Prices and CPT Codes for NGS Disorder / Panel (a + b + c + d + e + f)

Panel	Genes	NGS			Del Dup			NGS/Del Dup Comp		
		Price	Test	CPT	Price	Test	CPT	Price	Test	CPT
Ablepharon-macrostomia syndrome	TWIST2	$445	2138	81479 x 1	,$900	2139	81479 x 1	$1,100	2140	81479 x 2
Abnormal mineralization disorders NGS panel	CLCN5, FAH, OCRL, SLC34A1, SLC34A3, SLC9A3R1, VDR, FGF23, DMP1, ENPP1, CYP27B1, CASR, ANKH, ALPL, PHEX	$1,100	5082	81479 x 11 81404 x 1 81405 x 1 81406 x 2	,$990	5083	81479 x 15	$1,300	5084	81479 x 26 81404 x 1 81405 x 1 81406 x 2
Achondrogenesis NGS panel	COL2A1, SLC26A2, TRIP11	$1,100	5139	81479 x 3	,$990	5140	81479 x 3	$1,300	5141	81479 x 6
Achondrogenesis, type IA	TRIP11	$900	1001	81479 x 1	,$900	1002	81479 x 1	$1,100	1444	81479 x 2
Achondrogenesis, type IB - SLC26A2	SLC26A2	$600	1003	81479 x 1	,$900	1004	81479 x 1	$1,100	1445	81479 x 2
Achondrogenesis, type II / Hypochondrogenesis	COL2A1	$900	1005	81479 x 1	,$900	1006	81479 x 1	$1,100	1446	81479 x 2
Achondroplasia / Hypochondroplasia	FGFR3	$900	1007	81479 x 1	$900	1008	81479 x 1	, ,		
Achondroplasia / Hypochondroplasia Option 1	FGFR3							$1,100	1757	81479 x 2
Acrofacial dysostosis 1, Nager type	SF3B4	$650	1988	81479 x 1	,$900	1989	81479 x 1	$1,100	1990	81479 x 2
Acromelic frontonasal dysostosis	ZSWIM6	$900	2006	81479 x 1	,$900	2007	81479 x 1	$1,100	2008	81479 x 2
Acromesomelic dysplasia, Hunter-Thompson type	GDF5	$900	1842	81479 x 1	,$900	1843	81479 x 1	$1,100	1844	81479 x 2
Acromesomelic dysplasia, Maroteaux type	NPR2	$900	1010	81479 x 1	,$900	1011	81479 x 1	$1,100	1447	81479 x 2
Adams-Oliver Syndrome 1	ARHGAP31	$900	1013	81479 x 1	,$900	1014	81479 x 1	$1,100	1448	81479 x 2
Adams-Oliver syndrome 2	DOCK6	$900	1449	81479 x 1	,$900	1450	81479 x 1	$1,100	1451	81479 x 2
Adams-Oliver syndrome 3	RBPJ	$900	1452	81479 x 1	,$900	1453	81479 x 1	$1,100	1454	81479 x 2
Adams-Oliver syndrome 4	EOGT	$900	1455	81479 x 1	,$900	1456	81479 x 1	$1,100	1457	81479 x 2
Adams-Oliver syndrome 5	NOTCH1	$900	1936	81407 x 1	,$900	1937	81479 x 1	$1,100	1938	81407 x 1 81479 x 1
Adams-Oliver syndrome 6	DLL4	$900	2352	81479 x 1	,$900	2353	81479 x 1	$1,100	2354	81479 x 2
Adams-Oliver syndrome NGS panel	DLL4, NOTCH1, DOCK6, EOGT, ARHGAP31, RBPJ	$1,100	1933	81407 x 1 81479 x 5	,$990	1934	81479 x 6	$1,300	1935	81407 x 1 81479 x 11
Alagille syndrome 1	JAG1	$900	1015	81407 x 1	,$900	1016	81406 x 1	$1,100	1461	81406 x 1 81407 x 1
Alagille syndrome 2	NOTCH2	$900	1390	81479 x 1	,$900	1391	81479 x 1	$1,100	1462	81479 x 2
Alagille syndrome NGS panel	ATP8B1, JAG1, NOTCH2	$1,100	5157	81407 x 1 81479 x 2	,$990	5158	81406 x 1 81479 x 2	$1,300	5159	81406 x 1 81407 x 1 81479 x 4
Alagille syndrome, ATP8B1 related	ATP8B1	$900	2141	81479 x 1	,$900	2142	81479 x 1	$1,100	2143	81479 x 2
Alopecia universalis congenita and Atrichia with papular lesions	HR	$900	2451	81479 x 1	,$900	2452	81479 x 1	$1,100	2453	81479 x 2
Alport syndrome NGS panel	COL4A3, COL4A4, COL4A6, COL4A5	$1,100	5142	81407 x 2 81408 x 1 81479 x 1	,$990	5143	81479 x 3 81407 x 1	$1,300	5144	81407 x 2 81408 x 2 81479 x 4
Alport syndrome, X-linked	COL4A5	$900	1017	81408 x 1	,$900	1018	81407 x 1	$1,100	1463	81408 x 1 81407 x 1
Amelogenesis imperfecta and related disorders NGS panel	AMELX, C4ORF26, DLX3, DSPP, ENAM, FAM20A, FAM83H, GPR68, ITGB6, KLK4, LAMA3, LAMB3, MMP20, SLC24A4, SMOC2, WDR72	$1,100	5197	81479 x 16	,$990	5198	81479 x 16	$1,300	5199	81479 x 32
Amelogenesis imperfecta, type IV	DLX3	$495	1912	81479 x 1	,$900	1913	81479 x 1	$1,100	1914	81479 x 2
Amyotrophic lateral sclerosis and related disorders NGS panel	ALS2, ANG, ARHGEF28, CHCHD10, CHMP2B, ERBB4, FIG4, FUS, HNRNPA1, HNRNPA2B1, MATR3, OPTN, PFN1, SETX, SIGMAR1, SOD1, SPG11, SQSTM1, TARDBP, TBK1, TUBA4A, UBQLN2, VAPB, VCP	$1,300	5235	81403 x 1 81404 x 1 81405 x 1 81406 x 4 81407 x 1 81479 x 16	,$990	5236	81479 x 24	$1,500	5237	81403 x 1 81404 x 1 81405 x 1 81406 x 4 81407 x 1 81479 x 40
Anauxetic dysplasia	RMRP	$350	1019	81479 x 1	,$900	1893	81479 x 1	$1,100	1894	81479 x 2
Angiopathy, hereditary, with nephropathy, aneurysms, and muscle cramps	COL4A1	$900	2144	81408 x 1	,$900	2145	81479 x 1	$1,100	2146	81408 x 1 81479 x 1
Aortic aneurysm, familial thoracic 3	TGFBR2	$600	1020	81405 x 1	,$900	1021	81479 x 1	$1,100	1464	81405 x 1 81479 x 1
Aortic aneurysm, familial thoracic 4	MYH11	$900	1023	81408 x 1	,$900	1024	81479 x 1	$1,100	1467	81408 x 1 81479 x 1
Aortic aneurysm, familial thoracic 5	TGFBR1	$600	1025	81405 x 1	,$900	1026	81479 x 1	$1,100	1468	81405 x 1 81479 x 1

Aortic aneurysm, familial thoracic 6	ACTA2	$599	1029	81405 x 1	,$900	1030	81479 x 1	$1,100	1473	81405 x 1 81479 x 1
Aortic aneurysm, familial thoracic 7	MYLK	$900	1031	81479 x 1	,$900	5273	81479 x 1	$1,100	5274	81479 x 2
Aortic aneurysm, familial thoracic 8	PRKG1	$900	1739	81479 x 1	,$900	1740	81479 x 1	$1,100	1741	81479 x 2
Aortic aneurysm, familial thoracic 9	MFAP5	$685	2009	81479 x 1	,$900	2010	81479 x 1	$1,100	2011	81479 x 2
Aortic valve disease 1	NOTCH1	$900	1939	81407 x 1	,$900	1940	81479 x 1	$1,100	1941	81407 x 1 81479 x 1
Arterial calcification, generalized, of infancy NGS panel	ABCC6, ENPP1	$1,100	1438	81479 x 2	,$990	1478	81479 x 2	$1,300	1479	81479 x 4
Arterial calcification, generalized, of infancy, 1	ENPP1	$900	1036	81479 x 1	,$900	1037	81479 x 1	$1,100	1476	81479 x 2
Arterial calcification, generalized, of infancy, 2	ABCC6	$900	1436	81479 x 1	,$900	1437	81479 x 1	$1,100	1477	81479 x 2
Arterial tortuosity syndrome	SLC2A10	$615	1038	81479 x 1	,$900	1039	81479 x 1	$1,100	1480	81479 x 2
Atelosteogenesis, type I / III	FLNB	$900	1048	81479 x 1	,$900	2390	81479 x 1	$1,100	2391	81479 x 2
Atelosteogenesis, type I / III Option 1	FLNB	$495	1049	81479 x 1						
Atelosteogenesis, type II	SLC26A2	$600	1051	81479 x 1	,$900	1052	81479 x 1	$1,100	1485	81479 x 2
Atrial fibrillation NGS panel	ABCC9, GATA6, GJA5, GLA, HCN4, KCNA5, KCND3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LMNA, MYL4, NPPA, NUP155, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, TBX5	$1,300	5309	81403 x 1 81404 x 1 81405 x 2 81406 x 3 81407 x 1 81479 x 14	,$990	5310	81479 x 22	$1,500	5311	81403 x 1 81404 x 1 81405 x 2 81406 x 3 81407 x 1 81479 x 36
Atrioventricular block NGS Panel	DES, EMD, GAA, GLA, LMNA, NKX2-5, SCN1B, SCN5A, TRPM4	$1,100	5312	81404 x 1 81405 x 3 81406 x 2 81407 x 1 81479 x 2	,$990	5313	81404 x 1 81479 x 8	$1,300	5314	81404 x 2 81405 x 3 81406 x 2 81407 x 1 81479 x 10
Atypical hemolytic uremic syndrome susceptibility and related disorders NGS panel	ADAMTS13, C3, CD46, CFB, CFH, CFHR1, CFHR2, CFHR3, CFHR5, CFI, DGKE, MMACHC, THBD	$1,100	5145	81404 x 1 81479 x 12	,$990	5146	81479 x 11	$1,300	5147	81404 x 1 81479 x 23
Auriculocondylar syndrome NGS panel	EDN1, GNAI3, PLCB4	$1,100	5352	81479 x 3	,$990	5353	81479 x 3	$1,300	5354	81479 x 6
Avascular necrosis of femoral head, primary	COL2A1	$900	1053	81479 x 1	,$900	1835	81479 x 1	$1,100	1836	81479 x 2
Axial spondylometaphyseal dysplasia NGS panel	C21orf2, NEK1	$1,100	5254	81479 x 2	,$990	5255	81479 x 2	$1,300	5256	81479 x 4
Barber-Say syndrome	TWIST2	$445	2147	81479 x 1	,$900	2148	81479 x 1	$1,100	2149	81479 x 2
Bartter syndrome and related disorders NGS panel	BSND, CLCNKA, CLCNKB, GNA11, KCNJ1, MAGED2, SLC12A1, SLC12A3, CASR	$1,100	5391	81405 x 1 81406 x 1 81407 x 1 81479 x 6	,$990	5392	81479 x 9	$1,300	5393	81405 x 1 81406 x 1 81407 x 1 81479 x 15
Basal cell nevus syndrome - PTCH1	PTCH1	$900	2211	81479 x 1	,$900	2212	81479 x 1	$1,100	2213	81479 x 2
Basal cell nevus syndrome - PTCH2	PTCH2	$900	2214	81479 x 1	,$900	2215	81479 x 1	$1,100	2216	81479 x 2
Basal cell nevus syndrome - SUFU	SUFU	$900	2217	81479 x 1	,$900	2218	81479 x 1	$1,100	2219	81479 x 2
Basal cell nevus syndrome NGS panel	PTCH1, PTCH2, SUFU	$1,100	2220	81479 x 3	,$990	2221	81479 x 3	$1,300	2222	81479 x 6
Benign chronic pemphigus	ATP2C1	$900	5361	81479 x 1	,$900	5362	81479 x 1	$1,100	5363	81479 x 2
Bent bone dysplasia syndrome	FGFR2	$900	1909	81479 x 1	,$900	1910	81479 x 1	$1,100	1911	81479 x 2
Bethlem myopathy & Ullrich congenital muscular dystrophy NGS panel	COL12A1, COL6A3, COL6A2, COL6A1	$1,100	1059	81407 x 3 81479 x 1	,$990	1486	81479 x 3 81406 x 1	$1,300	1487	81407 x 3 81479 x 4 81406 x 1
Birt-Hogg-Dube syndrome	FLCN	$900	2223	81479 x 1	,$900	2224	81479 x 1	$1,100	2225	81479 x 2
Blepharocheilodontic syndrome NGS panel	CDH1, CTNND1	$1,100	5346	81406 x 1 81479 x 1	,$990	5347	81479 x 2	$1,300	5348	81406 x 1 81479 x 3
Boomerang dysplasia	FLNB	$900	1060	81479 x 1	,$900	2392	81479 x 1	$1,100	2393	81479 x 2
Boomerang dysplasia Option 1	FLNB	$495	1061	81479 x 1						
Brachyolmia type 3	TRPV4	$900	1063	81479 x 1	,$900	1760	81479 x 1	$1,100	1761	81479 x 2
Brain small vessel disease with or without ocular anomalies	COL4A1	$900	2150	81408 x 1	,$900	2151	81479 x 1	$1,100	2152	81408 x 1 81479 x 1
Branchiooculofacial syndrome	TFAP2A	$900	2078	81479 x 1	,$900	2079	81479 x 1	$1,100	2080	81479 x 2
Brittle cornea syndrome 1	ZNF469	$900	1064	81479 x 1	,$900	1065	81479 x 1	$1,100	1488	81479 x 2
Brittle cornea syndrome 2	PRDM5	$900	1066	81479 x 1	,$900	1067	81479 x 1	$1,100	1489	81479 x 2
Brittle cornea syndrome NGS panel	PRDM5, ZNF469	$1,100	5247	81479 x 2	,$990	5248	81479 x 2	$1,300	5249	81479 x 4
Bruck syndrome 2	PLOD2	$900	1068	81479 x 1	,$900	1692	81479 x 1	$1,100	1693	81479 x 2
Brugada syndrome and related disorders NGS panel	ABCC9, ANK2, CACNA1C, CACNA2D1, CACNB2, CAV3, FGF12, GAA, GLA, GPD1L, HCN4, KCND2, KCND3, KCNE3, KCNE5, KCNH2, KCNJ8, PKP2, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN5A, SEMA3A, SLMAP, TRPM4	$1,300	5315	81403 x 1 81404 x 2 81405 x 1 81406 x 4 81407 x 1 81479 x 18	,$990	5316	81479 x 27	$1,500	5317	81403 x 1 81404 x 2 81405 x 1 81406 x 4 81407 x 1 81479 x 45
Buschke-Ollendorff syndrome	LEMD3	$900	1069	81479 x 1	,$900	1070	81479 x 1	$1,100	1490	81479 x 2

CADASIL NGS panel	HTRA1, NOTCH3	$1,100	5415	81405 x 1 81479 x 1	,$990	5416	81479 x 2	$1,300	5417	81405 x 1 81479 x 3
Caffey disease	COL1A1	$900	1071	81408 x 1	,$900	2449	81479 x 1	$1,100	2450	81408 x 1 81479 x 1
Campomelic dysplasia	SOX9	$900	1072	81479 x 1	,$900	1073	81479 x 1	$1,100	1491	81479 x 2
Camptodactyly, tall stature, and hearing loss syndrome	FGFR3	$900	2316	81479 x 1	,$900	2317	81479 x 1	$1,100	2318	81479 x 2
Camurati-Engelmann disease	TGFB1	$900	1074	81479 x 1	,$900	2437	81479 x 1	$1,100	2438	81479 x 2
Cantu syndrome	ABCC9	$900	1784	81479 x 1	,$900	1785	81479 x 1	$1,100	1786	81479 x 2
Cantu syndrome NGS panel	ABCC9, KCNJ8	$1,100	5160	81479 x 2	,$990	5161	81479 x 2	$1,300	5162	81479 x 4
Cantu syndrome, KCNJ8 related	KCNJ8	$490	2226	81479 x 1	,$900	2227	81479 x 1	$1,100	2228	81479 x 2
Capillary malformation arteriovenous malformation	RASA1	$900	1075	81479 x 1	,$900	1076	81479 x 1	$1,100	1492	81479 x 2
Cardiac channelopathy NGS panel	ABCC9, AKAP9, ANK2, CACNA1C, CACNA2D1, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, FGF12, GPD1L, HCN4, KCND2, KCND3, KCNE1, KCNE2, KCNE3, KCNE5, KCNH2, KCNJ2, KCNJ5, KCNJ8, KCNQ1, NOS1AP, PKP2, RANGRF, RYR2, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, SEMA3A, SLMAP, SNTA1, TECRL, TRDN, TRPM4	$1,400	5318	81413 x 1	,$990	5319	81414 x 1	$1,600	5320	81413 x 1 81414 x 1
Cardiac valvular dysplasia, X-linked	FLNA	$900	1077	81479 x 1	,$900	5275	81479 x 1	$1,100	5276	81479 x 2
Cartilage-hair hypoplasia	RMRP	$350	1078	81479 x 1	,$900	1895	81479 x 1	$1,100	1896	81479 x 2
Catecholaminergic polymorphic ventricular tachycardia NGS panel	ANK2, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TECRL, TRDN	$1,100	5321	81403 x 1 81405 x 1 81408 x 1 81479 x 6	,$990	5322	81479 x 9	$1,300	5323	81403 x 1 81405 x 1 81408 x 1 81479 x 15
Catel-Manzke syndrome	TGDS	$900	2012	81479 x 1	,$900	2013	81479 x 1	$1,100	2014	81479 x 2
Cerebral arteriopathy, with subcortical infarcts and leukoencephalopathy 1	NOTCH3	$900	1991	81479 x 1	,$900	2136	81479 x 1	$1,100	2137	81479 x 2
Cerebral cavernous malformations 1	KRIT1	$900	1493	81479 x 1	,$900	1494	81479 x 1	$1,100	1495	81479 x 2
Cerebral cavernous malformations 2	CCM2	$900	1496	81479 x 1	,$900	1497	81479 x 1	$1,100	1498	81479 x 2
Cerebral cavernous malformations 3	PDCD10	$900	1499	81479 x 1	,$900	1500	81479 x 1	$1,100	1501	81479 x 2
Cerebral cavernous malformations NGS panel	CCM2, KRIT1, PDCD10	$1,100	1502	81479 x 3	,$990	1503	81479 x 3	$1,300	1504	81479 x 6
Cerebral small vessel disease NGS panel	COL4A1, COL4A2, CTC1, GLA, HTRA1, NOTCH3, TREX1	$1,100	5418	81405 x 2 81408 x 1 81479 x 4	,$990	5419	81479 x 7	$1,300	5420	81405 x 2 81408 x 1 81479 x 11
Cerebrooculofacioskeletal syndrome NGS panel	ERCC1, ERCC2, ERCC5, ERCC6	$1,100	5364	81479 x 4	,$990	5365	81479 x 4	$1,300	5366	81479 x 8
Charcot-Marie-Tooth disease NGS panel	AARS, AIFM1, ATP1A1, BSCL2, C12ORF65, COX6A1, DHTKD1, DNM2, DYNC1H1, EGR2, FGD4, FIG4, GARS, GDAP1, GJB1, GNB4, HADHB, HSPB1, HSPB8, KARS, KIF1B, LITAF, LMNA, LRSAM1, MED25, MFN2, MPZ, MTMR2, NDRG1, NEFL, PDK3, PLEKHG5, PMP22, PRPS1, PRX, RAB7A, SBF1, SBF2, SH3TC2, TFG, TRIM2, YARS, TRPV4	$1,400	5130	81404 x 3 81405 x 5 81406 x 7 81479 x 26 81403 x 1 81325 x 1	,$990	5131	81479 x 42 81324 x 1	$1,600	5132	81403 x 1 81404 x 3 81405 x 5 81406 x 7 81479 x 68 81324 x 1 81325 x 1
CHARGE syndrome	CHD7	$900	2229	81407 x 1	,$900	2230	81479 x 1	$1,100	2231	81407 x 1 81479 x 1
Cholestasis NGS Panel	ABCB11, ABCB4, ATP8B1, TJP2	$1,100	2262	81479 x 4	,$990	2263	81479 x 4	$1,300	2264	81479 x 8
Cholestasis, benign recurrent intrahepatic, 1	ATP8B1	$900	2232	81479 x 1	,$900	2233	81479 x 1	$1,100	2234	81479 x 2
Cholestasis, benign recurrent intrahepatic, 2	ABCB11	$900	2235	81479 x 1	,$900	2236	81479 x 1	$1,100	2237	81479 x 2
Cholestasis, intrahepatic, of pregnancy, 1	ATP8B1	$900	2241	81479 x 1	,$900	2242	81479 x 1	$1,100	2243	81479 x 2
Cholestasis, intrahepatic, of pregnancy, 3	ABCB4	$900	2244	81479 x 1	,$900	2245	81479 x 1	$1,100	2246	81479 x 2
Cholestasis, progressive familial intrahepatic, 1	ATP8B1	$900	2250	81479 x 1	,$900	2251	81479 x 1	$1,100	2252	81479 x 2
Cholestasis, progressive familial intrahepatic, 2	ABCB11	$900	2253	81479 x 1	,$900	2254	81479 x 1	$1,100	2255	81479 x 2
Cholestasis, progressive familial intrahepatic, 3	ABCB4	$900	2256	81479 x 1	,$900	2257	81479 x 1	$1,100	2258	81479 x 2
Cholestasis, progressive familial intrahepatic, 4	TJP2	$900	2259	81479 x 1	,$900	2260	81479 x 1	$1,100	2261	81479 x 2
Chondrocalcinosis 2	ANKH	$900	1079	81479 x 1	,$900	1505	81479 x 1	$1,100	1506	81479 x 2
Chondrodysplasia punctata 1, X-linked recessive	ARSE	$900	2018	81479 x 1	,$900	2019	81479 x 1	$1,100	2020	81479 x 2
Chondrodysplasia punctata 2, X-linked dominant	EBP	$900	2021	81479 x 1	,$900	2022	81479 x 1	$1,100	2023	81479 x 2
Chondrodysplasia punctata and related disorders NGS panel	AGPS, ARSE, EBP, FAR1, GNPAT, LBR, MGP, NSDHL, PEX5, PEX7	$1,100	2024	81479 x 10	,$990	2025	81479 x 10	$1,300	2026	81479 x 20
Chondrodysplasia with joint dislocations, GPAPP type	IMPAD1	$630	1848	81479 x 1	,$900	1849	81479 x 1	$1,100	1850	81479 x 2
Chondrodysplasia, Blomstrand type	PTH1R	$900	2015	81479 x 1	,$900	2016	81479 x 1	$1,100	2017	81479 x 2
Chondrodysplasia, Grebe type	GDF5	$900	1845	81479 x 1	,$900	1846	81479 x 1	$1,100	1847	81479 x 2

Cleft lip, cleft palate and related disorders NGS panel	BMP4, FOXE1, GRHL3, IRF6, NECTIN1, SATB2, SUMO1, TBX22, TGDS, TP63, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1, MSX1	$1,100	5291	81479 x 17	,$990	5292	81479 x 17	$1,300	5293	81479 x 34
Cleidocranial dysplasia	RUNX2	$900	1080	81479 x 1	,$900	1392	81479 x 1	$1,100	1507	81479 x 2
Cockayne syndrome NGS panel	ERCC6, ERCC8	$1,100	5367	81479 x 2	,$990	5368	81479 x 2	$1,300	5369	81479 x 4
Cohen syndrome	VPS13B	$900	2454	81408 x 1	,$900	2455	81407 x 1	$1,100	2456	81407 x 1 81408 x 1
Cole-Carpenter syndrome 1	P4HB	$900	2081	81479 x 1	,$900	2082	81479 x 1	$1,100	2083	81479 x 2
Cole-Carpenter syndrome 2	SEC24D	$900	2084	81479 x 1	,$900	2085	81479 x 1	$1,100	2086	81479 x 2
Cole-Carpenter syndrome NGS panel	P4HB, SEC24D	$1,100	5188	81479 x 2	,$990	5189	81479 x 2	$1,300	5190	81479 x 4
Congenital contractural arachnodactyly	FBN2	$900	1081	81479 x 1	,$900	1082	81479 x 1	$1,100	1508	81479 x 2
Congenital contracture syndrome extended NGS panel	ADCY6, ADGRG6, CHRNA1, CHRND, CHRNG, CNTNAP1, DNM2, DOK7, ECEL1, ERBB3, GLDN, GLE1, LGI4, LMNA, MUSK, MYBPC1, MYH3, MYH8, NALCN, NEK9, PIEZO2, PIP5K1C, RAPSN, TNNI2, TNNT3, TPM2, VIPAS39, VPS33B, ZBTB42, ZMPSTE24, FBN2	$1,300	5294	81406 x 1 81479 x 30	,$990	5295	81479 x 31	$1,500	5296	81406 x 1 81479 x 61
Congenital heart disease NGS panel	CHD7, GATA4, GATA6, GDF1, NKX2-5, NKX2-6, NOTCH1, NR2F2, TAB2, TBX1, TBX20, TBX5, ZIC3, ELN, JAG1, NOTCH2	$1,100	5148	81405 x 1 81407 x 3 81479 x 12	,$990	5149	81406 x 1 81479 x 15	$1,300	5150	81405 x 1 81406 x 1 81407 x 3 81479 x 27
Connective tissue disorder NGS panel	ACTA2, ADAMTS2, AEBP1, B3GALT6, B3GALT7, BGN, C1R, C1S, CHST14, COL12A1, DCHS1, DSE, FKBP14, FLCN, FOXE3, LOX, LTBP3, MAT2A, MED12, MFAP5, NOTCH1, SMAD2, TGFB3, FBN1, FBN2, FLNA, ATP7A, CBS, COL5A2, COL5A1, COL3A1, COL1A2, COL1A1, MYH11, MYLK, PLOD1, PRDM5, PRKG1, SKI, SLC2A10, SLC39A13, SMAD3, SMAD4, TGFB2, TGFBR1, TGFBR2, ZNF469	$1,400	5433	81405 x 3 81406 x 2 81407 x 1 81408 x 4 81479 x 37	,$990	5434	81405 x 1 81479 x 46	$1,600	5435	81405 x 4 81406 x 2 81407 x 1 81408 x 4 81479 x 83
Cornelia de Lange syndrome 1	NIPBL	$900	2424	81479 x 1	,$900	2425	81479 x 1	$1,100	2426	81479 x 2
Cornelia de Lange syndrome and related disorders NGS panel	AFF4, ANKRD11, HDAC8, KMT2A, NIPBL, RAD21, SMC1A, SMC3	$1,100	5181	81405 x 1 81479 x 7	,$990	5182	81479 x 8	$1,300	5183	81405 x 1 81479 x 15
Craniodiaphyseal dysplasia, autosomal dominant	SOST	$445	1787	81479 x 1	,$900	1788	81479 x 1	$1,100	1789	81479 x 2
Cranioectodermal dysplasia 2	WDR35	$900	1083	81479 x 1	,$900	1084	81479 x 1	$1,100	1509	81479 x 2
Cranioectodermal dysplasia 4	WDR19	$900	1085	81479 x 1	,$900	1086	81479 x 1	$1,100	1510	81479 x 2
Craniofrontonasal syndrome	EFNB1	$570	1930	81479 x 1	,$900	1931	81479 x 1	$1,100	1932	81479 x 2
Craniometaphyseal dysplasia, autosomal dominant	ANKH	$900	1087	81479 x 1	,$900	1511	81479 x 1	$1,100	1512	81479 x 2
Craniosynostosis core NGS panel	TCF12, FGFR3, FGFR2, FGFR1, TWIST1	$1,100	5194	81404 x 1 81405 x 1 81479 x 3	,$990	5195	81403 x 1 81479 x 4	$1,300	5196	81403 x 1 81404 x 1 81405 x 1 81479 x 7
Craniosynostosis NGS panel	CDC45, CYP26B1, EFNB1, ERF, FREM1, IL11RA, MEGF8, MSX2, POR, RAB23, RECQL4, SLC25A24, TCF12, ZIC1, FGFR3, FGFR2, FGFR1, IFT43, IFT122, GLI3, SKI, TGFBR1, TGFBR2, TWIST1, WDR19, WDR35	$1,300	5085	81479 x 22 81405 x 3 81404 x 1	,$990	5086	81479 x 25 81403 x 1	$1,500	5087	81479 x 47 81405 x 3 81404 x 1 81403 x 1
Craniosynostosis, type 1	TWIST1	$445	1092	81404 x 1	,$900	1093	81403 x 1	$1,100	1513	81404 x 1 81403 x 1
Cutaneomucosal venous malformations	TEK	$900	1733	81479 x 1	,$900	1734	81479 x 1	$1,100	1735	81479 x 2
Cutis laxa NGS panel	ALDH18A1, ATP6V1A, ATP6V1E1, FBLN5, EFEMP2, ELN, ATP6V0A2, LTBP4, PYCR1	$1,100	1712	81479 x 9	,$990	1713	81479 x 9	$1,300	1714	81479 x 18
Cutis laxa, autosomal dominant 1	ELN	$900	1515	81479 x 1	,$900	1516	81479 x 1	$1,100	1517	81479 x 2
Cutis laxa, autosomal dominant 2 & autosomal recessive, type IA	FBLN5	$900	1107	81479 x 1	,$900	1108	81479 x 1	$1,100	1518	81479 x 2
Cutis laxa, autosomal recessive 1B	EFEMP2	$900	1109	81479 x 1	,$900	1110	81479 x 1	$1,100	1523	81479 x 2
Cutis laxa, autosomal recessive IC	LTBP4	$900	1697	81479 x 1	,$900	1698	81479 x 1	$1,100	1699	81479 x 2
Cutis laxa, autosomal recessive IIA	ATP6V0A2	$900	1700	81479 x 1	,$900	1701	81479 x 1	$1,100	1702	81479 x 2
Cutis laxa, autosomal recessive IIIA	ALDH18A1	$900	1706	81479 x 1	,$900	1707	81479 x 1	$1,100	1708	81479 x 2
Cutis laxa, autosomal recessive, type IIB & type IIIB	PYCR1	$900	1703	81479 x 1	,$900	1704	81479 x 1	$1,100	1705	81479 x 2
Czech dysplasia	COL2A1	$900	2319	81479 x 1	,$900	2320	81479 x 1	$1,100	2321	81479 x 2
Darier-White disease	ATP2A2	$900	5370	81479 x 1	,$900	5371	81479 x 1	$1,100	5372	81479 x 2

Dense bone dysplasia NGS panel	DLX3, GJA1, HPGD, LRP4, MTAP, PTDSS1, SLCO2A1, TBXAS1, TNFRSF11B, TYROBP, ANKH, COL1A1, SOST, TGFB1	$1,100	5088	81479 x 13 81408 x 1	,$990	5089	81479 x 14	$1,300	5090	81479 x 27 81408 x 1
Desbuquois dysplasia 1	CANT1	$900	1113	81479 x 1	,$900	1114	81479 x 1	$1,100	1524	81479 x 2
Desbuquois dysplasia 2	XYLT1	$900	1851	81479 x 1	,$900	1852	81479 x 1	$1,100	1853	81479 x 2
Desbuquois dysplasia and related disorders NGS panel	B3GALT6, B3GAT3, CHST3, CSGALNACT1, GZF1, IMPAD1, FLNB, CANT1, KIF22, SLC26A2, XYLT1	$1,100	5124	81479 x 11	,$990	5125	81479 x 11	$1,300	5126	81479 x 22
Desbuquois dysplasia core NGS panel	CSGALNACT1, IMPAD1, CANT1, XYLT1	$1,050	1854	81479 x 4	,$990	1855	81479 x 4	$1,250	1856	81479 x 8
Diamond-Blackfan anemia NGS panel	GATA1, RPL11, RPL15, RPL26, RPL27, RPL31, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, TSR2	$1,100	5288	81405 x 1 81479 x 17	,$990	5289	81479 x 17	$1,300	5290	81405 x 1 81479 x 34
Diaphanospondylodysostosis	BMPER	$900	1115	81479 x 1	,$900	1525	81479 x 1	$1,100	1526	81479 x 2
Diastrophic dysplasia	SLC26A2	$600	1116	81479 x 1	,$900	1117	81479 x 1	$1,100	1527	81479 x 2
Digital arthropathy-brachydactyly, familial	TRPV4	$900	1118	81479 x 1	,$900	1762	81479 x 1	$1,100	1763	81479 x 2
Distal arthrogryposes NGS panel	ECEL1, MYBPC1, MYH3, MYH8, NALCN, PIEZO2, TNNI2, TNNT3, TPM2, FBN2	$1,100	5133	81479 x 10	,$990	5134	81479 x 10	$1,300	5135	81479 x 20
Distal hereditary motor neuropathy and related disorders NGS panel	BICD2, BSCL2, DCAF8, DCTN1, DNAJB2, DYNC1H1, FBXO38, GAN, GARS, GJB1, HARS, HINT1, HSPB1, HSPB3, HSPB8, IGHMBP2, PDK3, PLEKHG5, REEP1, SETX, SIGMAR1, SLC5A7, ATP7A, TRPV4	$1,300	5200	81404 x 2 81405 x 1 81406 x 2 81479 x 19	,$990	5201	81479 x 24	$1,500	5202	81404 x 2 81405 x 1 81406 x 2 81479 x 43
Distal Myopathy NGS panel	ANO5, BAG3, CAV3, CRYAB, DES, DNAJB6, DNM2, DYSF, FHL1, FLNC, GNE, LDB3, MATR3, MYH7, MYOT, SQSTM1, TCAP, TIA1, TTN, VCP	$1,300	5238	81404 x 1 81405 x 2 81406 x 3 81407 x 1 81408 x 1 81479 x 12	,$990	5239	81479 x 20	$1,500	5240	81404 x 1 81405 x 2 81406 x 3 81407 x 1 81408 x 1 81479 x 32
Dyggve-Melchior-Clausen disease	DYM	$900	1119	81479 x 1	,$900	1120	81479 x 1	$1,100	1528	81479 x 2
Dyggve-Melchior-Clausen disease NGS panel	RAB33B, DYM	$1,100	5297	81479 x 2	,$990	5298	81479 x 2	$1,300	5299	81479 x 4
Dyskeratosis congenita NGS panel	ACD, CTC1, DKC1, NHP2, NOP10, PARN, RTEL1, TERC, TERT, TINF2, USB1, WRAP53	$1,100	5203	81479 x 12	,$990	5204	81479 x 12	$1,300	5205	81479 x 24
Dyssegmental dysplasia, Silverman-Handmaker type	HSPG2	$900	1121	81479 x 1	,$900	1122	81479 x 1	$1,100	1529	81479 x 2
Ectodermal dysplasia 1, hypohidrotic, X-linked	EDA	$730	2029	81479 x 1	,$900	2030	81479 x 1	$1,100	2031	81479 x 2
Ectodermal dysplasia NGS panel	EDA, EDAR, EDARADD, GJB6, HOXC13, KDF1, KREMEN1, KRT74, KRT85, MSX1	$1,100	5206	81479 x 10	,$990	5207	81479 x 10	$1,300	5208	81479 x 20
Ectopia lentis NGS panel	ADAMTSL4, FBN1	$1,100	5163	81408 x 1 81479 x 1	,$990	5164	81479 x 2	$1,300	5165	81479 x 3 81408 x 1
Ectopia lentis, isolated, autosomal dominant	FBN1	$900	1123	81408 x 1	,$900	1124	81479 x 1	$1,100	1530	81408 x 1 81479 x 1
Ectopia lentis, isolated, autosomal recessive	ADAMTSL4	$900	1125	81479 x 1	,$900	1126	81479 x 1	$1,100	1531	81479 x 2
Ehlers-Danlos syndrome core NGS panel	COL5A2, COL5A1, COL3A1	$1,050	5209	81479 x 3	,$990	5210	81479 x 3	$1,250	5211	81479 x 6
Ehlers-Danlos syndrome NGS panel - Dominant	C1R, C1S, COL12A1, FLNA, COL5A2, COL5A1, COL3A1, COL1A2, COL1A1	$1,100	5064	81408 x 2 81479 x 7	,$990	5065	81479 x 9	$1,300	5066	81408 x 2 81479 x 16
Ehlers-Danlos syndrome NGS panel - Dominant & Recessive	ADAMTS2, AEBP1, B3GALT6, B4GALT7, C1R, C1S, CHST14, COL12A1, DSE, FKBP14, FLNA, ATP7A, COL5A2, COL5A1, COL3A1, COL1A2, COL1A1, PLOD1, PRDM5, SLC39A13, ZNF469	$1,300	5067	81408 x 2 81479 x 19	,$990	5068	81479 x 21	$1,500	5069	81408 x 2 81479 x 40
Ehlers-Danlos syndrome NGS panel - Recessive	ADAMTS2, AEBP1, B3GALT6, B4GALT7, CHST14, DSE, FKBP14, ATP7A, COL1A2, PLOD1, PRDM5, SLC39A13, ZNF469	$1,100	5070	81479 x 12 81408 x 1	,$990	5071	81479 x 13	$1,300	5072	81479 x 25 81408 x 1
Ehlers-Danlos syndrome, arthrochalasia type NGS panel	COL1A2, COL1A1	$1,000	1138	81479 x 2	,$990	1139	81479 x 2	$1,200	1538	81479 x 4
Ehlers-Danlos syndrome, classic type NGS panel	COL5A2, COL5A1	$1,000	1134	81479 x 2	,$990	1535	81479 x 2	$1,200	1536	81479 x 4
Ehlers-Danlos syndrome, classic type, 2	COL5A2	$900	1132	81479 x 1	,$900	1133	81479 x 1	$1,100	1534	81479 x 2
Ehlers-Danlos syndrome, classic type, I	COL5A1	$900	1130	81479 x 1	,$900	1131	81479 x 1	$1,100	1533	81479 x 2
Ehlers-Danlos syndrome, kyphoscoliotic type, 1	PLOD1	$900	1137	81479 x 1	,$900	2433	81479 x 1	$1,100	2434	81479 x 2
Ehlers-Danlos syndrome, musculocontractural type, 1	CHST14	$900	1127	81479 x 1	,$900	1128	81479 x 1	$1,100	1532	81479 x 2
Ehlers-Danlos syndrome, periodontal type NGS panel	C1R, C1S	$1,100	5250	81479 x 2	,$990	5251	81479 x 2	$1,300	5252	81479 x 4
Ehlers-Danlos syndrome, spondylodysplastic type NGS panel	B3GALT6, B4GALT7, SLC39A13	$1,100	2035	81479 x 3	,$990	2036	81479 x 3	$1,300	2037	81479 x 6
Ehlers-Danlos syndrome, spondylodysplastic type, 1	B4GALT7	$900	1951	81479 x 1	,$900	1952	81479 x 1	$1,100	1953	81479 x 2
Ehlers-Danlos syndrome, spondylodysplastic type, 2	B3GALT6	$900	2032	81479 x 1	,$900	5271	81479 x 1	$1,100	5272	81479 x 2
Ehlers-Danlos syndrome, spondylodysplastic type, 3	SLC39A13	$900	1129	81479 x 1	,$900	1754	81479 x 1	$1,100	1755	81479 x 2

Ehlers-Danlos syndrome, vascular type	COL3A1	$900	1135	81479 x 1	,$900	1136	81479 x 1	$1,100	1537	81479 x 2
Eiken syndrome	PTH1R	$900	2038	81479 x 1	,$900	2039	81479 x 1	$1,100	2040	81479 x 2
Ellis-van Creveld syndrome and Weyers acrofacial dysostosis NGS Panel	EVC2, EVC	$1,100	1140	81479 x 2	,$990	1141	81479 x 2	$1,300	1539	81479 x 4
Epidermolysis bullosa dystrophica, autosomal dominant & recessive	COL7A1	$900	1790	81479 x 1	,$900	1791	81479 x 1	$1,100	1792	81479 x 2
Epidermolysis bullosa NGS panel	CAST, CDSN, CHST8, COL17A1, CSTA, DSP, DST, EXPH5, FERMT1, ITGA3, ITGA6, ITGB4, JUP, KLHL24, KRT14, KRT5, LAMA3, LAMB3, LAMC2, PKP1, PLEC, SERPINB8, TGM5, COL7A1	$1,300	5073	81479 x 22 81406 x 2	,$990	5074	81479 x 24	$1,500	5075	81479 x 46 81406 x 2
Erythrokeratodermias and related disorders NGS panel	DSP, GJA1, GJB3, GJB4, KDSR, KRT83, LOR	$1,100	5373	81406 x 1 81479 x 6	,$990	5374	81479 x 7	$1,300	5375	81406 x 1 81479 x 13
Exostoses, multiple, type I	EXT1	$900	1142	81479 x 1	,$900	1143	81479 x 1	$1,100	1540	81479 x 2
Exostoses, multiple, type II	EXT2	$900	1144	81479 x 1	,$900	1145	81479 x 1	$1,100	1541	81479 x 2
Exudative vitreoretinopathy 1	FZD4	$590	1393	81479 x 1	,$900	1394	81479 x 1	$1,100	1544	81479 x 2
Exudative vitreoretinopathy 2, X-linked	NDP	$570	1395	81404 x 1	,$900	1396	81479 x 1	$1,100	1545	81404 x 1 81479 x 1
Exudative vitreoretinopathy 4	LRP5	$900	1147	81406 x 1	,$900	1148	81479 x 1	$1,100	1546	81406 x 1 81479 x 1
Exudative vitreoretinopathy 5	TSPAN12	$900	1397	81479 x 1	,$900	1398	81479 x 1	$1,100	1547	81479 x 2
Exudative vitreoretinopathy NGS panel	CAPN5, KIF11, ZNF408, FZD4, LRP5, NDP, TSPAN12	$1,100	1399	81479 x 5 81404 x 1 81406 x 1	,$990	1548	81479 x 7	$1,300	1549	81479 x 12 81404 x 1 81406 x 1
Fabry disease	GLA	$900	2463	81405 x 1	,$900	2464	81479 x 1	$1,100	2465	81405 x 1 81479 x 1
Failure of tooth eruption, primary	PTH1R	$900	2041	81479 x 1	,$900	2042	81479 x 1	$1,100	2043	81479 x 2
FGFR2 related craniosynostosis	FGFR2	$900	1105	81479 x 1	,$900	1106	81479 x 1	$1,100	1514	81479 x 2
Fibrillinopathy NGS panel	FBN1, FBN2, CBS	$1,100	5003	81406 x 1 81408 x 1 81479 x 1	,$990	5012	81479 x 3	$1,300	5013	81406 x 1 81408 x 1 81479 x 4
Fibrochondrogenesis 1	COL11A1	$900	1149	81479 x 1	,$900	1150	81479 x 1	$1,100	1550	81479 x 2
Fibrochondrogenesis 2	COL11A2	$900	1151	81479 x 1	,$900	1152	81479 x 1	$1,100	1551	81479 x 2
Fibrochondrogenesis NGS panel	COL11A1, COL11A2	$1,100	1694	81479 x 2	,$990	1695	81479 x 2	$1,300	1696	81479 x 4
Fibrodysplasia ossificans progressiva	ACVR1	$900	1796	81479 x 1	,$900	1797	81479 x 1	$1,100	1798	81479 x 2
Fibular hypoplasia and complex brachydactyly	GDF5	$900	1857	81479 x 1	,$900	1858	81479 x 1	$1,100	1859	81479 x 2
Focal dermal hypoplasia	PORCN	$900	1153	81479 x 1	,$900	1154	81479 x 1	$1,100	1552	81479 x 2
Frontometaphyseal dysplasia	FLNA	$900	1155	81479 x 1	,$900	5277	81479 x 1	$1,100	5278	81479 x 2
Frontometaphyseal dysplasia NGS panel	MAP3K7, TAB2, FLNA	$1,100	5212	81479 x 3	,$990	5213	81479 x 3	$1,300	5214	81479 x 6
Frontonasal dysplasia 1	ALX3	$495	1921	81479 x 1	,$900	1922	81479 x 1	$1,100	1923	81479 x 2
Frontonasal dysplasia 2	ALX4	$495	1924	81479 x 1	,$900	1925	81479 x 1	$1,100	1926	81479 x 2
Frontonasal dysplasia 3	ALX1	$495	1927	81479 x 1	,$900	1928	81479 x 1	$1,100	1929	81479 x 2
Frontonasal dysplasia and Craniofrontonasal syndrome NGS panel	ALX1, ALX3, ALX4, EFNB1, SIX2	$1,100	1918	81479 x 5	,$990	1919	81479 x 5	$1,300	1920	81479 x 10
Frontonasal dysplasia, SIX2 related	SIX2	$495	2357	81479 x 1	,$900	2358	81479 x 1	$1,100	2359	81479 x 2

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Prices and CPT Codes for NGS Disorder / Panel (g + h + i + j + k + l)

Panel	Genes	NGS			Del Dup			NGS/Del Dup Comp		
		Price	Test	CPT	Price	Test	CPT	Price	Test	CPT
Geleophysic dysplasia 1	ADAMTSL2	$900	1156	81479 x 1	,$900	1157	81479 x 1	$1,100	1553	81479 x 2
Genitopatellar syndrome	KAT6B	$900	1799	81479 x 1	,$900	1800	81479 x 1	$1,100	1801	81479 x 2
Glass syndrome	SATB2	$900	2153	81479 x 1	,$900	2154	81479 x 1	$1,100	2155	81479 x 2
Glomuvenous malformations	GLMN	$900	1159	81479 x 1	,$900	1160	81479 x 1	$1,100	1554	81479 x 2
Glomuvenous malformations and Cutaneomucosal venous malformations NGS panel	GLMN, TEK	$1,100	1736	81479 x 2	,$990	1737	81479 x 2	$1,300	1738	81479 x 4
Gnathodiaphyseal dysplasia	ANO5	$900	2156	81406 x 1	,$900	2157	81479 x 1	$1,100	2158	81406 x 1 81479 x 1
Gracile bone dysplasia	FAM111A	$900	1802	81479 x 1	,$900	1803	81479 x 1	$1,100	1804	81479 x 2
Greig cephalopolysyndactyly syndrome	GLI3	$900	1161	81479 x 1	,$900	1162	81479 x 1	$1,100	1555	81479 x 2
Hajdu-Cheney syndrome	NOTCH2	$900	1400	81479 x 1						
Hajdu-Cheney syndrome Option 1	NOTCH2	,			$900	1401	81479 x 1	$1,100	1556	81479 x 2
Hereditary Hemorrhagic telangiectasia NGS panel	ACVRL1, ENG, GDF2, RASA1, SMAD4	$1,100	1721	81479 x 3 81406 x 2	,$990	1722	81479 x 3 81405 x 2	$1,300	1723	81479 x 6 81406 x 2 81405 x 2
Hereditary hemorrhagic telangiectasia type 1	ENG	$900	1404	81406 x 1	,$900	1405	81405 x 1	$1,100	1557	81406 x 1 81405 x 1
Hereditary hemorrhagic telangiectasia type 2	ACVRL1	$700	1406	81479 x 1	,$900	1407	81479 x 1	$1,100	1558	81479 x 2
Hereditary hemorrhagic telangiectasia type 5	GDF2	$475	1718	81479 x 1	,$900	1719	81479 x 1	$1,100	1720	81479 x 2
Hereditary motor and sensory neuropathy, type IIC	TRPV4	$900	1163	81479 x 1	,$900	1764	81479 x 1	$1,100	1765	81479 x 2
Homocystinuria	CBS	$900	1164	81406 x 1	,$900	1165	81479 x 1	$1,100	1563	81406 x 1 81479 x 1
Hyperostosis corticalis generalisata (Van Buchem disease)	SOST	$445	1805	81479 x 1	,$900	1806	81479 x 1	$1,100	1807	81479 x 2
Hyperostosis corticalis generalisata, benign form of worth, with torus palatinus	LRP5	$900	1166	81406 x 1	,$900	1167	81479 x 1	$1,100	1564	81406 x 1 81479 x 1
Hyperparathyroidism, neonatal severe	CASR	$690	1742	81405 x 1	,$900	1743	81479 x 1	$1,100	1744	81405 x 1 81479 x 1
Hyperphosphatemic familial tumoral calcinosis - FGF23	FGF23	$492	2363	81404 x 1	,$900	2364	81479 x 1	$1,100	2365	81404 x 1 81479 x 1
Hyperphosphatemic familial tumoral calcinosis - GALNT3	GALNT3	$690	2366	81479 x 1	,$900	2435	81479 x 1	$1,100	2436	81479 x 2
Hyperphosphatemic familial tumoral calcinosis NGS panel	GALNT3, KL, FGF23	$1,100	2369	81404 x 1 81479 x 2	,$990	2370	81479 x 3	$1,300	2371	81404 x 1 81479 x 5
Hyperuricemic nephropathy, familial juvenile NGS panel	REN, SEC61A1, UMOD	$1,100	5400	81406 x 1 81479 x 2	,$990	5401	81479 x 3	$1,300	5402	81406 x 1 81479 x 5
Hypocalcemia, autosomal dominant 1	CASR	$690	1745	81405 x 1	,$900	1746	81479 x 1	$1,100	1747	81405 x 1 81479 x 1
Hypocalciuric hypercalcemia, familial, type 1	CASR	$690	1751	81405 x 1	,$900	1752	81479 x 1	$1,100	1753	81405 x 1 81479 x 1
Hypophosphatasia, infantile, childhood & adult types	ALPL	$650	1168	81479 x 1	,$900	1169	81479 x 1	$1,100	1565	81479 x 2
Hypotrichosis NGS panel	APCDD1, CDSN, DSG4, HR, KRT25, KRT71, KRT74, LIPH, LPAR6, RPL21, SNRPE	$1,100	5306	81479 x 11	,$990	5307	81479 x 11	$1,300	5308	81479 x 22
Ichthyosis NGS panel	ABCA12, ALOX12B, ALOXE3, CASP14, CAST, CDSN, CERS3, CHST8, CSTA, CYP4F22, FLG, FLG2, GJA1, GJB3, GJB4, KDSR, KRT1, KRT10, KRT2, KRT83, LIPN, LOR, MBTPS2, NIPAL4, PNPLA1, POMP, SERPINB8, ST14, STS, SULT2B1, TGM1, TGM5	$1,300	5091	81479 x 32	,$990	5092	81479 x 31	$1,500	5093	81479 x 63
Inclusion body myopathy with early-onset Paget disease with or without frontotemporal dementia 1	VCP	$900	2400	81479 x 1	,$900	2401	81479 x 1	$1,100	2402	81479 x 2
Insulin-like growth factor I deficiency	IGF1	$900	2087	81479 x 1	,$900	2088	81479 x 1	$1,100	2089	81479 x 2
Insulin-like growth factor I deficiency and Insulin-like growth factor I, resistance to NGS panel	IGF1, IGF1R	$1,100	2093	81479 x 2	,$990	2094	81479 x 2	$1,300	2095	81479 x 4
Insulin-like growth factor I, resistance to	IGF1R	$900	2090	81479 x 1	,$900	2091	81479 x 1	$1,100	2092	81479 x 2
Joubert syndrome and related disorders NGS panel	AHI1, ARL13B, ARMC9, B9D1, B9D2, C2CD3, C5orf42, CC2D2A, CEP104, CEP120, CEP290, CEP41, CSPP1, INPP5E, KIAA0556, KIAA0586, KIF14, KIF7, MKS1, NPHP1, NPHP3, OFD1, PDE6D, PIBF1, RPGRIP1L, SUFU, TCTN1, TCTN2, TCTN3, TMEM107,	$1,300	5136	81406 x 1 81407 x 2 81479 x 33 81408 x 1	,$990	5137	81405 x 1 81479 x 36	$1,500	5138	81406 x 1 81407 x 2 81408 x 1 81479 x 69 81405 x 1

Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome	TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, ZNF423, TTC21B SMAD4	$690	1410	81406 x 1	,$900	1411	81405 x 1	$1,100	1566	81406 x 1 81405 x 1
Kabuki syndrome NGS panel	HNRNPK, KDM6A, KMT2D, RAB1B, RAP1A	$1,100	5427	81479 x 5	,$990	5428	81479 x 5	$1,300	5429	81479 x 10
KBG syndrome	ANKRD11	$900	1966	81405 x 1	,$900	1967	81479 x 1	$1,100	1968	81479 x 1 81405 x 1
Kenny-Caffey syndrome NGS panel	FAM111A, TBCE	$1,100	1906	81479 x 2	,$990	1907	81479 x 2	$1,300	1908	81479 x 4
Kenny-Caffey syndrome, type 1	TBCE	$900	1903	81479 x 1	,$900	1904	81479 x 1	$1,100	1905	81479 x 2
Kenny-Caffey syndrome, type 2	FAM111A	$900	1808	81479 x 1	,$900	1809	81479 x 1	$1,100	1810	81479 x 2
Keratoconus and related disorders NGS panel	MIR184, VSX1, PRDM5, ZNF469	$1,100	5421	81479 x 4	,$990	5422	81479 x 4	$1,300	5423	81479 x 8
Klippel-Feil Syndrome 1	GDF6	$490	1954	81479 x 1	,$900	1955	81479 x 1	$1,100	1956	81479 x 2
Klippel-Feil syndrome 2	MEOX1	$530	1957	81479 x 1	,$900	1958	81479 x 1	$1,100	1959	81479 x 2
Klippel-Feil syndrome 3	GDF3	$490	1960	81479 x 1	,$900	1961	81479 x 1	$1,100	1962	81479 x 2
Klippel-Feil syndrome NGS panel	GDF3, GDF6, MEOX1, MYO18B, RIPPLY2	$1,100	1963	81479 x 5	,$990	1964	81479 x 5	$1,300	1965	81479 x 10
Klippel-Feil syndrome, RIPPLY2 related	RIPPLY2	$590	2324	81479 x 1	,$900	2348	81479 x 1	$1,100	2349	81479 x 2
Kniest dysplasia	COL2A1	$900	1170	81479 x 1	,$900	1171	81479 x 1	$1,100	1567	81479 x 2
Knobloch syndrome 1	COL18A1	$900	1942	81479 x 1	,$900	1943	81479 x 1	$1,100	1944	81479 x 2
Langer mesomelic dysplasia	SHOX	$500	2327	81405 x 1	,$900	2328	81479 x 1	$1,100	2329	81405 x 1 81479 x 1
Larsen syndrome, autosomal dominant	FLNB	$900	1172	81479 x 1	,$900	2394	81479 x 1	$1,100	2395	81479 x 2
Larsen syndrome, autosomal dominant Option 1	FLNB	$495	1173	81479 x 1						
Larsen syndrome, autosomal recessive	CHST3	$900	1175	81479 x 1	,$900	1176	81479 x 1	$1,100	1568	81479 x 2
Lateral meningocele syndrome	NOTCH3	$900	2096	81479 x 1	,$900	2097	81479 x 1	$1,100	2098	81479 x 2
Leber congenital amaurosis and related disorders NGS panel	AIPL1, ALMS1, CABP4, CEP290, CLUAP1, CNGA3, CRB1, CRX, DTHD1, GDF6, GUCY2D, IFT140, IMPDH1, INPP5E, IQCB1, KCNJ13, LCA5, LRAT, MERTK, MYO7A, NMNAT1, OTX2, PRPH2, RD3, RDH12, RDH5, ROM1, RPE65, RPGRIP1, SNRNP200, SPATA7, TULP1	$1,300	5268	81404 x 1 81406 x 2 81407 x 1 81479 x 28	,$990	5269	81479 x 32	$1,500	5270	81404 x 1 81406 x 2 81407 x 1 81479 x 60
Leri-Weill dyschondrosteosis	SHOX	$500	2330	81405 x 1	,$900	2331	81479 x 1	$1,100	2332	81405 x 1 81479 x 1
Lethal congenital contracture syndrome and related disorders NGS Panel	ADCY6, ADGRG6, CHRNA1, CHRND, CHRNG, CNTNAP1, DNM2, DOK7, ERBB3, GLDN, GLE1, LGI4, LMNA, MUSK, MYBPC1, NEK9, PIP5K1C, RAPSN, VIPAS39, VPS33B, ZBTB42, ZMPSTE24	$1,300	5300	81406 x 1 81479 x 21	,$990	5301	81479 x 22	$1,500	5302	81406 x 1 81479 x 43
Limb girdle muscular dystrophy NGS panel	ANO5, CAPN3, CAV3, DAG1, DES, DNAJB6, DYSF, EMD, FHL1, FKRP, FKTN, FLNC, GAA, GMPPB, HNRNPDL, ISPD, LARGE1, LIMS2, LMNA, MYOT, PLEC, POMGNT1, POMK, POMT1, POMT2, SGCA, SGCB, SGCD, SGCG, TCAP, TNPO3, TOR1AIP1, TRAPPC11, TRIM32, TTN	$1,300	5215	81404 x 2 81405 x 9 81406 x 8 81408 x 1 81479 x 15	,$990	5216	81404 x 2 81479 x 33	$1,500	5217	81404 x 4 81405 x 9 81406 x 8 81408 x 1 81479 x 48
Lissencephaly and related disorders NGS panel	ACTB, ACTG1, ADGRG1, ARX, B3GALNT2, B4GAT1, CDK5, DAG1, DCX, DYNC1H1, FKRP, FKTN, GMPPB, ISPD, KATNB1, KIF2A, KIF5C, LAMA2, LAMB1, LARGE1, NDE1, PAFAH1B1, POMGNT1, POMGNT2, POMK, POMT1, POMT2, RELN, RXYLT1, SNAP29, SRD5A3, TMTC3, TUBA1A, TUBA8, TUBB, TUBB2A, TUBB2B, TUBB3, TUBG1, VLDLR, WDR62, ATP6V0A2	$1,400	5406	81404 x 1 81405 x 3 81406 x 4 81407 x 1 81408 x 1 81479 x 32	,$990	5407	81403 x 1 81405 x 1 81479 x 40	$1,600	5408	81403 x 1 81404 x 1 81405 x 4 81406 x 4 81407 x 1 81408 x 1 81479 x 72
Lissencephaly core NGS panel	ARX, CDK5, DCX, KATNB1, LAMB1, NDE1, PAFAH1B1, RELN, TMTC3, TUBA1A	$1,100	5403	81404 x 1 81405 x 1 81406 x 1 81479 x 7	,$990	5404	81403 x 1 81405 x 1 81479 x 8	$1,300	5405	81403 x 1 81404 x 1 81405 x 2 81406 x 1 81479 x 15
Loeys-Dietz syndrome 1	TGFBR1	$600	1177	81405 x 1	,$900	1178	81479 x 1	$1,100	1569	81405 x 1 81479 x 1
Loeys-Dietz syndrome 2	TGFBR2	$600	1179	81405 x 1	,$900	1180	81479 x 1	$1,100	1570	81405 x 1 81479 x 1
Loeys-Dietz syndrome 3	SMAD3	$690	1182	81479 x 1	,$900	1183	81479 x 1	$1,100	1573	81479 x 2
Loeys-Dietz syndrome 4	TGFB2	$656	1184	81479 x 1	,$900	1185	81479 x 1	$1,100	1574	81479 x 2

Loeys-Dietz Syndrome 5	TGFB3	$599	2133	81479 x 1	,$900	2134	81479 x 1	$1,100	2135	81479 x 2
Loeys-Dietz syndrome core NGS panel	TGFBR1, TGFBR2	$990	1181	81405 x 2	,$990	1571	81479 x 2	$1,090	1572	81405 x 2 81479 x 2
Loeys-Dietz syndrome NGS panel	TGFB3, SMAD3, TGFB2, TGFBR1, TGFBR2	$1,000	2208	81479 x 3 81405 x 2	,$990	2209	81479 x 5	$1,200	2210	81405 x 2 81479 x 8
Long QT syndrome NGS panel	AKAP9, ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, NOS1AP, RYR2, SCN4B, SCN5A, SNTA1, TRDN	$1,100	5324	81403 x 1 81404 x 1 81406 x 2 81407 x 1 81408 x 1 81479 x 13	,$990	5325	81479 x 19	$1,300	5326	81403 x 1 81404 x 1 81406 x 2 81407 x 1 81408 x 1 81479 x 32
Lysosomal acid lipase deficiency	LIPA	$650	2403	81479 x 1	,$900	2404	81479 x 1	$1,100	2405	81479 x 2

Source URL (retrieved on 09/27/2018 - 11:18): http://ctgt.net/prices-cpt-codes-ngs-disorder-panel-new/g%2Bh%2Bi%2Bj%2Bk%2Bl

Prices and CPT Codes for NGS Disorder / Panel (m + n + o + p + q + r)

Panel	Genes	NGS			Del Dup			NGS/Del Dup Comp		
		Price	Test	CPT	Price	Test	CPT	Price	Test	CPT
Mandibulofacial dysostosis, Guion-Almeida type	EFTUD2	$900	2159	81479 x 1	,$900	2160	81479 x 1	$1,100	2161	81479 x 2
Marfan syndrome and Loeys-Dietz syndrome core NGS panel	FBN1, TGFBR1, TGFBR2	$1,050	5260	81405 x 2 81408 x 1	,$990	5261	81479 x 3	$1,250	5262	81405 x 2 81408 x 1 81479 x 3
Marfan syndrome and Loeys-Dietz syndrome NGS panel	TGFB3, FBN1, SMAD3, TGFB2, TGFBR1, TGFBR2	$1,100	1192	81408 x 1 81405 x 2 81479 x 3	,$990	1581	81479 x 6	$1,300	1582	81408 x 1 81405 x 2 81479 x 9
Marfan syndrome, Loeys-Dietz syndrome, Familial thoracic aortic aneurysms & dissections, and Related disorders NGS panel	ACTA2, BGN, FOXE3, LOX, LTBP3, MAT2A, MED12, MFAP5, NOTCH1, SMAD2, TGFB3, FBN1, FBN2, FLNA, CBS, COL5A2, COL5A1, COL3A1, MYH11, MYLK, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFBR1, TGFBR2	$1,300	5076	81410 x 1	,$990	5077	81411 x 1	$1,500	5078	81410 x 1 81411 x 1
Marfan syndrome, type I	FBN1	$900	1187	81408 x 1	,$900	1188	81479 x 1	$1,100	1577	81408 x 1 81479 x 1
Marfan syndrome, type I / II NGS panel	FBN1, TGFBR2	$1,000	1191	81408 x 1 81405 x 1	,$990	1579	81479 x 2	$1,200	1580	81408 x 1 81405 x 1 81479 x 2
Marfan syndrome, type II	TGFBR2	$600	1189	81405 x 1	,$900	1190	81479 x 1	$1,100	1578	81405 x 1 81479 x 1
Marshall syndrome	COL11A1	$900	1193	81479 x 1	,$900	1194	81479 x 1	$1,100	1583	81479 x 2
Marshall-Smith syndrome	NFIX	$900	1969	81479 x 1	,$900	1970	81479 x 1	$1,100	1971	81479 x 2
Megalencephaly-polymicrogyria-polydactyly-hydrocephalus NGS panel	AKT3, CCND2, PIK3R2	$1,100	5409	81479 x 3	,$990	5410	81479 x 3	$1,300	5411	81479 x 6
Meier-Gorlin syndrome 1	ORC1	$900	1860	81479 x 1	,$900	1861	81479 x 1	$1,100	1862	81479 x 2
Meier-Gorlin syndrome 2	ORC4	$900	1863	81479 x 1	,$900	1864	81479 x 1	$1,100	1865	81479 x 2
Meier-Gorlin syndrome 3	ORC6	$900	1866	81479 x 1	,$900	1867	81479 x 1	$1,100	1868	81479 x 2
Meier-Gorlin syndrome 4	CDT1	$900	1869	81479 x 1	,$900	1870	81479 x 1	$1,100	1871	81479 x 2
Meier-Gorlin syndrome 5	CDC6	$900	1872	81479 x 1	,$900	1873	81479 x 1	$1,100	1874	81479 x 2
Meier-Gorlin syndrome NGS panel	CDC45, GMNN, MCM5, CDC6, CDT1, ORC1, ORC4, ORC6	$1,100	1875	81479 x 8	,$990	1876	81479 x 8	$1,300	1877	81479 x 16
Melnick-Needles syndrome	FLNA	$900	1195	81479 x 1	,$900	5279	81479 x 1	$1,100	5280	81479 x 2
Menkes disease	ATP7A	$900	1196	81479 x 1	,$900	1197	81479 x 1	$1,100	1584	81479 x 2
Metaphyseal anadysplasia 1	MMP13	$900	1198	81479 x 1	,$900	1199	81479 x 1	$1,100	1585	81479 x 2
Metaphyseal anadysplasia 2	MMP9	$900	1200	81479 x 1	,$900	1201	81479 x 1	$1,100	1586	81479 x 2
Metaphyseal anadysplasia NGS panel	MMP13, MMP9	$1,100	1202	81479 x 2	,$990	1587	81479 x 2	$1,300	1588	81479 x 4
Metaphyseal chondrodysplasia, Jansen type	PTH1R	$900	2045	81479 x 1	,$900	2046	81479 x 1	$1,100	2047	81479 x 2
Metaphyseal chondrodysplasia, Schmid type	COL10A1	$445	1203	81479 x 1	,$900	2072	81479 x 1	$1,100	2073	81479 x 2
Metaphyseal dysplasia with maxillary hypoplasia with or without brachydactyly	RUNX2	$900	1412	81479 x 1	,$900	1413	81479 x 1	$1,100	1589	81479 x 2
Metaphyseal dysplasia without hypotrichosis	RMRP	$350	1204	81479 x 1	,$900	1897	81479 x 1	$1,100	1898	81479 x 2
Metaphyseal dysplasia, Spahr type	MMP13	$900	1839	81479 x 1	,$900	1840	81479 x 1	$1,100	1841	81479 x 2
Metatropic dysplasia	TRPV4	$900	1205	81479 x 1	,$900	1766	81479 x 1	$1,100	1767	81479 x 2
Microcephalic primordial dwarfism NGS panel	ATR, ATRIP, CDC45, CENPJ, CEP152, CEP63, DNA2, DONSON, GMNN, LIG4, NIN, PCNT, RBBP8, RNU4ATAC, TRAIP, XRCC4, CDC6, CDT1, ORC1, ORC4, ORC6	$1,300	5166	81479 x 21	,$990	5167	81479 x 21	$1,500	5168	81479 x 42
Microcephaly-capillary malformation syndrome	STAMBP	$900	2162	81479 x 1	,$900	2163	81479 x 1	$1,100	2164	81479 x 2
Mitral valve prolapse 2	DCHS1	$900	2333	81479 x 1	,$900	2334	81479 x 1	$1,100	2335	81479 x 2
Mowat-Wilson syndrome	ZEB2	$900	2336	81405 x 1	,$900	2337	81404 x 1	$1,100	2338	81405 x 1 81404 x 1
Mucopolysaccharidosis NGS panel	ARSB, GALNS, GLB1, GNPTAB, GNPTG, GNS, GUSB, HGSNAT, HYAL1, IDS, IDUA, MCOLN1, NAGLU, SGSH	$1,100	5241	81405 x 1 81479 x 13	,$990	5242	81479 x 14	$1,300	5243	81405 x 1 81479 x 27
Multiple epiphyseal dysplasia	COMP	$900	1206	81479 x 1	,$900	2074	81479 x 1			
Multiple epiphyseal dysplasia Option 1	COMP							$1,100	2075	81479 x 2
Multiple epiphyseal dysplasia (MED) NGS panel	CANT1, COL9A1, COL9A2, COMP, COL9A3, COL2A1, MATN3, SLC26A2	$1,100	5094	81479 x 8	,$990	5095	81479 x 8	$1,300	5096	81479 x 16

Multiple exostoses NGS panel	EXT2, EXT1	$1,100	1146	81479 x 2	,$990	1542	81479 x 2	$1,300	1543	81479 x 4
Multiple joint dislocations, short stature, craniofacial dysmorphism, and congenital heart defects	B3GAT3	$900	2048	81479 x 1	,$900	2049	81479 x 1	$1,100	2050	81479 x 2
Multiple pterygium syndrome, lethal type & Escobar variant	CHRNG	$900	2271	81479 x 1	,$900	2272	81479 x 1	$1,100	2273	81479 x 2
Multiple pterygium syndrome, lethal type - CHRNA1	CHRNA1	$900	2265	81479 x 1	,$900	2266	81479 x 1	$1,100	2267	81479 x 2
Multiple pterygium syndrome, lethal type - CHRND	CHRND	$900	2268	81479 x 1	,$900	2269	81479 x 1	$1,100	2270	81479 x 2
Multiple pterygium syndrome, lethal type NGS panel	CHRNA1, CHRND, CHRNG	$1,100	2274	81479 x 3	,$990	2275	81479 x 3	$1,300	2276	81479 x 6
Multiple self-healing squamous epithelioma	TGFBR1	$600	1590	81405 x 1	,$900	1591	81479 x 1	$1,100	1592	81405 x 1 81479 x 1
Myhre syndrome	SMAD4	$690	1414	81406 x 1	,$900	1415	81405 x 1	$1,100	1416	81405 x 1 81406 x 1
Myofibrillar myopathy and related disorders NGS panel	ACTA1, BAG3, CRYAB, DES, DNAJB6, FHL1, FLNC, KY, LDB3, MYOT, PYROXD1	$1,100	5218	81404 x 1 81405 x 2 81406 x 1 81479 x 7	,$990	5219	81479 x 11	$1,300	5220	81404 x 1 81405 x 2 81406 x 1 81479 x 18
Nail-patella syndrome	LMX1B	$900	1210	81479 x 1	,$900	5230	81479 x 1	$1,100	5231	81479 x 2
Nephrolithiasis and related disorders NGS panel	ADCY10, AGXT, AP2S1, APRT, ATP6V0A4, ATP6V1B1, CLCN5, CLDN16, CLDN19, CYP24A1, FAM20A, GNA11, GRHPR, HNF4A, HOGA1, HPRT1, KCNJ1, OCRL, SLC12A1, SLC22A12, SLC26A1, SLC2A9, SLC34A1, SLC34A3, SLC3A1, SLC4A1, SLC7A9, SLC9A3R1, XDH, CASR, CA2	$1,300	5333	81404 x 1 81405 x 1 81406 x 1 81407 x 1 81479 x 27	,$990	5334	81479 x 31	$1,500	5335	81404 x 1 81405 x 1 81406 x 1 81407 x 1 81479 x 58
Nephronophthisis and related disorders NGS panel	AHI1, ANKS6, CC2D2A, CEP164, CEP290, CEP41, CEP83, DCDC2, FAN1, GLIS2, INVS, IQCB1, MAPKBP1, NEK8, NPHP1, NPHP3, NPHP4, OFD1, PKHD1, RPGRIP1L, SDCCAG8, TMEM138, TMEM216, TMEM67, TRAF3IP1, XPNPEP3, ZNF423, TTC21B, WDR19	$1,300	5394	81406 x 1 81407 x 1 81408 x 2 81479 x 25	,$990	5395	81405 x 1 81479 x 28	$1,500	5396	81405 x 1 81406 x 1 81407 x 1 81408 x 2 81479 x 53
Nephrotic syndrome and related disorders NGS panel	ACTN4, ANLN, ARHGAP24, ARHGDIA, CD2AP, COL4A3, COL4A4, COL4A6, COQ2, COQ6, COQ8B, CRB2, CUBN, DGKE, EMP2, FN1, INF2, ITGA3, ITGB4, KANK2, LAMB2, MAGI2, MEFV, MYO1E, NPHS1, NPHS2, NUP107, NUP205, NUP93, PAX2, PDSS2, PLCE1, PTPRO, SCARB2, SGPL1, SMARCAL1, TRPC6, WDR73, WT1, COL4A5, LMX1B, TTC21B	$1,400	5221	81405 x 2 81406 x 4 81407 x 4 81479 x 30 81408 x 2	,$990	5222	81479 x 41 81407 x 1	$1,600	5223	81405 x 2 81406 x 4 81407 x 5 81479 x 71 81408 x 2
Neu-Laxova syndrome 1	PHGDH	$900	2165	81479 x 1	,$900	2166	81479 x 1	$1,100	2167	81479 x 2
Neu-Laxova syndrome 2	PSAT1	$900	2168	81479 x 1	,$900	2169	81479 x 1	$1,100	2170	81479 x 2
Neu-Laxova syndrome NGS panel	PHGDH, PSAT1	$1,100	2171	81479 x 2	,$990	2172	81479 x 2	$1,300	2173	81479 x 4
Neurofibromatosis and related disorders NGS panel	MLH1, MSH2, MSH6, NF1, NF2, SPRED1	$1,100	5191	81405 x 1 81406 x 1 81408 x 1 81479 x 3	,$990	5192	81405 x 1 81479 x 5	$1,300	5193	81405 x 2 81406 x 1 81408 x 1 81479 x 8
Neurofibromatosis type I	NF1	$900	2427	81408 x 1	,$900	2428	81479 x 1	$1,100	2429	81479 x 1 81408 x 1
Neutropenia, severe congenital, X-linked	WAS	$650	2406	81406 x 1	,$900	2407	81479 x 1	$1,100	2408	81479 x 1 81406 x 1
Next Generation Sequencing (Any of the NGS panel Genes)		$990	5184							
NKX2-5 related heart malformations	NKX2-5	$490	2409	81479 x 1	,$900	2410	81479 x 1	$1,100	2411	81479 x 2
Noonan spectrum disorder NGS panel	A2ML1, ACTB, ACTG1, BRAF, CABIN1, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, NF1, NF2, NRAS, NSUN2, PPP1CB, PTPN11, RAF1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1	$1,300	5079	81442 x 1	,$990	5080	81479 x 25	$1,500	5081	81479 x 25 81442 x 1
Noonan syndrome core NGS panel	BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, NRAS, PTPN11, RAF1, RIT1, SHOC2, SOS1, SOS2	$1,100	5349	81442 x 1	,$990	5350	81479 x 14	$1,300	5351	81442 x 1 81479 x 14
Norrie disease	NDP	$570	1417	81404 x 1	,$900	1418	81479 x 1	$1,100	1593	81404 x 1 81479 x 1
Occipital horn syndrome	ATP7A	$900	1211	81479 x 1	,$900	1212	81479 x 1	$1,100	1594	81479 x 2
Oculodentodigital dysplasia	GJA1	$490	2412	81479 x 1	,$900	2413	81479 x 1	$1,100	2414	81479 x 1
Odontoonychodermal dysplasia	WNT10A	$530	1994	81479 x 1	,$900	1995	81479 x 1	$1,100	1996	81479 x 2
Ohdo syndrome, SBBYS variant	KAT6B	$900	1811	81479 x 1	,$900	1812	81479 x 1	$1,100	1813	81479 x 2
Oligodontia - Selective tooth agenesis NGS panel	AXIN2, EDA, LRP6, LTBP3, PAX9, PTH1R, WNT10A, WNT10B, MSX1	$1,100	5169	81479 x 9	,$990	5170	81479 x 9	$1,300	5171	81479 x 18

Omodysplasia NGS panel	FZD2, GPC6	$1,100	1213	81479 x 2	,$990	1214	81479 x 2	$1,300	1595	81479 x 4
Opitz GBBB syndrome NGS panel	MID1, SPECC1L	$1,100	5355	81479 x 2	,$990	5356	81479 x 2	$1,300	5357	81479 x 4
Opsismodysplasia	INPPL1	$900	1596	81479 x 1	,$900	1597	81479 x 1	$1,100	1598	81479 x 2
Orofaciodigital syndrome I	OFD1	$900	2280	81479 x 1	,$900	2281	81479 x 1	$1,100	2282	81479 x 2
Osteoarthritis with mild chondrodysplasia	COL2A1	$900	1215	81479 x 1	,$900	1837	81479 x 1	$1,100	1838	81479 x 2
Osteogenesis imperfecta COL1A1 & COL1A2 NGS panel	COL1A2, COL1A1	$1,000	1216	81408 x 2	,$990	1599	81479 x 2	$1,200	1600	81408 x 2 81479 x 2
Osteogenesis imperfecta core NGS panel	IFITM5, COL1A2, COL1A1	$1,050	5232	81408 x 2 81479 x 1	,$990	5233	81479 x 3	$1,250	5234	81408 x 2 81479 x 4
Osteogenesis imperfecta NGS panel - Dominant	ANO5, P4HB, IFITM5, ALPL, COL1A2, COL1A1, PLS3	$1,100	5097	81479 x 4 81408 x 2 81406 x 1	,$990	5098	81479 x 7	$1,300	5099	81479 x 11 81408 x 2 81406 x 1
Osteogenesis imperfecta NGS panel - Dominant & Recessive	ANO5, FKBP10, MBTPS2, P3H1, P4HB, SEC24D, SPARC, TAPT1, TMEM38B, WNT1, XYLT2, IFITM5, BMP1, ALPL, CRTAP, CREB3L1, COL1A2, COL1A1, LRP5, PLOD2, PLS3, PPIB, SERPINF1, SERPINH1, SP7	$1,300	5100	81408 x 2 81479 x 21 81406 x 2	,$990	5101	81479 x 25	$1,500	5102	81408 x 2 81479 x 46 81406 x 2
Osteogenesis imperfecta NGS panel - Recessive	FKBP10, MBTPS2, P3H1, SEC24D, SPARC, TAPT1, TMEM38B, WNT1, XYLT2, BMP1, ALPL, CRTAP, CREB3L1, LRP5, PLOD2, PLS3, PPIB, SERPINF1, SERPINH1, SP7	$1,250	5103	81479 x 20	,$990	5104	81479 x 20	$1,450	5105	81479 x 40
Osteogenesis imperfecta, PLS3 related	PLS3	$900	1899	81479 x 1	,$900	1900	81479 x 1	$1,100	1901	81479 x 2
Osteogenesis imperfecta, type IX	PPIB	$615	1227	81479 x 1	,$900	1228	81479 x 1	$1,100	1609	81479 x 2
Osteogenesis imperfecta, type V	IFITM5	$445	1219	81479 x 1	,$900	1220	81479 x 1	$1,100	1605	81479 x 2
Osteogenesis imperfecta, type VI	SERPINF1	$725	1221	81479 x 1	,$900	1222	81479 x 1	$1,100	1606	81479 x 2
Osteogenesis imperfecta, type VII	CRTAP	$725	1223	81479 x 1	,$900	1224	81479 x 1	$1,100	1607	81479 x 2
Osteogenesis imperfecta, type VIII	P3H1	$900	1225	81479 x 1	,$900	1226	81479 x 1	$1,100	1608	81479 x 2
Osteogenesis imperfecta, type X	SERPINH1	$495	1229	81479 x 1	,$900	1230	81479 x 1	$1,100	1610	81479 x 2
Osteogenesis imperfecta, type XI	FKBP10	$790	1231	81479 x 1	,$900	1232	81479 x 1	$1,100	1611	81479 x 2
Osteogenesis imperfecta, type XII	SP7	$445	1233	81479 x 1	,$900	1234	81479 x 1	$1,100	1612	81479 x 2
Osteogenesis imperfecta, type XIII	BMP1	$900	1235	81479 x 1	,$900	1236	81479 x 1	$1,100	1613	81479 x 2
Osteogenesis imperfecta, type XVI	CREB3L1	$900	1878	81479 x 1	,$900	1879	81479 x 1	$1,100	1880	81479 x 2
Osteogenesis imperfecta, type XVII	SPARC	$750	2174	81479 x 1	,$900	2175	81479 x 1	$1,100	2176	81479 x 2
Osteogenesis imperfecta, types I, II, III & IV	COL1A1	$900	1601	81408 x 1	,$900	1217	81479 x 1	$1,100	1602	81408 x 1 81479 x 1
Osteogenesis imperfecta, types I, II, III & IV	COL1A2	$900	1603	81408 x 1	,$900	1218	81479 x 1	$1,100	1604	81408 x 1 81479 x 1
Osteopathia striata with cranial sclerosis	AMER1	$900	1814	81479 x 1	,$900	1815	81479 x 1	$1,100	1816	81479 x 2
Osteopetrosis and Dense bone dysplasia NGS panel	DLX3, FAM20C, FERMT3, GJA1, HPGD, LRP4, MTAP, PTDSS1, SLCO2A1, SNX10, TBXAS1, TNFRSF11B, TYROBP, CA2, ANKH, AMER1, CTSK, CLCN7, COL1A1, LEMD3, LRP5, OSTM1, PLEKHM1, SOST, TCIRG1, TGFB1, TNFRSF11A, TNFSF11	$1,300	5109	81479 x 26 81406 x 1 81408 x 1	,$990	5110	81479 x 28	$1,500	5111	81479 x 54 81406 x 1 81408 x 1
Osteopetrosis core NGS panel	CLCN7, OSTM1, TCIRG1	$1,000	1253	81479 x 3	,$990	1621	81479 x 3	$1,200	1622	81479 x 6
Osteopetrosis NGS panel	FAM20C, FERMT3, SNX10, CA2, AMER1, CTSK, CLCN7, LEMD3, LRP5, OSTM1, PLEKHM1, TCIRG1, TNFRSF11A, TNFSF11	$1,100	5106	81479 x 13 81406 x 1	,$990	5107	81479 x 14	$1,300	5108	81479 x 27 81406 x 1
Osteopetrosis with renal tubular acidosis 3	CA2	$900	1254	81479 x 1	,$900	1255	81479 x 1	$1,100	1623	81479 x 2
Osteopetrosis, autosomal dominant 1	LRP5	$900	1238	81406 x 1	,$900	1239	81479 x 1	$1,100	1614	81406 x 1 81479 x 1
Osteopetrosis, autosomal dominant 2 & autosomal recessive 4	CLCN7	$900	1240	81479 x 1	,$900	1241	81479 x 1	$1,100	1615	81479 x 2
Osteopetrosis, autosomal recessive 1	TCIRG1	$900	1242	81479 x 1	,$900	1243	81479 x 1	$1,100	1616	81479 x 2
Osteopetrosis, autosomal recessive 2	TNFSF11	$900	1244	81479 x 1	,$900	1245	81479 x 1	$1,100	1617	81479 x 2
Osteopetrosis, autosomal recessive 5	OSTM1	$900	1248	81479 x 1	,$900	1249	81479 x 1	$1,100	1619	81479 x 2
Osteopetrosis, autosomal recessive 6	PLEKHM1	$900	1250	81479 x 1	,$900	2447	81479 x 1	$1,100	2448	81479 x 2
Osteopetrosis, autosomal recessive 7	TNFRSF11A	$900	1251	81479 x 1	,$900	1252	81479 x 1	$1,100	1620	81479 x 2
Osteoporosis-pseudoglioma syndrome	LRP5	$900	1256	81406 x 1	,$900	1257	81479 x 1	$1,100	1624	81406 x 1 81479 x 1
Otopalatodigital syndrome, type I / II	FLNA	$900	1258	81479 x 1	,$900	5281	81479 x 1	$1,100	5282	81479 x 2
Otospondylomegaepiphyseal dysplasia	COL11A2	$900	1259	81479 x 1	,$900	1260	81479 x 1	$1,100	1625	81479 x 2

Overgrowth syndrome NGS panel	DNMT3A, EED, EZH2, GPC3, NFIX, NSD1, OFD1, PDGFRB, PIGA, SETD2, FBN1	$1,100	1984	81406 x 1 81479 x 9 81408 x 1	,$990	1985	81405 x 1 81479 x 10	$1,300	1986	81406 x 1 81479 x 19 81405 x 1 81408 x 1
Paget disease of bone 2	TNFRSF11A	$900	2372	81479 x 1	,$900	2373	81479 x 1	$1,100	2374	81479 x 2
Paget disease of bone 3	SQSTM1	$900	2375	81479 x 1	,$900	2376	81479 x 1	$1,100	2377	81479 x 2
Paget disease of bone 5	TNFRSF11B	$900	2378	81479 x 1	,$900	2379	81479 x 1	$1,100	2380	81479 x 2
Paget disease of bone 6	ZNF687	$900	2381	81479 x 1	,$900	2382	81479 x 1	$1,100	2383	81479 x 2
Paget disease of bone and related disorders NGS panel	HNRNPA1, HNRNPA2B1, SQSTM1, TNFRSF11B, VCP, ZNF687, TNFRSF11A	$1,100	2384	81479 x 7	,$990	2385	81479 x 7	$1,300	2386	81479 x 14
Pallister-Hall syndrome	GLI3	$900	1261	81479 x 1	,$900	1262	81479 x 1	$1,100	1626	81479 x 2
Parastremmatic dwarfism	TRPV4	$900	1263	81479 x 1	,$900	1768	81479 x 1	$1,100	1769	81479 x 2
Parkes Weber syndrome	RASA1	$900	1264	81479 x 1	,$900	1265	81479 x 1	$1,100	1627	81479 x 2
Peeling skin syndrome NGS panel	CAST, CDSN, CHST8, CSTA, FLG2, SERPINB8, TGM5	$1,100	5376	81479 x 7	,$990	5377	81479 x 7	$1,300	5378	81479 x 14
Periventricular nodular heterotopia 1	FLNA	$900	1267	81479 x 1	,$900	5283	81479 x 1	$1,100	5284	81479 x 2
Phosphoglycerate dehydrogenase deficiency	PHGDH	$900	2177	81479 x 1	,$900	2178	81479 x 1	$1,100	2179	81479 x 2
Phosphoserine aminotransferase deficiency	PSAT1	$900	2180	81479 x 1	,$900	2181	81479 x 1	$1,100	2182	81479 x 2
Platelet bleeding disorders NGS panel	ACTN1, ANO6, AP3B1, BLOC1S3, BLOC1S6, CD36, DTNBP1, GBA, GFI1B, GP1BA, GP1BB, GP6, GP9, HPS1, HPS3, HPS4, HPS5, HPS6, ITGA2B, ITGB3, LYST, MYH9, NBEAL2, P2RY12, PLAU, PRKACG, RASGRP2, SLFN14, SMPD1, TBXA2R, TBXAS1, VWF, WAS, WIPF1	$1,300	5154	81404 x 1 81406 x 1 81408 x 1 81479 x 31	,$990	5155	81479 x 33	$1,500	5156	81404 x 1 81406 x 1 81408 x 1 81479 x 64
Platyspondylic lethal skeletal dysplasia, Torrance type	COL2A1	$900	1268	81479 x 1						
Platyspondylic lethal skeletal dysplasia, Torrance type Option 1	COL2A1	$410	1270	81479 x 1	,$900	1269	81479 x 1	$1,100	1628	81479 x 2
Pneumothorax, primary spontaneous	FLCN	$900	2283	81479 x 1	,$900	2284	81479 x 1	$1,100	2285	81479 x 2
Polycystic kidney disease and related disorders NGS panel	ALG9, ANKS6, ATP6V0A4, BICC1, GANAB, GLIS3, HNF1B, INVS, MUC1, NPHP3, OFD1, PKD1, PKD2, PKHD1, SEC61A1, TMEM231, TSC1, TSC2, UMOD, ZNF423, LRP5, NOTCH2	$1,300	5336	81405 x 1 81406 x 4 81407 x 2 81408 x 1 81479 x 14	,$990	5337	81404 x 1 81405 x 1 81406 x 1 81479 x 19	$1,500	5338	81404 x 1 81405 x 2 81406 x 5 81407 x 2 81408 x 1 81479 x 33
Polycystic liver disease NGS panel	GANAB, PKD1, PKD2, PKHD1, PRKCSH, SEC63, LRP5	$1,100	5339	81406 x 2 81407 x 1 81408 x 1 81479 x 3	,$990	5340	81479 x 7	$1,300	5341	81406 x 2 81407 x 1 81408 x 1 81479 x 10
Polydactyly, preaxial IV & postaxial, type A1	GLI3	$900	1272	81479 x 1	,$900	1273	81479 x 1	$1,100	1629	81479 x 2
Popliteal pterygium syndrome	IRF6	$900	2286	81479 x 1	,$900	2287	81479 x 1	$1,100	2288	81479 x 2
Popliteal pterygium syndrome NGS panel	IRF6, RIPK4	$1,100	5412	81479 x 2	,$990	5413	81479 x 2	$1,300	5414	81479 x 4
Popliteal pterygium syndrome, lethal type	RIPK4	$900	2289	81479 x 1	,$900	2290	81479 x 1	$1,100	2291	81479 x 2
Porencephaly 1	COL4A1	$900	2183	81408 x 1	,$900	2184	81479 x 1	$1,100	2185	81408 x 1 81479 x 1
Porencephaly 2	COL4A2	$900	2186	81479 x 1	,$900	2187	81479 x 1	$1,100	2188	81479 x 2
Porencephaly NGS panel	COL4A1, COL4A2	$1,100	2189	81408 x 1 81479 x 1	,$990	2190	81479 x 2	$1,300	2191	81408 x 1 81479 x 3
Postaxial acrofacial dysostosis	DHODH	$900	2192	81479 x 1	,$900	2193	81479 x 1	$1,100	2194	81479 x 2
Progeroid syndromes and related disorders NGS panel	AGPAT2, ALDH18A1, B3GALT6, B4GALT7, BANF1, BSCL2, ERCC2, ERCC3, ERCC4, ERCC5, ERCC6, ERCC8, LMNA, PDGFRB, POLD1, RECQL4, SLC25A24, WRN, ZMPSTE24, FBN1, PYCR1	$1,300	5379	81406 x 2 81408 x 1 81479 x 18	,$990	5380	81479 x 21	$1,500	5381	81406 x 2 81408 x 1 81479 x 39
Progressive familial heart block type I NGS panel	SCN5A, TRPM4	$1,100	5327	81407 x 1 81479 x 1	,$990	5328	81479 x 2	$1,300	5329	81407 x 1 81479 x 3
Progressive pseudorheumatoid arthropathy of childhood	WISP3	$595	1276	81479 x 1	,$900	1277	81479 x 1	$1,100	1631	81479 x 2
Proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome	FLVCR2	$900	1278	81479 x 1	,$900	1279	81479 x 1	$1,100	1632	81479 x 2
Pseudoachondroplasia	COMP	$900	1280	81479 x 1						
Pseudoachondroplasia Option 1	COMP	,			$900	2076	81479 x 1	$1,100	2077	81479 x 2
Pseudoxanthoma elasticum	ABCC6	$900	1439	81479 x 1	,$900	1440	81479 x 1	$1,100	1633	81479 x 2
Pseudoxanthoma elasticum NGS panel	ABCC6, GGCX	$1,100	2104	81479 x 2	,$990	2105	81479 x 2	$1,300	2106	81479 x 4
Pseudoxanthoma elasticum-like disorder with multiple coagulation factor deficiency	GGCX	$900	2101	81479 x 1	,$900	2102	81479 x 1	$1,100	2103	81479 x 2
Pulmonary hypertension NGS panel	ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, FOXF1, KCNA5, KCNK3, SMAD9, ENG, GDF2, SMAD4	$1,100	2116	81479 x 9 81406 x 3	,$990	2117	81479 x 9 81405 x 3	$1,300	2118	81406 x 3 81479 x 18 81405 x 3
Pulmonary hypertension, primary, 1	BMPR2	$900	1945	81406 x 1	,$900	1946	81405 x 1	$1,100	1947	81406 x 1 81405 x 1

Pulmonary hypertension, primary, 2	SMAD9	$610	2107	81479 x 1	,$900	2108	81479 x 1	$1,100	2109	81479 x 2
Pulmonary hypertension, primary, 3	CAV1	$490	2110	81479 x 1	,$900	2111	81479 x 1	$1,100	2112	81479 x 2
Pulmonary hypertension, primary, 4	KCNK3	$510	2113	81479 x 1	,$900	2114	81479 x 1	$1,100	2115	81479 x 2
Pulmonary venoocclusive disease 1, autosomal dominant	BMPR2	$900	1948	81406 x 1	,$900	1949	81405 x 1	$1,100	1950	81406 x 1 81405 x 1
Pulmonary venoocclusive disease 2, autosomal recessive	EIF2AK4	$900	2051	81479 x 1	,$900	2052	81479 x 1	$1,100	2053	81479 x 2
Pycnodysostosis	CTSK	$690	1881	81479 x 1	,$900	1882	81479 x 1	$1,100	1883	81479 x 2
Renal tubular dysgenesis NGS panel	ACE, AGT, AGTR1, REN	$1,100	5397	81479 x 4	,$990	5398	81479 x 4	$1,300	5399	81479 x 8
Restrictive dermopathy, lethal NGS panel	LMNA, ZMPSTE24	$1,100	5382	81406 x 1 81479 x 1	,$990	5383	81479 x 2	$1,300	5384	81406 x 1 81479 x 3
Rhizomelic chondrodysplasia punctata type 1	PEX7	$730	1997	81479 x 1	,$900	1998	81479 x 1	$1,100	1999	81479 x 2
Rhizomelic chondrodysplasia punctata, type 2	GNPAT	$900	2057	81479 x 1	,$900	2058	81479 x 1	$1,100	2059	81479 x 2
Rhizomelic chondrodysplasia punctata, type 3	AGPS	$900	2060	81479 x 1	,$900	2061	81479 x 1	$1,100	2062	81479 x 2
Rickets, hypophosphatemic, autosomal dominant	FGF23	$492	1283	81404 x 1	,$900	2355	81479 x 1	$1,100	2356	81404 x 1 81479 x 1
Rickets, hypophosphatemic, autosomal recessive, 1	DMP1	$900	1284	81479 x 1	,$900	1285	81479 x 1	$1,100	1634	81479 x 2
Rickets, hypophosphatemic, autosomal recessive, 2	ENPP1	$900	1286	81479 x 1	,$900	1287	81479 x 1	$1,100	1635	81479 x 2
Rickets, hypophosphatemic, X-linked dominant	PHEX	$900	1288	81406 x 1	,$900	1289	81479 x 1	$1,100	1636	81406 x 1 81479 x 1
Rickets, vitamin D-dependent type I	CYP27B1	$900	1290	81479 x 1	,$900	1291	81479 x 1	$1,100	1637	81479 x 2
Roberts syndrome & SC phocomelia syndrome	ESCO2	$900	1884	81479 x 1	,$900	1885	81479 x 1	$1,100	1886	81479 x 2
Robinow syndrome NGS panel	DVL1, DVL3, FZD2, NXN, ROR2, WNT5A	$1,100	2127	81479 x 6	,$990	2128	81479 x 6	$1,300	2129	81479 x 12
Robinow syndrome, autosomal dominant 1	WNT5A	$590	1817	81479 x 1	,$900	1818	81479 x 1	$1,100	1819	81479 x 2
Robinow syndrome, autosomal dominant 2	DVL1	$900	2119	81479 x 1	,$900	2120	81479 x 1	$1,100	2121	81479 x 2
Robinow syndrome, autosomal recessive	ROR2	$710	1823	81479 x 1	,$900	1824	81479 x 1	$1,100	1825	81479 x 2
Rubinstein-Taybi syndrome 1	CREBBP	$900	2292	81407 x 1	,$900	2293	81406 x 1	$1,100	2294	81407 x 1 81406 x 1
Rubinstein-Taybi syndrome 2	EP300	$900	2295	81479 x 1	,$900	2296	81479 x 1	$1,100	2297	81479 x 2
Rubinstein-Taybi syndrome NGS panel	CREBBP, EP300	$1,100	2298	81479 x 1 81407 x 1	,$990	2299	81479 x 1 81406 x 1	$1,300	2300	81479 x 2 81407 x 1 81406 x 1

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Prices and CPT Codes for NGS Disorder / Panel (s + t + u + v + w + x + y + z)

Panel	Genes	NGS			Del Dup			NGS/Del Dup Comp		
		Price	Test	CPT	Price	Test	CPT	Price	Test	CPT
Saethre-Chotzen syndrome	FGFR3, TWIST1	$545	1101	81479 x 1 81404 x 1	,$900	1102	81403 x 1	$1,100	5345	81479 x 1 81403 x 1 81404 x 1
Scapuloperoneal spinal muscular atrophy	TRPV4	$900	1292	81479 x 1	,$900	1770	81479 x 1	$1,100	1771	81479 x 2
Schneckenbecken dysplasia, INPPL1 related	INPPL1	$900	2301	81479 x 1	,$900	2302	81479 x 1	$1,100	2303	81479 x 2
Schopf-Schulz-Passarge syndrome	WNT10A	$530	2000	81479 x 1	,$900	2001	81479 x 1	$1,100	2002	81479 x 2
Schwartz-Jampel syndrome, type 1	HSPG2	$900	1293	81479 x 1	,$900	1294	81479 x 1	$1,100	1638	81479 x 2
Sclerosteosis	SOST	$445	1826	81479 x 1	,$900	1827	81479 x 1	$1,100	1828	81479 x 2
Serpentine fibula-polycystic kidney syndrome	NOTCH2	$900	1419	81479 x 1						
Serpentine fibula-polycystic kidney syndrome Option 1	NOTCH2	,			$900	1420	81479 x 1	$1,100	1639	81479 x 2
Short QT syndrome NGS panel	CACNA1C, CACNA2D1, CACNB2, KCNH2, KCNJ2, KCNQ1	$1,100	5330	81403 x 1 81406 x 3 81479 x 2	,$990	5331	81479 x 6	$1,300	5332	81403 x 1 81406 x 3 81479 x 8
Short stature with endocrinopathy NGS panel	BTK, GH1, GHR, GHRHR, GHSR, HESX1, IGF1, IGF1R, LHX3, LHX4, OTX2, POU1F1, PROP1, SOX3	$1,100	5358	81404 x 2 81405 x 3 81406 x 1 81479 x 8	,$990	5359	81479 x 14	$1,300	5360	81404 x 2 81405 x 3 81406 x 1 81479 x 22
Short stature, facial dysmorphism, and skeletal anomalies with or without cardiac anomalies	BMP2	$900	2457	81479 x 1	,$900	2458	81479 x 1	$1,100	2459	81479 x 2
Short stature, idiopathic, X-linked	SHOX	$500	2339	81405 x 1	,$900	2340	81479 x 1	$1,100	2341	81405 x 1 81479 x 1
Short-rib thoracic dysplasia 2 with or without polydactyly	IFT80	$900	1040	81479 x 1	,$900	1041	81479 x 1	$1,100	1481	81479 x 2
Short-rib thoracic dysplasia 3 with or without polydactyly	DYNC2H1	$900	1298	81479 x 1	,$900	1299	81479 x 1	$1,100	1641	81479 x 2
Short-rib thoracic dysplasia 4 with or without polydactyly	TTC21B	$900	1044	81479 x 1	,$900	1045	81479 x 1	$1,100	1483	81479 x 2
Short-rib thoracic dysplasia 5 with or without polydactyly	WDR19	$900	1046	81479 x 1	,$900	1047	81479 x 1	$1,100	1484	81479 x 2
Short-rib thoracic dysplasia 6 with or without polydactyly	NEK1	$900	1296	81479 x 1	,$900	1297	81479 x 1	$1,100	1640	81479 x 2
Short-rib thoracic dysplasia 7 with or without polydactyly	WDR35	$900	1300	81479 x 1	,$900	1301	81479 x 1	$1,100	1642	81479 x 2
Short-rib thoracic dysplasia 8 with or without polydactyly	WDR60	$900	1715	81479 x 1	,$900	1716	81479 x 1	$1,100	1717	81479 x 1 81479 x 1
Shprintzen-Goldberg craniosynostosis syndrome	SKI	$900	1302	81479 x 1	,$900	1303	81479 x 1	$1,100	1643	81479 x 2
Simpson-Golabi-Behmel syndrome, PIGA related	PIGA	$630	2387	81479 x 1	,$900	2388	81479 x 1	$1,100	2389	81479 x 2
Simpson-Golabi-Behmel syndrome, type 1	GPC3	$900	1972	81479 x 1	,$900	1973	81479 x 1	$1,100	1974	81479 x 2
Simpson-Golabi-Behmel syndrome, type 2	OFD1	$900	2304	81479 x 1	,$900	2305	81479 x 1	$1,100	2306	81479 x 2
Skeletal ciliopathy NGS panel	C21orf2, C2CD3, CEP120, DYNC2LI1, ICK, IFT140, IFT172, IFT52, IFT81, KIAA0586, KIAA0753, TCTEX1D2, WDR34, EVC2, EVC, DYNC2H1, IFT80, IFT43, IFT122, NEK1, TTC21B, WDR19, WDR35, WDR60	$1,300	5112	81479 x 24	,$990	5113	81479 x 24	$1,500	5114	81479 x 48
Skeletal dysplasia and skeletal ciliopathy NGS panel	ARSE, C21orf2, C2CD3, CEP120, DDR2, DYNC2LI1, EBP, ICK, IFT140, IFT172, IFT52, IFT81, KIAA0586, KIAA0753, LBR, NSDHL, PEX7, PTH1R, SBDS, SLC35D1, TCTEX1D2, WDR34, EVC2, FGFR3, EVC, DYNC2H1, INPPL1, IFT80, IFT43, IFT122, FLNB, HSPG2, ALPL, COL10A1, COL11A1, COL11A2, COL2A1, COL1A2, COL1A1, LIFR, MMP13, MMP9, NEK1, NKX3-2, RMRP, SLC26A2, SOX9, TRIP11, TRPV4, TTC21B, WDR19, WDR35, WDR60	$1,400	5430	81408 x 2 81479 x 51	,$900	5431	81479 x 53	$1,600	5432	81408 x 2 81479 x 104
Skeletal dysplasia core & extended NGS panel	ARSE, DDR2, EBP, LBR, NSDHL, PEX7, PTH1R, SBDS, SLC35D1, FGFR3, INPPL1, FLNB, HSPG2, ALPL, COL10A1, COL11A1, COL11A2, COL2A1, COL1A2, COL1A1, LIFR, MMP13, MMP9, NKX3-2, RMRP, SLC26A2, SOX9, TRIP11, TRPV4	$1,300	5118	81479 x 27 81408 x 2	,$990	5119	81479 x 29	$1,500	5120	81479 x 56 81408 x 2
Skeletal dysplasia core NGS panel	FGFR3, INPPL1, ALPL, COL2A1, COL1A2, COL1A1, NKX3-2, SLC26A2, SOX9, TRIP11	$1,100	5115	81479 x 8 81408 x 2	,$990	5116	81479 x 10	$1,300	5117	81479 x 18 81408 x 2

Skeletal dysplasia extended NGS panel	ARSE, DDR2, EBP, LBR, NSDHL, PEX7, PTH1R, SBDS, SLC35D1, FLNB, HSPG2, COL10A1, COL11A1, COL11A2, LIFR, MMP13, MMP9, RMRP, TRPV4	$1,100	5121	81479 x 19	,$990	5122	81479 x 19	$1,300	5123	81479 x 38
Skraban-Deardorff syndrome	WDR26	$900	2460	81479 x 1	,$900	2461	81479 x 1	$1,100	2462	81479 x 2
Smith-Lemli-Opitz syndrome	DHCR7	$900	2439	81405 x 1	,$900	2443	81479 x 1	$1,100	2444	81405 x 1 81479 x 1
Smith-McCort dysplasia	DYM	$900	1304	81479 x 1	,$900	1305	81479 x 1	$1,100	1644	81479 x 2
Smith-McCort dysplasia NGS panel	RAB33B, DYM	$1,100	5257	81479 x 2	,$990	5258	81479 x 2	$1,300	5259	81479 x 4
Snyder-Robinson mental retardation syndrome	SMS	$900	2440	81479 x 1	,$900	2441	81479 x 1	$1,100	2442	81479 x 2
Sotos syndrome 1	NSD1	$900	1975	81406 x 1	,$900	1976	81405 x 1	$1,100	1977	81406 x 1 81405 x 1
Sotos syndrome 2	NFIX	$900	1978	81479 x 1	,$900	1979	81479 x 1	$1,100	1980	81479 x 2
Sotos syndrome and related disorders NGS panel	APC2, EZH2, NFIX, NSD1	$1,100	5424	81406 x 1 81479 x 3	,$990	5425	81405 x 1 81479 x 3	$1,300	5426	81405 x 1 81406 x 1 81479 x 6
Spinal muscular atrophy, distal, congenital nonprogressive	TRPV4	$900	1306	81479 x 1	,$900	1772	81479 x 1	$1,100	1773	81479 x 2
Spinal muscular atrophy, distal, X-linked 3	ATP7A	$900	1307	81479 x 1	,$900	1308	81479 x 1	$1,100	1645	81479 x 2
Spondylo-Epi-Metaphyseal dysplasias NGS panel	ACAN, ACP5, B3GALT6, B3GAT3, BGN, C21orf2, CHST3, DDR2, FN1, GPX4, IDUA, IHH, LONP1, NANS, PAM16, PAPSS2, PTH1R, RAB33B, RNU4ATAC, RSPRY1, SBDS, SMARCAL1, TRAPPC2, FGFR3, DYM, EIF2AK3, INPPL1, IMPAD1, FLNB, HSPG2, CANT1, COL9A1, COL9A2, COMP, COL9A3, COL10A1, COL11A1, COL11A2, COL2A1, KIF22, LIFR, MATN3, MMP13, MMP9, NEK1, NKX3-2, NPR2, PCYT1A, RMRP, RUNX2, SLC26A2, TRPV4, WISP3, XYLT1	$1,400	5185	81406 x 1 81479 x 53	,$990	5186	81479 x 54	$1,600	5187	81406 x 1 81479 x 107
Spondylo-megaepiphyseal-metaphyseal dysplasia	NKX3-2	$490	1890	81479 x 1	,$900	1891	81479 x 1	$1,100	1892	81479 x 2
Spondylocarpotarsal synostosis syndrome	FLNB	$900	1309	81479 x 1	,$900	1310	81479 x 1	$1,100	1646	81479 x 2
Spondylocostal dysostosis 1, autosomal recessive	DLL3	$650	1423	81479 x 1	,$900	1424	81479 x 1	$1,100	1647	81479 x 2
Spondylocostal dysostosis 2, autosomal recessive	MESP2	$570	1425	81479 x 1	,$900	1426	81479 x 1	$1,100	1648	81479 x 2
Spondylocostal dysostosis 3, autosomal recessive	LFNG	$650	1427	81479 x 1	,$900	1428	81479 x 1	$1,100	1649	81479 x 2
Spondylocostal dysostosis 4, autosomal recessive	HES7	$650	1429	81479 x 1	,$900	1430	81479 x 1	$1,100	1650	81479 x 2
Spondylocostal dysostosis 5, autosomal dominant	TBX6	$650	1778	81479 x 1	,$900	1779	81479 x 1	$1,100	1780	81479 x 2
Spondylocostal dysostosis 6, autosomal recessive	RIPPLY2	$590	2342	81479 x 1	,$900	2350	81479 x 1	$1,100	2351	81479 x 2
Spondylocostal dysostosis NGS panel	RIPPLY2, DLL3, HES7, LFNG, MESP2, TBX6	$1,100	1781	81479 x 6	,$990	1782	81479 x 6	$1,300	1783	81479 x 12
Spondyloenchondrodysplasia with immune dysregulation	ACP5	$560	1829	81479 x 1	,$900	1830	81479 x 1	$1,100	1831	81479 x 2
Spondyloepimetaphyseal dysplasia with joint laxity NGS Panel	B3GALT6, KIF22	$1,100	2069	81479 x 2	,$990	2070	81479 x 2	$1,300	2071	81479 x 4
Spondyloepimetaphyseal dysplasia with joint laxity type 2	KIF22	$900	1432	81479 x 1	,			$1,100	1655	81479 x 2
Spondyloepimetaphyseal dysplasia with joint laxity type 2 Option 1	KIF22				$900	1433	81479 x 1			
Spondyloepimetaphyseal dysplasia with joint laxity, type 1, with or without fractures	B3GALT6	$900	2066	81479 x 1	,$900	5263	81479 x 1	$1,100	5264	81479 x 2
Spondyloepimetaphyseal dysplasia, Missouri type	MMP13	$900	1311	81479 x 1	,$900	1312	81479 x 1	$1,100	1653	81479 x 2
Spondyloepimetaphyseal dysplasia, Strudwick type	COL2A1	$900	1313	81479 x 1	,$900	1314	81479 x 1	$1,100	1654	81479 x 2
Spondyloepiphyseal dysplasia congenita	COL2A1	$900	1315	81479 x 1	,$900	1316	81479 x 1	$1,100	1656	81479 x 2
Spondyloepiphyseal dysplasia tarda, X-linked	TRAPPC2	$490	1318	81479 x 1	,$900	1319	81479 x 1	$1,100	1657	81479 x 2
Spondyloepiphyseal dysplasia with congenital joint dislocations	CHST3	$900	1320	81479 x 1	,$900	1321	81479 x 1	$1,100	1658	81479 x 2
Spondyloepiphyseal dysplasia, Maroteaux type	TRPV4	$900	1317	81479 x 1	,$900	1774	81479 x 1	$1,100	1775	81479 x 2
Spondylometaphyseal dysplasia with cone-rod dystrophy	PCYT1A	$650	1832	81479 x 1	,$900	1833	81479 x 1	$1,100	1834	81479 x 2
Spondylometaphyseal dysplasia, Kozlowski type	TRPV4	$900	1322	81479 x 1	,$900	1776	81479 x 1	$1,100	1777	81479 x 2
Spondyloocular syndrome	XYLT2	$900	2195	81479 x 1	,$900	2196	81479 x 1	$1,100	2197	81479 x 2
Spondyloperipheral dysplasia	COL2A1	$900	1323	81479 x 1						
Spondyloperipheral dysplasia Option 1	COL2A1	$410	1325	81479 x 1	,$900	1324	81479 x 1	$1,100	1659	81479 x 2
Steel syndrome	COL27A1	$900	2430	81479 x 1	,$900	2431	81479 x 1	$1,100	2432	81479 x 2
Stickler syndrome core NGS panel	COL11A1, COL11A2, COL2A1	$1,050	1337	81479 x 3	,$990	1665	81479 x 3	$1,250	1666	81479 x 6
Stickler syndrome NGS panel	LOXL3, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1, VCAN	$1,100	5127	81479 x 8	,$990	5128	81479 x 8	$1,250	5129	81479 x 16
Stickler syndrome NGS panel - Recessive	COL9A1, COL9A2, COL9A3	$1,050	1330	81479 x 3	,$990	1660	81479 x 3	$1,300	1661	81479 x 6
Stickler syndrome, type I	COL2A1	$900	1331	81479 x 1	,$900	1332	81479 x 1	$1,100	1662	81479 x 2
Stickler syndrome, type II	COL11A1	$900	1333	81479 x 1	,$900	1334	81479 x 1	$1,100	1663	81479 x 2
Stickler syndrome, type III	COL11A2	$900	1335	81479 x 1	,$900	1336	81479 x 1	$1,100	1664	81479 x 2
Stiff skin syndrome	FBN1	$900	1442	81408 x 1	,$900	2445	81479 x 1	$1,100	2446	81408 x 1 81479 x 1
Stuve-Wiedemann syndrome	LIFR	$900	1338	81479 x 1	,$900	1339	81479 x 1	$1,100	1667	81479 x 2

Supravalvular aortic stenosis	ELN	$900	1668	81479 x 1	,$900	1669	81479 x 1	$1,100	1670	81479 x 2
Terminal osseous dysplasia	FLNA	$900	2207	81479 x 1	,$900	5285	81479 x 1	$1,100	5286	81479 x 2
Thanatophoric dysplasia, type I / II	FGFR3	$900	1340	81479 x 1						
Thanatophoric dysplasia, type I / II Option 1	FGFR3	$570	1341	81404 x 1	,$900	1758	81479 x 1	$1,100	1759	81479 x 2
Three M syndrome 1	CUL7	$900	1343	81479 x 1	,$900	1344	81479 x 1	$1,100	1671	81479 x 2
Three M syndrome 2	OBSL1	$900	1345	81479 x 1	,$900	1346	81479 x 1	$1,100	1672	81479 x 2
Three M syndrome 3	CCDC8	$595	1347	81479 x 1	,$900	1348	81479 x 1	$1,100	1673	81479 x 2
Three M syndrome NGS panel	CUL7, CCDC8, OBSL1	$1,100	5172	81479 x 3	,$990	5173	81479 x 3	$1,300	5174	81479 x 6
Thrombocytopenia 1	WAS	$650	2415	81406 x 1	,$900	2416	81479 x 1	$1,100	2417	81406 x 1 81479 x 1
Thrombocytopenia and absent radius syndrome	RBM8A	$675	1349	81479 x 1	,$900	1350	81479 x 1	$1,100	1674	81479 x 2
Thrombocytopenia NGS Panel	ADAMTS13, ANKRD26, AP3B1, CYCS, ETV6, FLI1, FYB, GATA1, GBA, HOXA11, ITGA2B, ITGB3, LYST, MASTL, MECOM, MPL, MYH9, NBEAL2, PRKACG, RUNX1, SLFN14, SMPD1, SRC, TBXAS1, TUBB1, WAS, WIPF1, RBM8A	$1,300	5224	81406 x 1 81479 x 27	,$990	5225	81479 x 27	$1,500	5226	81406 x 1 81479 x 54
Tooth agenesis, selective, 1	MSX1	$617	1351	81479 x 1	,$900	1352	81479 x 1	$1,100	1675	81479 x 2
Tooth agenesis, selective, 4	WNT10A	$530	2003	81479 x 1	,$900	2004	81479 x 1	$1,100	2005	81479 x 2
Torg-Winchester syndrome	MMP2	$900	1353	81479 x 1	,$900	1354	81479 x 1	$1,100	1676	81479 x 2
Treacher Collins syndrome 1	TCOF1	$900	1355	81479 x 1	,$900	1356	81479 x 1	$1,100	1677	81479 x 2
Treacher Collins syndrome 2	POLR1D	$530	1357	81479 x 1	,$900	1358	81479 x 1	$1,100	1678	81479 x 2
Treacher Collins syndrome 3	POLR1C	$630	1359	81479 x 1	,$900	1360	81479 x 1	$1,100	1679	81479 x 2
Treacher Collins syndrome and related disorders NGS panel	DHODH, EDNRA, EFTUD2, POLR1A, SF3B4, TXNL4A, POLR1C, POLR1D, TCOF1	$1,100	5175	81479 x 9	,$990	5176	81479 x 9	$1,300	5177	81479 x 18
Treacher Collins syndrome core NGS panel	POLR1C, POLR1D, TCOF1	$1,000	5303	81479 x 3	,$990	5304	81479 x 3	$1,200	5305	81479 x 6
Trichodentoosseus syndrome	DLX3	$495	1915	81479 x 1	,$900	1916	81479 x 1	$1,100	1917	81479 x 2
Trichorhinophalangeal syndrome, type I / III	TRPS1	$900	1361	81479 x 1	,$900	1362	81479 x 1	$1,100	1680	81479 x 2
Trichothiodystrophy NGS panel	ERCC2, ERCC3, GTF2E2, GTF2H5, MPLKIP, RNF113A	$1,100	5385	81479 x 6	,$990	5386	81479 x 6	$1,300	5387	81479 x 12
Tuberous sclerosis NGS panel	TSC1, TSC2	$990	5342	81406 x 1 81407 x 1	,$990	5343	81405 x 1 81406 x 1	$1,190	5344	81405 x 1 81406 x 2 81407 x 1
Van Buchem disease, type 2	LRP5	$900	1369	81406 x 1	,$900	1370	81479 x 1	$1,100	1683	81406 x 1 81479 x 1
Van der Woude syndrome 1	IRF6	$900	2307	81479 x 1	,$900	2308	81479 x 1	$1,100	2309	81479 x 2
Van der Woude syndrome 2	GRHL3	$900	2310	81479 x 1	,$900	2311	81479 x 1	$1,100	2312	81479 x 2
Van der Woude syndrome NGS panel	GRHL3, IRF6	$990	2313	81479 x 2	,$990	2314	81479 x 2	$1,190	2315	81479 x 4
Van Maldergem syndrome 1	DCHS1	$900	2345	81479 x 1	,$900	2346	81479 x 1	$1,100	2347	81479 x 2
Vascular malformations NGS panel	ACVRL1, BMPR2, CAV1, EIF2AK4, ELMO2, FOXF1, GATA2, KCNK3, PTEN, SMAD9, ENG, GDF2, GLMN, CCM2, KRIT1, PDCD10, RASA1, SMAD4, TEK	$1,100	5178	81406 x 3 81479 x 15 81321 x 1	,$990	5179	81405 x 3 81479 x 15 81323 x 1	$1,300	5180	81405 x 3 81406 x 3 81479 x 30 81321 x 1 81323 x 1
Vitreoretinopathy NGS panel	BEST1, CAPN5, COL18A1, KCNJ13, KIF11, NR2E3, RS1, ZNF408, FZD4, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1, LRP5, NDP, TSPAN12, VCAN	$1,100	5227	81404 x 1 81406 x 2 81479 x 16	,$990	5228	81479 x 19	$1,300	5229	81404 x 1 81406 x 2 81479 x 35
Waardenburg syndrome NGS panel	EDN3, EDNRB, MITF, PAX3, SNAI2, SOX10, TYR	$1,100	5244	81404 x 1 81479 x 6	,$990	5245	81479 x 7	$1,300	5246	81404 x 1 81479 x 13
Wagner vitreoretinopathy	VCAN	$900	1371	81479 x 1	,$900	1372	81479 x 1	$1,100	1684	81479 x 2
Weaver and Cohen-Gibson syndrome NGS panel	EED, EZH2	$1,000	5265	81479 x 2	,$990	5266	81479 x 2	$1,200	5267	81479 x 4
Weaver syndrome	EZH2	$900	1981	81479 x 1	,$900	1982	81479 x 1	$1,100	1983	81479 x 2
Weill-Marchesani syndrome 1	ADAMTS10	$900	1375	81479 x 1	,$900	1376	81479 x 1	$1,100	1686	81479 x 2
Weill-Marchesani syndrome 2	FBN1	$900	1373	81408 x 1	,$900	1374	81479 x 1	$1,100	1685	81408 x 1 81479 x 1
Weill-Marchesani syndrome 3	LTBP2	$900	1724	81479 x 1	,$900	1725	81479 x 1	$1,100	1726	81479 x 2
Weill-Marchesani syndrome NGS panel	ADAMTS10, ADAMTS17, FBN1, LTBP2	$1,100	1730	81408 x 1 81479 x 3	,$990	1731	81479 x 4	$1,300	1732	81408 x 1 81479 x 7
Weill-Marchesani-like syndrome	ADAMTS17	$900	1727	81479 x 1	,$900	1728	81479 x 1	$1,100	1729	81479 x 2
Weissenbacher-Zweymuller syndrome	COL11A2	$900	1377	81479 x 1	,$900	1378	81479 x 1	$1,100	1687	81479 x 2
Wilson disease	ATP7B	$900	1381	81406 x 1	,$900	1382	81479 x 1	$1,100	1689	81406 x 1 81479 x 1
Wiskott-Aldrich syndrome	WAS	$650	2418	81406 x 1	,$900	2419	81479 x 1	$1,100	2420	81406 x 1 81479 x 1

Witkop syndrome	MSX1	$617	1383	81479 x 1	,$900	1384	81479 x 1	$1,100	1690	81479 x 2
Wolcott-Rallison syndrome	EIF2AK3	$900	1385	81479 x 1	,$900	1386	81479 x 1	$1,100	1691	81479 x 2
Wolman disease	LIPA	$650	2421	81479 x 1	,$900	2422	81479 x 1	$1,100	2423	81479 x 2
Xeroderma pigmentosum NGS panel	DDB2, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, POLH, XPA, XPC	$1,100	5388	81479 x 9	,$990	5389	81479 x 9	$1,300	5390	81479 x 18
Zimmermann-Laband syndrome 1	KCNH1	$900	2198	81479 x 1	,$900	2199	81479 x 1	$1,100	2200	81479 x 2
Zimmermann-Laband syndrome 2	ATP6V1B2	$900	2201	81479 x 1	,$900	2202	81479 x 1	$1,100	2203	81479 x 2
Zimmermann-Laband syndrome NGS panel	ATP6V1B2, KCNH1	$1,100	2204	81479 x 2	,$990	2205	81479 x 2	$1,300	2206	81479 x 4

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