Greenwood Genetic Center

Where Compassion Inspires Progress

CPT Code and Price List

2026 CPT Codes

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Molecular Tests

Biochemical Tests

Cytogenetic Tests

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Molecular Testing

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Next Generation Sequencing Panels	# of Genes	CPT Code	Price
Aortic Dysfunction or Dilation and Related Disorders Panel	20 Genes	81410	$3,000
Cholestasis Panel	74 Genes	81443	$3,500
Comprehensive Cardiac Panel	127 Genes	81413	$3,500
Comprehensive Pulmonary Panel	147 Genes	81443	$3,500
Connective Tissue Disorders Panel	36 Genes	81410	$3,000
Craniosynostosis Panel	11 Genes	81479	$2,500
Dilated & Arrhythmogenic Cardiomyopathy Panel	67 Genes	81439	$3,000
Disorders of Somatic Mosaicism Panel	56 Genes	81479	$3,000
Epilepsy/Seizure Panel	165 Genes	81419	$3,500
Familial Hypercholesterolemia Panel	4 Genes	81479	$2,000
Hearing Loss Panel	147 Genes + 10 Mitochondrial Genes	81430	$3,500
Hermansky-Pudlak Syndrome & Pulmonary Fibrosis Panel	46 Genes	81443	$3,000
Hydrops, Non-immune Panel	108 Genes	81443	$3,500
Maturity-onset Diabetes of the Young (MODY) Panel, or Familial Hyperinsulinism Panel	16 Genes + 1 Mitochondrial Gene	81479	$2,500
Ocular Albinism & Hermansky-Pudlak Syndrome Panel	18 Genes	81443	$3,000
Overgrowth/Macrocephaly Panel	16 Genes	81443	$3,000
RASopathy Panel	23 Genes	81442	$3,000
Rhabdomyolysis and Metabolic Myopathies Panel	47 Genes	81443	$3,000
Skeletal Dysplasia Panel	19 Genes	81479	$2,500
Vascular Malformations Panel	22 Genes	81443	$3,000

Sanger Sequencing Tests	Genes	CPT Code	Price
3-Methylcrotonylglycinuria I/II	*MCCC1/MCCC2*	81406x2	$2,000
Acid Sphingomyelinase Deficiency (ASMD)	*SMPD1*	81479	$800
Adrenoleukodystrophy, X-Linked	*ABCD1*	81405	$1,000
Alpha-mannosidosis	*MAN2B1*	81479	$1,500
Aspartylglucosaminuria	*AGA*	81479	$1,000
Beckwith-Wiedemann Syndrome	*CDKN1C*	81479	$500
Biotinidase Deficiency	*BTD*	81404	$1,000
Carnitine Palmitoyltransferase IA Deficiency	*CPT1A*	81406	$1,500
Central Hypoventilation Syndrome	*PHOX2B*	81404	$650
Connexin 26	*GJB2*	81252	$500
Cystic Fibrosis	*CFTR*	81223	$1,500
Fabry Disease	*GLA*	81405	$1,000
Galactosemia	*GALT*	81406	$1,000
Gaucher Disease	*GBA*	81479	$1,000
Glutaric Acidemia, Type I	*GCDH*	81406	$1,000
GM1 Gangliosidosis/Morquio Syndrome B (MPS IVB)	*GLB1*	81479	$1,200
Hunter Syndrome (MPS II)	*IDS*	81405	$1,000
Hurler Syndrome (MPS I)	*IDUA*	81406	$1,000
Krabbe Disease	*GALC*	81406	$1,000
Maroteaux-Lamy Syndrome (MPS VI)	*ARSB*	81479	$800
Medium-chain acyl-CoA Dehydrogenase (MCAD) Deficiency	*ACADM*	81479	$1,000
Metachromatic Leukodystrophy	*ARSA*	81405	$1,000
Morquio Syndrome A (MPS IVA)	*GALNS*	81479	$1,000
Phenylketonuria	*PAH*	81406	$1,000
Pompe Disease, Glycogen Storage Disease Type II	*GAA*	81406	$1,000
Primary Carnitine Deficiency, Systemic	*SLC22A5*	81405	$1,000
PTEN-Related Disorders	*PTEN*	81321	$1,200
Rett Syndrome	*MECP2*	81302	$900

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Sanger Sequencing Tests Cont.	Genes	CPT Code	Price
Sanfilippo Syndrome A (MPS IIIA)	*SGSH*	81479	$1,000
Sanfilippo Syndrome B (MPS IIIB)	*NAGLU*	81479	$1,200
Sanfilippo Syndrome C (MPS IIIC)	*HGSNAT*	81479	$1,500
Sanfilippo syndrome D (MPS IIID)	*GNS*	81479	$1,000
Sialidosis	*NEU1*	81479	$800
Sly Syndrome (MPS VII)	*GUSB*	81479	$1,000
Spinal Muscular Atrophy	*SMN1*	81336	$1,000
STRC-Related Disorders	*STRC*	81479	$1,000
Tay – Sachs Disease	*HEXA*	81406	$1,000
Very Long-Chain Acyl-CoA Dehydrogenase (VLCAD) Deficiency	*ACADVL*	81406	$1,500

Deletion/Duplication (MLPA)	Genes	CPT Code	Price
Beckwith-Wiedemann Syndrome (MS-MLPA)	*CDKN1C*	81401	$600
Charcot-Marie-Tooth Disease Type 1A	*PMP22*	81324	$500
Duchenne/Becker Muscular Dystrophy	*DMD*	81161	$500
Familial Hypercholesterolemia	*LDLR*	81405	$500
Hunter Syndrome (MPS II)	*IDS*	81479	$500
Pelizaeus-Merzbacher Disease, Spastic Paraplegia	*PLP1*	81404	$500
Pompe Disease, Glycogen Storage Disease Type II	*GAA*	81479	$500
PTEN-Related Disorders	*PTEN*	81323	$500
Rett Syndrome	*MECP2*	81304	$500
Russell-Silver Syndrome (MS-MLPA)		81401	$600
Saethre-Chotzen Syndrome	*TWIST1*	81403	$500
Sotos Syndrome	*NSD1*	81405	$500
Spinal Muscular Atrophy	*SMN1/SMN2*	81329	$600
STRC-Related Disorders	*STRC*	81479	$500

Mitochondrial Testing			
Mitochondrial DNA Variant Panel		81479	$1,600
mtDNA Targeted Known Variant Analysis : Known Familial Mutation (no charge to test maternal sample of proband)		81403	$350
mtDNA Targeted Known Variant Analysis with Heteroplasmy : KnownFamilial Mutation		81403	$1,000

Methylation Analysis	Genes	CPT Code	Price
Angelman Syndrome : MS-MLPA	*UBE3A*	81331	$600
Beckwith-Wiedemann Syndrome (BWS) : MS-MLPA	*CDKN1C*	81401	$600
EpiSign Complete		0318U	Contact Lab
EpiSign Variant		81479	Contact Lab
Fragile X Syndrome : Methylation Analysis	*FMR1*	81244	$530
GNAS-Related Disorders : MS-MLPA	*GNAS*	81479	$600
Prader-Willi Syndrome : MS-MLPA		81331	$600
Russell-Silver Syndrome (RSS) : MS-MLPA		81401	$600

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Trinucleotide Repeat Analysis	Genes	CPT Code	Price
Central Hypoventilation Syndrome : Polyalanine Repeat (see section below for prenatal test price)	*PHOX2B*	81479	$350
Fragile X Syndrome (see section below for prenatal test price)	*FMR1*	81243	$350
Myotonic Dystrophy (see section below for prenatal test price)	*DMPK*	81234	$350
Spinocerebellar Ataxia Type 1	*ATXN1*	81178	$500
Spinocerebellar Ataxia Type 2	*ATXN2*	81179	$500
Spinocerebellar Ataxia Type 3	*ATXN3*	81180	$500
Spinocerebellar Ataxia Type 6	*CACNA1A*	81184	$500
Spinocerebellar Ataxia Type 7	*ATXN7*	81181	$500
Spinocerebellar Ataxia Expansion Panel	*ATXN1, ATXN2, ATXN3, CACNA1A, ATXN7*	81479	$1,100

UPD		CPT Code	Price
Angelman/Prader-Willi Syndrome (see section below for prenatal test price)	Chromosome 15	81402	$500
Chromosome 14 UPD (see section below for prenatal test price)	Chromosome 14	81402	$500
Russel-Silver Syndrome (RSS) (see section below for prenatal test price)	Chromosome 7	81402	$500

Targeted Analysis (no charge to test parents of proband)	Genes	CPT Code	Price
Connexin 26	*GJB2*	81253	$350
Cystic Fibrosis	*CFTR*	81221	$350
PTEN-Related Disorders	*PTEN*	81322	$350
Rett Syndrome	*MECP2*	81303	$350
Spinal Muscular Atrophy	*SMN1*	81337	$350
Known Familial Mutation	All Genes	81403	$350

Prenatal Testing This is not a comprehensive list of available prenatal testing. Please contact lab for more information regarding prenatal samples.	Genes	CPT Code	Price
Beckwith-Wiedemann (MS-MLPA)	*CDKN1C*	81401	$1,000
Duchenne Muscular Dystrophy : Deletion/Duplication MLPA	*DMD*	81161	$1,000
Fragile X : Trinucleotide Repeat Analysis	*FMR1*	81243	$1,000
Maternal Cell Contamination (MCC) (Required for all prenatal testing)		81265	$350
Myotonic Dystrophy : Trinucleotide Repeat Analysis	*DMPK*	81234	$1,000
Prenatal Exome Sequencing, Duo Analysis		81415, 81416	Contact Lab
Prenatal Exome Sequencing, Trio Analysis		81415, 81416x2	Contact Lab
Spinal Muscular Atrophy : Deletion/Duplication MLPA	*SMN1/SMN2*	81329	$1,000
Targeted Analysis : Known Familial Mutation		81403	$1,000
UPD (Chromosomes 7, 14, 15)		81402	$1,000

Focused Next Generation Sequencing		CPT Code	Price
Focused NGS (includes CNV analysis)	Single Gene	Contact Lab	$1,500
Focused NGS (includes CNV analysis)	2-5 Genes	81479	$2,000
Focused NGS (includes CNV analysis)	6-15 Genes	81479	$2,500
Focused NGS (includes CNV analysis)	16-60 Genes	81443	$3,000

Whole Exome Sequencing		CPT Code	Price
Whole Exome Sequencing, Singleton Analysis		81415	Contact Lab
Whole Exome Sequencing, Duo Analysis		81415, 81416	Contact Lab
Whole Exome Sequencing, Trio Analysis		81415, 81416x2	Contact Lab
Whole Exome Sequencing, Reanalysis		81417	$500

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Long-Read Sequencing		CPT Code	Price
Long-Read Sequencing, Singleton Analysis		81425	Contact Lab
Long-Read Sequencing, Duo Analysis		81425, 81426	Contact Lab
Long-Read Sequencing, Trio Analysis		81425, 81426x2	Contact Lab

Rapid Whole Genome Sequencing		CPT Code	Price
Rapid Whole Genome Sequencing, Singleton Analysis		81425	Contact Lab

Whole Genome Sequencing		CPT Code	Price
Whole Genome Sequencing, Singleton Analysis		81425	Contact Lab
Whole Genome Sequencing, Duo Analysis		81425, 81426	Contact Lab
Whole Genome Sequencing, Trio Analysis		81425, 81426x2	Contact Lab
Whole Genome Sequencing, Reanalysis		81427	$2,500

X-Inactivation Studies		CPT Code	Price
X-Inactivation Studies		81204	$350

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Individual Enzyme Analysis	Enzymes	CPT Code	Price
Acid Sphingomyelinase Deficiency (ASMD)	Acid sphingomyelinase	82657	$200
Alpha-mannosidosis	α-mannosidase	82657	$200
Aspartylglucosaminuria	Aspartyglucosaminidase	82657	$200
Beta-mannosidosis	β-mannosidase	82657	$200
Biotinidase Deficiency	Biotinidase	82261	$200
Fabry Disease	α-galactosidase	82657	$200
Fucosidosis	α-fucosidase	82657	$200
GM1 Gangliosidosis/Morquio Syndrome B (MPS IVB)	β-galactosidase	82657	$200
Gaucher Disease	β-glucosidase	82963	$200
Gaucher Disease	Chitotriosidase	82657	$200
Hunter Syndrome (MPS II)	iduronate-2-sulfatase	82657	$200
Hurler Syndrome (MPS I)	α-iduronidase	82657	$200
Krabbe Disease	Galactocerebrosidase	82657	$200
Maroteaux-Lamy Syndrome (MPS VI)	Arylsulfatase B	82657	$200
Metachromatic Leukodystrophy	Arylsulfatase A	82657	$200
Morquio Syndrome A (MPS IVA)	N-acetyl-galactosamine-6-sulfatase	82657	$200
Neuronal Ceroid Lipofuscinosis 1 (CLN1)	Palmitoyl-protein thioesterase 1	82657	$200
Neuronal Ceroid Lipofuscinosis 2 (CLN2)	Tripeptidyl peptidase 1	82657	$200
Pompe Disease, Glycogen Storage Disease Type II	α-glucosidase	82657	$200
Sanfilippo Syndrome A (MPS IIIA)	Heparan-N-sulfatase	82657	$200
Sanfilippo Syndrome B (MPS IIIB)	N-acetyl-alpha-D-glucosaminidase	82657	$200
Sanfilippo Syndrome C (MPS IIIC)	Acetyl CoA : glucosamine N acetyl transferase	82657	$200
Sanfilippo Syndrome D (MPS IIID)	N-acetyl glucosamine-6-sulfatase	82657	$200
Schindler/Kanzaki Disease	N-acetyl-alpha galactosaminidase	82657	$200
Sialidosis	Sialidase (α-neuraminidase)	82657	$200
Sly Syndrome (MPS VII)	β-glucuronidase	82657	$200
Tay-Sachs/Sandhoff Disease	β-hexosaminidase	83080	$200

Enzyme Panels	Enzymes	CPT Code	Price
Hydrops : Enzyme Panel	α-neuraminidase/sialidase, β-galactosidase, β-glucosidase, β-glucuronidase	82657x4	$800
Lysosomal Storage Disease : Enzyme Panel	Acid sphingomyelinase, α-fucosidase, α-galactosidase, α-iduronidase, α-mannosidase, Arylsulfatase A, Aspartyglucosaminidase, β-galactosidase, β-glucosidase, β-hexosaminidase, β-mannosidase, Galactocerebrosidase, N-acetyl-α-galactosaminidase	82657x5	$1,000
Lysosomal Storage Disease : Enzyme Panel (DBS)	α-1,4-glucosidase, α-fucosidase, α-galactosidase, α-mannosidase, Acid sphingomyelinase, Aspartyglucosaminidase, β-galactosidase, β-glucosidase, β-mannosidase, Galactocerebrosidase, N-acetyl-α-galactosaminidase, Tripeptidyl-peptidase 1	82657x4	$800
Morquio Syndrome (MPS IV) : Enzyme Panel	β-galactosidase, N-acetyl-galactosamine-6-sulfatase	82657x2	$400
Mucolipidosis II/III : Enzyme Panel (DBS)	Acid sphingomyelinase, α-iduronidase, α-mannosidase, β-glucosidase	82657x2	$400
Mucolipidosis II/III : Enzyme Panel (Plasma)	α-fucosidase, β-glucuronidase, β-hexosaminidase	82657x2	$400
Mucopolysaccharidosis (MPS) : Enzyme Panel	α-iduronidase, Acetyl CoA: glucosamine N acetyl transferase, Arylsulfatase B, β-galactosidase, β-glucuronidase, Heparan-N-sulfatase, Iduronate-2-sulfatase, N-acetyl glucosamine-6-sulfatase, N-acetyl-alpha-D-glucosaminidase, N-acetyl-galactosamine-6-sulfatase	82657x5	$1,000
Mucopolysaccharidosis (MPS) : Enzyme Panel (DBS)	α-iduronidase, Iduronate-2-sulfatase, N-acetyl-alpha-galactosaminidase, N-acetyl glucosamine-6-sulfatase, β-galactosidase, Arylsulfatase B, β-glucuronidase	82657x4	$800
Multiple Sulfatase Deficiency : Enzyme Panel	Arylsulfatase B, Iduronate-2-sulfatase, N-acetyl-galactosamine-6-sulfatase	82657x2	$400

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Enzyme Panels Cont.	Enzymes	CPT Codes	Price
Neurological (Sphingolipidoses) : Enzyme Panel	α-galactosidase, Acid sphingomyelinase, Arylsulfatase A, β-galactosidase, β-glucosidase, β-hexosaminidase, Galactocerebrosidase, Palmitoyl-protein thioesterase, Tripeptidyl peptidase 1	82657x3	$600
Oligosaccharidoses : Enzyme Panel	α-fucosidase, α-mannosidase, Aspartyglucosaminidase, β-galactosidase, β-mannosidase, N-acetyl alpha galactosaminidase,	82657x3	$600
Sanfilippo Syndrome (MPS III) : Enzyme Panel	Acetyl CoA: glucosamine N acetyl transferase, Heparan-N-sulfatase, N-acetyl glucosamine-6-sulfatase, N-acetyl-alpha-glucosaminidase	82657x4	$800

Biomarker/Monitoring Tests		CPT Code	Price
Alpha-mannosidosis : Serum Monitoring	Oligosaccharide	84379	$300
Gaucher Disease : Plasma Monitoring	Chitotriosidase	82657	$200
Hurler/Hunter Syndrome (MPS I/II) : Urine Monitoring	Total GAGs, DS, HS	83864x2	$300
Krabbe Disease	Psychosine	82542	$200
Maroteaux-Lamy Syndrome (MPS VI) : Urine Monitoring	Total GAGs, DS	83864x2	$300
Morquio Syndrome (MPS IV) : Urine Monitoring	Total GAGs, KS, CS	83864x2	$300
Pompe Disease, Glycogen Storage Disease Type II : Urine Monitoring	Glucose Tetrasaccharide (Glc4)	82570, 83789	$202
Sanfilippo Syndrome (MPS III) : Urine Monitoring	Total GAGs, HS	83864x2	$300
Sly Syndrome (MPS VII) : Urine Monitoring	Total GAGs, DS, CS	83864x2	$300

Analyte Analysis		CPT Code	Price
Acylcarnitine Profile		82017	$200
Amino Acid Quantitative Analysis (CSF, Plasma/Serum, Urine)		82139	$270
C5-DC (Glutarylcarnitine) Analysis		82017, 82570	$242
Carnitine Analysis, Total and Free (Plasma)		82379	$120
Creatine Biosynthesis Testing : Creatine/GAA (Plasma)		82542	$200
Creatine Biosynthesis Testing : Creatine/Creatinine/GAA (Urine)		82542	$200
Creatine Transporter Deficiency : Creatine/Creatinine Analysis (Urine)		82570, 82540	$90
Galactosemia : Galactose-1-Phosphate Analysis		84378	$200
Glucose Tetrasaccharide Analysis (Urine)		82570, 83789	$202
Homocysteine Analysis		83090	$100
Mucopolysaccharide (MPS) Analysis (Urine)	Total GAGs, DS, CS, KS, HS	83864x3	$450
Oligosaccharide Analysis (Urine)		84377	$250
Organic Acid Analysis		83919	$231
Orotic Acid Analysis		83921	$100
Sialic Acid Analysis		84275	$200
Total Glycosaminoglycans (GAGs) Analysis		83864	$150
Tryptophan Analysis		82131	$100

Analyte Panels		CPT Code	Price
Storage Disease: Analyte Panel (urine)	Includes: Mucopolysaccharide (MPS) Urine Analysis, Oligosaccharide Urine Analysis, and Siaclic Acid Analysis. Each can be ordered separately	83864x2, 84377, 84275	$900

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Chromosome Analysis		CPT Code	Price
Chromosome Analysis (Amniotic Fluid)		88235, 88267, 88280, 88285x5, 88291	$992
Chromosome Analysis (Bone Marrow)		88237, 88264, 88280x2, 88291	$890
Chromosome Analysis (CVS)		88235, 88267, 88280, 88285x5, 88291	$992
Chromosome Analysis (POC or Solid Tissue)		88233*, 88262, 88291	$704
Chromosome Analysis, High Resolution (Blood)		88230, 88262, 88289, 88291	$794
Chromosome Analysis, High Resolution; Rule Out Mosaic (Blood)		88230, 88263, 88285x5, 88289, 88291	$947
Chromosome Analysis, Routine (Blood)		88230, 88262, 88291	$602
Chromosome Analysis, Routine; Rule Out Mosaic (Blood)		88230, 88263, 88285x5, 88291	$755
Chromosome Analysis, Routine; Short Study (Blood)		88230, 88261, 88291	$530
Chromosome Analysis, Routine; Rule Out Mosaic (Amniotic Fluid)		88235, 88267, 88280, 88285x5, 88291	$992
Chromosome Analysis, Routine; Rule Out Mosaic (POC or Solid TIssue)		88233*, 88263, 88285x5, 88291	$857
Chromosome Analysis, Routine; Short Study (Amniotic Fluid)		88235, 88261, 88280, 88291	$692
Chromosome Analysis, Routine; Short Study (CVS)		88235, 88261, 88280, 88291	$692
Chromosome Analysis, Routine; Short Study (POC or Solid Tissue)		88233*, 88261, 88291	$632
Chromosome Analysis, Stimulated/Unstimulated (Blood)		88237, 88264, 88280x2, 88291	$890

*When sending multiple sample types, please use a multiplier equal to the number of samples submitted for CPT Code 88233.

Microarray Analysis		CPT Code	Price
Cytogenomic Microarray		81229	$1,950
Pregnancy Loss Microarray		81229	$1,950
Prenatal Microarray		81229	$1,950
Targeted Infertility Microarray		81405	$1,000

Array Confirmation		CPT Code	Price
Targeted Deletion/Duplication Analysis (qPCR) No charge for parents if proband testing was performed at Greenwood		Contact Lab	$350

Cell Culture Only		CPT Code	Price
Cell Culture Only (Amniotic Fluid)		88235	$312
Cell Culture Only (Blood)		88230	$240
Cell Culture Only (Chorionic Villus Sampling (CVS))		88235	$312
Cell Culture Only (Solid Tissue)		88233	$342

Optical Genome Mapping (OGM)		CPT Code	Price
Optical Genome Mapping - Complete		81354	$1,950
Optical Genome Mapping - FSHD1		81404	$1,550
Optical Genome Mapping - Targeted		81479	$1,450

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FISH Analysis	Chromosomal Region	CPT Code	Price
Angelman Syndrome	15q11q13	88275, 88273, 88271, 88291	$584
DiGeorge/VCF	22q11.2	88275, 88273, 88271, 88291	$584
Disorders of Sexual Development Panel	Includes SRY/Xcen & X/Y dual assay probes	88230, 88275, 88271x3, 88291	$896
Disorders of Sexual Development Panel, Routine (Buccal)	Includes SRY/Xcen & X/Y dual assay probes	88275, 88271x3, 88291	$656
Disorders of Sexual Development Panel, Rule Out Mosaic	Includes SRY/Xcen & X/Y dual assay probes	88230, 88275x2, 88271x3, 88291	$1,124
Disorders of Sexual Development Panel, Rule Out Mosaic (Buccal)	Includes SRY/Xcen & X/Y dual assay probes	88275x2, 88271x3, 88291	$884
Prader-Willi Syndrome	15q11q13	88275, 88273, 88271, 88291	$584
Trisomy 13 FISH, Rule Out Mosaic (Buccal)	13	88275x2, 88271x2, 88291	$758
Trisomy 18 FISH, Rule Out Mosaic (Buccal)	18	88275x2, 88271x2, 88291	$758
Trisomy 21 FISH, Rule Out Mosaic (Buccal)	21	88275x2, 88271x2, 88291	$758
Trisomy FISH Screen (13,18,21,X,Y) (Amniotic Fluid)	13,18,21,X,Y	88235, 88275, 88271x4, 88291	$1,094
Trisomy FISH Screen (13,18,21,X,Y) (Blood)	13,18,21,X,Y	88230, 88275x2, 88271x4, 88291	$1,250
Trisomy FISH Screen (13,18,21,X,Y) (Chrorionic Villus Sampling (CVS))	13,18,21,X,Y	88235, 88275x2, 88271x4, 88291	$1,322