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	,$990	2139	81479 x 1	$1,025	2140	81479 x 2
Abnormal mineralization disorders NGS panel	CLCN5, FAH, OCRL, SLC34A1, SLC34A3, SLC9A3R1, VDR, FGF23, DMP1, ENPP1, CYP27B1, CASR, ANKH, ALPL, PHEX	$1,370	5082	81479 x 11 81404 x 1 81405 x 1 81406 x 2	,$990	5083	81479 x 15	$1,745	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	$1,475	5141	81479 x 6
Achondrogenesis, type IA	TRIP11	$990	1001	81479 x 1	,$990	1002	81479 x 1	$1,365	1444	81479 x 2
Achondrogenesis, type IB - SLC26A2	SLC26A2	$600	1003	81479 x 1	,$990	1004	81479 x 1	$1,095	1445	81479 x 2
Achondrogenesis, type II / Hypochondrogenesis	COL2A1	$990	1005	81479 x 1	,$990	1006	81479 x 1	$1,365	1446	81479 x 2
Achondroplasia / Hypochondroplasia	FGFR3	$990	1007	81479 x 1	,$990	1008	81479 x 1	, ,		
Achondroplasia / Hypochondroplasia Option 1	FGFR3							$1,365	1757	81479 x 2
Acrofacial dysostosis 1, Nager type	SF3B4	$650	1988	81479 x 1	,$990	1989	81479 x 1	$1,195	1990	81479 x 2
Acromelic frontonasal dysostosis	ZSWIM6	$990	2006	81479 x 1	,$990	2007	81479 x 1	$1,365	2008	81479 x 2
Acromesomelic dysplasia, Hunter-Thompson type	GDF5	$990	1842	81479 x 1	,$990	1843	81479 x 1	$1,365	1844	81479 x 2
Acromesomelic dysplasia, Maroteaux type	NPR2	$990	1010	81479 x 1	,$990	1011	81479 x 1	$1,365	1447	81479 x 2
Adams-Oliver Syndrome 1	ARHGAP31	$990	1013	81479 x 1	,$990	1014	81479 x 1	$1,365	1448	81479 x 2
Adams-Oliver syndrome 2	DOCK6	$990	1449	81479 x 1	,$990	1450	81479 x 1	$1,365	1451	81479 x 2
Adams-Oliver syndrome 3	RBPJ	$990	1452	81479 x 1	,$990	1453	81479 x 1	$1,365	1454	81479 x 2
Adams-Oliver syndrome 4	EOGT	$990	1455	81479 x 1	,$990	1456	81479 x 1	$1,365	1457	81479 x 2
Adams-Oliver syndrome 5	NOTCH1	$990	1936	81407 x 1	,$990	1937	81479 x 1	$1,365	1938	81407 x 1 81479 x 1
Adams-Oliver syndrome 6	DLL4	$990	2352	81479 x 1	,$990	2353	81479 x 1	$1,365	2354	81479 x 2
Adams-Oliver syndrome NGS panel	DLL4, NOTCH1, DOCK6, EOGT, ARHGAP31, RBPJ	$1,220	1933	81407 x 1 81479 x 5	,$990	1934	81479 x 6	$1,595	1935	81407 x 1 81479 x 11
Alagille syndrome 1	JAG1	$990	1015	81407 x 1	,$990	1016	81406 x 1	$1,365	1461	81406 x 1 81407 x 1
Alagille syndrome 2	NOTCH2	$990	1390	81479 x 1	,$990	1391	81479 x 1	$1,365	1462	81479 x 2
Alagille syndrome NGS panel	ATP8B1, JAG1, NOTCH2	$1,200	5157	81407 x 1 81479 x 2	,$990	5158	81406 x 1 81479 x 2	$1,575	5159	81406 x 1 81407 x 1 81479 x 4
Alagille syndrome, ATP8B1 related	ATP8B1	$990	2141	81479 x 1	,$990	2142	81479 x 1	$1,365	2143	81479 x 2
Alopecia universalis congenita and Atrichia with papular lesions	HR	$990	2451	81479 x 1	,$990	2452	81479 x 1	$1,365	2453	81479 x 2
Alport syndrome NGS panel	COL4A3, COL4A4, COL4A6, COL4A5	$1,120	5142	81407 x 2 81408 x 1 81479 x 1	,$990	5143	81479 x 3 81407 x 1	$1,495	5144	81407 x 2 81408 x 2 81479 x 4
Alport syndrome, X-linked	COL4A5	$990	1017	81408 x 1	,$990	1018	81407 x 1	$1,365	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	$1,395	5197	81479 x 16	,$990	5198	81479 x 16	$1,770	5199	81479 x 32
Amelogenesis imperfecta, type IV	DLX3	$495	1912	81479 x 1	,$990	1913	81479 x 1	$995	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	$1,470	5235	81403 x 1 81404 x 1 81405 x 1 81406 x 4 81407 x 1 81479 x 16	,$990	5236	81479 x 24	$1,845	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	,$990	1893	81479 x 1	$995	1894	81479 x 2
Angiopathy, hereditary, with nephropathy, aneurysms, and muscle cramps	COL4A1	$990	2144	81408 x 1	,$990	2145	81479 x 1	$1,365	2146	81408 x 1 81479 x 1
Aortic aneurysm, familial thoracic 3	TGFBR2	$600	1020	81405 x 1	,$990	1021	81479 x 1	$1,095	1464	81405 x 1 81479 x 1
Aortic aneurysm, familial thoracic 4	MYH11	$990	1023	81408 x 1	,$990	1024	81479 x 1	$1,365	1467	81408 x 1 81479 x 1
Aortic aneurysm, familial thoracic 5	TGFBR1	$600	1025	81405 x 1	,$990	1026	81479 x 1	$1,095	1468	81405 x 1 81479 x 1
Aortic aneurysm, familial thoracic 6	ACTA2	$599	1029	81405 x 1	,$990	1030	81479 x 1	$1,095	1473	81405 x 1 81479 x 1
Aortic aneurysm, familial thoracic 7	MYLK	$990	1031	81479 x 1	,$990	5273	81479 x 1	$1,365	5274	81479 x 2

Aortic aneurysm, familial thoracic 8	PRKG1	$990	1739	81479 x1	,$990	1740	81479 x1	$1,365	1741	81479 x2
Aortic aneurysm, familial thoracic 9	MFAP5	$685	2009	81479 x1	,$990	2010	81479 x1	$1,195	2011	81479 x2
Aortic valve disease 1	NOTCH1	$990	1939	81407 x1	,$990	1940	81479 x1	$1,365	1941	81407 x1 81479 x1
Arterial calcification, generalized, of infancy NGS panel	ABCC6, ENPP1	$1,120	1438	81479 x2	,$990	1478	81479 x2	$1,495	1479	81479 x4
Arterial calcification, generalized, of infancy, 1	ENPP1	$990	1036	81479 x1	,$990	1037	81479 x1	$1,365	1476	81479 x2
Arterial calcification, generalized, of infancy, 2	ABCC6	$990	1436	81479 x1	,$990	1437	81479 x1	$1,365	1477	81479 x2
Arterial tortuosity syndrome	SLC2A10	$615	1038	81479 x1	,$990	1039	81479 x1	$1,195	1480	81479 x2
Atelosteogenesis, type I / III	FLNB	$990	1048	81479 x1	,$990	2390	81479 x1	$1,365	2391	81479 x2
Atelosteogenesis, type I / III Option 1	FLNB	$495	1049	81479 x1						
Atelosteogenesis, type II	SLC26A2	$600	1051	81479 x1	,$990	1052	81479 x1	$1,095	1485	81479 x2
Atrial fibrillation NGS panel	ABCC9, GATA6, GJA5, HCN4, KCNA5, KCND3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LMNA, MYL4, NPPA, NUP155, SCN1B, SCN2B, SCN3B, SCN4B, SCN5A, TBX5	$1,390	5309	81403 x1 81404 x1 81405 x1 81406 x3 81407 x1 81479 x14	,$990	5310	81479 x21	$1,765	5311	81403 x1 81404 x1 81405 x1 81406 x3 81407 x1 81479 x35
Atrioventricular block NGS Panel	DES, EMD, LMNA, NKX2-5, SCN1B, SCN5A, TRPM4	$1,220	5312	81404 x1 81405 x2 81406 x1 81407 x1 81479 x2	,$990	5313	81404 x1 81479 x6	$1,595	5314	81404 x2 81405 x2 81406 x1 81407 x1 81479 x8
Atypical hemolytic uremic syndrome susceptibility and related disorders NGS panel	ADAMTS13, C3, CD46, CFB, CFH, CFHR1, CFHR2, CFHR3, CFHR5, CFI, DGKE, MMACHC, THBD	$1,320	5145	81404 x1 81479 x12	,$990	5146	81479 x11	$1,695	5147	81404 x1 81479 x23
Auriculocondylar syndrome NGS panel	EDN1, GNAI3, PLCB4	$1,120	5352	81479 x3	,$990	5353	81479 x3	$1,495	5354	81479 x6
Avascular necrosis of femoral head, primary	COL2A1	$990	1053	81479 x1	,$990	1835	81479 x1	$1,365	1836	81479 x2
Axial spondylometaphyseal dysplasia NGS panel	C21orf2, NEK1	$1,100	5254	81479 x2	,$990	5255	81479 x2	$1,475	5256	81479 x4
Barber-Say syndrome	TWIST2	$445	2147	81479 x1	,$990	2148	81479 x1	$1,025	2149	81479 x2
Basal cell nevus syndrome - PTCH1	PTCH1	$990	2211	81479 x1	,$990	2212	81479 x1	$1,365	2213	81479 x2
Basal cell nevus syndrome - PTCH2	PTCH2	$990	2214	81479 x1	,$990	2215	81479 x1	$1,365	2216	81479 x2
Basal cell nevus syndrome - SUFU	SUFU	$990	2217	81479 x1	,$990	2218	81479 x1	$1,365	2219	81479 x2
Basal cell nevus syndrome NGS panel	PTCH1, PTCH2, SUFU	$1,100	2220	81479 x3	,$990	2221	81479 x3	$1,800	2222	81479 x6
Bent bone dysplasia syndrome	FGFR2	$990	1909	81479 x1	,$990	1910	81479 x1	$1,365	1911	81479 x2
Bethlem myopathy & Ullrich congenital muscular dystrophy NGS panel	COL12A1, COL6A3, COL6A2, COL6A1	$1,120	1059	81407 x3 81479 x1	,$990	1486	81479 x3 81406 x1	$1,495	1487	81407 x3 81479 x4 81406 x1
Birt-Hogg-Dube syndrome	FLCN	$990	2223	81479 x1	,$990	2224	81479 x1	$1,365	2225	81479 x2
Blepharocheilodontic syndrome NGS panel	CDH1, CTNND1	$1,100	5346	81406 x1 81479 x1	,$990	5347	81479 x2	$1,475	5348	81406 x1 81479 x3
Boomerang dysplasia	FLNB	$990	1060	81479 x1	,$990	2392	81479 x1	$1,365	2393	81479 x2
Boomerang dysplasia Option 1	FLNB	$495	1061	81479 x1						
Brachyolmia type 3	TRPV4	$990	1063	81479 x1	,$990	1760	81479 x1	$1,365	1761	81479 x2
Brain small vessel disease with or without ocular anomalies	COL4A1	$990	2150	81408 x1	,$990	2151	81479 x1	$1,365	2152	81408 x1 81479 x1
Branchiooculofacial syndrome	TFAP2A	$990	2078	81479 x1	,$990	2079	81479 x1	$1,365	2080	81479 x2
Brittle cornea syndrome 1	ZNF469	$990	1064	81479 x1	,$990	1065	81479 x1	$1,365	1488	81479 x2
Brittle cornea syndrome 2	PRDM5	$990	1066	81479 x1	,$990	1067	81479 x1	$1,365	1489	81479 x2
Brittle cornea syndrome NGS panel	PRDM5, ZNF469	$1,100	5247	81479 x2	,$990	5248	81479 x2	$1,750	5249	81479 x4
Bruck syndrome 2	PLOD2	$990	1068	81479 x1	,$990	1692	81479 x1	$1,365	1693	81479 x2
Brugada syndrome and related disorders NGS panel	ABCC9, ANK2, CACNA1C, CACNA2D1, CACNB2, CAV3, FGF12, GPD1L, HCN4, KCND2, KCND3, KCNE3, KCNE5, KCNH2, KCNJ8, PKP2, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN5A, SEMA3A, SLMAP, TRPM4	$1,495	5315	81403 x1 81404 x2 81406 x3 81407 x1 81479 x18	,$990	5316	81479 x25	$1,870	5317	81403 x1 81404 x2 81406 x3 81407 x1 81479 x43
Buschke-Ollendorff syndrome	LEMD3	$990	1069	81479 x1	,$990	1070	81479 x1	$1,365	1490	81479 x2
Caffey disease	COL1A1	$990	1071	81408 x1	,$990	2449	81479 x1	$1,365	2450	81408 x1 81479 x1
Campomelic dysplasia	SOX9	$780	1072	81479 x1	,$990	1073	81479 x1	$1,295	1491	81479 x2
Camptodactyly, tall stature, and hearing loss syndrome	FGFR3	$990	2316	81479 x1	,$990	2317	81479 x1	$1,365	2318	81479 x2
Camurati-Engelmann disease	TGFB1	$990	1074	81479 x1	,$990	2437	81479 x1	$1,365	2438	81479 x2
Cantu syndrome	ABCC9	$990	1784	81479 x1	,$990	1785	81479 x1	$1,365	1786	81479 x2
Cantu syndrome NGS panel	ABCC9, KCNJ8	$1,100	5160	81479 x2	,$990	5161	81479 x2	$1,475	5162	81479 x4
Cantu syndrome, KCNJ8 related	KCNJ8	$490	2226	81479 x1	,$990	2227	81479 x1	$995	2228	81479 x2
Capillary malformation arteriovenous malformation	RASA1	$990	1075	81479 x1	,$990	1076	81479 x1	$1,365	1492	81479 x2

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	$1,520	5318	81413 x 1	,$990	5319	81414 x 1	$1,895	5320	81413 x 1 81414 x 1
Cardiac valvular dysplasia, X-linked	FLNA	$990	1077	81479 x 1	,$990	5275	81479 x 1	$1,365	5276	81479 x 2
Cartilage-hair hypoplasia	RMRP	$350	1078	81479 x 1	,$990	1895	81479 x 1	$995	1896	81479 x 2
Catecholaminergic polymorphic ventricular tachycardia NGS panel	ANK2, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TECRL, TRDN	$1,220	5321	81403 x 1 81405 x 1 81408 x 1 81479 x 6	,$990	5322	81479 x 9	$1,595	5323	81403 x 1 81405 x 1 81408 x 1 81479 x 15
Catel-Manzke syndrome	TGDS	$990	2012	81479 x 1	,$990	2013	81479 x 1	$1,365	2014	81479 x 2
Cerebral arteriopathy, with subcortical infarcts and leukoencephalopathy 1	NOTCH3	$990	1991	81479 x 1	,$990	2136	81479 x 1	$1,365	2137	81479 x 2
Cerebral cavernous malformations 1	KRIT1	$990	1493	81479 x 1	,$990	1494	81479 x 1	$1,365	1495	81479 x 2
Cerebral cavernous malformations 2	CCM2	$990	1496	81479 x 1	,$990	1497	81479 x 1	$1,365	1498	81479 x 2
Cerebral cavernous malformations 3	PDCD10	$990	1499	81479 x 1	,$990	1500	81479 x 1	$1,365	1501	81479 x 2
Cerebral cavernous malformations NGS panel	CCM2, KRIT1, PDCD10	$1,100	1502	81479 x 3	,$990	1503	81479 x 3	$1,475	1504	81479 x 6
Charcot-Marie-Tooth disease NGS panel	AARS, AIFM1, 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	$1,520	5130	81404 x 3 81405 x 5 81406 x 7 81479 x 25 81403 x 1 81325 x 1	,$990	5131	81479 x 41 81324 x 1	$1,895	5132	81403 x 1 81404 x 3 81405 x 5 81406 x 7 81479 x 66 81324 x 1 81325 x 1
CHARGE syndrome	CHD7	$990	2229	81407 x 1	,$990	2230	81479 x 1	$1,365	2231	81407 x 1 81479 x 1
Cholestasis NGS Panel	ABCB11, ABCB4, ATP8B1, TJP2	$1,120	2262	81479 x 4	,$990	2263	81479 x 4	$1,495	2264	81479 x 8
Cholestasis, benign recurrent intrahepatic, 1	ATP8B1	$990	2232	81479 x 1	,$990	2233	81479 x 1	$1,365	2234	81479 x 2
Cholestasis, benign recurrent intrahepatic, 2	ABCB11	$990	2235	81479 x 1	,$990	2236	81479 x 1	$1,365	2237	81479 x 2
Cholestasis, intrahepatic, of pregnancy, 1	ATP8B1	$990	2241	81479 x 1	,$990	2242	81479 x 1	$1,365	2243	81479 x 2
Cholestasis, intrahepatic, of pregnancy, 3	ABCB4	$990	2244	81479 x 1	,$990	2245	81479 x 1	$1,365	2246	81479 x 2
Cholestasis, progressive familial intrahepatic, 1	ATP8B1	$990	2250	81479 x 1	,$990	2251	81479 x 1	$1,365	2252	81479 x 2
Cholestasis, progressive familial intrahepatic, 2	ABCB11	$990	2253	81479 x 1	,$990	2254	81479 x 1	$1,365	2255	81479 x 2
Cholestasis, progressive familial intrahepatic, 3	ABCB4	$990	2256	81479 x 1	,$990	2257	81479 x 1	$1,365	2258	81479 x 2
Cholestasis, progressive familial intrahepatic, 4	TJP2	$990	2259	81479 x 1	,$990	2260	81479 x 1	$1,365	2261	81479 x 2
Chondrocalcinosis 2	ANKH	$990	1079	81479 x 1	,$990	1505	81479 x 1	$1,365	1506	81479 x 2
Chondrodysplasia punctata 1, X-linked recessive	ARSE	$990	2018	81479 x 1	,$990	2019	81479 x 1	$1,365	2020	81479 x 2
Chondrodysplasia punctata 2, X-linked dominant	EBP	$990	2021	81479 x 1	,$990	2022	81479 x 1	$1,365	2023	81479 x 2
Chondrodysplasia punctata and related disorders NGS panel	AGPS, ARSE, EBP, FAR1, GNPAT, LBR, MGP, NSDHL, PEX5, PEX7	$1,320	2024	81479 x 10	,$990	2025	81479 x 10	$1,695	2026	81479 x 20
Chondrodysplasia with joint dislocations, GPAPP type	IMPAD1	$630	1848	81479 x 1	,$990	1849	81479 x 1	$1,195	1850	81479 x 2
Chondrodysplasia, Blomstrand type	PTH1R	$990	2015	81479 x 1	,$990	2016	81479 x 1	$1,365	2017	81479 x 2
Chondrodysplasia, Grebe type	GDF5	$990	1845	81479 x 1	,$990	1846	81479 x 1	$1,365	1847	81479 x 2
Cleft lip, cleft palate and related disorders NGS panel	FOXE1, GRHL3, IRF6, NECTIN1, SATB2, TBX22, TGDS, TP63, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1	$1,320	5291	81479 x 14	,$990	5292	81479 x 14	$1,695	5293	81479 x 28
Cleidocranial dysplasia	RUNX2	$990	1080	81479 x 1	,$990	1392	81479 x 1	$1,365	1507	81479 x 2
Cohen syndrome	VPS13B	$990	2454	81408 x 1	,$990	2455	81407 x 1	$1,365	2456	81407 x 1 81408 x 1
Cole-Carpenter syndrome 1	P4HB	$990	2081	81479 x 1	,$990	2082	81479 x 1	$1,365	2083	81479 x 2
Cole-Carpenter syndrome 2	SEC24D	$990	2084	81479 x 1	,$990	2085	81479 x 1	$1,365	2086	81479 x 2
Cole-Carpenter syndrome NGS panel	P4HB, SEC24D	$1,100	5188	81479 x 2	,$990	5189	81479 x 2	$1,475	5190	81479 x 4
Congenital contractural arachnodactyly	FBN2	$990	1081	81479 x 1	,$990	1082	81479 x 1	$1,365	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	$1,520	5294	81406 x 1 81479 x 30	,$990	5295	81479 x 31	$1,895	5296	81406 x 1 81479 x 61

Congenital heart disease NGS panel	CHD7, GATA4, GATA6, GDF1, NKX2-5, NKX2-6, NOTCH1, NR2F2, TBX1, TBX20, TBX5, ZIC3, ELN, JAG1, NOTCH2	$1,220	5148	81405 x 1 81407 x 3 81479 x 11	,$990	5149	81406 x 1 81479 x 14	$1,595	5150	81405 x 1 81406 x 1 81407 x 3 81479 x 25
Cornelia de Lange syndrome 1	NIPBL	$990	2424	81479 x 1	,$990	2425	81479 x 1	$1,365	2426	81479 x 2
Cornelia de Lange syndrome and related disorders NGS panel	AFF4, ANKRD11, HDAC8, KMT2A, NIPBL, RAD21, SMC1A, SMC3	$1,220	5181	81405 x 1 81479 x 7	,$990	5182	81479 x 8	$1,595	5183	81405 x 1 81479 x 15
Craniodiaphyseal dysplasia, autosomal dominant	SOST	$445	1787	81479 x 1	,$990	1788	81479 x 1	$995	1789	81479 x 2
Cranioectodermal dysplasia 2	WDR35	$990	1083	81479 x 1	,$990	1084	81479 x 1	$1,365	1509	81479 x 2
Cranioectodermal dysplasia 4	WDR19	$990	1085	81479 x 1	,$990	1086	81479 x 1	$1,365	1510	81479 x 2
Craniofrontonasal syndrome	EFNB1	$570	1930	81479 x 1	,$990	1931	81479 x 1	$1,095	1932	81479 x 2
Craniometaphyseal dysplasia, autosomal dominant	ANKH	$990	1087	81479 x 1	,$990	1511	81479 x 1	$1,365	1512	81479 x 2
Craniosynostosis core NGS panel	TCF12, FGFR3, FGFR2, FGFR1, TWIST1	$1,120	5194	81404 x 1 81405 x 1 81479 x 3	,$990	5195	81403 x 1 81479 x 4	$1,495	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, TCF12, ZIC1, FGFR3, FGFR2, FGFR1, IFT43, IFT122, GLI3, SKI, TGFBR1, TGFBR2, TWIST1, WDR19, WDR35	$1,495	5085	81479 x 21 81405 x 3 81404 x 1	,$990	5086	81479 x 24 81403 x 1	$1,870	5087	81479 x 45 81405 x 3 81404 x 1 81403 x 1
Craniosynostosis, type 1	TWIST1	$445	1092	81404 x 1	,$990	1093	81403 x 1	$995	1513	81404 x 1 81403 x 1
Cutaneomucosal venous malformations	TEK	$990	1733	81479 x 1	,$990	1734	81479 x 1	$1,365	1735	81479 x 2
Cutis laxa NGS panel	ALDH18A1, ATP6V1A, ATP6V1E1, FBLN5, EFEMP2, ELN, ATP6V0A2, LTBP4, PYCR1	$1,120	1712	81479 x 9	,$990	1713	81479 x 9	$1,495	1714	81479 x 18
Cutis laxa, autosomal dominant 1	ELN	$990	1515	81479 x 1	,$990	1516	81479 x 1	$1,365	1517	81479 x 2
Cutis laxa, autosomal dominant 2 & autosomal recessive, type IA	FBLN5	$990	1107	81479 x 1	,$990	1108	81479 x 1	$1,365	1518	81479 x 2
Cutis laxa, autosomal recessive 1B	EFEMP2	$990	1109	81479 x 1	,$990	1110	81479 x 1	$1,365	1523	81479 x 2
Cutis laxa, autosomal recessive IC	LTBP4	$990	1697	81479 x 1	,$990	1698	81479 x 1	$1,365	1699	81479 x 2
Cutis laxa, autosomal recessive IIA	ATP6V0A2	$990	1700	81479 x 1	,$990	1701	81479 x 1	$1,365	1702	81479 x 2
Cutis laxa, autosomal recessive IIIA	ALDH18A1	$990	1706	81479 x 1	,$990	1707	81479 x 1	$1,365	1708	81479 x 2
Cutis laxa, autosomal recessive, type IIB & type IIIB	PYCR1	$990	1703	81479 x 1	,$990	1704	81479 x 1	$1,365	1705	81479 x 2
Czech dysplasia	COL2A1	$990	2319	81479 x 1	,$990	2320	81479 x 1	$1,365	2321	81479 x 2
Dense bone dysplasia NGS panel	DLX3, GJA1, HPGD, LRP4, MTAP, PTDSS1, SLCO2A1, TBXAS1, TNFRSF11B, TYROBP, ANKH, COL1A1, SOST, TGFB1	$1,320	5088	81479 x 13 81408 x 1	,$990	5089	81479 x 14	$1,695	5090	81479 x 27 81408 x 1
Desbuquois dysplasia 1	CANT1	$990	1113	81479 x 1	,$990	1114	81479 x 1	$1,365	1524	81479 x 2
Desbuquois dysplasia 2	XYLT1	$990	1851	81479 x 1	,$990	1852	81479 x 1	$1,365	1853	81479 x 2
Desbuquois dysplasia and related disorders NGS panel	B3GALT6, B3GAT3, CHST3, CSGALNACT1, GZF1, IMPAD1, FLNB, CANT1, KIF22, SLC26A2, XYLT1	$1,320	5124	81479 x 11	,$990	5125	81479 x 11	$1,695	5126	81479 x 22
Desbuquois dysplasia core NGS panel	CSGALNACT1, IMPAD1, CANT1, XYLT1	$1,190	1854	81479 x 4	,$990	1855	81479 x 4	$1,565	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	$1,220	5288	81405 x 1 81479 x 17	,$990	5289	81479 x 17	$1,595	5290	81405 x 1 81479 x 34
Diaphanospondylodysostosis	BMPER	$990	1115	81479 x 1	,$990	1525	81479 x 1	$1,365	1526	81479 x 2
Diastrophic dysplasia	SLC26A2	$600	1116	81479 x 1	,$990	1117	81479 x 1	$1,095	1527	81479 x 2
Digital arthropathy-brachydactyly, familial	TRPV4	$990	1118	81479 x 1	,$990	1762	81479 x 1	$1,365	1763	81479 x 2
Distal arthrogryposes NGS panel	ECEL1, MYBPC1, MYH3, MYH8, NALCN, PIEZO2, TNNI2, TNNT3, TPM2, FBN2	$1,220	5133	81479 x 10	,$990	5134	81479 x 10	$1,595	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	$1,420	5200	81404 x 2 81405 x 1 81406 x 2 81479 x 19	,$990	5201	81479 x 24	$1,795	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	$1,395	5238	81404 x 1 81405 x 2 81406 x 3 81407 x 1 81408 x 1 81479 x 12	,$990	5239	81479 x 20	$1,770	5240	81404 x 1 81405 x 2 81406 x 3 81407 x 1 81408 x 1 81479 x 32
Dyggve-Melchior-Clausen disease	DYM	$990	1119	81479 x 1	,$990	1120	81479 x 1	$1,365	1528	81479 x 2
Dyggve-Melchior-Clausen disease NGS panel	RAB33B, DYM	$995	5297	81479 x 2	,$990	5298	81479 x 2	$1,370	5299	81479 x 4

Dyskeratosis congenita NGS panel	ACD, CTC1, DKC1, NHP2, NOP10, PARN, RTEL1, TERC, TERT, TINF2, USB1, WRAP53	$1,220	5203	81479 x 12	,$990	5204	81479 x 12	$1,595	5205	81479 x 24
Dyssegmental dysplasia, Silverman-Handmaker type	HSPG2	$990	1121	81479 x 1	,$990	1122	81479 x 1	$1,365	1529	81479 x 2
Ectodermal dysplasia 1, hypohidrotic, X-linked	EDA	$730	2029	81479 x 1	,$990	2030	81479 x 1	$1,295	2031	81479 x 2
Ectodermal dysplasia NGS panel	EDA, EDAR, EDARADD, GJB6, HOXC13, KDF1, KRT74, KRT85, MSX1	$1,120	5206	81479 x 9	,$990	5207	81479 x 9	$1,495	5208	81479 x 18
Ectopia lentis NGS panel	ADAMTSL4, FBN1	$1,120	5163	81408 x 1 81479 x 1	,$990	5164	81479 x 2	$1,495	5165	81479 x 3 81408 x 1
Ectopia lentis, isolated, autosomal dominant	FBN1	$990	1123	81408 x 1	,$990	1124	81479 x 1	$1,365	1530	81408 x 1 81479 x 1
Ectopia lentis, isolated, autosomal recessive	ADAMTSL4	$990	1125	81479 x 1	,$990	1126	81479 x 1	$1,365	1531	81479 x 2
Ehlers-Danlos syndrome core NGS panel	COL5A2, COL5A1, COL3A1	$1,130	5209	81479 x 3	,$990	5210	81479 x 3	$1,505	5211	81479 x 6
Ehlers-Danlos syndrome NGS panel - Dominant	C1R, C1S, COL12A1, FLNA, COL5A2, COL5A1, COL3A1, COL1A2, COL1A1	$1,220	5064	81408 x 2 81479 x 7	,$990	5065	81479 x 9	$1,475	5066	81408 x 2 81479 x 16
Ehlers-Danlos syndrome NGS panel - Dominant & Recessive	ADAMTS2, B3GALT6, B4GALT7, C1R, C1S, CHST14, COL12A1, DSE, FKBP14, FLNA, ATP7A, COL5A2, COL5A1, COL3A1, COL1A2, COL1A1, PLOD1, PRDM5, SLC39A13, ZNF469	$1,420	5067	81408 x 2 81479 x 18	,$990	5068	81479 x 20	$1,590	5069	81408 x 2 81479 x 38
Ehlers-Danlos syndrome NGS panel - Recessive	ADAMTS2, B3GALT6, B4GALT7, CHST14, COL12A1, DSE, FKBP14, ATP7A, PLOD1, PRDM5, SLC39A13, ZNF469	$1,220	5070	81479 x 12	,$990	5071	81479 x 12	$1,475	5072	81479 x 24
Ehlers-Danlos syndrome, classic type NGS panel	COL5A2, COL5A1	$1,100	1134	81479 x 2	,$990	1535	81479 x 2	$1,475	1536	81479 x 4
Ehlers-Danlos syndrome, musculocontractural type, 1	CHST14	$570	1127	81479 x 1	,$990	1128	81479 x 1	$1,095	1532	81479 x 2
Ehlers-Danlos syndrome, periodontal type NGS panel	C1R, C1S	$1,100	5250	81479 x 2	,$990	5251	81479 x 2	$1,475	5252	81479 x 4
Ehlers-Danlos syndrome, spondylodysplastic type NGS panel	B3GALT6, B4GALT7, SLC39A13	$1,120	2035	81479 x 3	,$990	2036	81479 x 3	$1,495	2037	81479 x 6
Ehlers-Danlos syndrome, spondylodysplastic type, 1	B4GALT7	$990	1951	81479 x 1	,$990	1952	81479 x 1	$1,365	1953	81479 x 2
Ehlers-Danlos syndrome, spondylodysplastic type, 2	B3GALT6	$990	2032	81479 x 1	,$990	5271	81479 x 1	$1,365	5272	81479 x 2
Ehlers-Danlos syndrome, spondylodysplastic type, 3	SLC39A13	$990	1129	81479 x 1	,$990	1754	81479 x 1	$1,365	1755	81479 x 2
Ehlers-Danlos syndrome, type I	COL5A1	$990	1130	81479 x 1	,$990	1131	81479 x 1	$1,365	1533	81479 x 2
Ehlers-Danlos syndrome, type II	COL5A2	$990	1132	81479 x 1	,$990	1133	81479 x 1	$1,365	1534	81479 x 2
Ehlers-Danlos syndrome, type IV	COL3A1	$990	1135	81479 x 1	,$990	1136	81479 x 1	$1,365	1537	81479 x 2
Ehlers-Danlos syndrome, type VI	PLOD1	$990	1137	81479 x 1	,$990	2433	81479 x 1	$1,365	2434	81479 x 2
Ehlers-Danlos syndrome, type VIIA / VIIB	COL1A2, COL1A1	$1,100	1138	81479 x 2	,$990	1139	81479 x 2	$1,475	1538	81479 x 4
Eiken syndrome	PTH1R	$990	2038	81479 x 1	,$990	2039	81479 x 1	$1,365	2040	81479 x 2
Ellis-van Creveld syndrome and Weyers acrofacial dysostosis NGS Panel	EVC2, EVC	$1,000	1140	81479 x 2	,$990	1141	81479 x 2	$1,375	1539	81479 x 4
Epidermolysis bullosa dystrophica, autosomal dominant & recessive	COL7A1	$990	1790	81479 x 1	,$990	1791	81479 x 1	$1,365	1792	81479 x 2
Epidermolysis bullosa NGS panel	CDSN, CHST8, COL17A1, CSTA, DSP, DST, EXPH5, FERMT1, ITGA3, ITGA6, ITGB4, JUP, KLHL24, KRT14, KRT5, LAMA3, LAMB3, LAMC2, PKP1, PLEC1, SERPINB8, TGM5, COL7A1	$1,420	5073	81479 x 21 81406 x 2	,$990	5074	81479 x 23	$1,795	5075	81479 x 44 81406 x 2
Exostoses, multiple, type I	EXT1	$990	1142	81479 x 1	,$990	1143	81479 x 1	$1,365	1540	81479 x 2
Exostoses, multiple, type II	EXT2	$990	1144	81479 x 1	,$990	1145	81479 x 1	$1,365	1541	81479 x 2
Exudative vitreoretinopathy 1	FZD4	$590	1393	81479 x 1	,$990	1394	81479 x 1	$1,095	1544	81479 x 2
Exudative vitreoretinopathy 2, X-linked	NDP	$570	1395	81404 x 1	,$990	1396	81479 x 1	$1,095	1545	81404 x 1 81479 x 1
Exudative vitreoretinopathy 4	LRP5	$990	1147	81406 x 1	,$990	1148	81479 x 1	$1,365	1546	81406 x 1 81479 x 1
Exudative vitreoretinopathy 5	TSPAN12	$990	1397	81479 x 1	,$990	1398	81479 x 1	$1,365	1547	81479 x 2
Exudative vitreoretinopathy NGS panel	CAPN5, KIF11, ZNF408, FZD4, LRP5, NDP, TSPAN12	$1,120	1399	81479 x 5 81404 x 1 81406 x 1	,$990	1548	81479 x 7	$1,495	1549	81479 x 12 81404 x 1 81406 x 1
Failure of tooth eruption, primary	PTH1R	$990	2041	81479 x 1	,$990	2042	81479 x 1	$1,365	2043	81479 x 2
FGFR2 related craniosynostosis	FGFR2	$990	1105	81479 x 1	,$990	1106	81479 x 1	$1,365	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	$1,800	5013	81406 x 1 81408 x 1 81479 x 4
Fibrochondrogenesis 1	COL11A1	$990	1149	81479 x 1	,$990	1150	81479 x 1	$1,365	1550	81479 x 2
Fibrochondrogenesis 2	COL11A2	$990	1151	81479 x 1	,$990	1152	81479 x 1	$1,365	1551	81479 x 2
Fibrochondrogenesis NGS panel	COL11A1, COL11A2	$1,100	1694	81479 x 2	,$990	1695	81479 x 2	$1,475	1696	81479 x 4
Fibrodysplasia ossificans progressiva	ACVR1	$990	1796	81479 x 1	,$990	1797	81479 x 1	$1,365	1798	81479 x 2
Fibular hypoplasia and complex brachydactyly	GDF5	$990	1857	81479 x 1	,$990	1858	81479 x 1	$1,365	1859	81479 x 2
Focal dermal hypoplasia	PORCN	$990	1153	81479 x 1	,$990	1154	81479 x 1	$1,365	1552	81479 x 2
Frontometaphyseal dysplasia	FLNA	$990	1155	81479 x 1	,$990	5277	81479 x 1	$1,365	5278	81479 x 2
Frontometaphyseal dysplasia NGS panel	MAP3K7, TAB2, FLNA	$1,100	5212	81479 x 3	,$990	5213	81479 x 3	$1,475	5214	81479 x 6
Frontonasal dysplasia 1	ALX3	$495	1921	81479 x 1	,$990	1922	81479 x 1	$995	1923	81479 x 2

Frontonasal dysplasia 2	ALX4	$495	1924	81479 x 1	,$990	1925	81479 x 1	$995	1926	81479 x 2
Frontonasal dysplasia 3	ALX1	$495	1927	81479 x 1	,$990	1928	81479 x 1	$995	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	$1,475	1920	81479 x 10
Frontonasal dysplasia, SIX2 related	SIX2	$495	2357	81479 x 1	,$990	2358	81479 x 1	$995	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	$990	1156	81479 x 1	,$990	1157	81479 x 1	$1,365	1553	81479 x 2
Genitopatellar syndrome	KAT6B	$990	1799	81479 x 1	,$990	1800	81479 x 1	$1,365	1801	81479 x 2
Glass syndrome	SATB2	$990	2153	81479 x 1	,$990	2154	81479 x 1	$1,365	2155	81479 x 2
Glomuvenous malformations	GLMN	$990	1159	81479 x 1	,$990	1160	81479 x 1	$1,365	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	$1,475	1738	81479 x 4
Gnathodiaphyseal dysplasia	ANO5	$990	2156	81406 x 1	,$990	2157	81479 x 1	$1,365	2158	81406 x 1 81479 x 1
Gracile bone dysplasia	FAM111A	$990	1802	81479 x 1	,$990	1803	81479 x 1	$1,365	1804	81479 x 2
Greig cephalopolysyndactyly syndrome	GLI3	$990	1161	81479 x 1	,$990	1162	81479 x 1	$1,365	1555	81479 x 2
Hajdu-Cheney syndrome	NOTCH2	$990	1400	81479 x 1						
Hajdu-Cheney syndrome Option 1	NOTCH2	,			$990	1401	81479 x 1	$1,365	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	$1,475	1723	81479 x 6 81406 x 2 81405 x 2
Hereditary hemorrhagic telangiectasia type 1	ENG	$990	1404	81406 x 1	,$990	1405	81405 x 1	$1,365	1557	81406 x 1 81405 x 1
Hereditary hemorrhagic telangiectasia type 2	ACVRL1	$700	1406	81479 x 1	,$990	1407	81479 x 1	$1,195	1558	81479 x 2
Hereditary hemorrhagic telangiectasia type 5	GDF2	$475	1718	81479 x 1	,$990	1719	81479 x 1	$995	1720	81479 x 2
Hereditary motor and sensory neuropathy, type IIC	TRPV4	$990	1163	81479 x 1	,$990	1764	81479 x 1	$1,365	1765	81479 x 2
Homocystinuria	CBS	$990	1164	81406 x 1	,$990	1165	81479 x 1	$1,365	1563	81406 x 1 81479 x 1
Hyperostosis corticalis generalisata (Van Buchem disease)	SOST	$445	1805	81479 x 1	,$990	1806	81479 x 1	$995	1807	81479 x 2
Hyperostosis corticalis generalisata, benign form of worth, with torus palatinus	LRP5	$990	1166	81406 x 1	,$990	1167	81479 x 1	$1,365	1564	81406 x 1 81479 x 1
Hyperparathyroidism, neonatal severe	CASR	$690	1742	81405 x 1	,$990	1743	81479 x 1	$1,195	1744	81405 x 1 81479 x 1
Hyperphosphatemic familial tumoral calcinosis - FGF23	FGF23	$492	2363	81404 x 1	,$990	2364	81479 x 1	$995	2365	81404 x 1 81479 x 1
Hyperphosphatemic familial tumoral calcinosis - GALNT3	GALNT3	$690	2366	81479 x 1	,$990	2435	81479 x 1	$1,195	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	$1,475	2371	81404 x 1 81479 x 5
Hypocalcemia, autosomal dominant 1	CASR	$690	1745	81405 x 1	,$990	1746	81479 x 1	$1,195	1747	81405 x 1 81479 x 1
Hypocalciuric hypercalcemia, familial, type 1	CASR	$690	1751	81405 x 1	,$990	1752	81479 x 1	$1,195	1753	81405 x 1 81479 x 1
Hypophosphatasia, infantile, childhood & adult types	ALPL	$650	1168	81479 x 1	,$990	1169	81479 x 1	$1,195	1565	81479 x 2
Hypotrichosis NGS panel	APCDD1, CDSN, DSG4, HR, KRT71, KRT74, LIPH, LPAR6, RPL21, SNRPE	$1,120	5306	81479 x 10	,$990	5307	81479 x 10	$1,495	5308	81479 x 20
Ichthyosis NGS panel	ABCA12, ALOX12B, ALOXE3, CASP14, CDSN, CERS3, CHST8, CSTA, CYP4F22, FLG, GJA1, GJB3, GJB4, KDSR, KRT1, KRT10, KRT2, LIPN, LOR, NIPAL4, PNPLA1, POMP, SERPINB8, ST14, STS, SULT2B1, TGM1, TGM5	$1,420	5091	81479 x 28	,$990	5092	81479 x 27	$1,795	5093	81479 x 55
Inclusion body myopathy with early-onset Paget disease with or without frontotemporal dementia 1	VCP	$990	2400	81479 x 1	,$990	2401	81479 x 1	$1,365	2402	81479 x 2
Insulin-like growth factor I deficiency	IGF1	$990	2087	81479 x 1	,$990	2088	81479 x 1	$1,365	2089	81479 x 2
Insulin-like growth factor I deficiency and Insulin-like growth factor I, resistance to NGS panel	IGF1, IGF1R	$1,070	2093	81479 x 2	,$990	2094	81479 x 2	$1,445	2095	81479 x 4
Insulin-like growth factor I, resistance to	IGF1R	$990	2090	81479 x 1	,$990	2091	81479 x 1	$1,365	2092	81479 x 2
Joubert syndrome and related disorders NGS panel	AHI1, ARL13B, B9D1, B9D2, C5orf42, CC2D2A, CEP104, CEP290, CEP41, CSPP1, INPP5E, KIAA0556, KIAA0586, KIF14, KIF7, MKS1, NPHP1, NPHP3, OFD1, PDE6D, RPGRIP1L, TCTN1, TCTN2, TCTN3, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, ZNF423, TTC21B	$1,520	5136	81406 x 1 81407 x 2 81479 x 27 81408 x 1	,$990	5137	81405 x 1 81479 x 30	$1,895	5138	81406 x 1 81407 x 2 81408 x 1 81479 x 57 81405 x 1
Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome	SMAD4	$690	1410	81406 x 1	,$990	1411	81405 x 1	$1,195	1566	81406 x 1 81405 x 1
KBG syndrome	ANKRD11	$990	1966	81405 x 1	,$990	1967	81479 x 1	$1,365	1968	81479 x 1 81405 x 1

Kenny-Caffey syndrome NGS panel	FAM111A, TBCE	$1,070	1906	81479 x 2	,$990	1907	81479 x 2	$1,445	1908	81479 x 4
Kenny-Caffey syndrome, type 1	TBCE	$990	1903	81479 x 1	,$990	1904	81479 x 1	$1,365	1905	81479 x 2
Kenny-Caffey syndrome, type 2	FAM111A	$990	1808	81479 x 1	,$990	1809	81479 x 1	$1,365	1810	81479 x 2
Klippel-Feil Syndrome 1	GDF6	$490	1954	81479 x 1	,$990	1955	81479 x 1	$995	1956	81479 x 2
Klippel-Feil syndrome 2	MEOX1	$530	1957	81479 x 1	,$990	1958	81479 x 1	$1,095	1959	81479 x 2
Klippel-Feil syndrome 3	GDF3	$490	1960	81479 x 1	,$990	1961	81479 x 1	$995	1962	81479 x 2
Klippel-Feil syndrome NGS panel	GDF3, GDF6, MEOX1, MYO18B, RIPPLY2	$1,200	1963	81479 x 5	,$990	1964	81479 x 5	$1,575	1965	81479 x 10
Klippel-Feil syndrome, RIPPLY2 related	RIPPLY2	$590	2324	81479 x 1	,$990	2348	81479 x 1	$1,095	2349	81479 x 2
Kniest dysplasia	COL2A1	$990	1170	81479 x 1	,$990	1171	81479 x 1	$1,365	1567	81479 x 2
Knobloch syndrome 1	COL18A1	$990	1942	81479 x 1	,$990	1943	81479 x 1	$1,365	1944	81479 x 2
Langer mesomelic dysplasia	SHOX	$500	2327	81405 x 1	,$990	2328	81479 x 1	$1,075	2329	81405 x 1 81479 x 1
Larsen syndrome, autosomal dominant	FLNB	$990	1172	81479 x 1	,$990	2394	81479 x 1	$1,365	2395	81479 x 2
Larsen syndrome, autosomal dominant Option 1	FLNB	$495	1173	81479 x 1						
Larsen syndrome, autosomal recessive	CHST3	$990	1175	81479 x 1	,$990	1176	81479 x 1	$1,365	1568	81479 x 2
Lateral meningocele syndrome	NOTCH3	$990	2096	81479 x 1	,$990	2097	81479 x 1	$1,365	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	$1,520	5268	81404 x 1 81406 x 2 81407 x 1 81479 x 28	,$990	5269	81479 x 32	$1,895	5270	81404 x 1 81406 x 2 81407 x 1 81479 x 60
Leri-Weill dyschondrosteosis	SHOX	$500	2330	81405 x 1	,$990	2331	81479 x 1	$1,075	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	$1,395	5300	81406 x 1 81479 x 21	,$990	5301	81479 x 22	$1,770	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	$1,520	5215	81404 x 2 81405 x 9 81406 x 8 81408 x 1 81479 x 15	,$990	5216	81404 x 2 81479 x 33	$1,895	5217	81404 x 4 81405 x 9 81406 x 8 81408 x 1 81479 x 48
Loeys-Dietz syndrome 1	TGFBR1	$600	1177	81405 x 1	,$990	1178	81479 x 1	$1,095	1569	81405 x 1 81479 x 1
Loeys-Dietz syndrome 2	TGFBR2	$600	1179	81405 x 1	,$990	1180	81479 x 1	$1,095	1570	81405 x 1 81479 x 1
Loeys-Dietz syndrome 3	SMAD3	$690	1182	81479 x 1	,$990	1183	81479 x 1	$1,195	1573	81479 x 2
Loeys-Dietz syndrome 4	TGFB2	$656	1184	81479 x 1	,$990	1185	81479 x 1	$1,195	1574	81479 x 2
Loeys-Dietz Syndrome 5	TGFB3	$599	2133	81479 x 1	,$990	2134	81479 x 1	$1,095	2135	81479 x 2
Loeys-Dietz syndrome core NGS panel	TGFBR1, TGFBR2	$990	1181	81405 x 2	,$990	1571	81479 x 2	$1,365	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	$1,375	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	$1,220	5324	81403 x 1 81404 x 1 81406 x 2 81407 x 1 81408 x 1 81479 x 13	,$990	5325	81479 x 19	$1,595	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	,$990	2404	81479 x 1	$1,230	2405	81479 x 2

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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	$990	2159	81479 x 1	,$990	2160	81479 x 1	$1,365	2161	81479 x 2
Marfan syndrome and Loeys-Dietz syndrome core NGS panel	FBN1, TGFBR1, TGFBR2	$1,120	5260	81405 x 2 81408 x 1	,$990	5261	81479 x 3	$1,495	5262	81405 x 2 81408 x 1 81479 x 3
Marfan syndrome and Loeys-Dietz syndrome NGS panel	TGFB3, FBN1, SMAD3, TGFB2, TGFBR1, TGFBR2	$1,220	1192	81408 x 1 81405 x 2 81479 x 3	,$990	1581	81479 x 6	$1,595	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, MAT2A, MED12, MFAP5, NOTCH1, SMAD2, TGFB3, FBN1, FBN2, FLNA, CBS, COL5A2, COL5A1, COL3A1, MYH11, MYLK, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFBR1, TGFBR2	$1,490	5076	81410 x 1	,$990	5077	81411 x 1	$1,865	5078	81410 x 1 81411 x 1
Marfan syndrome, type I	FBN1	$990	1187	81408 x 1	,$990	1188	81479 x 1	$1,365	1577	81408 x 1 81479 x 1
Marfan syndrome, type I / II NGS panel	FBN1, TGFBR2	$1,100	1191	81408 x 1 81405 x 1	,$990	1579	81479 x 2	$1,475	1580	81408 x 1 81405 x 1 81479 x 2
Marfan syndrome, type II	TGFBR2	$600	1189	81405 x 1	,$990	1190	81479 x 1	$1,095	1578	81405 x 1 81479 x 1
Marshall syndrome	COL11A1	$990	1193	81479 x 1	,$990	1194	81479 x 1	$1,365	1583	81479 x 2
Marshall-Smith syndrome	NFIX	$990	1969	81479 x 1	,$990	1970	81479 x 1	$1,365	1971	81479 x 2
Meier-Gorlin syndrome 1	ORC1	$990	1860	81479 x 1	,$990	1861	81479 x 1	$1,365	1862	81479 x 2
Meier-Gorlin syndrome 2	ORC4	$990	1863	81479 x 1	,$990	1864	81479 x 1	$1,365	1865	81479 x 2
Meier-Gorlin syndrome 3	ORC6	$990	1866	81479 x 1	,$990	1867	81479 x 1	$1,365	1868	81479 x 2
Meier-Gorlin syndrome 4	CDT1	$990	1869	81479 x 1	,$990	1870	81479 x 1	$1,365	1871	81479 x 2
Meier-Gorlin syndrome 5	CDC6	$990	1872	81479 x 1	,$990	1873	81479 x 1	$1,365	1874	81479 x 2
Meier-Gorlin syndrome NGS panel	CDC45, GMNN, MCM5, CDC6, CDT1, ORC1, ORC4, ORC6	$1,220	1875	81479 x 8	,$990	1876	81479 x 8	$1,595	1877	81479 x 16
Melnick-Needles syndrome	FLNA	$990	1195	81479 x 1	,$990	5279	81479 x 1	$1,365	5280	81479 x 2
Menkes disease	ATP7A	$990	1196	81479 x 1	,$990	1197	81479 x 1	$1,365	1584	81479 x 2
Metaphyseal anadysplasia 1	MMP13	$990	1198	81479 x 1	,$990	1199	81479 x 1	$1,365	1585	81479 x 2
Metaphyseal anadysplasia 2	MMP9	$990	1200	81479 x 1	,$990	1201	81479 x 1	$1,365	1586	81479 x 2
Metaphyseal anadysplasia NGS panel	MMP13, MMP9	$1,100	1202	81479 x 2	,$990	1587	81479 x 2	$1,475	1588	81479 x 4
Metaphyseal chondrodysplasia, Jansen type	PTH1R	$990	2045	81479 x 1	,$990	2046	81479 x 1	$1,365	2047	81479 x 2
Metaphyseal chondrodysplasia, Schmid type	COL10A1	$445	1203	81479 x 1	,$990	2072	81479 x 1	$995	2073	81479 x 2
Metaphyseal dysplasia with maxillary hypoplasia with or without brachydactyly	RUNX2	$990	1412	81479 x 1	,$990	1413	81479 x 1	$1,365	1589	81479 x 2
Metaphyseal dysplasia without hypotrichosis	RMRP	$350	1204	81479 x 1	,$990	1897	81479 x 1	$995	1898	81479 x 2
Metaphyseal dysplasia, Spahr type	MMP13	$990	1839	81479 x 1	,$990	1840	81479 x 1	$1,365	1841	81479 x 2
Metatropic dysplasia	TRPV4	$990	1205	81479 x 1	,$990	1766	81479 x 1	$1,365	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	$1,420	5166	81479 x 21	,$990	5167	81479 x 21	$1,795	5168	81479 x 42
Microcephaly-capillary malformation syndrome	STAMBP	$990	2162	81479 x 1	,$990	2163	81479 x 1	$1,365	2164	81479 x 2
Mitral valve prolapse 2	DCHS1	$990	2333	81479 x 1	,$990	2334	81479 x 1	$1,365	2335	81479 x 2
Mowat-Wilson syndrome	ZEB2	$990	2336	81405 x 1	,$990	2337	81404 x 1	$1,365	2338	81405 x 1 81404 x 1
Mucopolysaccharidosis NGS panel	ARSB, GALNS, GLB1, GNPTAB, GNPTG, GNS, GUSB, HGSNAT, HYAL1, IDS, IDUA, MCOLN1, NAGLU, SGSH	$1,220	5241	81405 x 1 81479 x 13	,$990	5242	81479 x 14	$1,595	5243	81405 x 1 81479 x 27
Multiple epiphyseal dysplasia	COMP	$990	1206	81479 x 1	,$990	2074	81479 x 1			
Multiple epiphyseal dysplasia Option 1	COMP							$1,365	2075	81479 x 2
Multiple epiphyseal dysplasia (MED) NGS panel	CANT1, COL9A1, COL9A2, COMP, COL9A3, COL2A1, MATN3, SLC26A2	$1,220	5094	81479 x 8	,$990	5095	81479 x 8	$1,595	5096	81479 x 16
Multiple exostoses NGS panel	EXT2, EXT1	$1,050	1146	81479 x 2	,$990	1542	81479 x 2	$1,425	1543	81479 x 4
Multiple joint dislocations, short stature, craniofacial dysmorphism, and congenital heart defects	B3GAT3	$990	2048	81479 x 1	,$990	2049	81479 x 1	$1,365	2050	81479 x 2
Multiple pterygium syndrome, lethal type & Escobar variant	CHRNG	$990	2271	81479 x 1	,$990	2272	81479 x 1	$1,365	2273	81479 x 2
Multiple pterygium syndrome, lethal type - CHRNA1	CHRNA1	$990	2265	81479 x 1	,$990	2266	81479 x 1	$1,365	2267	81479 x 2

Multiple pterygium syndrome, lethal type - CHRND	CHRND	$990	2268	81479 x 1	,$990	2269	81479 x 1	$1,365	2270	81479 x 2
Multiple pterygium syndrome, lethal type NGS panel	CHRNA1, CHRND, CHRNG	$1,120	2274	81479 x 3	,$990	2275	81479 x 3	$1,495	2276	81479 x 6
Multiple self-healing squamous epithelioma	TGFBR1	$600	1590	81405 x 1	,$990	1591	81479 x 1	$1,095	1592	81405 x 1 81479 x 1
Myhre syndrome	SMAD4	$690	1414	81406 x 1	,$990	1415	81405 x 1	$1,195	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	$1,220	5218	81404 x 1 81405 x 2 81406 x 1 81479 x 7	,$990	5219	81479 x 11	$1,595	5220	81404 x 1 81405 x 2 81406 x 1 81479 x 18
Nail-patella syndrome	LMX1B	$990	1210	81479 x 1	,$990	5230	81479 x 1	$1,365	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	$1,520	5333	81404 x 1 81405 x 1 81406 x 1 81407 x 1 81479 x 27	,$990	5334	81479 x 31	$1,895	5335	81404 x 1 81405 x 1 81406 x 1 81407 x 1 81479 x 58
Nephrotic syndrome and related disorders NGS panel	ACTN4, ANLN, ARHGAP24, ARHGDIA, CD2AP, COQ2, COQ6, COQ8B, CRB2, CUBN, DGKE, EMP2, INF2, ITGA3, ITGB4, LAMB2, MYO1E, NPHS1, NPHS2, NUP107, NUP205, NUP93, PAX2, PDSS2, PLCE1, PTPRO, SCARB2, SMARCAL1, TRPC6, WDR73, WT1, LMX1B	$1,520	5221	81405 x 2 81406 x 3 81407 x 2 81479 x 25	,$990	5222	81479 x 32	$1,895	5223	81405 x 2 81406 x 3 81407 x 2 81479 x 57
Neu-Laxova syndrome 1	PHGDH	$990	2165	81479 x 1	,$990	2166	81479 x 1	$1,365	2167	81479 x 2
Neu-Laxova syndrome 2	PSAT1	$990	2168	81479 x 1	,$990	2169	81479 x 1	$1,365	2170	81479 x 2
Neu-Laxova syndrome NGS panel	PHGDH, PSAT1	$1,090	2171	81479 x 2	,$990	2172	81479 x 2	$1,465	2173	81479 x 4
Neurofibromatosis and related disorders NGS panel	MLH1, MSH2, MSH6, NF1, NF2, SPRED1	$1,220	5191	81405 x 1 81406 x 1 81408 x 1 81479 x 3	,$990	5192	81405 x 1 81479 x 5	$1,595	5193	81405 x 2 81406 x 1 81408 x 1 81479 x 8
Neurofibromatosis type I	NF1	$990	2427	81408 x 1	,$990	2428	81479 x 1	$1,365	2429	81479 x 1 81408 x 1
Neutropenia, severe congenital, X-linked	WAS	$650	2406	81406 x 1	,$990	2407	81479 x 1	$1,195	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	,$990	2410	81479 x 1	$995	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	$1,520	5079	81442 x 1	,$990	5080	81479 x 25	$1,895	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	$1,220	5349	81442 x 1	,$990	5350	81479 x 14	$1,595	5351	81442 x 1 81479 x 14
Norrie disease	NDP	$570	1417	81404 x 1	,$990	1418	81479 x 1	$1,095	1593	81404 x 1 81479 x 1
Occipital horn syndrome	ATP7A	$990	1211	81479 x 1	,$990	1212	81479 x 1	$1,365	1594	81479 x 2
Oculodentodigital dysplasia	GJA1	$490	2412	81479 x 1	,$990	2413	81479 x 1	$995	2414	81479 x 1
Odontoonychodermal dysplasia	WNT10A	$530	1994	81479 x 1	,$990	1995	81479 x 1	$1,095	1996	81479 x 2
Ohdo syndrome, SBBYS variant	KAT6B	$990	1811	81479 x 1	,$990	1812	81479 x 1	$1,365	1813	81479 x 2
Oligodontia - Selective tooth agenesis NGS panel	AXIN2, EDA, LRP6, LTBP3, PAX9, PTH1R, WNT10A, WNT10B, MSX1	$1,200	5169	81479 x 9	,$990	5170	81479 x 9	$1,575	5171	81479 x 18
Omodysplasia NGS panel	FZD2, GPC6	$1,090	1213	81479 x 2	,$990	1214	81479 x 2	$1,465	1595	81479 x 4
Opitz GBBB syndrome NGS panel	MID1, SPECC1L	$1,100	5355	81479 x 2	,$990	5356	81479 x 2	$1,475	5357	81479 x 4
Opsismodysplasia	INPPL1	$990	1596	81479 x 1	,$990	1597	81479 x 1	$1,365	1598	81479 x 2
Orofaciodigital syndrome I	OFD1	$990	2280	81479 x 1	,$990	2281	81479 x 1	$1,365	2282	81479 x 2
Osteoarthritis with mild chondrodysplasia	COL2A1	$990	1215	81479 x 1	,$990	1837	81479 x 1	$1,365	1838	81479 x 2
Osteogenesis imperfecta COL1A1 & COL1A2 panel	COL1A2, COL1A1	$1,100	1216	81408 x 2	,$990	1599	81479 x 2	$1,475	1600	81408 x 2 81479 x 2
Osteogenesis imperfecta core NGS panel	IFITM5, COL1A2, COL1A1	$1,190	5232	81408 x 2 81479 x 1	,$990	5233	81479 x 3	$1,565	5234	81408 x 2 81479 x 4
Osteogenesis imperfecta NGS panel - Dominant	ANO5, P4HB, IFITM5, ALPL, COL1A2, COL1A1, PLS3	$1,290	5097	81479 x 4 81408 x 2 81406 x 1	,$990	5098	81479 x 7	$1,665	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	$1,490	5100	81408 x 2 81479 x 21 81406 x 2	,$990	5101	81479 x 25	$1,865	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	$1,290	5103	81479 x 20	,$990	5104	81479 x 20	$1,665	5105	81479 x 40
Osteogenesis imperfecta, PLS3 related	PLS3	$990	1899	81479 x 1	,$990	1900	81479 x 1	$1,365	1901	81479 x 2
Osteogenesis imperfecta, type IX	PPIB	$615	1227	81479 x 1	,$990	1228	81479 x 1	$1,195	1609	81479 x 2
Osteogenesis imperfecta, type V	IFITM5	$445	1219	81479 x 1	,$990	1220	81479 x 1	$995	1605	81479 x 2
Osteogenesis imperfecta, type VI	SERPINF1	$725	1221	81479 x 1	,$990	1222	81479 x 1	$1,295	1606	81479 x 2
Osteogenesis imperfecta, type VII	CRTAP	$725	1223	81479 x 1	,$990	1224	81479 x 1	$1,295	1607	81479 x 2
Osteogenesis imperfecta, type VIII	P3H1	$990	1225	81479 x 1	,$990	1226	81479 x 1	$1,365	1608	81479 x 2
Osteogenesis imperfecta, type X	SERPINH1	$495	1229	81479 x 1	,$990	1230	81479 x 1	$995	1610	81479 x 2
Osteogenesis imperfecta, type XI	FKBP10	$790	1231	81479 x 1	,$990	1232	81479 x 1	$1,295	1611	81479 x 2
Osteogenesis imperfecta, type XII	SP7	$445	1233	81479 x 1	,$990	1234	81479 x 1	$995	1612	81479 x 2
Osteogenesis imperfecta, type XIII	BMP1	$990	1235	81479 x 1	,$990	1236	81479 x 1	$1,365	1613	81479 x 2
Osteogenesis imperfecta, type XVI	CREB3L1	$990	1878	81479 x 1	,$990	1879	81479 x 1	$1,365	1880	81479 x 2
Osteogenesis imperfecta, type XVII	SPARC	$750	2174	81479 x 1	,$990	2175	81479 x 1	$1,295	2176	81479 x 2
Osteogenesis imperfecta, types I, II, III & IV	COL1A1	$900	1601	81408 x 1	,$990	1217	81479 x 1	$1,275	1602	81408 x 1 81479 x 1
Osteogenesis imperfecta, types I, II, III & IV	COL1A2	$900	1603	81408 x 1	,$990	1218	81479 x 1	$1,275	1604	81408 x 1 81479 x 1
Osteopathia striata with cranial sclerosis	AMER1	$990	1814	81479 x 1	,$990	1815	81479 x 1	$1,365	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	$1,620	5109	81479 x 26 81406 x 1 81408 x 1	,$990	5110	81479 x 28	$1,995	5111	81479 x 54 81406 x 1 81408 x 1
Osteopetrosis core NGS panel	CLCN7, OSTM1, TCIRG1	$1,020	1253	81479 x 3	,$990	1621	81479 x 3	$1,395	1622	81479 x 6
Osteopetrosis NGS panel	FAM20C, FERMT3, SNX10, CA2, AMER1, CTSK, CLCN7, LEMD3, LRP5, OSTM1, PLEKHM1, TCIRG1, TNFRSF11A, TNFSF11	$1,420	5106	81479 x 13 81406 x 1	,$990	5107	81479 x 14	$1,795	5108	81479 x 27 81406 x 1
Osteopetrosis with renal tubular acidosis 3	CA2	$990	1254	81479 x 1	,$990	1255	81479 x 1	$1,365	1623	81479 x 2
Osteopetrosis, autosomal dominant 1	LRP5	$990	1238	81406 x 1	,$990	1239	81479 x 1	$1,365	1614	81406 x 1 81479 x 1
Osteopetrosis, autosomal dominant 2 & autosomal recessive 4	CLCN7	$990	1240	81479 x 1	,$990	1241	81479 x 1	$1,365	1615	81479 x 2
Osteopetrosis, autosomal recessive 1	TCIRG1	$990	1242	81479 x 1	,$990	1243	81479 x 1	$1,365	1616	81479 x 2
Osteopetrosis, autosomal recessive 2	TNFSF11	$990	1244	81479 x 1	,$990	1245	81479 x 1	$1,365	1617	81479 x 2
Osteopetrosis, autosomal recessive 5	OSTM1	$990	1248	81479 x 1	,$990	1249	81479 x 1	$1,365	1619	81479 x 2
Osteopetrosis, autosomal recessive 6	PLEKHM1	$990	1250	81479 x 1	,$990	2447	81479 x 1	$1,365	2448	81479 x 2
Osteopetrosis, autosomal recessive 7	TNFRSF11A	$990	1251	81479 x 1	,$990	1252	81479 x 1	$1,365	1620	81479 x 2
Osteoporosis-pseudoglioma syndrome	LRP5	$990	1256	81406 x 1	,$990	1257	81479 x 1	$1,365	1624	81406 x 1 81479 x 1
Otopalatodigital syndrome, type I / II	FLNA	$990	1258	81479 x 1	,$990	5281	81479 x 1	$1,365	5282	81479 x 2
Otospondylomegaepiphyseal dysplasia	COL11A2	$990	1259	81479 x 1	,$990	1260	81479 x 1	$1,365	1625	81479 x 2
Overgrowth syndrome NGS panel	EED, EZH2, GPC3, NFIX, NSD1, OFD1, PIGA	$1,220	1984	81406 x 1 81479 x 6	,$990	1985	81405 x 1 81479 x 6	$1,595	1986	81406 x 1 81479 x 12 81405 x 1
Paget disease of bone 2	TNFRSF11A	$990	2372	81479 x 1	,$990	2373	81479 x 1	$1,365	2374	81479 x 2
Paget disease of bone 3	SQSTM1	$990	2375	81479 x 1	,$990	2376	81479 x 1	$1,365	2377	81479 x 2
Paget disease of bone 5	TNFRSF11B	$990	2378	81479 x 1	,$990	2379	81479 x 1	$1,365	2380	81479 x 2
Paget disease of bone 6	ZNF687	$990	2381	81479 x 1	,$990	2382	81479 x 1	$1,365	2383	81479 x 2
Paget disease of bone and related disorders NGS panel	HNRNPA1, HNRNPA2B1, SQSTM1, TNFRSF11B, VCP, ZNF687, TNFRSF11A	$1,170	2384	81479 x 7	,$990	2385	81479 x 7	$1,545	2386	81479 x 14
Pallister-Hall syndrome	GLI3	$990	1261	81479 x 1	,$990	1262	81479 x 1	$1,365	1626	81479 x 2
Parastremmatic dwarfism	TRPV4	$990	1263	81479 x 1	,$990	1768	81479 x 1	$1,365	1769	81479 x 2
Parkes Weber syndrome	RASA1	$990	1264	81479 x 1	,$990	1265	81479 x 1	$1,365	1627	81479 x 2
Periventricular nodular heterotopia 1	FLNA	$990	1267	81479 x 1	,$990	5283	81479 x 1	$1,365	5284	81479 x 2
Phosphoglycerate dehydrogenase deficiency	PHGDH	$990	2177	81479 x 1	,$990	2178	81479 x 1	$1,365	2179	81479 x 2
Phosphoserine aminotransferase deficiency	PSAT1	$990	2180	81479 x 1	,$990	2181	81479 x 1	$1,365	2182	81479 x 2

Platelet bleeding disorders NGS panel	ACTN1, ANO6, AP3B1, BLOC1S3, BLOC1S6, CD36, DTNBP1, GFI1B, GP1BA, GP1BB, GP6, GP9, HPS1, HPS3, HPS4, HPS5, HPS6, ITGA2B, ITGB3, LYST, MYH9, NBEAL2, P2RY12, PLAU, PRKACG, RASGRP2, SLFN14, TBXA2R, TBXAS1, VWF, WAS, WIPF1	$1,520	5154	81404 x 1 81406 x 1 81408 x 1 81479 x 29	,$990	5155	81479 x 31	$1,895	5156	81404 x 1 81406 x 1 81408 x 1 81479 x 60
Platyspondylic lethal skeletal dysplasia, Torrance type	COL2A1	$990	1268	81479 x 1						
Platyspondylic lethal skeletal dysplasia, Torrance type Option 1	COL2A1	$410	1270	81479 x 1	,$990	1269	81479 x 1	$1,365	1628	81479 x 2
Pneumothorax, primary spontaneous	FLCN	$990	2283	81479 x 1	,$990	2284	81479 x 1	$1,365	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, TMEM231, TSC1, TSC2, UMOD, ZNF423, LRP5, NOTCH2	$1,395	5336	81405 x 1 81406 x 4 81407 x 2 81408 x 1 81479 x 13	,$990	5337	81404 x 1 81405 x 1 81406 x 1 81479 x 18	$1,770	5338	81404 x 1 81405 x 2 81406 x 5 81407 x 2 81408 x 1 81479 x 31
Polycystic liver disease NGS panel	GANAB, PKD1, PKD2, PKHD1, PRKCSH, SEC63, LRP5	$1,220	5339	81406 x 2 81407 x 1 81408 x 1 81479 x 3	,$990	5340	81479 x 7	$1,595	5341	81406 x 2 81407 x 1 81408 x 1 81479 x 10
Polydactyly, preaxial IV & postaxial, type A1	GLI3	$990	1272	81479 x 1	,$990	1273	81479 x 1	$1,365	1629	81479 x 2
Popliteal pterygium syndrome	IRF6	$990	2286	81479 x 1	,$990	2287	81479 x 1	$1,365	2288	81479 x 2
Popliteal pterygium syndrome, lethal type	RIPK4	$990	2289	81479 x 1	,$990	2290	81479 x 1	$1,365	2291	81479 x 2
Porencephaly 1	COL4A1	$990	2183	81408 x 1	,$990	2184	81479 x 1	$1,365	2185	81408 x 1 81479 x 1
Porencephaly 2	COL4A2	$990	2186	81479 x 1	,$990	2187	81479 x 1	$1,365	2188	81479 x 2
Porencephaly NGS panel	COL4A1, COL4A2	$1,200	2189	81408 x 1 81479 x 1	,$990	2190	81479 x 2	$1,850	2191	81408 x 1 81479 x 3
Postaxial acrofacial dysostosis	DHODH	$990	2192	81479 x 1	,$990	2193	81479 x 1	$1,365	2194	81479 x 2
Progressive familial heart block type I NGS panel	SCN5A, TRPM4	$990	5327	81407 x 1 81479 x 1	,$990	5328	81479 x 2	$1,365	5329	81407 x 1 81479 x 3
Progressive pseudorheumatoid arthropathy of childhood	WISP3	$595	1276	81479 x 1	,$990	1277	81479 x 1	$1,095	1631	81479 x 2
Proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome	FLVCR2	$990	1278	81479 x 1	,$990	1279	81479 x 1	$1,365	1632	81479 x 2
Pseudoachondroplasia	COMP	$990	1280	81479 x 1						
Pseudoachondroplasia Option 1	COMP	,			$990	2076	81479 x 1	$1,365	2077	81479 x 2
Pseudoxanthoma elasticum	ABCC6	$990	1439	81479 x 1	,$990	1440	81479 x 1	$1,365	1633	81479 x 2
Pseudoxanthoma elasticum NGS panel	ABCC6, GGCX	$1,120	2104	81479 x 2	,$990	2105	81479 x 2	$1,495	2106	81479 x 4
Pseudoxanthoma elasticum-like disorder with multiple coagulation factor deficiency	GGCX	$990	2101	81479 x 1	,$990	2102	81479 x 1	$1,365	2103	81479 x 2
Pulmonary hypertension NGS panel	ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, FOXF1, KCNK3, SMAD9, ENG	$1,220	2116	81479 x 7 81406 x 2	,$990	2117	81479 x 7 81405 x 2	$1,595	2118	81479 x 14 81406 x 2 81405 x 2
Pulmonary hypertension, primary, 1	BMPR2	$990	1945	81406 x 1	,$990	1946	81405 x 1	$1,365	1947	81406 x 1 81405 x 1
Pulmonary hypertension, primary, 2	SMAD9	$610	2107	81479 x 1	,$990	2108	81479 x 1	$1,195	2109	81479 x 2
Pulmonary hypertension, primary, 3	CAV1	$490	2110	81479 x 1	,$990	2111	81479 x 1	$995	2112	81479 x 2
Pulmonary hypertension, primary, 4	KCNK3	$510	2113	81479 x 1	,$990	2114	81479 x 1	$1,095	2115	81479 x 2
Pulmonary venoocclusive disease 1, autosomal dominant	BMPR2	$990	1948	81406 x 1	,$990	1949	81405 x 1	$1,365	1950	81406 x 1 81405 x 1
Pulmonary venoocclusive disease 2, autosomal recessive	EIF2AK4	$990	2051	81479 x 1	,$990	2052	81479 x 1	$1,365	2053	81479 x 2
Pycnodysostosis	CTSK	$690	1881	81479 x 1	,$990	1882	81479 x 1	$1,195	1883	81479 x 2
Rhizomelic chondrodysplasia punctata type 1	PEX7	$730	1997	81479 x 1	,$990	1998	81479 x 1	$1,295	1999	81479 x 2
Rhizomelic chondrodysplasia punctata, type 2	GNPAT	$990	2057	81479 x 1	,$990	2058	81479 x 1	$1,365	2059	81479 x 2
Rhizomelic chondrodysplasia punctata, type 3	AGPS	$990	2060	81479 x 1	,$990	2061	81479 x 1	$1,365	2062	81479 x 2
Rickets, hypophosphatemic, autosomal dominant	FGF23	$492	1283	81404 x 1	,$990	2355	81479 x 1	$995	2356	81404 x 1 81479 x 1
Rickets, hypophosphatemic, autosomal recessive, 1	DMP1	$990	1284	81479 x 1	,$990	1285	81479 x 1	$1,365	1634	81479 x 2
Rickets, hypophosphatemic, autosomal recessive, 2	ENPP1	$990	1286	81479 x 1	,$990	1287	81479 x 1	$1,365	1635	81479 x 2
Rickets, hypophosphatemic, X-linked dominant	PHEX	$990	1288	81406 x 1	,$990	1289	81479 x 1	$1,365	1636	81406 x 1 81479 x 1
Rickets, vitamin D-dependent type I	CYP27B1	$990	1290	81479 x 1	,$990	1291	81479 x 1	$1,365	1637	81479 x 2
Roberts syndrome & SC phocomelia syndrome	ESCO2	$990	1884	81479 x 1	,$990	1885	81479 x 1	$1,365	1886	81479 x 2
Robinow syndrome NGS panel	DVL1, DVL3, FZD2, NXN, ROR2, WNT5A	$1,220	2127	81479 x 6	,$990	2128	81479 x 6	$1,595	2129	81479 x 12
Robinow syndrome, autosomal dominant 1	WNT5A	$590	1817	81479 x 1	,$990	1818	81479 x 1	$1,095	1819	81479 x 2
Robinow syndrome, autosomal dominant 2	DVL1	$990	2119	81479 x 1	,$990	2120	81479 x 1	$1,365	2121	81479 x 2
Robinow syndrome, autosomal recessive	ROR2	$710	1823	81479 x 1	,$990	1824	81479 x 1	$1,295	1825	81479 x 2
Rubinstein-Taybi syndrome 1	CREBBP	$990	2292	81407 x 1	,$990	2293	81406 x 1	$1,365	2294	81407 x 1 81406 x 1
Rubinstein-Taybi syndrome 2	EP300	$990	2295	81479 x 1	,$990	2296	81479 x 1	$1,365	2297	81479 x 2

Rubinstein-Taybi syndrome NGS panel	CREBBP, EP300	$1,120	2298	81479 x 1 81407 x 1	,$990	2299	81479 x 1 81406 x 1	$1,495	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	,$990	1102	81403 x 1	$1,095	5345	81479 x 1 81403 x 1 81404 x 1
Scapuloperoneal spinal muscular atrophy	TRPV4	$990	1292	81479 x 1	,$990	1770	81479 x 1	$1,365	1771	81479 x 2
Schneckenbecken dysplasia, INPPL1 related	INPPL1	$990	2301	81479 x 1	,$990	2302	81479 x 1	$1,365	2303	81479 x 2
Schopf-Schulz-Passarge syndrome	WNT10A	$530	2000	81479 x 1	,$990	2001	81479 x 1	$1,095	2002	81479 x 2
Schwartz-Jampel syndrome, type 1	HSPG2	$990	1293	81479 x 1	,$990	1294	81479 x 1	$1,365	1638	81479 x 2
Sclerosteosis	SOST	$445	1826	81479 x 1	,$990	1827	81479 x 1	$995	1828	81479 x 2
Serpentine fibula-polycystic kidney syndrome	NOTCH2	$990	1419	81479 x 1						
Serpentine fibula-polycystic kidney syndrome Option 1	NOTCH2	,			$990	1420	81479 x 1	$1,365	1639	81479 x 2
Short QT syndrome NGS panel	CACNA1C, CACNA2D1, CACNB2, KCNH2, KCNJ2, KCNQ1	$1,120	5330	81403 x 1 81406 x 3 81479 x 2	,$990	5331	81479 x 6	$1,495	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	$1,120	5358	81404 x 2 81405 x 3 81406 x 1 81479 x 8	,$990	5359	81479 x 14	$1,495	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	$990	2457	81479 x 1	,$990	2458	81479 x 1	$1,365	2459	81479 x 2
Short stature, idiopathic, X-linked	SHOX	$500	2339	81405 x 1	,$990	2340	81479 x 1	$1,075	2341	81405 x 1 81479 x 1
Short-rib thoracic dysplasia 2 with or without polydactyly	IFT80	$990	1040	81479 x 1	,$990	1041	81479 x 1	$1,365	1481	81479 x 2
Short-rib thoracic dysplasia 3 with or without polydactyly	DYNC2H1	$990	1298	81479 x 1	,$990	1299	81479 x 1	$1,365	1641	81479 x 2
Short-rib thoracic dysplasia 4 with or without polydactyly	TTC21B	$990	1044	81479 x 1	,$990	1045	81479 x 1	$1,365	1483	81479 x 2
Short-rib thoracic dysplasia 5 with or without polydactyly	WDR19	$990	1046	81479 x 1	,$990	1047	81479 x 1	$1,365	1484	81479 x 2
Short-rib thoracic dysplasia 6 with or without polydactyly	NEK1	$990	1296	81479 x 1	,$990	1297	81479 x 1	$1,365	1640	81479 x 2
Short-rib thoracic dysplasia 7 with or without polydactyly	WDR35	$990	1300	81479 x 1	,$990	1301	81479 x 1	$1,365	1642	81479 x 2
Short-rib thoracic dysplasia 8 with or without polydactyly	WDR60	$990	1715	81479 x 1	,$990	1716	81479 x 1	$1,365	1717	81479 x 1 81479 x 1
Shprintzen-Goldberg craniosynostosis syndrome	SKI	$990	1302	81479 x 1	,$990	1303	81479 x 1	$1,365	1643	81479 x 2
Simpson-Golabi-Behmel syndrome	GPC3	$990	1972	81479 x 1	,$990	1973	81479 x 1	$1,365	1974	81479 x 2
Simpson-Golabi-Behmel syndrome, PIGA related	PIGA	$630	2387	81479 x 1	,$990	2388	81479 x 1	$1,195	2389	81479 x 2
Simpson-Golabi-Behmel syndrome, type 2	OFD1	$990	2304	81479 x 1	,$990	2305	81479 x 1	$1,365	2306	81479 x 2
Skeletal dysplasia 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	$1,620	5112	81479 x 24	,$990	5113	81479 x 24	$1,995	5114	81479 x 48
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	$1,620	5118	81479 x 27 81408 x 2	,$990	5119	81479 x 29	$1,995	5120	81479 x 56 81408 x 2
Skeletal dysplasia core NGS panel	FGFR3, INPPL1, ALPL, COL2A1, COL1A2, COL1A1, NKX3-2, SLC26A2, SOX9, TRIP11	$1,220	5115	81479 x 8 81408 x 2	,$990	5116	81479 x 10	$1,595	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	$1,320	5121	81479 x 19	,$990	5122	81479 x 19	$1,695	5123	81479 x 38
Smith-Lemli-Opitz syndrome	DHCR7	$990	2439	81405 x 1	,$990	2443	81479 x 1	$1,365	2444	81405 x 1 81479 x 1
Smith-McCort dysplasia	DYM	$990	1304	81479 x 1	,$990	1305	81479 x 1	$1,365	1644	81479 x 2
Smith-McCort dysplasia NGS panel	RAB33B, DYM	$1,100	5257	81479 x 2	,$990	5258	81479 x 2	$1,475	5259	81479 x 4
Snyder-Robinson mental retardation syndrome	SMS	$990	2440	81479 x 1	,$990	2441	81479 x 1	$1,365	2442	81479 x 2
Sotos syndrome 1	NSD1	$990	1975	81406 x 1	,$990	1976	81405 x 1	$1,365	1977	81406 x 1 81405 x 1
Sotos syndrome 2	NFIX	$990	1978	81479 x 1	,$990	1979	81479 x 1	$1,365	1980	81479 x 2
Spinal muscular atrophy, distal, congenital nonprogressive	TRPV4	$990	1306	81479 x 1	,$990	1772	81479 x 1	$1,365	1773	81479 x 2

Spinal muscular atrophy, distal, X-linked 3	ATP7A	$990	1307	81479 x1	,$990	1308	81479 x1	$1,365	1645	81479 x2
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	$1,920	5185	81406 x1 81479 x53	,$990	5186	81479 x54	$2,295	5187	81406 x1 81479 x107
Spondylo-megaepiphyseal-metaphyseal dysplasia	NKX3-2	$490	1890	81479 x1	,$990	1891	81479 x1	$995	1892	81479 x2
Spondylocarpotarsal synostosis syndrome	FLNB	$990	1309	81479 x1	,$990	1310	81479 x1	$1,365	1646	81479 x2
Spondylocostal dysostosis 1, autosomal recessive	DLL3	$650	1423	81479 x1	,$990	1424	81479 x1	$1,195	1647	81479 x2
Spondylocostal dysostosis 2, autosomal recessive	MESP2	$570	1425	81479 x1	,$990	1426	81479 x1	$1,095	1648	81479 x2
Spondylocostal dysostosis 3, autosomal recessive	LFNG	$650	1427	81479 x1	,$990	1428	81479 x1	$1,195	1649	81479 x2
Spondylocostal dysostosis 4, autosomal recessive	HES7	$650	1429	81479 x1	,$990	1430	81479 x1	$1,195	1650	81479 x2
Spondylocostal dysostosis 5, autosomal dominant	TBX6	$650	1778	81479 x1	,$990	1779	81479 x1	$1,195	1780	81479 x2
Spondylocostal dysostosis 6, autosomal recessive	RIPPLY2	$590	2342	81479 x1	,$990	2350	81479 x1	$1,095	2351	81479 x2
Spondylocostal dysostosis NGS panel	RIPPLY2, DLL3, HES7, LFNG, MESP2, TBX6	$1,100	1781	81479 x6	,$990	1782	81479 x6	$1,475	1783	81479 x12
Spondyloenchondrodysplasia with immune dysregulation	ACP5	$560	1829	81479 x1	,$990	1830	81479 x1	$1,095	1831	81479 x2
Spondyloepimetaphyseal dysplasia with joint laxity NGS Panel	B3GALT6, KIF22	$1,100	2069	81479 x2	,$990	2070	81479 x2	$1,475	2071	81479 x4
Spondyloepimetaphyseal dysplasia with joint laxity type 2	KIF22	$990	1432	81479 x1	,			$1,365	1655	81479 x2
Spondyloepimetaphyseal dysplasia with joint laxity type 2 Option 1	KIF22				$990	1433	81479 x1			
Spondyloepimetaphyseal dysplasia with joint laxity, type 1, with or without fractures	B3GALT6	$990	2066	81479 x1	,$990	5263	81479 x1	$1,365	5264	81479 x2
Spondyloepimetaphyseal dysplasia, Missouri type	MMP13	$990	1311	81479 x1	,$990	1312	81479 x1	$1,365	1653	81479 x2
Spondyloepimetaphyseal dysplasia, Strudwick type	COL2A1	$990	1313	81479 x1	,$990	1314	81479 x1	$1,365	1654	81479 x2
Spondyloepiphyseal dysplasia congenita	COL2A1	$990	1315	81479 x1	,$990	1316	81479 x1	$1,365	1656	81479 x2
Spondyloepiphyseal dysplasia tarda, X-linked	TRAPPC2	$490	1318	81479 x1	,$990	1319	81479 x1	$995	1657	81479 x2
Spondyloepiphyseal dysplasia with congenital joint dislocations	CHST3	$990	1320	81479 x1	,$990	1321	81479 x1	$1,365	1658	81479 x2
Spondyloepiphyseal dysplasia, Maroteaux type	TRPV4	$990	1317	81479 x1	,$990	1774	81479 x1	$1,365	1775	81479 x2
Spondylometaphyseal dysplasia with cone-rod dystrophy	PCYT1A	$650	1832	81479 x1	,$990	1833	81479 x1	$1,195	1834	81479 x2
Spondylometaphyseal dysplasia, Kozlowski type	TRPV4	$990	1322	81479 x1	,$990	1776	81479 x1	$1,365	1777	81479 x2
Spondyloocular syndrome	XYLT2	$990	2195	81479 x1	,$990	2196	81479 x1	$1,365	2197	81479 x2
Spondyloperipheral dysplasia	COL2A1	$990	1323	81479 x1						
Spondyloperipheral dysplasia Option 1	COL2A1	$410	1325	81479 x1	,$990	1324	81479 x1	$1,365	1659	81479 x2
Steel syndrome	COL27A1	$990	2430	81479 x1	,$990	2431	81479 x1	$1,365	2432	81479 x2
Stickler syndrome core NGS panel	COL11A1, COL11A2, COL2A1	$1,100	1337	81479 x3	,$990	1665	81479 x3	$1,475	1666	81479 x6
Stickler syndrome NGS panel	LOXL3, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1, VCAN	$1,220	5127	81479 x8	,$990	5128	81479 x8	$1,595	5129	81479 x16
Stickler syndrome NGS panel - Recessive	COL9A1, COL9A2, COL9A3	$1,100	1330	81479 x3	,$990	1660	81479 x3	$1,475	1661	81479 x6
Stickler syndrome, type I	COL2A1	$990	1331	81479 x1	,$990	1332	81479 x1	$1,365	1662	81479 x2
Stickler syndrome, type II	COL11A1	$990	1333	81479 x1	,$990	1334	81479 x1	$1,365	1663	81479 x2
Stickler syndrome, type III	COL11A2	$990	1335	81479 x1	,$990	1336	81479 x1	$1,365	1664	81479 x2
Stiff skin syndrome	FBN1	$990	1442	81408 x1	,$990	2445	81479 x1	$1,365	2446	81408 x1 81479 x1
Stuve-Wiedemann syndrome	LIFR	$990	1338	81479 x1	,$990	1339	81479 x1	$1,365	1667	81479 x2
Supravalvular aortic stenosis	ELN	$990	1668	81479 x1	,$990	1669	81479 x1	$1,365	1670	81479 x2
Terminal osseous dysplasia	FLNA	$990	2207	81479 x1	,$990	5285	81479 x1	$1,365	5286	81479 x2
Thanatophoric dysplasia, type I / II	FGFR3	$990	1340	81479 x1						
Thanatophoric dysplasia, type I / II Option 1	FGFR3	$570	1341	81404 x1	,$990	1758	81479 x1	$1,365	1759	81479 x2
Three M syndrome 1	CUL7	$990	1343	81479 x1	,$990	1344	81479 x1	$1,365	1671	81479 x2
Three M syndrome 2	OBSL1	$990	1345	81479 x1	,$990	1346	81479 x1	$1,365	1672	81479 x2
Three M syndrome 3	CCDC8	$595	1347	81479 x1	,$990	1348	81479 x1	$1,095	1673	81479 x2
Three M syndrome NGS panel	CUL7, CCDC8, OBSL1	$1,190	5172	81479 x3	,$990	5173	81479 x3	$1,565	5174	81479 x6
Thrombocytopenia 1	WAS	$650	2415	81406 x1	,$990	2416	81479 x1	$1,195	2417	81406 x1 81479 x1
Thrombocytopenia and absent radius syndrome	RBM8A	$675	1349	81479 x1	,$990	1350	81479 x1	$1,195	1674	81479 x2
Thrombocytopenia NGS Panel	ADAMTS13, ANKRD26, AP3B1, CYCS, ETV6, FLI1, FYB, GATA1, HOXA11, ITGA2B, ITGB3, LYST, MASTL, MECOM, MPL, MYH9, NBEAL2, PRKACG, RUNX1, SLFN14, SRC, TBXAS1, TUBB1, WAS, WIPF1, RBM8A	$1,520	5224	81406 x1 81479 x25	,$990	5225	81479 x25	$1,895	5226	81406 x1 81479 x50
Tooth agenesis, selective, 1	MSX1	$617	1351	81479 x1	,$990	1352	81479 x1	$1,195	1675	81479 x2

Tooth agenesis, selective, 4	WNT10A	$530	2003	81479 x1	,$990	2004	81479 x1	$1,095	2005	81479 x2
Torg-Winchester syndrome	MMP2	$990	1353	81479 x1	,$990	1354	81479 x1	$1,365	1676	81479 x2
Treacher Collins syndrome 1	TCOF1	$990	1355	81479 x1	,$990	1356	81479 x1	$1,365	1677	81479 x2
Treacher Collins syndrome 2	POLR1D	$530	1357	81479 x1	,$990	1358	81479 x1	$1,095	1678	81479 x2
Treacher Collins syndrome 3	POLR1C	$630	1359	81479 x1	,$990	1360	81479 x1	$1,195	1679	81479 x2
Treacher Collins syndrome and related disorders NGS panel	DHODH, EFTUD2, POLR1A, SF3B4, TXNL4A, POLR1C, POLR1D, TCOF1	$1,220	5175	81479 x8	,$990	5176	81479 x8	$1,595	5177	81479 x16
Treacher Collins syndrome core NGS panel	POLR1C, POLR1D, TCOF1	$1,100	5303	81479 x3	,$990	5304	81479 x3	$1,475	5305	81479 x6
Trichodentoosseus syndrome	DLX3	$495	1915	81479 x1	,$990	1916	81479 x1	$995	1917	81479 x2
Trichorhinophalangeal syndrome, type I / III	TRPS1	$990	1361	81479 x1	,$990	1362	81479 x1	$1,365	1680	81479 x2
Tuberous sclerosis NGS panel	TSC1, TSC2	$990	5342	81406 x1 81407 x1	,$990	5343	81405 x1 81406 x1	$1,365	5344	81405 x1 81406 x2 81407 x1
Van Buchem disease, type 2	LRP5	$990	1369	81406 x1	,$990	1370	81479 x1	$1,365	1683	81406 x1 81479 x1
Van der Woude syndrome 1	IRF6	$990	2307	81479 x1	,$990	2308	81479 x1	$1,365	2309	81479 x2
Van der Woude syndrome 2	GRHL3	$990	2310	81479 x1	,$990	2311	81479 x1	$1,365	2312	81479 x2
Van der Woude syndrome NGS panel	GRHL3, IRF6	$995	2313	81479 x2	,$990	2314	81479 x2	$1,370	2315	81479 x4
Van Maldergem syndrome 1	DCHS1	$990	2345	81479 x1	,$990	2346	81479 x1	$1,365	2347	81479 x2
Vascular malformations NGS panel	ACVRL1, BMPR2, CAV1, EIF2AK4, ELMO2, FOXF1, GATA2, KCNK3, PTEN, SMAD9, ENG, GDF2, GLMN, CCM2, KRIT1, PDCD10, RASA1, SMAD4, TEK	$1,320	5178	81406 x3 81479 x15 81321 x1	,$990	5179	81405 x3 81479 x15 81323 x1	$1,695	5180	81405 x3 81406 x3 81479 x30 81321 x1 81323 x1
Vitreoretinopathy NGS panel	BEST1, CAPN5, COL18A1, KCNJ13, KIF11, NR2E3, RS1, ZNF408, FZD4, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, COL2A1, LRP5, NDP, TSPAN12, VCAN	$1,420	5227	81404 x1 81406 x2 81479 x16	,$990	5228	81479 x19	$1,795	5229	81404 x1 81406 x2 81479 x35
Waardenburg syndrome NGS panel	EDN3, EDNRB, MITF, PAX3, SNAI2, SOX10, TYR	$1,120	5244	81404 x1 81479 x6	,$990	5245	81479 x7	$1,495	5246	81404 x1 81479 x13
Wagner vitreoretinopathy	VCAN	$990	1371	81479 x1	,$990	1372	81479 x1	$1,365	1684	81479 x2
Weaver and Cohen-Gibson syndrome NGS panel	EED, EZH2	$1,100	5265	81479 x2	,$990	5266	81479 x2	$1,475	5267	81479 x4
Weaver syndrome	EZH2	$990	1981	81479 x1	,$990	1982	81479 x1	$1,365	1983	81479 x2
Weill-Marchesani syndrome 1	ADAMTS10	$990	1375	81479 x1	,$990	1376	81479 x1	$1,365	1686	81479 x2
Weill-Marchesani syndrome 2	FBN1	$990	1373	81408 x1	,$990	1374	81479 x1	$1,365	1685	81408 x1 81479 x1
Weill-Marchesani syndrome 3	LTBP2	$990	1724	81479 x1	,$990	1725	81479 x1	$1,365	1726	81479 x2
Weill-Marchesani syndrome NGS panel	ADAMTS10, ADAMTS17, FBN1, LTBP2	$1,120	1730	81408 x1 81479 x3	,$990	1731	81479 x4	$1,495	1732	81408 x1 81479 x7
Weill-Marchesani-like syndrome	ADAMTS17	$990	1727	81479 x1	,$990	1728	81479 x1	$1,365	1729	81479 x2
Weissenbacher-Zweymuller syndrome	COL11A2	$990	1377	81479 x1	,$990	1378	81479 x1	$1,365	1687	81479 x2
Wilson disease	ATP7B	$990	1381	81406 x1	,$990	1382	81479 x1	$1,365	1689	81406 x1 81479 x1
Wiskott-Aldrich syndrome	WAS	$650	2418	81406 x1	,$990	2419	81479 x1	$1,195	2420	81406 x1 81479 x1
Witkop syndrome	MSX1	$617	1383	81479 x1	,$990	1384	81479 x1	$1,195	1690	81479 x2
Wolcott-Rallison syndrome	EIF2AK3	$990	1385	81479 x1	,$990	1386	81479 x1	$1,365	1691	81479 x2
Wolman disease	LIPA	$650	2421	81479 x1	,$990	2422	81479 x1	$1,230	2423	81479 x2
Zimmermann-Laband syndrome 1	KCNH1	$990	2198	81479 x1	,$990	2199	81479 x1	$1,365	2200	81479 x2
Zimmermann-Laband syndrome 2	ATP6V1B2	$990	2201	81479 x1	,$990	2202	81479 x1	$1,365	2203	81479 x2
Zimmermann-Laband syndrome NGS panel	ATP6V1B2, KCNH1	$1,120	2204	81479 x2	,$990	2205	81479 x2	$1,495	2206	81479 x4

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