MNG LABORATORIES
A LabCorp Company

# Complete Test List

04082024FULLTESTLIST.59

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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 |
|---|---|---|
| | ***WHOLE GENOME SEQUENCING*** | |
| **WGS001** | MNGenome® TRIO Sequencing | 81425, 81426 x2 |
| **WGS002** | MNGenome® Additional Comparator (ony available when trio is ordered) | 81426 |
| **WGS003** | MNGenome® Proband Only Sequencing | 81425 |
| **WGS008** | MNGenome® DUO Sequencing | 81425, 81426 |
| | ***WHOLE EXOME SEQUENCING*** | |
| **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 |
| | ***MNG STAT SERVICES (10-14 DAY TAT)*** | |
| **WES001X** | MNG STAT Exome™ TRIO Sequencing + mtDNA | 81415, 81416 x2, 81460, 81465 |
| **WES003X** | MNG STAT Exome™ Proband Only Sequencing + mtDNA | 81415, 81460, 81465 |
| **WES008X** | MNG STAT Exome™ DUO Sequencing + mtDNA | 81415, 81416, 81460, 81465 |
| **WES013X** | MNG STAT Exome™ Proband Only Sequencing | 81415 |
| **WES011X** | MNG STAT Exome™ TRIO Sequencing | 81415, 81416 x2 |
| **WES018X** | MNG STAT Exome™ DUO Sequencing | 81415, 81416 |
| **WGS001X** | MNGenome STAT™ TRIO Sequencing | 81425, 81426 x2 |
| **WGS003X** | MNGenome STAT™ Proband Only Sequencing | 81425 |
| **WGS008X** | MNGenome STAT™ DUO Sequencing | 81425, 81426 |
| | ***RNA SEQUENCING*** | |
| **RNA001** | MNG Transcriptome | 81479 |
| **RNA002** | Panel-Specific RNA Sequencing | 81479 |
| **RNA003** | Gene-Specific RNA Sequencing Targeted Analysis | 81479 |
| | ***ENZYMOLOGY*** | |
| **ENZ01** | Aromatic L-amino Acid Decarboxylase Enzyme Analysis (Plasma) | 82542 |
| **ENZ06** | Thymidine Phosphorylase Enzyme Analysis (Blood) | 82657 |
| | ***METABOLIC ANALYSES*** | |
| **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 Aminoadipic Semialdehyde (Urine) | 82542 |
| **MET23** | Creatine and Guanidinoacetate (Plasma) | 82017 |
| **MET24** | Glucose (Plasma) | 82947 |

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| **MET29** | 3-O-Methyldopa (Plasma) | 82131 |
| | ***GENE SEQUENCING (SANGER), DELETION/DUPLICATION (MLPA) , POINT MUTATIONS - INDIVIDUAL GENES & PANELS*** | |
| **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 |
| **MOL388** | CYP21A2 (Congenital Adrenal Hyperplasia) Deletion/Duplication and Selected Variant Analysis | 81402 |
| **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 |
| | ***NEUROCHEMISTRY ANALYSES*** | |
| **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-aminoadipic Semialdehyde (CSF) | 84275 |
| **NC10** | Glucose (CSF) | 82947 |
| | ***NEXT GENERATION SEQUENCING (NGS) PANELS*** | |
| **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) |

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| **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** | Bartter/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 |

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| **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 |
| **NGS430** | Stroke (NGS Panel and Copy Number Analysis + mtDNA) | 81460, 81465, 81364, 81363, 81403, 81404 (x2), 81405 (x6), 81406 (x9), 81408 (x2), 81479(x1) |
| **NGS431** | 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 |
| **NGS445** | Comprehensive Neuropathies (NGS Panel and Copy Number Analysis + mtDNA) | 81448, 81460, 81465 |
| **NGS460** | Alport Syndrome | 81407 (x2), 81408 (x2), 81479 (x1) |
| **NGS464** | Comprehensive Vision Loss & Eye Disorders + mtDNA | 81434, 81460, 81465 |