

PANEL TESTING GUIDE

Meticulously curated for actionability, our validated multigene panels maximize clinical relevance for your patients.

Our panels

- Provide some of the fastest turnaround times in the industry
- Detect most copy number variants (CNVs)
- Use flexible sample types, including saliva swabs, dried blood spots, whole blood, and gDNA

Panel type

- MiniPanel™ - 15 genes or less
- MaxPanel™ - 16-98 genes
- ComprehensivePanel™ - 99+ genes
- PanelPlus® - NGS testing with ancillary assays

Legend

MIN	MiniPanel™
MAX	MaxPanel™
COM	ComprehensivePanel™
+	PanelPlus®
⚡	New tests

PerkinElmer Genomics' pricing structure is optimized to reflect panel size and assay type, so patients only pay for what's needed. For genes that require ancillary assays beyond NGS, we offer our PanelPlus® tests. All tests can expand to Whole Exome Sequencing, with new samples needed only for MiniPanel™ and MaxPanel™ testing tiers.

Cardiology

	MAX	Arrhythmia Panel, Comprehensive	73 genes	2-3 weeks	D4105
	MAX	Arrhythmia Panel, STAT Comprehensive	73 genes	7-10 days	D4105F
	MAX	Arrhythmogenic Cardiomyopathy Panel	24 genes	2-3 weeks	D4100
	MAX	Arrhythmogenic Cardiomyopathy Panel, STAT	24 genes	7-10 days	D4100F
	MIN	Brugada Syndrome Panel	8 genes	2-3 weeks	D4108
	MIN	Brugada Syndrome Panel, STAT	8 genes	7-10 days	D4108F
	COM	Cardiomyopathy Panel, Comprehensive	122 genes	3-5 weeks	D4101
	COM	Cardiomyopathy Panel, STAT Comprehensive	122 genes	7-10 days	D4101F
	COM	Cardiomyopathy and Skeletal Muscle Disease Panel	158 genes	3-5 weeks	D4109
	COM	Cardiomyopathy and Skeletal Muscle Disease Panel, STAT	158 genes	7-10 days	D4109F
⚡	MIN	Catecholaminergic Polymorphic Ventricular Tachycardia Panel	10 genes	2-3 weeks	D5201
	MAX	Dilated Cardiomyopathy Panel	48 genes	2-3 weeks	D4102
	MAX	Dilated Cardiomyopathy Panel, STAT	48 genes	7-10 days	D4102F
	MAX	Hypertrophic Cardiomyopathy Panel	39 genes	2-3 weeks	D4103
	MAX	Hypertrophic Cardiomyopathy Panel, STAT	39 genes	7-10 days	D4103F
	MAX	Long QT Syndrome Panel	17 genes	2-3 weeks	D4106
	MAX	Long QT Syndrome Panel, STAT	17 genes	7-10 days	D4106F
	MAX	Marfan/TAAD Panel	25 genes	2-3 weeks	D4110
	MAX	Marfan/TAAD Panel, STAT	25 genes	7-10 days	D4110F
⚡	MIN	Pulmonary Arterial Hypertension Panel	8 genes	2-3 weeks	D5226

Hearing Loss

	MAX	Deafness Non-Syndromic Sensorineural Autosomal Recessive Panel	46 genes	2-3 weeks	D4401
	MAX	Deafness Non-Syndromic Sensorineural Autosomal Recessive Panel, STAT	46 genes	7-10 days	D4401F
⚡	COM	Hearing Loss Panel, Comprehensive	146 genes	3-5 weeks	D5205
⚡	MAX	Non-Syndromic Sensorineural Deafness Panel	60 genes	2-3 weeks	D5223
	MIN	Treacher Collins Syndrome Sequencing Panel	3 genes	2-3 weeks	D4405
	MIN	Treacher Collins Syndrome Sequencing Panel, STAT	3 genes	7-10 days	D4405F
	MIN	Usher Syndrome Panel	14 genes	2-3 weeks	D4308
	MIN	Usher Syndrome Panel, STAT	14 genes	7-10 days	D4308F
	MIN	Waardenburg Syndrome Panel	7 genes	2-3 weeks	D4402
	MIN	Waardenburg Syndrome Panel, STAT	7 genes	7-10 days	D4402F

Hereditary Cancer

	MAX	Breast and Gynecological Cancers Panel	26 genes	2-3 weeks	D4210
	MAX	Breast and Gynecological Cancers Panel, STAT	26 genes	7-10 days	D4210F
	MAX	Cancer Panel, Comprehensive	82 genes	2-3 weeks	D4205
	MAX	Cancer Panel, STAT Comprehensive	82 genes	7-10 days	D4205F
	MAX	Colorectal Cancer Panel	19 genes	2-3 weeks	D4200
	MAX	Colorectal Cancer Panel	19 genes	7-10 days	D4200F
	MIN	Hereditary Breast and Ovarian Cancer Syndrome Panel	2 genes	2-3 weeks	D4209
	MIN	Hereditary Breast and Ovarian Cancer Syndrome Panel, STAT	2 genes	7-10 days	D4209F
⚡	MIN	Lynch Syndrome Panel	5 genes	2-3 weeks	D5219
	MIN	Multiple Endocrine Neoplasias/Paranglioma/Pheochromocytoma Panel	10 genes	2-3 weeks	D4203
	MIN	Multiple Endocrine Neoplasias/Paranglioma/Pheochromocytoma Panel, STAT	10 genes	7-10 days	D4203F
	MAX	Pancreatic Cancer Panel	20 genes	2-3 weeks	D4201
	MAX	Pancreatic Cancer Panel, STAT	20 genes	7-10 days	D4201F
	MAX	Pediatric Tumor Panel	23 genes	2-3 weeks	D4207
	MAX	Pediatric Tumor Panel, STAT	23 genes	7-10 days	D4207F
	MAX	Renal Cancer Panel	25 genes	2-3 weeks	D4204
	MAX	Renal Cancer Panel, STAT	25 genes	7-10 days	D4204F
	MIN	Tuberous Sclerosis Panel	2 genes	2-3 weeks	D4211
	MIN	Tuberous Sclerosis Panel, STAT	2 genes	7-10 days	D4211F

Metabolic and Mitochondrial

	+	Adrenoleukodystrophy Panel with <i>ABCD1</i>	15 genes	3-5 weeks	D4043
⚡	MIN	Chronic Pancreatitis Panel	6 genes	2-3 weeks	D5202
	+	Congenital Adrenal Hyperplasia Panel with <i>CYP21A2</i>	7 genes	3-5 weeks	D4584
	+	Congenital Adrenal Hyperplasia Panel with <i>CYP21A2</i> , STAT	7 genes	7-10 days	D4584F
	+	Congenital Disorders of Glycosylation Panel	93 genes	3-5 weeks	D4571
	+	Congenital Disorders of Glycosylation Panel, STAT	93 genes	7-10 days	D4571F
	MIN	Congenital Hypothyroidism	8 genes	2-3 weeks	D4574
	MIN	Congenital Hypothyroidism, STAT	8 genes	7-10 days	D4574F
⚡	+	Creatine Deficiency Syndrome Panel	3 genes	3-5 weeks	D5209
	MIN	Elevated C4 Panel	3 genes	2-3 weeks	D4537
	MIN	Elevated C4 Panel, STAT	3 genes	7-10 days	D4537F
	MIN	Elevated C5-OH Panel	11 genes	2-3 weeks	D4541
	MIN	Elevated C5-OH Panel, STAT	11 genes	7-10 days	D4541F
	MIN	Elevated Phenylalanine Panel	5 genes	2-3 weeks	D4549
	MIN	Elevated Phenylalanine Panel, STAT	5 genes	7-10 days	D4549F
	MAX	Fatty Acid Oxidation Defects Panel	16 genes	2-3 weeks	D4572
	MAX	Fatty Acid Oxidation Defects Panel, STAT	16 genes	7-10 days	D4572F
	MIN	Galactosemia Panel	3 genes	2-3 weeks	D4563
	MIN	Galactosemia Panel, STAT	3 genes	7-10 days	D4563F
	MAX	Glycogen Storage Disease Panel, Comprehensive	23 genes	2-3 weeks	D4566
	MAX	Glycogen Storage Disease Panel, STAT Comprehensive	23 genes	7-10 days	D4566F
⚡	MAX	Hyperammonemia Panel	48 genes	2-3 weeks	D5215
⚡	MIN	Hyperparathyroidism Panel	8 genes	2-3 weeks	D5216
	MIN	Hereditary Hemochromatosis Panel	5 genes	2-3 weeks	D4700
	MIN	Hereditary Hemochromatosis Panel, STAT	5 genes	7-10 days	D4700F

Metabolic and Mitochondrial

	MIN	Krabbe Disease Panel	2 genes	2-3 weeks	D4506
	MIN	Krabbe Disease Panel, STAT	2 genes	7-10 days	D4506F
	+	Lysosomal Storage Disorder Panel with <i>GBA</i> and <i>IDS</i>	12 genes	3-5 weeks	D3001
	+	Lysosomal Storage Disorders Panel with <i>GBA</i> and <i>IDS</i> , Comprehensive	51 genes	3-5 weeks	D4501
	+	Lysosomal Storage Disorders Panel with <i>GBA</i> and <i>IDS</i> , STAT Comprehensive	51 genes	7-10 days	D4501F
	MIN	Maple Syrup Urine Disease Panel	5 genes	2-3 weeks	D4561
	MIN	Maple Syrup Urine Disease Panel, STAT	5 genes	7-10 days	D4561F
	MIN	Metachromatic Leukodystrophy Panel	7 genes	2-3 weeks	D4508
	MIN	Metachromatic Leukodystrophy Panel, STAT	7 genes	7-10 days	D4508F
	MAX	Methylmalonic Acidemia Panel	17 genes	2-3 weeks	D4589
	MAX	Methylmalonic Acidemia Panel, STAT	17 genes	7-10 days	D4589F
	+	Mitochondrial Encephalopathy/Leigh Syndrome Nuclear Gene Panel	146 genes	3-5 weeks	D4607
	+	Mitochondrial Encephalopathy/Leigh Syndrome Nuclear Gene Panel, STAT	146 genes	7-10 days	D4607F
	+	Mitochondrial Nuclear Gene Panel, Comprehensive	254 genes	3-5 weeks	D4606
	+	Mitochondrial Nuclear Gene Panel, STAT Comprehensive	254 genes	7-10 days	D4606F
	MAX	Mucopolysaccharidoses (MPS) Panel, Comprehensive	23 genes	2-3 weeks	D4502
	MAX	Mucopolysaccharidoses (MPS) Panel, STAT Comprehensive	23 genes	7-10 days	D4502F
	MAX	Nephrotic Syndrome Panel	30 genes	2-3 weeks	D4613
	MAX	Nephrotic Syndrome Panel, STAT	30 genes	7-10 days	D4613F
⚠	MIN	Primary Hyperoxaluria Panel	3 genes	2-3 weeks	D5225
	MIN	Tyrosinemia Panel	3 genes	2-3 weeks	D4562
	MIN	Tyrosinemia Panel, STAT	3 genes	7-10 days	D4562F
	MIN	Urea Cycle Disorders Panel	15 genes	2-3 weeks	D4532
	MIN	Urea Cycle Disorders Panel, STAT	15 genes	7-10 days	D4532F

Neurology

	+	Adrenoleukodystrophy Panel with <i>ABCD1</i>	15 genes	3-5 weeks	D4043
	MIN	Aicardi-Goutieres Syndrome Panel	7 genes	2-3 weeks	D4014
	MIN	Aicardi-Goutieres Syndrome Panel, STAT	7 genes	7-10 days	D4014F
	MIN	Brain Iron Accumulation Syndromes Panel	9 genes	2-3 weeks	D4016
	MIN	Brain Iron Accumulation Syndromes Panel, STAT	9 genes	7-10 days	D4016F
	MAX	Brain Malformations Panel, Comprehensive	93 genes	2-3 weeks	D4023
	MAX	Brain Malformations Panel, STAT Comprehensive	93 genes	7-10 days	D4023F
	MIN	Ceroid Lipofuscinosis Panel	13 genes	2-3 weeks	D4026
	MIN	Ceroid Lipofuscinosis Panel, STAT	13 genes	7-10 days	D4026F
	MAX	Charcot Marie Tooth Disease Panel	62 genes	2-3 weeks	D4037
	MAX	Charcot Marie Tooth Disease Panel, STAT	62 genes	7-10 days	D4037F
	MAX	Dystonia Panel	17 genes	2-3 weeks	D4012
	MAX	Dystonia Panel, STAT	17 genes	7-10 days	D4012F
	COM	Epilepsy Panel, Comprehensive	99 genes	3-5 weeks	D4002
	COM	Epilepsy Panel, STAT Comprehensive	99 genes	7-10 days	D4002F
⚠	COM	Expanded Leukodystrophy Panel with <i>ABCD1</i>	291 genes	3-5 weeks	D5211
	COM	Focused Autism and Intellectual Disability Panel	263 genes	3-5 weeks	D5130
	COM	Focused Autism and Intellectual Disability Panel, STAT	263 genes	7-10 days	D5130F
⚠	MIN	Hemiplegic Migraine Panel	4 genes	2-3 weeks	D5213
	MAX	Hereditary Dementia and Amyotrophic Lateral Sclerosis Panel	33 genes	2-3 weeks	D4019
	MAX	Hereditary Dementia and Amyotrophic Lateral Sclerosis Panel, STAT	33 genes	7-10 days	D4019F
	COM	Hereditary Neuropathy Sequencing Panel	122 genes	3-5 weeks	D4022
	COM	Hereditary Neuropathy Sequencing Panel, STAT	122 genes	7-10 days	D4022F
	MAX	Infantile Epilepsy Panel	76 genes	2-3 weeks	D4003
	MAX	Infantile Epilepsy Panel, STAT	76 genes	7-10 days	D4003F
	MAX	Joubert and Meckel-Gruber Syndromes Panel	30 genes	2-3 weeks	D4013
	MAX	Joubert and Meckel-Gruber Syndromes Panel, STAT	30 genes	7-10 days	D4013F
	MAX	Lissencephaly Panel	24 genes	2-3 weeks	D4025
	MAX	Lissencephaly Panel, STAT	24 genes	7-10 days	D4025F

Neurology

	MIN	Myoclonic Dystonia Panel	2 genes	2-3 weeks	D4010
	MIN	Myoclonic Dystonia Panel, STAT	2 genes	7-10 days	D4010F
⚡	MAX	Nervous System and Brain Tumor Panel	17 genes	2-3 weeks	D5222
	MAX	Neurodegeneration Panel	38 genes	2-3 weeks	D4021
	MAX	Neurodegeneration Panel, STAT	38 genes	7-10 days	D4021F
⚡	MAX	Rett, Angelman and Related Syndromes Panel	20 genes	2-3 weeks	D5203
	MAX	Spastic Paraplegia Panel Complete	55 genes	2-3 weeks	D4011
	MAX	Spastic Paraplegia Panel Complete, STAT	55 genes	7-10 days	D4011F

Neuromuscular

	MAX	Charcot Marie Tooth Disease Panel	62 genes	2-3 weeks	D4037
	MAX	Charcot Marie Tooth Disease Panel, STAT	62 genes	7-10 days	D4037F
	MAX	Hereditary Dementia and Amyotrophic Lateral Sclerosis Panel	33 genes	2-3 weeks	D4019
	MAX	Hereditary Dementia and Amyotrophic Lateral Sclerosis Panel, STAT	33 genes	7-10 days	D4019F
	COM	Hereditary Neuropathy Sequencing Panel	122 genes	3-5 weeks	D4022
	COM	Hereditary Neuropathy Sequencing Panel, STAT	122 genes	7-10 days	D4022F
	MAX	Hereditary Parkinson's Disease and Parkinsonism Panel	21 genes	2-3 weeks	D4018
	MAX	Hereditary Parkinson's Disease and Parkinsonism Panel, STAT	21 genes	7-10 days	D4018F
	MAX	Muscular Dystrophy Panel, Comprehensive	56 genes	2-3 weeks	D4032
	MAX	Muscular Dystrophy Panel, STAT Comprehensive	56 genes	7-10 days	D4032F
	COM	Neuromuscular Disorders Panel, Comprehensive	133 genes	3-5 weeks	D4035
	COM	Neuromuscular Disorders Panel, STAT Comprehensive	133 genes	7-10 days	D4035F
	MAX	Neuropathies Panel, Comprehensive	81 genes	2-3 weeks	D4020
	MAX	Neuropathies Panel, STAT Comprehensive	81 genes	7-10 days	D4020F
⚡	MAX	Limb-Girdle Muscular Dystrophy Panel	30 genes	2-3 weeks	D5218
⚡	MIN	Periodic Paralysis Panel	8 genes	2-3 weeks	D5224

Neonatal

	COM	Expanded Newborn Screening and Gene Sequencing Panel with <i>ABCD1</i> and <i>CYP21A2</i>	269 genes	3-5 weeks	D3004
	COM	NeoSeq Newborn and Pediatric Gene Panel	1723 genes	3-5 weeks	D3005
	MAX	Newborn Screening and Lysosomal Storage Disease Panel with <i>ABCD1</i> , <i>CYP21A2</i> , and <i>GBA</i>	94 genes	3-5 weeks	D3003
	MAX	Newborn Screening (NBS) Gene Sequencing Panel with <i>ABCD1</i> and <i>CYP21A2</i>	82 genes	3-5 weeks	D3002

Ophthalmology

	MAX	Albinism Panel	28 genes	2-3 weeks	D4309
	MAX	Albinism Panel, STAT	28 genes	7-10 days	D4309F
	MAX	Cataract Panel	69 genes	2-3 weeks	D5200
⚡	MIN	Congenital Stationary Night-Blindness Panel	12 genes	2-3 weeks	D5207
	COM	Eye Disorders Panel, Comprehensive	211 genes	3-5 weeks	D4306
	COM	Eye Disorders Panel, Comprehensive STAT	211 genes	7-10 days	D4306F
⚡	MAX	Glaucoma Panel	38 genes	2-3 weeks	D5212
⚡	MAX	Leber Congenital Amaurosis Panel	19 genes	2-3 weeks	D5217
	MIN	Macular Dystrophy/Degeneration/Stargardt Disease Panel	15 genes	2-3 weeks	D4305
	MIN	Macular Dystrophy/Degeneration/Stargardt Disease Panel, STAT	15 genes	7-10 days	D4305F
	MAX	Microphthalmia/Anophthalmia/Coloboma Spectrum Panel	49 genes	2-3 weeks	D4300
	MAX	Microphthalmia/Anophthalmia/Coloboma Spectrum Panel, STAT	49 genes	7-10 days	D4300F
	MIN	Pulmonary Fibrosis and Hermansky-Pudlak Syndrome Panel	15 genes	2-3 weeks	D4702
	MIN	Pulmonary Fibrosis and Hermansky-Pudlak Syndrome Panel, STAT	15 genes	7-10 days	D4702F
	COM	Retina/Photoreceptor Dystrophy Panel	121 genes	3-5 weeks	D4304
	COM	Retina/Photoreceptor Dystrophy Panel, STAT	121 genes	7-10 days	D4304F
	MAX	Retinitis Pigmentosa Panel	66 genes	2-3 weeks	D4303
	MAX	Retinitis Pigmentosa Panel, STAT	66 genes	7-10 days	D4303F
	MIN	Usher Syndrome Panel	14 genes	2-3 weeks	D4308
	MIN	Usher Syndrome Panel, STAT	14 genes	7-10 days	D4308F
⚡	MIN	Vitreoretinopathy Panel	4 genes	2-3 weeks	D5228

Other Conditions

	COM	Ciliopathies Panel	101 genes	3-5 weeks	D4703
	COM	Ciliopathies Panel, STAT	101 genes	7-10 days	D4703F
	MIN	Cornelia de Lange Syndrome Panel	8 genes	2-3 weeks	D4707
	MIN	Cornelia de Lange Syndrome Panel, STAT	8 genes	7-10 days	D4707F
⚠	MIN	Ehlers Danlos Panel	3 genes	2-3 weeks	D5210
	MIN	Familial Mediterranean Fever Panel	9 genes	2-3 weeks	D4730
	MIN	Familial Mediterranean Fever Panel, STAT	9 genes	7-10 days	D4730F
	MIN	Hereditary Hemochromatosis Panel	5 genes	2-3 weeks	D4700
	MIN	Hereditary Hemochromatosis Panel, STAT	5 genes	7-10 days	D4700F
	MIN	Hereditary Hemorrhagic Telangiectasia Panel	5 genes	2-3 weeks	D4734
	MIN	Hereditary Hemorrhagic Telangiectasia Panel, STAT	5 genes	7-10 days	D4734F
	MIN	Hereditary Thrombophilia Panel	7 genes	2-3 weeks	D4701
	MIN	Hereditary Thrombophilia Panel, STAT	7 genes	7-10 days	D4701F
	MIN	Heterotaxy Panel	11 genes	2-3 weeks	D4705
	MIN	Heterotaxy Panel, STAT	11 genes	7-10 days	D4705F
⚠	MIN	Holoprosencephaly Panel	10 genes	2-3 weeks	D5214
	MIN	Hyper-IgE Syndromes Panel	4 genes	2-3 weeks	D4712
	MIN	Hyper-IgE Syndromes Panel, STAT	4 genes	7-10 days	D4712F
	MAX	Joubert and Meckel-Gruber Syndromes Panel	30 genes	2-3 weeks	D4013
	MAX	Joubert and Meckel-Gruber Syndromes Panel, STAT	30 genes	7-10 days	D4013F
	MAX	Limb Malformation: Sequencing Panel	40 genes	2-3 weeks	D4725
	MAX	Limb Malformation: Sequencing Panel, STAT	40 genes	7-10 days	D4725F
	MAX	MODY Panel	17 genes	2-3 weeks	D4733
	MAX	MODY Panel, STAT	17 genes	7-10 days	D4733F
⚠	MIN	Myelodysplastic Syndrome/Leukemia Panel	14 genes	2-3 weeks	D5220
	MAX	Noonan and RASopathies Panel	17 genes	2-3 weeks	D4708
	MAX	Noonan and RASopathies Panel, STAT	17 genes	7-10 days	D4708F
	MAX	Obesity Panel	35 genes	2-3 weeks	D4731
	MAX	Obesity Panel, STAT	35 genes	7-10 days	D4731F
	MIN	Periodic Fever Syndromes Panel	12 genes	2-3 weeks	D4729
	MIN	Periodic Fever Syndromes Panel, STAT	12 genes	7-10 days	D4729F
	+	Premature Ovarian Failure: Sequencing Panel and <i>FMR1</i> CGG Repeat Analysis	21 genes	3-5 weeks	D4718
	+	Premature Ovarian Failure: Sequencing Panel and <i>FMR1</i> CGG Repeat Analysis, STAT	21 genes	7-10 days	D4718F
	MAX	Pulmonary Disease: Comprehensive Sequencing Panel	52 genes	2-3 weeks	D4732
	MAX	Pulmonary Disease: Comprehensive Sequencing Panel, STAT	52 genes	7-10 days	D4732F
⚠	MIN	Senior-Loken Syndrome Panel	9 genes	2-3 weeks	D5227
	MAX	Skeletal Dysplasia with Increased Bone Density: Sequencing Panel	22 genes	2-3 weeks	D4724
	MAX	Skeletal Dysplasia with Increased Bone Density: Sequencing Panel, STAT	22 genes	7-10 days	D4724F
	MIN	Treacher Collins Syndrome Sequencing Panel	3 genes	2-3 weeks	D4405
	MIN	Treacher Collins Syndrome Sequencing Panel, STAT	3 genes	7-10 days	D4405F



Questions?

Contact us at
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