

# Complete Test List

05062024FULLTESTLIST.60

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**WE GLADLY ACCEPT DELIVERIES MONDAY-SATURDAY, EXCLUDING HOLIDAYS**

**CPT codes provided here are for reference purpose only. They are not an assurance of approval nor reimbursement.**

Test Code	Test Description	CPT Codes
<b>WHOLE GENOME SEQUENCING</b>		
WGS001	MNGenome <sup>®</sup> TRIO Sequencing	81425, 81426 x2
WGS002	MNGenome <sup>®</sup> Additional Comparator (only available when trio is ordered)	81426
WGS003	MNGenome <sup>®</sup> Proband Only Sequencing	81425
WGS008	MNGenome <sup>®</sup> DUO Sequencing	81425, 81426
<b>WHOLE EXOME SEQUENCING</b>		
WES001	MNG Exome TRIO Sequencing + mtDNA	81415, 81416 x2, 81460, 81465
WES002	MNG Exome Additional Comparator (only available when trio is ordered)	81416
WES003	MNG Exome Proband Only Sequencing + mtDNA	81415, 81460, 81465
WES008	MNG Exome DUO Sequencing + mtDNA	81415, 81416, 81460, 81465
WES011	MNG Exome TRIO Sequencing	81415, 81416 x2
WES013	MNG Exome Proband Only Sequencing	81415
WES018	MNG Exome DUO Sequencing	81415, 81416
<b>MNG STAT SERVICES (10-14 DAY TAT)</b>		
WES001X	MNG STAT Exome <sup>™</sup> TRIO Sequencing + mtDNA	81415, 81416 x2, 81460, 81465
WES003X	MNG STAT Exome <sup>™</sup> Proband Only Sequencing + mtDNA	81415, 81460, 81465
WES008X	MNG STAT Exome <sup>™</sup> DUO Sequencing + mtDNA	81415, 81416, 81460, 81465
WES013X	MNG STAT Exome <sup>™</sup> Proband Only Sequencing	81415
WES011X	MNG STAT Exome <sup>™</sup> TRIO Sequencing	81415, 81416 x2
WES018X	MNG STAT Exome <sup>™</sup> DUO Sequencing	81415, 81416
WGS001X	MNGenome STAT <sup>™</sup> TRIO Sequencing	81425, 81426 x2
WGS003X	MNGenome STAT <sup>™</sup> Proband Only Sequencing	81425
WGS008X	MNGenome STAT <sup>™</sup> DUO Sequencing	81425, 81426
<b>RNA SEQUENCING</b>		
RNA003	Gene-Specific RNA Sequencing Targeted Analysis	81479
<b>ENZYMOLGY</b>		
ENZ01	Aromatic L-amino Acid Decarboxylase Enzyme Analysis (Plasma)	82542
ENZ06	Thymidine Phosphorylase Enzyme Analysis (Blood)	82657
<b>METABOLIC ANALYSES</b>		
MET01	Amino Acids (CSF)	82139
MET02	Amino Acids (Plasma)	82139
MET03	Amino Acids (Urine)	82139
MET04	Coenzyme Q10 (Leukocytes)	82542
MET05	Coenzyme Q10 (Muscle)	82542
MET07	Lactate (CSF)	83605
MET08	Lactate (plasma)	83605
MET10	Pyruvate (Blood)	84210
MET11	Pyruvate (CSF)	84210
MET12	Thymidine/Deoxyuridine Analytes (Plasma)	82542
MET19	Creatine and Guanidinoacetate (Urine)	82017
MET20	Alpha Aminoacidipic Semialdehyde (Urine)	82542
MET23	Creatine and Guanidinoacetate (Plasma)	82017
MET24	Glucose (Plasma)	82947
MET29	3-O-Methylidopa (Plasma)	82131
<b>GENE SEQUENCING (SANGER), DELETION/DUPLICATION (MLPA), POINT MUTATIONS - INDIVIDUAL GENES &amp; PANELS</b>		

MOL001	Mitochondrial DNA Depletion Testing (Muscle)	81479
MOL002	Mitochondrial DNA Deletion Analysis	81465
MOL021	Mitochondrial Genome Sequencing	81460
MOL027	ACADM Full Gene Sequencing Analysis	81479
MOL028	ACADS Full Gene Sequencing Analysis	81405
MOL029	ACADVL Full Gene Sequencing Analysis	81406
MOL171	MTHFR Full Gene Sequencing Analysis	81479
MOL187	MECP2 MLPA Duplication/Deletion Analysis	81304
MOL189	Mitochondrial Genome Sequencing + Deletion Analysis	81460, 81465
MOL249	Known Familial Variant (KFV) Analysis (each mutation)	81403, 81479
MOL257	MECP2 Full Gene Sequencing Analysis + MLPA Duplication/Deletion Analysis	81302, 81304
MOL258	SCN9A Full Gene Sequencing and Copy Number Analysis	81479
MOL259	Friedreich Ataxia Genetic Testing (Repeat Expansion)	81284
MOL276	PMP22 MLPA Duplication/Deletion Analysis	81324
MOL299	Myotonic Dystrophy 1 (DMPK) Genetic Testing (Repeat Expansion)	81234
MOL301	Spinal Muscular Atrophy (SMN1/SMN2) MLPA Duplication/Deletion Analysis	81329
MOL303	Myotonic Dystrophy 2 (ZNF9/CNBP) Genetic Testing (Repeat Expansion)	81187
MOL334	Mitochondrial DNA Depletion Testing (Leukocyte)	81479
MOL344	PMP22 Full Gene Sequencing Analysis	81325
MOL350	PKD1/PKD2 MLPA Duplication/Deletion Analysis	81479
MOL364	C9orf72 Repeat Expansion Analysis	81479
MOL366	Huntington Disease: HTT Repeat Expansion Analysis	81271
MOL368	SCA1 (ATXN1) Genetic Testing (Repeat expansion)	81178
MOL369	SCA2 (ATXN2) Genetic Testing (Repeat expansion)	81179
MOL370	SCA3 (ATXN3) Genetic Testing (Repeat expansion)	81180
MOL371	SCA6 (CACNA1A) Genetic Testing (Repeat expansion)	81184
MOL372	SCA7 (ATXN7) Genetic Testing (Repeat expansion)	81181
MOL373	SCA8 (ATXN8) Genetic Testing (Repeat expansion)	81182
MOL374	SCA10 (ATXN10) Genetic Testing (Repeat expansion)	81183
MOL375	SCA12 (PPP2R2B) Genetic Testing (Repeat expansion)	81343
MOL376	SCA17 (TBP) Genetic Testing (Repeat expansion)	81344
MOL377	SCA36 (NOP56) Genetic Testing (Repeat expansion)	81479
MOL378	DRPLA (ATN1) Genetic Testing (Repeat expansion)	81177
MOL379	Spinocerebellar Ataxia Repeat Panel (SCA 8, 10, 12, 17, 36, & DRPLA)	81182, 81183, 81343, 81344, 81479, 81177
MOL380	Comprehensive Spinocerebellar Ataxia Repeat Expansion Panel (SCA 1, 2, 3, 6, 7, 8, 10, 12, 17, 36, & DRPLA)	81187, 81179, 81180, 81184, 81181, 81182, 81183, 81343, 81344, 81479, 81177
MOL391	Comprehensive Ataxia Repeat Expansion Panel (SCA 1, 2, 3, 6, 7, 8, 10, 12, 17, 36, DRPLA & FRDA)	81187, 81179, 81180, 81184, 81181, 81182, 81183, 81343, 81344, 81479, 81177, 81284
MOL392	Huntington-like Disease Type 2: JPH3 Repeat Expansion Analysis	81401
<b>NEUROCHEMISTRY ANALYSES</b>		
NC01	5-Methyltetrahydrofolate (CSF)	82542
NC02	Neopterin (CSF)	82542
NC03	Neopterin/Tetrahydrobiopterin (CSF)	82542
NC04	Neurotransmitter Metabolites (5HIAA, HVA, 3OMD) (CSF)	82542, 83497, 83150
NC05	Pyridoxal 5'-phosphate (CSF)	84207
NC06	Succinyladenosine (CSF)	82542
NC07	Sialic Acid (CSF)	84275
NC08	Alpha-aminoacidipic Semialdehyde (CSF)	84275
NC10	Glucose (CSF)	82947
NC15	Sepiapterin and Dihydrobiopterin (CSF)	82542
<b>NEXT GENERATION SEQUENCING (NGS) PANELS</b>		
NGS301	Comprehensive Cellular Energetics Defects (NGS Panel and Copy Number Analysis + mtDNA)	81440, 81460, 81465
NGS302	Carbohydrate Metabolism Deficiency (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81249, 81407, 81405 (x3), 81406 (x6), 81479
NGS313	Lysosomal Disease (NGS Panel and Copy Number Analysis)	81404 (x2), 81405 (x7), 81406 (x9), 81479
NGS319	Fever Syndromes (NGS Panel and Copy Number Analysis)	81223, 81222, 81404 (x7), 81405 (x3), 81406 (x4), 81479
NGS323	Amyotrophic Lateral Sclerosis (NGS Panel and Copy Number Analysis)	81325, 81324, 81403 (x1), 81404 (x1), 81405 (x2), 81406 (x5), 81407 (x1), 81479(x1)
NGS324	Ataxia/Episodic Ataxia Disorders (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81175, 81185, 81189, 81286, 81302, 81304, 81325, 81324, 81403, 81404 (x18), 81405 (x34), 81406 (x32), 81407 (x8), 81408 (x3), 81479 (x1)

NGS325	Comprehensive Intellectual Disability/Autism (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81175, 81216, 81167, 81185, 81189, 81236, 81302, 81304, 81307, 81321, 81323, 81403 (x6), 81404 (x31), 81405 (x62), 81406 (x74), 81407 (x18), 81408 (x7), 81479
NGS330	Comprehensive Muscular Dystrophy/Myopathy (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81479, 81161, 81405 x6, 81406 x2, 81408 x3
NGS331	Congenital Myasthenic Syndromes (NGS Panel and Copy Number Analysis)	81406, 81407, 81479
NGS332	Hypokalemic and Hyperkalemic Periodic Paralysis Disorders (NGS Panel and Copy Number Analysis)	81403, 81406 (x2), 81407, 81479
NGS333	Malignant Hyperthermia (NGS Panel and Copy Number Analysis)	81479, 81408
NGS335	Neurofibromatosis (NGS Panel and Copy Number Analysis)	81321, 81323, 81404 (x3), 81405 (x6), 81406 (x6), 81408 (x2), 81479
NGS337	Spastic Paraplegia (NGS Panel and Copy Number Analysis + mtDNA)	81448, 81460, 81465
NGS345	Charcot-Marie-Tooth Disease (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81448
NGS346	Hereditary Sensory & Autonomic Neuropathy (NGS Panel and Copy Number Analysis)	81173, 81185, 81404 (x5), 81405 (x8), 81406 (x9), 81407 (x4), 81479
NGS349	Nonsyndromic Intellectual Disability (NGS Panel and Copy Number Analysis)	81185, 81189, 81216, 81167, 81307, 81403, 81404 (x7), 81405 (x19), 81406 (x24), 81407, 81408, 81479
NGS350	Syndromic Intellectual Disability (NGS Panel and Copy Number Analysis)	81175, 81236, 81302, 81304, 81321, 81323, 81403 (x5), 81404 (x26), 81405 (x48), 81406 (x55), 81407 (x18), 81408 (x7), 81479
NGS352	Comprehensive Ophthalmoplegia Syndromes (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81404 (x3), 81405 (x6), 81406 (x5), 81407, 81408, 81479
NGS356	Alzheimer Disease/Frontotemporal Dementia (NGS Panel and Copy Number Analysis)	81404, 81405 (x2), 81406 (x6), 81479
NGS357	Parkinson's Disease/Parkinsonism (NGS Panel and Copy Number Analysis)	81302, 81304, 81321, 81323, 81404 (x3), 81405 (x6), 81406 (x9), 81407, 81408, 81479
NGS358	Comprehensive Dystonia (NGS Panel and Copy Number Analysis + mtDNA)	81185, 81302, 81304, 81321, 81323, 81403, 81404 (x11), 81405 (x20), 81406 (x24), 81408 (x2), 81460, 81465, 81479
NGS360	Basal Ganglia Calcification Dystonia (NGS Panel and Copy Number Analysis)	81405 (x3), 81406, 81479
NGS372	Comprehensive Leukodystrophy/Leukoencephalopathy (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81175, 81321, 81323, 81404 (x9), 81405 (x14), 81406 (x10), 81408, 81479
NGS376	Comprehensive Dementia (NGS Panel and Copy Number Analysis)	81321, 81323, 81351, 81403 (x2), 81404 (x6), 81405 (x7), 81406 (x13), 81479 (x1)
NGS377	Ehlers Danlos, Ehlers Danlos-like Syndromes, and Aneurysm Syndromes (NGS Panel and Copy Number Analysis)	81410, 81411
NGS379	Polycystic Kidney Disease (NGS Panel and Copy Number Analysis)	81404, 81405, 81406, 81407, 81479
NGS380	Amyloid Related Disorders (NGS Panel and Copy Number Analysis)	81404 (x2), 81406 (x2), 81479
NGS387	Comprehensive Neuronal Migration Disorders (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81292, 81294, 81295, 81297, 81298, 81300, 81317, 81319, 81175, 81307, 81403, 81404 (x4), 81405 (x9), 81406 (x8), 81407 (x4), 81479
NGS392	Barter/Gitelman Syndromes (NGS Panel and Copy Number Analysis)	81404 (x2), 81405 (x2), 81406, 81407 (x2), 81479
NGS396	Porphyria Disorders (NGS Panel and Copy Number Analysis)	81405, 81406 (x2), 81479
NGS398	Macrocephaly and Overgrowth Syndromes (NGS Panel and Copy Number Analysis)	81236, 81302, 81304, 81321, 81323, 81403, 81404 (x5), 81405 (x13), 81406 (x12), 81407 (x3), 81408, 81479
NGS400	Pain Syndromes (NGS Panel and Copy Number Analysis)	81404, 81405, 81408, 81479
NGS402	Usher Syndrome (NGS Panel and Copy Number Analysis)	81404 (x2), 81406, 81407 (x3), 81408 (x2), 81479
NGS405	Amyotrophic Lateral Sclerosis (NGS Panel and Copy Number Analysis + C9orf72 Repeat Expansion Analysis)	81325, 81324, 81403 (x1), 81404 (x1), 81405 (x2), 81406 (x5), 81407 (x1), 81479 (x1)
NGS409	Comprehensive Dystonia (NGS Panel and Copy Number Analysis + mtDNA + HTT Repeat Expansion Analysis)	81185, 81302, 81304, 81321, 81323, 81403, 81404 (x11), 81405 (x20), 81406 (x24), 81408 (x2), 81460, 81465, 81479, 81271
NGS411	Comprehensive Dementia (NGS Panel and Copy Number Analysis + C9orf72 & HTT Repeat Expansion Analysis)	81321, 81323, 81351, 81403 (x2), 81404 (x6), 81405 (x7), 81406 (x13), 81479 (x1), 81271
NGS412	Myoclonic Epilepsy (NGS Panel and Copy Number Analysis)	81189, 81302, 81304, 81403 (x2), 81404 (x3), 81405 (x6), 81406 (x10), 81407 (x2), 81408, 81479
NGS413	Congenital Myopathies (NGS Panel and Copy Number Analysis)	81404, 81405 (x2), 81406 (x3), 81407 (x4), 81408 (x2), 81479 (x1)
NGS417	Ataxia/Episodic Ataxia Disorders (NGS Panel and Copy Number Analysis + mtDNA + SCA & HTT Repeat Expansion Analysis)	81460, 81465, 81175, 81185, 81189, 81286, 81302, 81304, 81325, 81324, 81403, 81404 (x18), 81405 (x34), 81406 (x32), 81407 (x8), 81408 (x3), 81479 (x1), 81187, 81179, 81180, 81184, 81181, 81182, 81183, 81343, 81344, 81479, 81177, 81271
NGS420	Ataxia/Episodic Ataxia Disorders (NGS Panel and Copy Number Analysis + mtDNA + SCA & FRDA Repeat Expansion Analysis)	81460, 81465, 81175, 81185, 81189, 81286, 81302, 81304, 81325, 81324, 81403, 81404 (x18), 81405 (x34), 81406 (x32), 81407 (x8), 81408 (x3), 81479 (x1), 81187, 81179, 81180, 81184, 81181, 81182, 81183, 81343, 81344, 81479, 81177, 81284
NGS424	Duchenne/Becker Muscular Dystrophy (NGS Panel and Copy Number Analysis)	81161, 81408
NGS425	Microcephaly (NGS Panel and Copy Number Analysis)	81175, 81216, 81167, 81302, 81304, 81307, 81403 (x3), 81404 (x9), 81405 (x16), 81406 (x16), 81407 (x7), 81408 (x1), 81479 (x1)
NGS428	Tuberous Sclerosis (NGS Panel and Copy Number Analysis)	81405 (x1), 81406 (x2), 81407, 81479(x1)
NGS429	Familial Hemiplegic Migraine (NGS Panel and Copy Number Analysis + mtDNA)	81406, 81407, 81185, 81479, 81460, 81465

<b>NGS430</b>	Stroke (NGS Panel and Copy Number Analysis + mtDNA)	81460, 81465, 81364, 81363, 81403, 81404 (x2), 81405 (x6), 81406 (x9), 81408 (x2), 81479(x1)
<b>NGS431</b>	Ataxia/Episodic Ataxia Disorders (NGS Panel and Copy Number Analysis + mtDNA + SCA Repeat Expansion Analysis)	81460, 81465, 81175, 81185, 81189, 81286, 81302, 81304, 81325, 81324, 81403, 81404 (x18), 81405 (x34), 81406 (x32), 81407 (x8), 81408 (x3), 81479 (x1), 81187, 81179, 81180, 81184, 81181, 81182, 81183, 81343, 81344, 81479, 81177
<b>NGS445</b>	Comprehensive Neuropathies (NGS Panel and Copy Number Analysis + mtDNA)	81448, 81460, 81465
<b>NGS460</b>	Alport Syndrome	81407 (x2), 81408 (x2), 81479 (x1)
<b>NGS464</b>	Comprehensive Vision Loss & Eye Disorders + mtDNA	81434, 81460, 81465