	NM_001135146	608732	86	100	100	100	94
<i>SLC45A1</i>	NM_001080397	605763	82	100	100	98	96
<i>SLC46A1</i>	NM_080669	611672	107	100	99	90	77
<i>SLC4A1</i>	NM_000342	109270	83	100	100	99	98
<i>SLC4A11</i>	NM_001174089	610206	103	100	100	99	97
<i>SLC4A4</i>	NM_003759	603345	81	100	99	97	92
<i>SLC52A3</i>	NM_033409	613350	80	100	100	98	86

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SLC5A5</i>	NM_000453	601843	76	100	100	95	89
<i>SLC5A7</i>	NM_021815	608761	79	100	100	98	87
<i>SLC6A1</i>	NM_003042	137165	79	100	100	99	93
<i>SLC6A17</i>	NM_001010898	610299	90	100	100	99	97
<i>SLC6A3</i>	NM_001044	126455	83	100	100	99	95
<i>SLC6A5</i>	NM_004211	604159	74	100	100	99	89
<i>SLC6A8</i>	NM_001142806	300036	55	99	93	84	63
<i>SLC6A9</i>	NM_001024845	601019	99	100	100	100	100
<i>SLC9A6</i>	NM_001177651	300231	74	99	94	88	75
<i>SLC9A9</i>	NM_173653	608396	74	100	99	94	87
<i>SLX4</i>	NM_032444	613278	91	100	100	98	95
<i>SMAD2</i>	NM_001003652	601366	97	100	100	98	92
<i>SMAD3</i>	NM_001145102	603109	93	100	100	98	87
<i>SMAD4</i>	NM_005359	600993	77	100	100	98	95
<i>SMARCA2</i>	NM_001289400	600014	78	100	100	100	92
<i>SMARCA4</i>	NM_001128844	603254	89	100	100	99	97
<i>SMARCAL1</i>	NM_014140	606622	79	100	100	97	93
<i>SMARCB1</i>	NM_001007468	601607	99	100	100	100	100
<i>SMARCE1</i>	NM_003079	603111	63	99	91	85	71
<i>SMC1A</i>	NM_001281463	300040	76	100	100	98	93
<i>SMC3</i>	NM_005445	606062	68	98	91	83	66
<i>SMCHD1</i>	NM_015295	614982	65	100	97	91	73
<i>SMG9</i>	NM_019108	613176	65	100	100	99	91
<i>SMO</i>	NM_005631	601500	89	100	98	95	91
<i>SMOC1</i>	NM_022137	608488	71	100	98	94	79
<i>SMOC2</i>	NM_001166412	607223	77	100	98	93	81
<i>SMPD1</i>	NM_001007593	607608	106	100	99	96	89
<i>SMS</i>	NM_001258423	300105	66	90	81	75	65
<i>SNAP25</i>	NM_003081	600322	79	100	100	96	89
<i>SNAP29</i>	NM_004782	604202	91	100	100	100	100
<i>SNIP1</i>	NM_024700	608241	93	100	99	96	95
<i>SNORD107</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD108</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD109A</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD109B</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD116@</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD118</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNORD64</i>	NA	NA	NA	NA	NA	NA	NA
<i>SNRPB</i>	NM_198216	182282	65	100	100	97	88
<i>SNRPE</i>	NM_003094	128260	71	100	96	88	83
<i>SNRPN</i>	NM_022806	182279	106	100	99	91	83
<i>SNURF</i>	NM_022804	NA	111	100	100	100	95
<i>SNX14</i>	NM_020468	616105	58	100	94	82	60
<i>SNX3</i>	NM_152827	605930	91	100	100	92	86
<i>SOBP</i>	NM_018013	613667	107	99	96	93	86

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SON</i>	NM_001291411	182465	131	100	97	94	89
<i>SOS1</i>	NM_005633	182530	70	100	97	90	76
<i>SOX10</i>	NM_006941	602229	61	100	98	90	67
<i>SOX11</i>	NM_003108	600898	120	100	100	100	97
<i>SOX17</i>	NM_022454	610928	82	100	100	100	100
<i>SOX2</i>	NM_003106	184429	151	100	100	100	99
<i>SOX3</i>	NM_005634	313430	59	95	80	73	56
<i>SOX5</i>	NM_001261415	604975	65	100	98	92	72
<i>SOX9</i>	NM_000346	608160	100	100	100	98	92
<i>SPAG1</i>	NM_172218	603395	76	100	95	85	66
<i>SPARC</i>	NM_003118	182120	93	100	100	100	89
<i>SPATA5</i>	NM_145207	613940	90	100	100	98	87
<i>SPECC1L</i>	NM_001254732	614140	95	100	100	99	94
<i>SPEG</i>	NM_001173476	615950	75	100	100	95	92
<i>SPG11</i>	NM_025137	610844	82	100	98	93	82
<i>SPG20</i>	NM_001142294	NA	92	100	98	93	92
<i>SPR</i>	NM_003124	182125	109	100	100	94	71
<i>SPRED1</i>	NM_152594	609291	114	100	98	97	97
<i>SPRTN</i>	NM_001010984	616086	104	100	100	100	100
<i>SPRY2</i>	NM_005842	602466	97	100	100	100	100
<i>SPTAN1</i>	NM_001195532	182810	88	100	100	98	93
<i>SPTLC2</i>	NM_004863	605713	88	100	100	100	99
<i>SRCAP</i>	NM_006662	611421	87	100	100	99	97
<i>SRD5A3</i>	NM_024592	611715	78	100	99	97	94
<i>SRGAP3</i>	NM_001033117	606525	68	100	100	98	89
<i>SRPX2</i>	NM_014467	300642	56	100	98	90	64
<i>SRY</i>	NM_003140	480000	42	100	100	86	0
<i>ST14</i>	NM_021978	606797	84	100	99	98	97
<i>ST3GAL3</i>	NM_001270463	606494	92	100	100	100	97
<i>ST3GAL5</i>	NM_001042437	604402	114	100	100	95	78
<i>STAG1</i>	NM_005862	604358	79	100	96	88	73
<i>STAMBP</i>	NM_201647	606247	77	100	98	93	85
<i>STAR</i>	NM_000349	600617	78	100	100	100	99
<i>STAT1</i>	NM_007315	600555	77	100	98	97	88
<i>STAT2</i>	NM_005419	600556	91	100	100	99	96
<i>STAT5B</i>	NM_012448	604260	90	99	96	93	86
<i>STIL</i>	NM_001282938	181590	106	100	100	97	90
<i>STIM1</i>	NM_001277962	605921	82	100	97	92	87
<i>STRA6</i>	NM_001199040	610745	79	100	100	99	93
<i>STS</i>	NM_000351	300747	75	100	97	94	79
<i>STT3A</i>	NM_001278503	601134	90	100	100	99	90
<i>STT3B</i>	NM_178862	608605	80	100	99	95	83
<i>STX1B</i>	NM_052874	601485	145	100	100	96	88
<i>STXBP1</i>	NM_001032221	602926	76	100	100	99	91
<i>SUCLA2</i>	NM_003850	603921	59	96	88	78	63



HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>SUCLG1</i>	NM_003849	611224	77	100	100	96	85
<i>SUFU</i>	NM_016169	607035	78	100	100	98	96
<i>SUMF1</i>	NM_182760	607939	73	100	98	91	79
<i>SUMO1</i>	NM_001005782	601912	23	83	63	40	0
<i>SUOX</i>	NM_000456	606887	119	100	100	100	99
<i>SURF1</i>	NM_001280787	185620	67	100	100	100	97
<i>SUV420H1</i>	NM_001300908	NA	144	100	100	99	98
<i>SYN1</i>	NM_133499	313440	66	93	88	85	72
<i>SYNE1</i>	NM_182961	608441	81	100	99	97	89
<i>SYNGAP1</i>	NM_006772	603384	83	97	96	91	79
<i>SYP</i>	NM_003179	313475	61	100	100	97	84
<i>SYT1</i>	NM_001135805	185605	103	100	99	98	95
<i>SYT14</i>	NM_001256006	610949	121	100	100	95	94
<i>SZT2</i>	NM_015284	615463	101	100	100	99	97
<i>TAB2</i>	NM_001292035	605101	164	100	100	97	90
<i>TAC3</i>	NM_013251	162330	64	100	100	91	81
<i>TACO1</i>	NM_016360	612958	55	99	94	83	59
<i>TACR3</i>	NM_001059	162332	101	100	100	99	97
<i>TAF1</i>	NM_001286074	313650	80	100	98	96	90
<i>TAF13</i>	NM_005645	600774	65	100	100	100	82
<i>TAF2</i>	NM_003184	604912	83	100	97	91	74
<i>TANC2</i>	NM_025185	615047	90	100	99	98	93
<i>TANGO2</i>	NM_001283215	616830	103	100	100	98	95
<i>TAPT1</i>	NM_153365	612758	75	95	92	86	73
<i>TARS2</i>	NM_001271895	612805	83	100	99	95	89
<i>TAT</i>	NM_000353	613018	86	100	100	100	96
<i>TAZ</i>	NM_181311	300394	68	100	100	100	91
<i>TBC1D23</i>	NM_001199198	617687	67	97	95	88	70
<i>TBC1D24</i>	NM_001199107	613577	119	100	100	100	98
<i>TBCD</i>	NM_005993	604649	80	98	96	94	88
<i>TBCE</i>	NM_001079515	604934	80	100	100	99	95
<i>TBCK</i>	NM_033115	616899	67	100	96	88	73
<i>TBL1XR1</i>	NM_024665	608628	58	96	80	68	60
<i>TBR1</i>	NM_006593	604616	102	100	100	100	95
<i>TBX1</i>	NM_005992	602054	80	94	90	87	83
<i>TBX15</i>	NM_152380	604127	81	100	100	100	93
<i>TBX18</i>	NM_001080508	604613	70	100	96	91	76
<i>TBX20</i>	NM_001077653	606061	72	100	100	98	87
<i>TBX22</i>	NM_001109879	300307	98	100	96	93	84
<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>TBXAS1</i>	NM_001130966	274180	82	100	100	100	96
<i>TCF12</i>	NM_003205	600480	79	100	100	100	95
<i>TCF20</i>	NM_005650	603107	99	100	100	100	100

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>TCF4</i>	NM_001243226	602272	77	100	100	99	93
<i>TCN2</i>	NM_000355	613441	80	100	100	100	99
<i>TCOF1</i>	NM_000356	606847	89	100	99	98	92
<i>TCTN1</i>	NM_001173975	609863	65	100	99	96	84
<i>TCTN2</i>	NM_001143850	613846	83	100	99	97	86
<i>TCTN3</i>	NM_001143973	613847	80	100	100	100	96
<i>TDRD7</i>	NM_014290	611258	103	100	99	96	88
<i>TECPR2</i>	NM_014844	615000	85	100	100	99	94
<i>TECR</i>	NM_138501	610057	78	100	100	99	98
<i>TEK</i>	NM_000459	600221	99	100	100	99	93
<i>TELO2</i>	NM_016111	611140	74	100	97	93	83
<i>TERC</i>	NA	NA	NA	NA	NA	NA	NA
<i>TERT</i>	NM_198253	187270	83	100	97	95	92
<i>TFAP2A</i>	NM_003220	107580	84	100	98	93	90
<i>TFAP2B</i>	NM_003221	601601	85	100	97	96	88
<i>TFRC</i>	NM_001128148	190010	88	100	99	97	86
<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>TGFB3</i>	NM_003239	190230	100	100	100	100	100
<i>TGFBR1</i>	NM_004612	190181	94	92	92	92	92
<i>TGFBR2</i>	NM_001024847	190182	95	100	100	100	100
<i>TGIF1</i>	NM_174886	602630	108	100	100	100	100
<i>TH</i>	NM_000360	191290	60	100	98	93	76
<i>THAP1</i>	NM_018105	609520	84	100	100	100	99
<i>THOC2</i>	NM_001081550	300395	66	100	96	87	70
<i>THOC6</i>	NM_001142350	615403	179	100	100	100	100
<i>THRA</i>	NM_199334	190120	92	100	100	99	97
<i>TIMM8A</i>	NM_001145951	300356	61	100	100	93	85
<i>TINF2</i>	NM_001099274	604319	106	100	100	100	100
<i>TK2</i>	NM_001172643	188250	84	100	100	100	95
<i>TKT</i>	NM_001135055	606781	81	100	99	96	90
<i>TLK2</i>	NM_001284333	608439	82	99	96	91	82
<i>TLL1</i>	NM_012464	606742	82	100	100	99	94
<i>TM4SF20</i>	NM_024795	615404	101	100	100	100	100
<i>TMCO1</i>	NM_001256165	614123	80	100	98	93	86
<i>TMEM114</i>	NM_001290095	611579	85	100	100	100	100
<i>TMEM126B</i>	NM_001193537	615533	64	100	97	93	70
<i>TMEM135</i>	NM_001168724	616360	84	100	98	92	83
<i>TMEM165</i>	NM_018475	614726	88	100	100	97	95
<i>TMEM199</i>	NM_152464	616815	63	100	100	99	94
<i>TMEM216</i>	NM_001173991	613277	69	100	97	93	80
<i>TMEM231</i>	NM_001077418	614949	74	100	99	94	90
<i>TMEM237</i>	NM_152388	614423	77	100	99	98	89
<i>TMEM260</i>	NM_017799	617449	85	99	94	88	78

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>TMEM5</i>	NM_014254	NA	102	100	97	89	78
<i>TMEM67</i>	NM_001142301	609884	57	99	92	80	63
<i>TMEM70</i>	NM_017866	612418	65	100	94	91	76
<i>TMEM8C</i>	NM_001080483	NA	81	100	100	100	99
<i>TMPRSS6</i>	NM_153609	609862	72	100	99	95	84
<i>TMTC3</i>	NM_181783	617218	60	100	95	83	61
<i>TNFRSF13B</i>	NM_012452	604907	64	100	100	95	86
<i>TNNI2</i>	NM_003282	191043	74	100	100	100	92
<i>TNPO2</i>	NM_001136195	603002	95	100	100	100	99
<i>TOE1</i>	NM_025077	613931	110	100	100	100	99
<i>TP63</i>	NM_001114978	603273	96	100	100	100	100
<i>TPM2</i>	NM_001301227	190990	98	100	100	100	98
<i>TPP1</i>	NM_000391	607998	85	100	100	100	95
<i>TRAIP</i>	NM_005879	605958	96	100	100	100	93
<i>TRAPPC11</i>	NM_199053	614138	86	100	99	97	91
<i>TRAPPC12</i>	NM_016030	614139	96	100	100	100	91
<i>TRAPPC2</i>	NM_001128835	300202	72	95	79	70	59
<i>TRAPPC9</i>	NM_031466	611966	75	100	100	99	90
<i>TREX1</i>	NM_007248	606609	146	100	100	100	100
<i>TRIM32</i>	NM_001099679	602290	99	100	100	100	99
<i>TRIM37</i>	NM_001005207	605073	75	100	99	98	89
<i>TRIO</i>	NM_007118	601893	82	99	97	95	88
<i>TRIP11</i>	NM_004239	604505	82	97	89	79	63
<i>TRIP12</i>	NM_001284214	604506	90	100	99	98	94
<i>TRIP13</i>	NM_001166260	604507	88	100	100	100	93
<i>TRIP4</i>	NM_016213	604501	74	100	99	93	85
<i>TRIT1</i>	NM_017646	617840	69	100	100	99	91
<i>TRMT1</i>	NM_001136035	611669	86	100	98	96	94
<i>TRMT10A</i>	NM_001134665	616013	82	100	100	92	75
<i>TRMT10C</i>	NM_017819	615423	92	100	100	100	97
<i>TRPM1</i>	NM_001252020	603576	86	100	99	97	89
<i>TRPS1</i>	NM_001282902	604386	128	100	100	100	100
<i>TRPV3</i>	NM_001258205	607066	80	100	100	96	85
<i>TRPV4</i>	NM_001177431	605427	77	100	100	99	96
<i>TSC1</i>	NM_001162426	605284	82	100	99	95	90
<i>TSC2</i>	NM_000548	191092	105	100	100	99	94
<i>TSEN15</i>	NM_001300766	608756	62	100	96	90	76
<i>TSEN2</i>	NM_001145394	608753	85	100	99	95	80
<i>TSEN34</i>	NM_001282333	608754	74	99	95	91	85
<i>TSEN54</i>	NM_207346	608755	78	99	98	96	93
<i>TSHB</i>	NM_000549	188540	149	100	100	100	100
<i>TSHR</i>	NM_000369	603372	109	100	98	97	93
<i>TSHZ1</i>	NM_005786	614427	128	100	100	98	97
<i>TSPAN7</i>	NM_004615	300096	77	100	100	98	83
<i>TSR2</i>	NM_058163	300945	57	100	100	98	82

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>TTC19</i>	NM_001271420	613814	75	100	98	95	86
<i>TTC25</i>	NM_031421	617095	74	100	100	97	90
<i>TTC37</i>	NM_014639	614589	75	100	100	97	89
<i>TTC7A</i>	NM_001288951	609332	73	100	97	95	90
<i>TTC8</i>	NM_198310	608132	80	100	99	94	83
<i>TTI2</i>	NM_001102401	614426	73	100	100	97	86
<i>TTN</i>	NM_133437	188840	136	100	100	100	99
<i>TUBA1A</i>	NM_006009	602529	77	100	99	93	85
<i>TUBA8</i>	NM_001193414	605742	104	100	100	98	94
<i>TUBB</i>	NM_001293213	191130	106	100	98	97	95
<i>TUBB2A</i>	NM_001069	615101	55	85	72	62	53
<i>TUBB2B</i>	NM_178012	612850	57	85	78	82	56
<i>TUBB3</i>	NM_001197181	602661	83	100	100	100	97
<i>TUBB4A</i>	NM_001289130	602662	105	100	100	100	88
<i>TUBG1</i>	NM_001070	191135	92	100	100	100	100
<i>TUBGCP4</i>	NM_014444	609610	76	99	98	95	86
<i>TUBGCP6</i>	NM_020461	610053	107	100	99	98	96
<i>TUFM</i>	NM_003321	602389	120	100	100	98	95
<i>TUSC3</i>	NM_006765	601385	91	100	100	99	94
<i>TWIST1</i>	NM_000474	601622	125	100	91	83	66
<i>TWIST2</i>	NM_001271893	607556	94	100	100	100	100
<i>TXNL4A</i>	NM_006701	611595	75	100	100	100	83
<i>TYR</i>	NM_000372	606933	101	100	100	100	100
<i>TYRP1</i>	NM_000550	115501	102	100	100	100	99
<i>UBA5</i>	NM_198329	610552	88	100	91	81	69
<i>UBE2A</i>	NM_181762	312180	90	100	100	100	100
<i>UBE2T</i>	NM_014176	610538	98	100	100	98	91
<i>UBE3A</i>	NM_000462	601623	74	99	94	87	76
<i>UBE3B</i>	NM_130466	608047	81	100	100	98	89
<i>UBR1</i>	NM_174916	605981	79	100	98	93	80
<i>UBR7</i>	NM_175748	613816	82	100	100	98	89
<i>UBTF</i>	NM_001076683	600673	90	100	100	99	98
<i>UGT1A1</i>	NM_000463	191740	119	100	100	100	99
<i>UMPS</i>	NM_000373	613891	117	100	100	98	97
<i>UNC80</i>	NM_182587	612636	76	100	99	97	89
<i>UPB1</i>	NM_016327	606673	88	100	100	98	97
<i>UPF3B</i>	NM_080632	300298	53	94	85	69	52
<i>UQCRB</i>	NM_001254752	191330	89	100	100	98	91
<i>UQCRQ</i>	NM_014402	612080	99	100	100	100	100
<i>UROC1</i>	NM_001165974	613012	76	100	100	98	90
<i>UROS</i>	NM_000375	606938	78	100	100	99	88
<i>USB1</i>	NM_001195302	613276	72	100	100	100	88
<i>USP18</i>	NM_017414	607057	54	58	58	56	52
<i>USP27X</i>	NM_001145073	300975	138	100	100	100	100
<i>USP7</i>	NM_001286457	602519	69	97	94	87	76

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
<i>USP9X</i>	NM_001039590	300072	79	99	95	88	74
<i>UVSSA</i>	NM_020894	614632	80	100	100	99	93
<i>VAC14</i>	NM_018052	604632	65	100	98	94	80
<i>VANGL1</i>	NM_001172411	610132	88	100	100	99	98
<i>VAR52</i>	NM_001167734	612802	87	100	100	99	94
<i>VDR</i>	NM_000376	601769	64	100	100	99	95
<i>VIP</i>	NM_003381	192320	78	100	100	100	100
<i>VIPAS39</i>	NM_001193314	613401	83	100	100	99	94
<i>VLDLR</i>	NM_003383	192977	115	100	100	99	96
<i>VPS13B</i>	NM_017890	607817	87	100	98	95	89
<i>VPS33B</i>	NM_001289149	608552	78	100	100	100	98
<i>VRK1</i>	NM_003384	602168	77	100	97	95	85
<i>VSX2</i>	NM_182894	142993	70	100	100	98	94
<i>WAC</i>	NM_100264	615049	103	100	98	95	89
<i>WDPCP</i>	NM_015910	613580	90	100	96	92	79
<i>WDR11</i>	NM_018117	606417	77	98	97	95	86
<i>WDR19</i>	NM_025132	608151	81	100	99	95	86
<i>WDR26</i>	NM_001115113	617424	79	99	97	92	73
<i>WDR34</i>	NM_052844	613363	65	100	100	98	86
<i>WDR35</i>	NM_001006657	613602	85	100	99	97	87
<i>WDR45</i>	NM_001029896	300526	66	99	97	94	91
<i>WDR45B</i>	NM_019613	609226	60	99	91	85	72
<i>WDR60</i>	NM_018051	615462	76	100	98	94	86
<i>WDR62</i>	NM_001083961	613583	106	100	100	99	92
<i>WDR73</i>	NM_032856	616144	135	100	100	99	94
<i>WDR81</i>	NM_001163809	614218	116	100	100	99	97
<i>WNK3</i>	NM_001002838	300358	86	100	99	95	87
<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>WNT4</i>	NM_030761	603490	119	95	95	95	94
<i>WNT5A</i>	NM_001256105	164975	100	100	100	100	96
<i>WNT7A</i>	NM_004625	601570	116	100	100	100	98
<i>WRAP53</i>	NM_001143990	612661	90	100	100	100	98
<i>WT1</i>	NM_001198552	607102	73	100	99	94	81
<i>WWOX</i>	NM_001291997	605131	92	100	100	100	99
<i>XPA</i>	NM_000380	611153	45	100	98	79	38
<i>XPC</i>	NM_004628	613208	90	100	100	98	91
<i>XPNPEP3</i>	NM_022098	613553	86	100	100	99	91
<i>XRCC4</i>	NM_003401	194363	86	100	100	98	89
<i>XYLT1</i>	NM_022166	608124	83	97	91	89	83
<i>XYLT2</i>	NM_022167	608125	109	100	98	96	95
<i>YAP1</i>	NM_001282097	606608	83	99	95	90	80
<i>YWHAG</i>	NM_012479	605356	127	100	100	99	86
<i>YY1</i>	NM_003403	600013	84	100	100	97	84

HGNC approved gene symbol	Transcript	OMIM gene ID	median depth	% covered >10x	% covered >20x	% covered >30x	% covered >50x
ZBTB16	NM_006006	176797	99	100	100	99	98
ZBTB18	NM_205768	608433	140	100	99	98	97
ZBTB20	NM_001164342	606025	131	100	100	100	100
ZBTB24	NM_014797	614064	98	100	100	100	99
ZBTB40	NM_001083621	612106	79	100	99	96	92
ZC4H2	NM_018684	300897	62	100	99	93	76
ZCCHC8	NM_017612	616381	84	100	99	93	84
ZDHHC15	NM_144969	300576	71	100	96	95	88
ZDHHC9	NM_001008222	300646	43	100	95	80	31
ZEB1	NM_001128128	189909	105	100	100	99	96
ZEB2	NM_014795	605802	110	100	100	99	97
ZFP57	NM_001109809	612192	87	100	100	98	96
ZFPM2	NM_012082	603693	156	100	100	99	97
ZFYVE26	NM_015346	612012	72	100	99	94	81
ZIC1	NM_003412	600470	171	100	100	100	100
ZIC2	NM_007129	603073	85	97	95	92	88
ZIC3	NM_003413	300265	115	100	100	100	98
ZMPSTE24	NM_005857	606480	75	100	100	98	90
ZMYM6	NM_007167	613567	88	100	99	96	94
ZMYND10	NM_015896	607070	89	100	100	100	97
ZMYND11	NM_212479	608668	85	100	100	98	93
ZNF335	NM_022095	610827	94	100	100	99	97
ZNF41	NM_007130	314995	70	100	100	99	94
ZNF462	NM_021224	617371	138	100	100	99	97
ZNF526	NM_133444	614387	115	100	100	100	100
ZNF592	NM_014630	613624	111	100	100	100	99
ZNF599	NM_001007248	NA	101	100	100	100	99
ZNF674	NM_001146291	300573	77	100	100	97	92
ZNF711	NM_021998	314990	87	100	98	93	86
ZNF713	NM_182633	616181	92	100	100	100	92
ZNF750	NM_024702	610226	120	100	100	100	99
ZNF81	NM_007137	314998	71	100	96	91	74
ZSWIM6	NM_020928	615951	92	95	92	90	83