

# 2012 CPT Code Updates

This publication is a summary of The American Medical Association Current Procedural Terminology (CPT) codes published in ARUP's Laboratory Test Directory effective January 1, 2012. Tests not listed in this summary do not have CPT code changes at this time. To receive a complete ARUP test list in electronic format, please contact Erica Cuttitta at (800) 242-2787 ext. 2059.

CPT codes provided are for informational purposes only. The codes reflect our interpretation of CPT coding requirements, based upon AMA guidelines published annually. CPT codes are provided only as guidance to assist clients with billing. ARUP strongly recommends that clients confirm CPT codes with their Medicare Administrative Contractor, or other payor as requirements may differ from one to another. CPT coding is the sole responsibility of the billing party. ARUP Laboratories assumes no responsibility for billing errors due to reliance on the CPT codes published.

The 2012 CPT code manual contains new codes for molecular pathology. At this publication, it is unclear how these codes will be handled in all cases. ARUP strongly recommends that clients confirm CPT codes with their Medicare Administrative Contractor, or other payors as requirements may differ from one to another. ARUP continues to evaluate this process with government and industry officials and will update you as information is made available.

Please direct any questions regarding CPT coding to the payor being billed.

Test Number	Test Name	2012 CPT Codes	2011 CPT Codes
0030133	Thrombotic Risk, Inherited Etiologies (Most Common) with Reflex to Factor V Leiden	85730 PTT 85240 F8 83090 Homocysteine 81240 F2 gene analysis 85307 APC resistance If reflexed add 81241 F5 gene analysis Leiden variant	85730 PTT; 85240 F8; 83090 tHcy; 83891 Isolation; 83898 Amplification; 83896 Nucleic acid probes; 83912 Int/report; 85307 APC; if reflexed, add 83891 Isolation; 83898 Amplification; 83896 Nucleic acid probes; 83912 Int/report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0030192	APC Resistance Profile with Reflex to Factor V Leiden	85307 APC resistance If reflexed add 81241 F5 gene analysis Leiden variant	85307 APC; if reflexed, add 83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83912 Interpretation and report; - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040011	Fragile X (FMR1) Diagnostic	81244 FMR1 characterization of alleles	PCR: 83891 Isolation; 83898 x2 Amplification; 83909 Capillary electrophoresis Southern Blot: 83891 Isolation; 83892 x2 Digestion; 83894 Gel Separation; 83897 Southern transfer; 83896 Nucleic acid probe; 83912 Interpretation & report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040018	Huntington Disease (HD) Mutation with Reflex to Southern Blot	81401 Molecular Pathology Procedure Level 2 If reflexed add 81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 Amplification; 83909 Separation and identification; 83912 Interpretation and report; If reflexed to Southern blot, add 83891 Isolation; 83892 Digestion; 83894 Separation by gel electrophoresis; 83897 Southern transfer; 83896 Nucleic acid probe - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0040113	PAX-FKHR Translocation by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83907 Lysis; 83902 Reverse transcription; 83898 x3 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040114	SYT-SSX, t(X;18) Transloc by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040116	Haptoglobin (HP) Genotyping	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040132	KIT (D816V) Mutation by PCR, Tissue	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 x2 Amplification; 83914 Mutation identification; 83894 Gel separation; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040136	KIT (D816V) Mutation by PCR, Paraffin	81400 Molecular Pathology Procedure Level 1	83907 Lysis; 83891 Isolation; 83898 x2 Amplification; 83914 Mutation identification; 83894 Gel separation; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited diso...
0040137	KIT (D816V) Mutation by PCR, Fluid	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 x2 Amplification; 83914 Mutation identification; 83894 Gel separation; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0040168	JAK2 Gene, V617F Mutation, Quantitation	81270 JAK2 gene analysis	83891 Isolation; 83898 x2 Amplification; 83896 Nucleic Acid Probe; 83912 Interpretation and report
0040174	NPM1 Mutation, Fluid	81310 NPM1 gene analysis	83891 Isolation; 83898 Amplification; 83896 Nucleic acid probe; 83909 Capillary electrophoresis; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic disorders.
0040179	NPM1 Mutation, Paraffin	81310 NPM1 gene analysis	83907 Lysis; 83891 Isolation; 83898 Amplification; 83896 Nucleic acid probe; 83909 Capillary electrophoresis; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic disorders.
0040248	KRAS Mutation Detection	81275 KRAS gene analysis	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83904 x2 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.
0049390	HER2 Gene Amplification by PCR, Paraffin	81401 Molecular Pathology Procedure Level 2	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050098	Cystic Fibrosis (CFTR) 3199del6 Mutation	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0050388	Beta Globin (HBB) Sequencing, Fetal	81404 Molecular Pathology Procedure Level 5 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83898 x4 Amplification; 83894 Gel separation; 83904 x3 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification; 83901 x14 Additional Amplification; 83909 Capillary electrophoresis. For MCC Maternal cell (0050608) add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report.
0050392	Ankylosing Spondylitis (HLA-B27) Genotyping	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050421	RhCc Antigen (RHCE) Genotyping	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83896 x4 Nucleic acid probes; 83898 x2 Amplification; 83912 Interpretation and report Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050423	RhEe Antigen (RHCE) Genotyping	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83896 x2 Nucleic acid probes; 83898 Amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050444	<i>RUNX1-RUNX1T1 (AML1-ETO)</i> Translocation, t(8;21) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050446	<i>MLL-AFF1 (MLL-AF4)</i> Translocation, t(4;11) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050543	Fragile X (FMR1) Diagnostic, Fetal	81244 FMR1 characterization of alleles 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	PCR: 83891 Isolation; 83898 x2 Amplification; 83909 Capillary electrophoresis Southern Blot: 83891 Isolation; 83892 x2 Digestion; 83894 Gel separation; 83897 S. trans; 83896 Nucleic acid probe; 83912 Interpretation and report Fetal Cell Contamination (FCC): 83900 Amplification multiplex; 83901 x14 Amplification; 83909 Capillary electrophoresis Maternal Cell Contamination (MCC) (0050608): 83891 Isolation; 83900 Amplification; 83901 x 14 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0050547	Twin Zygosity Testing	81265 STR Markers specimen	83891 Isolation; 83909 Separation and identification; 83900 Amplification; 83901 x14 Multiplex amplification; 83912 Interpretation and report
0050578	Beta Globin (HBB) Gene Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x4 Amplification; 83894 Gel electrophoresis; 83904 x3 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051103	Cytochrome P450 2C9 (CYP2C9) 2 Mutations	81227 CYP2C9 gene common variant	83891 Isolation; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051104	Cytochrome P450 2C19 (CYP2C19) 9 Mutations	81225 CYP2C19 gene common variant	83891 Isolation; 83900 Multiplex Amplification; 83901 x4 Additional Amplification; 83914 x18 Extension; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051110	Cystic Fibrosis (CFTR) Sequencing	81223 CFTR full gene sequence	83891 Isolation; 83898 x32 Amplification; 83904 x32 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051175	Galactosemia, (GALT) Enzyme Activity & 9 Mutations	82775 GALT quantitative 81401 Molecular Pathology Procedure Level 2	82775 Enzymatic; 83891 Isolation; 83898 Amplification; 83914 x9 Mutation identification; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051176	Galactosemia, (GALT) 9 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 Amplification; 83914 x9 Mutation identification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051205	Medium Chain Acyl-CoA Dehydrogenase (ACADM) 2 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051220	Ewing's Sarcoma by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x3 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic and inherited disorders.
0051232	Cytochrome P450 2D6 (CYP2D6) 14 Mutations & Gene Duplication	81226 CYP2D6 gene common variant	83891 Isolation; 83900 Amplification multiplex; 83901 x6 Amplification; 83914 x12 Mutation identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051245	JAK2 Gene, V617F Mutation, Qualitative	81270 JAK2 gene variant	83891 Isolation; 83900 Multiplex; 83914 Mutation identification; 83894 Gel separation; 83912 Interpretation and report.
0051256	Alpha-1-Antitrypsin (SERPINA1) Enzyme Concentration and 2 Mutations with Reflex to Alpha-1-Antitrypsin Phenotype	81332 SERPINA1 gene variant If reflexed, add 82104 Phenotype	82103 A1A; 83891 Isolation; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report. If reflexed, add 82104 Phenotype. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051262	Ewing's Sarcoma ERG Translocation by RT-PCR	81401 Molecular Pathology Procedure Level 2	83898 Amplification; 83896 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedure performed to test for oncologic or inherited disorders.

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0051265	Achondroplasia (FGFR3) 2 Mutations, Fetal	81400 Molecular Pathology Procedure Level 1 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report. FCC: 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis. MCC MAT (0050608): 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis, 83912 Interpretation and report.
0051266	Achondroplasia (FGFR3) 2 Mutations	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051270	Galactosemia, (GALT ) 9 Mutations, Fetal	81401 Molecular Pathology Procedure Level 2 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83898 Amplification; 83914 x9 Mutation identification; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Amplification multiplex (first two sequences); 83901 x14 Amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Amplification multiplex (first two sequences); 83901 x14 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncological or inherited disorders.
0051288	Beta-2-Adrenergic Receptor (ADBR2) Haplotyping	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051308	Platelet Antigen Genotyping Panel	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x7 Amplification; 83896 x14 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051309	Platelet Antigen 1 Genotyping (HPA-1)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051310	Platelet Antigen 2 Genotyping (HPA-2)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051311	Platelet Antigen 3 Genotyping (HPA-3)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051312	Platelet Antigen 5 Genotyping (HPA-5)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051313	Platelet Antigen 6 Genotyping (HPA-6)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051314	Platelet Antigen 15 Genotyping (HPA-15)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051332	UDP Glucuronosyltransferase 1A1 (UGT1A1) Genotyping	81350 UGT1A1 gene common variant	83891 Isolation; 83898 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report
0051346	Galactosemia (GALT) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x7 Amplification; 83904 x7 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report
0051348	Hereditary Hemorrhagic Telangiectasia (ACVRL1 and ENG) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x2 Nucleic Acid Probes; 83914 x2 Extension; 83898 x2 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051367	Hypochondroplasia (FGFR3) 1 Mutation	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures to test for oncologic or inherited disorders.
0051368	RhD Antigen (RhD) Genotyping	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x3 Amplification; 83896 x6 Nucleic acid probes; 83912 Interpretation and report Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051370	Warfarin Sensitivity (CYP2C9 & VKORC1 ) 3 Mutations	81227 CYP2C9 gene common variant 81355 VKORC1 gene common variant	83891 Isolation; 83898 x3 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders
0051374	Connexin 26 (GJB2), Sequencing	81403 Molecular Pathology Procedure Level 4	83891 Isolation: 83898 x2 Amplification; 83904 x3 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report.
0051378	Rett Syndrome (MECP2), Full Gene Sequencing	81302 MECP2 full sequence analysis	83891 Isolation; 83898 x7 Amplification; 83904 x6 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report.
0051381	Hereditary Hemorrhagic Telangiectasia (ACVRL1 and ENG) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x23 Amplification; 83904 x23 Sequencing; 83909 x2 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051382	Hereditary Hemorrhagic Telangiectasia (ACVRL1 and ENG) Sequencing & Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x23 Amplification; 83904 x23 Sequencing; 83909 x2 Capillary electrophoresis; Del/Dup: 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051383	Hearing Loss, Nonsyndromic, Connexin 26 (GJB2) 35delG Mutation	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83896 x2 Nucleic acid probes; 83912 Interpretation and report
0051390	Multiple Endocrine Neoplasia Type 2 (MEN2), RET Gene Mutations by Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x6 Amplification; 83904 x6 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report

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0051415	Ashkenazi Jewish Diseases (BLM, ASPA, IKBKAP, FANCC, GBA, MCOLN1, SMPD1, HEXA)	<p>81209 BLM gene variant variant</p> <p>81200 ASPA gene common variant</p> <p>81260 IKBKAP gene common variant</p> <p>81242 FANCC gene common variant</p> <p>81251 GBA gene common variant common variant</p> <p>81290 MCOLN1 gene common variant</p> <p>81330 SMPD1 gene common variant</p> <p>81255 HEXA gene common variant common variant</p>	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex (first two amplifications); 83901 x16 Amplification multiplex (each additional amplification); 83914 x31 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051421	Beta Globin (HBB) HbS, HbC, & HbE Mutations	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 x2 Amplification; 83896 x3 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051422	Beta Globin (HBB) HbS, HbC, and HbE Mutations, Fetal	<p>81401 Molecular Pathology Procedure Level 2</p> <p>81265 STR Markers specimen</p> <p>If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen</p>	83891 Isolation; 83898 x2 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC Maternal Cell (0050608) is performed, add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051428	Tay-Sachs (HEXA) 7 Mutations	81255 HEXA gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex (first two amplifications); 83901 x3 Amplification multiplex (each additional amplification); 83914 x7 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051429	Tay-Sachs (HEXA) 7 Mutations, Fetal	<p>81255 HEXA gene common variant</p> <p>81265 STR Markers specimen</p> <p>If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen</p>	83891 Isolation; 83892 x2 Digestion; 83900 Multiplex amplification (first two amplifications); 83901 x3 Additional amplification; 83914 x7 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051433	Bloom (BLM) 2281del6/ins7 Mutation	81209 BLM gene variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83898 Amplification; 83914 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051434	Bloom (BLM) 2281del6/ins7 Mutation, Fetal	81209 BLM gene variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051438	Gaucher (GBA) 8 Mutations	81251 GBA gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex; 83914 x8 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051439	Gaucher (GBA) 8 Mutations, Fetal	81251 GBA gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83900 Multiplex amplification; 83914 x8 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051448	Mucopolipidosis, Type IV (MCOLN1) 2 Mutations	81290 MCOLN1 gene common variant	83891 Isolation; 83892 x2 Digestion; 83900 Amplification multiplex; 83914 x2 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051449	Mucopolipidosis, Type IV (MCOLN1) 2 Mutations, Fetal	81290 MCOLN1 gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83900 Multiplex amplification; 83914 x2 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorder.
0051453	Canavan Disease (ASPA) 4 Mutations	81200 ASPA gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex (first two amplifications); 83901 Amplification multiplex (each additional amplification) 83914 x5 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051454	Canavan (ASPA) 4 Mutations, Fetal	81200 ASPA gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83900 Multiplex amplification (first two amplifications); 83901 Additional amplification; 83914 x5 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051458	Niemann-Pick, Type A (SMPD1) 4 Mutations	81330 SMPD1 gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex; 83914 x4 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051459	Niemann-Pick, Type A (SMPD1) 4 Mutations, Fetal	81330 SMPD1 gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83900 Multiplex amplification; 83914 x4 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051463	Dysautonomia, Familial (IKBKAP) 2 Mutations	81260 IKBKAP gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83898 Amplification; 83914 x2 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051464	Dysautonomia, Familial (IKBKAP) 2 Mutations, Fetal	81260 IKBKAP gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83898 Amplification; 83914 x2 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification (first two sequences); 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051468	Fanconi Anemia, Group C (FANCC) 2 Mutations	81242 FANCC gene common variant	83891 Isolation; 83892 x2 Enzymatic digestion; 83900 Amplification multiplex; 83914 x2 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051469	Fanconi Anemia, Group C (FANCC) 2 Mutations, Fetal	81242 FANCC gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83892 x2 Digestion; 83900 Amplification multiplex; 83914 x2 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report. FCC: 83900 Amplification multiplex (first two sequences); 83901 x14 Amplification; 83909 Capillary electrophoresis. If MCC MAT (0050608) is performed: 83891 Isolation; 83900 Amplification multiplex; 83901 x14 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051476	Glaucoma (Primary Congenital), CYP1B1 Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x4 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051490	Platelet Antigen 4 Genotyping (HPA-4)	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051492	Multiple Endocrine Neoplasia, Type 2B (RET) 2 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051495	Alpha Thalassemia (HBA1 & HBA2) 7 Deletions	81257 HBA1/HBA2 gene common deletion or variant	83891 Isolation; 83900 Amplification multiplex; 83901 x8 Additional amplification; 83894 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051506	Thanatophoric Dysplasia, Types 1 & 2 (FGFR3) 13 Mutations	81402 Molecular Pathology Procedure Level 3	83891 Isolation; 83900 Multiplex amplification; 83901 x2 Additional amplification; 83914 x9 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051508	Thanatophoric Dysplasia, Types 1 & 2 (FGFR3) 13 Mutations, Fetal	81402 Molecular Pathology Procedure Level 3 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83900 Multiplex amplification; 83901 x2 Additional amplification; 83914 x9 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis. For MCC Maternal cell (0050608) add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT Codes may be required for procedures performed to test for oncologic or inherited disorders.
0051510	Juvenile Polyposis (SMAD4) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x12 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report- Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051614	Rett Syndrome (MECP2), Full Gene Analysis	81302 MECP2 full sequence analysis 81304 MECP2 gene duplication/deletion variant	Rett sequencing: 83891 Isolation; 83898 x7 Amplification; 83904 x6 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. RETT MLPA: 83896 Nucleic acid probe; 83914 Extension; 83898 Amplification; 83909 Capillary electrophoresis.

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0051618	Rett Syndrome (MECP2), Deletion and Duplication	<b>81304 MECP2 gene duplication/deletion variant</b>	83891 Isolation; 83896 Nucleic acid probes; 83914 Extension; 83898 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report.
0051640	Cystic Fibrosis (CFTR) Sequencing with Reflex to Deletion/Duplication	<b>81223 CFTR full gene sequence</b> <b>If reflexed to Deletion/Duplication, add 81222 CFTR gene duplication/deletion variant</b>	Sequencing: 83891 Isolation; 83898 x32 Amplification; 83904 x32 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to Deletion/Duplication, add 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051642	Cystic Fibrosis (CFTR) Deletion/Duplication	<b>81222 CFTR gene duplication/deletion variant</b>	83891 Isolation; 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051644	Kell K/k Antigen (KEL) Genotyping	<b>81400 Molecular Pathology Procedure Level 1</b>	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051650	HNPCC/Lynch Syndrome (MLH1) Sequencing and Deletion/Duplication	<b>81292 MLH1 full sequence analysis</b> <b>81294 MLH1 gene duplication/deletion variant</b>	Sequencing portion: 83891 Isolation; 83898 x20 Amplification; 83904 x20 Sequencing; 83909 x2 Capillary electrophoresis; Del: 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051654	HNPCC/Lynch Syndrome (MSH2) Sequencing and Deletion/Duplication	<b>81295 MSH2 full sequence analysis</b> <b>81297 MSH2 gene duplication/deletion variant</b> <b>81402 Molecular Pathology Procedure Level 3</b>	Sequencing portions: 83891 Isolation; 83898 x20 Amplification; 83904 x20 Sequencing; 83909 x2 Capillary electrophoresis; Del: 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051656	HNPCC/Lynch Syndrome (MSH6) Sequencing and Deletion/Duplication	<b>81298 MSH6 full sequence analysis</b> <b>81300 MSH6 gene duplication/deletion variant</b>	Sequencing: 83891 Isolation; 83898 x19 Amplification; 83904 x19 Sequencing; 83909 x2 Capillary electrophoresis. Del: 83896 x10 Nucleic Acid Probes; 83898 x10 Amplification; 83914 x10 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051674	Macular DeGeneration, Age-Related, 2 DNA Markers	<b>81401 Molecular Pathology Procedure Level 2</b>	83891 Isolation; 83900 Amplification; 83896 x4 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051682	Primary Carnitine Deficiency (SLC22A5) Sequencing	<b>81405 Molecular Pathology Procedure Level 6</b>	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051684	Glucose-6-Phosphate Dehydrogenase (G6PD) 2 Mutations	<b>81401 Molecular Pathology Procedure Level 2</b>	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0051700	Biotinidase Deficiency (BTD) 5 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification; 83901 x2 Additional amplification; 83914 x5 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051710	Alport Syndrome, X-linked (COL4A5) 3 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 Amplification; 83900 Multiplex amplification; 83896 x 6 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051730	Biotinidase Deficiency (BTD) Sequencing	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x6 Amplification; 83904 x6 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report.
0051737	HNPCC/Lynch Syndrome (PMS2) Sequencing and Deletion/Duplication	81317 PMS2 full gene sequence 81319 PMS2 gene duplication/deletion variant If pseudogene analysis is performed, add 81404 Molecular Pathology Procedure Level 5	Sequencing: 83891 Isolation; 83898 x18 Amplification; 83904 x15 Sequencing; 83909 Capillary electrophoresis. Del/Dup: 83896 x15 Nucleic Acid Probes; 83898 x15 Amplification; 83914 x15 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. If pseudogene analysis is performed, add: 83898 x6 Amplification; 83904 x5 Sequencing; 83909 Capillary electrophoresis. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051740	HNPCC/Lynch Syndrome, Microsatellite Instability by PCR	81301 Microsatellite instability	83907 x2 Lysis; 83891 x2 Isolation; 83898 x7 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051750	BRAF codon 600 Mutation Detection with Reflex to MLH1 Promoter Methylation	81210 BRAF gene variant. If reflexed add 81401 Molecular Pathology Procedure Level 2	83907 Lysis; 83831 Microdissection; 83904 Sequencing; 83898 Amplification; 83912 Interpretation and report; if reflexed, add 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83912 Interpretation and report. Additional CPT code modifiers may be required
0051752	FG Syndrome, FGS1 (MED12) R961W Mutation	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x 2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedure performed to test oncologic or inherited disorders.
0051755	Molar Pregnancy, 16 DNA Markers	81265 STR Markers specimen	83907 x2 Lysis; 83891 x2 Isolation; 83898 x32 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051758	Medium Chain Acyl-CoA Dehydrogenase Deficiency (ACADM) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x 12 Amplification; 83904 x 12 Sequencing; 83909 capillary electrophoresis; 83912 Interpretation and report. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051786	Alport Syndrome, X-linked (COL4A5) Sequencing	81408 Molecular Pathology Procedure Level 9	83891 Isolation; 83898 x46 Amplification; 83904 x46 Sequencing; 83909 x2 capillary electrophoresis; 83912 Interpretation and report. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0051805	Noonan Syndrome (PTPN11) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x15 Amplification; 83904 x15 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0055346	<i>TCF3-PBX1</i> (E2A-PBX1) Translocation, t(1;19) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; ; 83898 x2 Amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055552	B-Cell Clonality by PCR, Fluid	81261 IGH gene rearrangement analysis	83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055553	<i>BCR-ABL</i> , t(9;22) Translocation Qualitative by RT-PCR	81206 <i>BCR/ABL1</i> translocation analysis; 81207 <i>BCR/ABL1</i> gene minor breakpoint	83891 Isolation; 83902 Reverse transcription; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055556	B-Cell Clonality Screening Assay by PCR, Tissue	81261 IGH gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055557	<i>IGH-CCND1</i> (BCL-1/JH) Translocation, t(11;14) by PCR, Fluid	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x3 Amplification; 83894 x2 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055564	<i>IGH-CCND1</i> (BCL-1/JH) Translocation, t(11;14) by PCR, Tissue	81401 Molecular Pathology Procedure Level 2	83907 Lysis; 83891 Isolation; 83898 x3 Amplification; 83894 x2 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055566	Apolipoprotein E (APOE) 2 Mutations, Cardiovascular Risk	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055567	T-Cell Clonality by PCR, Fluid	81342 TRG gene rearrangement analysis	83891 Isolation; 83898 x4 Amplification; 83896 x3 Nucleic acid probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055568	T-Cell Clonality Screening Assay by PCR, Tissue	81342 TRG gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x4 Amplification; 83896 x3 Nucleic Acid Probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055590	B-Cell Clonality Assessment by Restriction Fragment-Southern Blot Hybridization, Tissue	81262 IGH direct probe methodology	83907 Lysis; 83891 Isolation; 83892 x4 Digestion; 83894 Gel Electrophoresis; 83897 Southern Transfer; 83896 Nucleic Acid Probe; 83912 Interpretation and report - - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055592	B-Cell Clonality Assessment by Restriction Fragment Southern Blot Hybridization, Fluid	81262 IGH direct probe methodology	83891 Isolation; 83892 x4 Enzymatic digestion; 83894 Gel separation; 83897 Southern transfer; 83896 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0055594	T-Cell Clonality Assessment by Restriction Fragment-Southern Blot Hybridization, Tissue	81341 TRB@ direct probe methodology	83907 Lysis; 83891 Isolation; 83892 x3 Digestion; 83894 Gel electrophoresis; 83897 Southern transfer; 83896 Nucleic acid probe; 83912 Interpretation and report - - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055596	T-Cell Clonality Assessment by Restriction Fragment-Southern Blot Hybridization, Fluid	81341 TRB@ direct probe methodology	83891 Isolation; 83892 x3 Digestion; 83894 Gel Electrophoresis; 83897 Southern transfer; 83896 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inheri...
0055610	B-Cell and T-Cell Clonality Assessment by PCR, Fluid	81261 IGH gene rearrangement analysis 81342 TRG gene rearrangement analysis	83891 Isolation; 83898 x9 Amplification; 83894 x3 Gel electrophoresis; 83896 x3 Nucleic Acid Probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for o
0055611	B-Cell and T-Cell Clonality Assessment by PCR, Tissue	81261 IGH gene rearrangement analysis 81342 TRG gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x9 Amplification; 83894 x3 Gel electrophoresis; 83896 x3 Nucleic acid probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed
0055612	B-Cell and T-Cell Comprehensive Clonality Assessment, Fluid	81261 IGH gene rearrangement analysis 81342 TRG gene rearrangement analysis 81262 IGH direct probe methodology 81341 TRB@ direct probe methodology	83891 Isolation; 83898 x9 Amplification; 83894 x5 Gel electrophoresis; 83896 x5 Nucleic acid probes; 83909 x4 Capillary electrophoresis; 83892 x7 Digestion; 83897 x2 Southern transfer; 83912 Interpretation and report - Additional CPT code modifiers may b
0055613	B-Cell and T-Cell Comprehensive Clonality Assessment, Tissue	81261 IGH gene rearrangement analysis 81342 TRG gene rearrangement analysis 81262 IGH direct probe methodology 81341 TRB@ direct probe methodology	83907 Lysis; 83891 Isolation; 83898 x9 Amplification; 83894 x5 Gel electrophoresis; 83896 x5 Nucleic acid probes; 83909 x4 Capillary electrophoresis; 83892 x7 Digestion; 83897 x2 Southern transfer; 83912 Interpretation and report - Additional CPT code mo
0055616	IGH-BCL2 (BCL-2/JH) Translocation, t(14;18) by PCR, Fluid	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055619	IGH-BCL2 (BCL-2/JH) Translocation, t(14;18) by PCR, Tissue	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055622	IGH-CCND1 (BCL-1/JH) Translocation, t(11;14) by PCR, Paraffin	81401 Molecular Pathology Procedure Level 2	83907 Lysis; 83891 Isolation; 83898 x3 Amplification; 83894 x2 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055625	IGH-BCL2 (BCL-2/JH) Translocation, t(14;18) by PCR, Paraffin	81401 Molecular Pathology Procedure Level 2	83907 Lysis; 83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055626	B-Cell Clonality Screening Assay by PCR, Paraffin	81261 IGH gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055627	B-Cell and T-Cell Clonality Assessment by PCR, Paraffin	81261 IGH gene rearrangement analysis 81342 TRG gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x9 Amplification; 83894 x3 Gel electrophoresis; 83896 x3 Nucleic Acid Probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed

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0055631	T-Cell Clonality Screening Assay by PCR, Paraffin	81342 TRG gene rearrangement analysis	83907 Lysis; 83891 Isolation; 83898 x4 Amplification; 83896 x3 Nucleic acid probes; 83909 x4 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inhe
0055654	Apolipoprotein B (APOB) Mutation Detection	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055655	Methylenetetrahydrofolate Reductase (MTHFR) 2 Mutations	81291 MTHFR gene common variant	83891 Isolation; 83900 Molecular diagnostics; 83896 x4 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055656	Hemochromatosis (HFE) 3 Mutations	81256 HFE gene common variant	83891 Isolation; 83900 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0055691	<i>BIRC2-MALT1 (API2-MALT1)</i> Translocation, t(11;18) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x3 Amplification; 83894 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0056003	Cystic Fibrosis (CFTR) 5T Mutation	81224 CFTR gene intron 8 poly-T analysis	83891 Isolation; 83900 Multiplex amplification; 83901 x31 Additional amplification; 83914 x2 OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report
0056006	Cystic Fibrosis Cis-Trans (CFTR) R117H & 5T Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Amplification; 83901 Multiplex amplification; 83914 x4 Mutation identification; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0056008	<i>ETV6-RUNX1 (TEL-AML1)</i> Translocation, t(12;21) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0056060	Prothrombin (F2) G20210A Mutation	81240 F2 gene analysis A variant	83891 Isolation; 83898 Amplification; 83896 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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0056200	Thrombotic Risk, DNA Panel	81241 F5 gene analysis Leiden variant 81240 F2 gene analysis A variant 81291 MTHFR gene common variant	Factor V Leiden (F5) R506Q Mutation: 83891 Isolation; 83898 Amplification; 83896 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders. Methylenetetrahydrofolate Reductase (MTHFR) 2 Mutations: 83891 Isolation; 83900 Molecular diagnostics; 83896 x4 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders. Prothrombin (F2) G20210A Mutation: 83891 Isolation; 83898 Amplification; 83896 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0092209	CBFB-MYH1, inv(16) by RT-PCR	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x5 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
0097720	Factor V Leiden (F5) R506Q Mutation	81241 F5 gene Leiden variant	83891 Isolation; 83898 Amplification; 83896 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001578	Hemophilia B (F9) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x8 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001582	Alpha Thalassemia (HBA1 & HBA2) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x2 Amplification; 83904 x6 Sequencing; 83909 capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001614	Hemophilia A (F8) 2 Inversions with Reflex to Sequencing and Reflex to Deletion/Duplication	81403 Molecular Pathology Procedure Level 4. If reflexed to F8 sequencing, add 81407 Molecular Pathology Procedure Level 8. If reflexed to F8 Del/Dup, add 81406 Molecular Pathology Procedure Level 7.	Inversion: 83891 Isolation; 83892 x2 Digestion; 83914 x2 Ligation; 83898 Amplification; 83894 Gel separation; 83912 Interpretation and report. If reflexed to sequencing, add 83891 Isolation; 83898 x34 Amplification; 83904 x34 Sequencing; 83909 Capillary electrophoresis. If reflexed to Deletion/Duplication, add 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001728	HNPCC/Lynch Syndrome Deletion/Duplication	If ordered for MLH1, 81294 MLH1 gene duplication/deletion variant If ordered for MSH2, 81297 MSH2 gene duplication/deletion variant and 81402 Molecular Pathology Procedure Level 3 If ordered for MSH6, 81300 MSH6 gene duplication/deletion variant If ordered for PMS2, 81319 PMS2 gene duplication/deletion variant If sequencing is performed add 81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x10 Nucleic Acid probes; 83898 x10 Amplification; 83914 x10 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report. If sequencing is performed for PMS2, add 83898 x10 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2001747	Hemophilia A (F8) Sequencing	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83898 x34 Amplification; 83904 x34 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001751	Hemophilia A (F8) Deletion/Duplication	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001755	Hemophilia A (F8) 2 Inversions, Fetal	81403 Molecular Pathology Procedure Level 4 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	Inversion: 83891 Isolation; 83892 x2 digestion; 83914 x2 Extension; 83898 Amplification; 83894 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders. FCC: 83900 Multiplex amplification; 83901 x14 Additional Amplification; 83909 Capillary electrophoresis. If MCC Maternal cell (0050608) is performed, add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report.
2001759	Hemophilia A (F8) 2 Inversions	81403 Molecular Pathology Procedure Level 4	Inversion: 83891 Isolation; 83892 x2 digestion; 83914 x2 Extension; 83898 Amplification; 83894 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001778	Y Chromosome Microdeletion	81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83900 Amplification, 83901 x8 Multiplex amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001932	KRAS Mutation Detection with Reflex to BRAF Codon 600 Mutation Detection	81275 KRAS gene variants; if reflexed add 81210 BRAF gene variant	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83904 x2 Sequencing; 83912 Interpretation and report, if reflexed, add 83898 Amplification; 83904 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for p
2001933	Cystic Fibrosis (CFTR) 32 Mutations	81220 CFTR gene common variant	83891 Isolation; 83900 Amplification; 83901 x30 Multiplex amplification; 83914 x32 OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001946	Fragile X (FMR1) Screen with Reflex to Fragile X (FMR1) Diagnostic	81243 FMR1 gene analysis If reflexed, add 81244 FMR1 characterizaation of alleles	83891 Isolation; 83898 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation & report; if reflexed, add PCR: 83891 Isolation; 83898 x2 Amplification; 83909 Capillary electrophoresis. Southern Blot: 83891 Isolation; 83892 x2 Digestion; 83894 Gel Separation; 83897 Southern transfer; 83896 Nucleic acid probe; 83912 Interpretation & report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2001952	Neurofibromatosis Type 1 (NF1) Deletion/Duplication	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83896 x2 Nucleic acid probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 x2 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001956	Hearing Loss, Nonsyndromic, Connexin 30 (GJB6) 2 Deletions	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification; 83901 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001961	Familial Mutation, Targeted Sequencing	81403 Molecular Pathology Procedure Level 4 Add the following for each additional mutation: 81403 Molecular Pathology Procedure Level 4; may change depending on gene of interest.	83891 Isolation; 83898 Amplification; 83904 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Add the following for each additional mutation: 83898 Amplification; 83904 Sequencing - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001967	Cystic Fibrosis (CFTR) 32 Mutations with Reflex to Sequencing and Reflex to Deletion/Duplication	81220 CFTR gene common variant. If reflexed to CFTR Sequencing: 81223 CFTR full gene sequence If reflexed to CFTR Del/Dup: 81222 CFTR gene duplication/deletion variant	83891 Isolation; 83900 Multiplex amplification; 83901 x30 Additional amplification; 83914 x32 OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to sequencing, add 83891 Isolation; 83898 x32 Amplification; 83904 x32 Sequencing; 83909 Capillary electrophoresis. If reflexed to Deletion/Duplication, add 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001968	Cystic Fibrosis (CFTR) 32 Mutations with Reflex to Sequencing	81220 CFTR gene common variant If reflexed to CFTR Sequencing: 81223 CFTR full gene sequence	83891 Isolation; 83900 Multiplex amplification; 83901 x30 Additional amplification; 83914 x32 OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to sequencing, add 83891 Isolation; 83898 x32 Amplification; 83904 x32 Sequencing; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001969	Cystic Fibrosis (CFTR) 32 Mutations, Atypical	81220 CFTR gene common variant 81224 CFTR gene intron 8 poly-T analysis	83891 Isolation; 83900 Amplification; 83901 x30 Multiplex amplification; 83914 x33 OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001970	Cystic Fibrosis (CFTR) 32 Mutations, Fetal	81220 CFTR gene common variant 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83900 Multiplex amplification; 83901 x30 Additional amplification; 83914 x32 Mutation identification by OLA; 83909 Capillary electrophoresis; 83912 Interpretation and report. FCC: 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC Maternal Cell (0050608) is performed, add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2001971	Juvenile Polyposis (SMAD4) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x12 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; Del/Dup; 83896 Nucleic Acid Probes; 83914 Extension; 83898 Amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001976	Juvenile Polyposis (SMAD4) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001980	Familial Mutation, Targeted Sequencing, Fetal	81403 Molecular Pathology Procedure Level 4 Add the following for each additional mutation: 81403 Molecular Pathology Procedure Level 4; may change due to gene of interest 81265 STR Markers specimen If Maternal Cell Contamination is performed add 81266 STR Markers each additional specimen	83891 Isolation; 83898 Amplification; 83904 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Add the following for each additional mutation: 83898 Amplification; 83904 Sequencing. FCC: 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis. If MCC Maternal Cell (0050608) is performed, add: 83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2001992	Hearing Loss, Nonsyndromic Panel (GJB2) Sequencing, (GJB6) 2 Deletions and Mitochondrial DNA 2 Mutations	81404 Molecular Pathology Procedure Level 5 81403 Molecular Pathology Procedure Level 4	GJB2: 83891 Isolation; 83898 x2 Amplification; 83904 x3 Sequencing; 83909 Capillary electrophoresis. GJB6: 83900 Amplification; 83901 Multiplex Amplification; 83909 Capillary electrophoresis. mt DNA: 83898 x2 Amplification; 83904 x2 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002001	Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (ACADVL) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x11 Amplification; 83904 x11 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002005	Pancreatitis, Idiopathic (CFTR, PRSS1, SPINK1) Sequencing	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83898 x41 Amplification; 83904 x41 Sequencing; 83909 x2 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002012	Pancreatitis, Idiopathic (SPINK1) Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x4 Amplification; 83904 x4 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002016	Pancreatitis, Hereditary (PRSS1) Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x5 Amplification; 83904 x5 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2002044	Hearing Loss, Nonsyndromic, Mitochondrial DNA 2 Mutations	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 x2 Amplification; 83904 x2 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002064	Chimerism, Post-Transplant, Sorted Cells	81268 Chimerism with cell selection	83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002065	Chimerism, Recipient Pre-Transplant	81265 STR Markers specimen	83891 Isolation; 83900 Multiplex amplification; 83901 x14 Additional amplification; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002066	Chimerism, Post-Transplant	81267 Chimerism without cell selection	83891 Isolation; 83900 Multiplex amplification; 83901 x14 Multiplex amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002067	Chimerism, Donor	81265 STR Markers specimen	83891 Isolation; 83900 Multiplex amplification; 83901 x14 Multiplex amplification; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002357	JAK2 Exon 12 Mutation Analysis by PCR	81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83898x2 Amplification; 83894 x2 Gel separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002366	Microarray Genomic, Fetal	81229 Microarray analysis interrogation of variant	88235 Tissue culture amniotic fluid or CVS; 88386 x6 Array based evaluation of multiple molecular probes 251 through 500 probes; 83891 x2 isolation or extraction of highly purified nucleic acid - Additional CPT codes modifiers may be required for procedures performed to test for oncologic or inherited disorders
2002394	Alport Syndrome, X-linked (COL4A5) Deletion/Duplication	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83896 x2 Nucleic acid probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 x2Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002398	Alport Syndrome, X-linked (COL4A5) Sequencing and Deletion/Duplication	81408 Molecular Pathology Procedure Level 9 81407 Molecular Pathology Procedure Level 8	Sequencing: 83891 Isolation; 83898 x46 Amplification; 83904 x46 Sequencing; 83909 x2 capillary electrophoresis. Del/Dup: 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 x2 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002420	5-Fluorouracil Sensitivity (DYPD, TYMS & MTHFR) 8 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification; 83901 x5 Additional amplification; 83914 x16 Extension; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2002429	HLA-B*5701 Genotyping	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probe; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002437	<i>KIT</i> Mutations in AML by Fragment Analysis and Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x2 Amplification; 83896 Nucleic acid probe; 83894 Gel separation; 83904 Sequencing, 83909 Capillary electrophoresis; 83912 Interpretation and report; - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002440	<i>EGFR</i> Mutation Detection by PCR and Fragment Analysis	81401 Molecular Pathology Procedure Level 2	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83892 Digestion; 83909 Separation and identification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002470	PTEN-Related Disorders (PTEN) Sequencing and Deletion/Duplication	81405 Molecular Pathology Procedure Level 6 81404 Molecular Pathology Procedure Level 5	Sequencing: 83891 Isolation; 83898 x12 Amplification; 83904 x12 Sequencing; 83909 capillary electrophoresis. Del/Dup: 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002498	BRAF codon 600 Mutation Detection by Pyrosequencing	81210 BRAF gene variant	88381 Microdissection; 83907 Lysis; 83898 Amplification; 83904 Sequencing; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.
2002499	<i>MLH1</i> Promoter Methylation, Paraffin	81401 Molecular Pathology Procedure Level 2	88381 Microdissection; 83907 Lysis; 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.
2002656	Anti-Mullerian Hormone	83520	
2002658	Familial Mediterranean Fever (MEFV) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002662	Freeman-Sheldon Syndrome (MYH3) Sequencing Exon 17	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x2 Amplification; 83904 x2 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002697	Loeys-Dietz Syndrome (TGFR1 & TGFR2) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002701	Loeys-Dietz Syndrome (TGFR1 & TGFR2) Sequencing & Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x17 Amplification; 83904 x18 Sequencing; 83909 Capillary electrophoresis. Del/Dup: 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2002705	Loeys-Dietz Syndrome (TGFB1 & TGFB2) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x17 Amplification; 83904 x18 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002722	PTEN-Related Disorders (PTEN) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x12 Amplification; 83904 x12 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002726	PTEN-Related Disorders (PTEN) Deletion/Duplication	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002730	RASA1-Related Disorders (RASA1) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x30 Amplification; 83904 x30 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002784	HLA-B Sequence	81380 HLA I Typing 1 locus	83891 Isolation; 83898 Amplification; 83904 x3 Sequencing; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002788	HLA-ABC Sequencing	81379 HLA I Typing Complete	83891 Isolation; 83898 x3 Amplification; 83904 x8 Mutation identification by sequencing; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002798	HLA-DR Genotyping	81382 HLA II Typing 1 locus	83891 Isolation; 83898 Amplification; 83896 x10 Nucleic acid probes; 88384 Probes 11-50; 88385 Probes 51-250; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002801	HLA-A & B Genotyping	81373 x2 HLA I Typing 1 locus	83891 Isolation; 83900 x2 Multiplex Amplification; 83896 x10 Nucleic acid probes; 88384 Probes 11-50; 88385 Probes 51-250; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002806	HLA Bone Marrow Transplantation Evaluation	81373 x2 HLA I Typing 1 locus 81382 HLA II Typing 1 locus	83891 Isolation; 83898 Amplification; 83900 Multiplex Amplification; 83896 x10 Nucleic acid probes; 88384 Probes 11-50; 88385 Probes 51-250; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002807	HLA-C Genotyping	81373 HLA I Typing 1 locus	83891 Isolation; 83900 Multiplex Amplification; 83896 x10 Nucleic acid probes; 88384 Probes 11-50; 88385 Probes 51-250; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2002810	HLA-DQB Genotyping	81382 HLA II Typing 1 locus	83891 Isolation; 83900 Multiplex Amplification; 83896 x10 Nucleic acid probes; 88384 Probes 11-50; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002814	HLA-C Sequencing	81380 HLA I Typing 1 locus	83891 Isolation; 83898 Amplification; 83904 x2 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002871	PML-RARA Translocation, t(15;17) by RT-PCR, Quantitative	81315 PML/RARalpha translocation analysis	83891 Isolation; 83902 Reverse transcription; 83898 x3 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002945	Legius Syndrome (SPRED1) Sequencing and (NF1) Sequencing Exon 22 (Exon 17)	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation
2002965	von Hippel-Lindau (VHL) Sequencing and Deletion/Duplication	81404 Molecular Pathology Procedure Level 5 81403 Molecular Pathology Procedure Level 4	Sequencing: 83891 Isolation; 83898 x3 Amplification; 83904 x3 Sequencing; 83909 capillary electrophoresis. Del/Dup: 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002970	von Hippel-Lindau (VHL) Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x3 Amplification; 83904 x3 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2002988	von Hippel-Lindau (VHL) Deletion/Duplication	81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83896 Nucleic Acid Probes; 83898 Amplification; 83914 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003085	HLA-A Sequencing	81380 HLA I Typing 1 locus	83891 Isolation; 83898 Amplification; 83904 x3 Sequencing; 83909 Separation and identification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003123	NRAS Mutation Detection by Pyrosequencing	81404 Molecular Pathology Procedure Level 5	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83904 x2 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.
2003152	Cerebral Cavernous Malformation (CCM1) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x16 Amplification; 83904 x16 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003156	Cerebral Cavernous Malformation (CCM2) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2003160	Cerebral Cavernous Malformation (CCM3) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x7 Amplification; 83904 x7 Sequencing; 83909 Capillary electrophoresis, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003164	Cerebral Cavernous Malformation (CCM1) Sequencing with Reflex to (CCM1, CCM2 and CCM3) Deletion/Duplication with Reflex to (CCM2) Sequencing with Reflex to (CCM3) Sequencing	81406 Molecular Pathology Procedure Level 7 If reflexed to Del/Dup add 81407 Molecular Pathology Procedure Level 8 If reflexed to CCM2 sequencing add 81405 Molecular Pathology Procedure Level 6 If reflexed to CCM3 sequencing add 81405 Molecular Pathology Procedure Level 6	CCM1 Sequencing: 83891 Isolation; 83898 x16 Amplification; 83904 x16 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to Del/Dup: 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 x2 Capillary electrophoresis. If reflexed to CCM2 Sequencing: 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis. If reflexed to CCM3 Sequencing: 83898 x7 Amplification; 83904 x7 Sequencing; 83909 Capillary electrophoresis. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003172	Cerebral Cavernous Malformation (CCM1, CCM2 and CCM3) Deletion/Duplication	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83896 x2 Nucleic Acid Probes; 83898 x2 Amplification; 83914 x2 Extension; 83909 x2 Capillary Electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003220	Factor XIII (F13A1) V34L Variant	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003243	Septin 9 (SEPT9), Methylated DNA Detection by Real-Time PCR	81401 Molecular Pathology Procedure Level 2	83891 Extraction; 83892 Enzyme digestion; 83896 x3 Nucleic Acid Probes; 83900 Amplification, multiplex; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.
2003401	Pulmonary Arterial Hypertension (BMPR2) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003405	Pulmonary Arterial Hypertension (BMPR2) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x16 Amplification; 83904 x16 Sequencing; 83909 Capillary electrophoresis. Del/Dup: 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003410	Pulmonary Arterial Hypertension (BMPR2) Sequencing	81406 Molecular Pathology Procedure Level 7	Sequencing: 83891 Isolation; 83898 x16 Amplification; 83904 x16 Sequencing; 83909 capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2003414	Cytogenomic SNP Microarray	81229 Cytogenomic microarray analysis interrogation of SNP variant	83891 Isolation; 88386 Array-based evaluation of multiple molecular probes, 251-500 x6 probes

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2004189	Noonan Syndrome (PTPN11) Sequencing with Reflex to (SOS1) Sequencing	81406 Molecular Pathology Procedure Level 7 If reflexed to SOS1 sequencing add 81406 Molecular Pathology Procedure Level 7	PTPN11 Sequencing; 83891 Isolation; 83898 x15 Amplification; 83904 x15 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to SOS1 Sequencing: 83898 x25 Amplification; 83904 x25 Sequencing; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004195	Noonan Syndrome (SOS1) Sequencing	81406 Molecular Pathology Procedure Level 7	Sequencing; 83891 Isolation; 83898 x25 Amplification; 83904 x25 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004199	Primary Carnitine Deficiency (SLC22A5) Deletion/Duplication	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004203	Primary Carnitine Deficiency (SLC22A5) Sequencing and Deletion/Duplication	81405 Molecular Pathology Procedure Level 6 81404 Molecular Pathology Procedure Level 5	Sequencing; 83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; DelDup: 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004208	Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (ACADVL) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004212	Very Long-Chain Acyl-CoA Dehydrogenase Deficiency (ACADVL) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing; 83891 Isolation; 83898 x11 Amplification; 83904 x11 Sequencing; 83909 Capillary electrophoresis; DelDup: 83896 Nucleic acid probes; 83898 Amplification; 83914 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004247	CEBPA Mutation Detection	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x2 Amplification; 83894 Gel separation; 83904 x2 Sequencing, 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004358	Warfarin Genotyping Plus	81227 CYP2C9 gene common variant 81355 VKORC1 gene common variant	83891 Isolation; 83898 x3 Amplification; 83896 x3 Nucleic acid probes; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004510	PIK3CA Mutation Detection	81404 Molecular Pathology Procedure Level 5	88381 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83904 x3 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test oncologic or inherited disorders.

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2004539	LMNA-Related Disorders (LMNA) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x12 Nucleic acid probes; 83898 x12 Amplification; 83914 x12 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004543	LMNA-Related Disorders (LMNA) Sequencing	81406 Molecular Pathology Procedure Level 7	Sequencing: 83891 Isolation; 83898 x12 Amplification; 83904 x12 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004547	EML4/ALK Translocation by RT-PCR	81401 Molecular Pathology Procedure Level 2	83907 Lysis; 83891 Isolation; 83902 Reverse transcription; 83898 x3 Amplification; 83894 x3 Gel Separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004680	Interleukin 28 B (IL28B)-Associated Variants, 2 SNPs	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification; 83896 x4 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004686	Hemoglobin Lepore (HBD/HBB Fusion) 3 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification, 83901 x2 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004857	EGFR Mutation Detection with Reflex to EML4/ALK Translocation by RT-PCR	81401 Molecular Pathology Procedure Level 2 If reflexed add 81401 Molecular Pathology Procedure Level 2	83881 Microdissection; 83907 Lysis; 83898 x2 Amplification; 83892 Digestion; 83909 Separation and identification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report. If reflexed add 83907 Lysis; 83891 Isolation; 83902 Reverse Transcription; 83898 x3 Amplification; 83894 x3 Gel Separation; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004863	Familial Adenomatous Polyposis (APC) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x40 Amplification; 83904 x40 Sequencing; 83909 capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004892	Ornithine Transcarbamylase Deficiency (OTC) Deletion/Duplication	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83896 x10 Nucleic acid probes; 83898 x10 Amplification; 83914 x10 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004896	Ornithine Transcarbamylase Deficiency (OTC) Sequencing and Deletion/Duplication	81405 Molecular Pathology Procedure Level 6 81404 Molecular Pathology Procedure Level 5	Sequencing: 83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Del/Dup: 83896 x10 Nucleic Acid Probes; 83898 x10 Amplification; 83914 x10 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2004901	Ornithine Transcarbamylase Deficiency (OTC) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004911	MYH-Associated Polyposis (MYH) 2 Mutations	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x2 Amplification; 83904 x2 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004915	Familial Adenomatous Polyposis Panel: APC Sequencing, APC Deletion/Duplication, and MYH 2 Mutations	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing (APC and MYH): 83891 Isolation; 83898 x42 Amplification; 83904 x42 Sequencing; 83909 Capillary electrophoresis. Del/Dup: 83896 x17 Nucleic acid probes; 83898 x17 Amplification; 83914 x17 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004920	Familial Adenomatous Polyposis (APC) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x17 Nucleic acid probes; 83898 x17 Amplification; 83914 x17 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004924	BCR-ABL1, T315I Mutation Detection, Quantitative	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83904 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004927	CDKL5-Related Disorders (CDKL5) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x21 Nucleic acid probes; 83898 x21 Amplification; 83914 x21 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004931	CDKL5-Related Disorders (CDKL5) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x26 Amplification; 83904 x26 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004935	CDKL5-Related Disorders (CDKL5) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x26 Amplification; 83904 x26 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. DelDup: 83896 x21 Nucleic Acid Probes; 83898 x21 Amplification; 83914 x21 Extension; 83909 Capillary Electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004980	Plasminogen Activator Inhibitor-1, PAI-1 (SERPINE1) Genotyping	81400 Molecular Pathology Procedure Level 1	83891 Isolation; 83898 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004984	Juvenile Polyposis Syndrome (BMPRI1) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x13 Nucleic acid probes; 83898 x13 Amplification; 83914 x13 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2004988	Juvenile Polyposis Syndrome (BMPR1A) Sequencing	81406 Molecular Pathology Procedure Level 7	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2004992	Juvenile Polyposis Syndrome (BMPR1A) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. DelDup: 83896 x13 Nucleic Acid Probes; 83898 x13 Amplification; 83914 x13 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005010	BCR-ABL1, Qualitative with Reflex to BCR-ABL1 Quantitative	81206 BCR/ABL1 translocation analysis 81207 BCR/ABL1 gene minor breakpoint If reflexed add 81206 BCR/ABL1 translocation analysis or 81207 BCR/ABL1 gene minor breakpoint.	83891 Isolation; 83902 Reverse transcription; 83898 x6 Amplification; 83894 x3 Gel separation; 83912 Interpretation and report. If reflexed add 83902 Reverse transcription; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005016	BCR-ABL1, Minor (p190), Quantitative	81207 BCR/ABL1 gene minor breakpoint	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005017	BCR-ABL1, Major (p210), Quantitative	81206 BCR/ABL1 translocation analysis	83891 Isolation; 83902 Reverse transcription; 83898 x2 Amplification; 83896 x2 Nucleic acid probes; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005018	Celiac Disease (HLA-DQA1*05, HLA-DQB1*02, and HLA-DQB1*03:02) Genotyping	81382 x2 HLA II typing 1 locus	83891 Isolation; 83898 Amplification; 83900 Multiplex amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005023	Narcolepsy (HLA-DQB1*06:02) Genotyping	81383 HLA Class II typing 1 allele	83891 Isolation; 83898 Amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005077	Angelman Syndrome and Prader-Willi Syndrome by Methylation	81331 SNRPN/UBE3A methylation analysis	83891 Isolation; 83898 Amplification; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005346	Multiple Endocrine Neoplasia Type 1 (MEN1) Deletion/Duplication	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83896 x9 Nucleic acid probes; 83898 x9 Amplification; 83914 x9 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005359	Multiple Endocrine Neoplasia Type 1 (MEN1) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x8 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2005360	Multiple Endocrine Neoplasia Type 1 (MEN1) Sequencing and Deletion/Duplication	81405 Molecular Pathology Procedure Level 6 81404 Molecular Pathology Procedure Level 5	Sequencing; 83891 Isolation; 83898 x8 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. DelDup: 83896 x9 Nucleic acid probes; 83898 x9 Amplification; 83914 x9 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders
2005400	FLT3 Mutation Detection by PCR	81245 FLT3 gene analysis 81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83898 x2 Amplification; 83892 Digestion; 83909 x2 Separation and identification; 83912 Interpretation and report
2005408	Hereditary Persistence of Fetal Hemoglobin (HPFH) 8 Mutations	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Multiplex amplification, 83901x7 Additional amplification; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005476	von Willebrand Disease, Platelet Type (GP1BA) 4 Mutations	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x2 Amplification; 83904 Sequencing; 83909 x2 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005480	von Willebrand Disease, Type 2A (VWF) Sequencing Exon 28 with Reflex to 9 Exons	81403 Molecular Pathology Procedure Level 4 If reflexed, add 83898 x9 Amplification 83904 x9 Sequencing; 83909 Capillary electrophoresis -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.	83891 Isolation; 83898 x6 Amplification; 83904 Sequencing x6; 83909 Capillary electrophoresis; 83912 Interpretation and report. If reflexed to 9 additional exons, add 83898 x9 Amplification; 83904 x9 Sequencing; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005486	von Willebrand Disease, Type 2B (VWF) Sequencing	81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83898 x6Amplification; 83904 x6 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005490	von Willebrand Disease, Type 2M (VWF) Sequencing	81404 Molecular Pathology Procedure Level 5	83891 Isolation; 83898 x8 Amplification; 83904 x8 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005494	von Willebrand Disease, Type 2N (VWF) Sequencing	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83898 x10 Amplification; 83904 x10 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report -Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005545	MPL codon 515 Mutation Detection by Pyrosequencing, Quantitative	81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83898 Amplification; 83904 Sequencing; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005555	Ehlers-Danlos Syndrome Kyphoscoliotic Form, Type VI (PLOD1) Deletion/Duplication	81405 Molecular Pathology Procedure Level 6	83891 Isolation; 83896 x18 Nucleic acid probes; 83898 x18 Amplification; 83914 x18 Extension; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.

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2005559	Ehlers-Danlos Syndrome Kyphoscoliotic Form, Type VI (PLOD1) Sequencing and Deletion/Duplication	81406 Molecular Pathology Procedure Level 7 81405 Molecular Pathology Procedure Level 6	Sequencing: 83891 Isolation; 83898 x19 Amplification; 83904 x19 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Del/Dup: 83896 x18 Nucleic acid probes; 83898 x18 Amplification; 83914 x18 Extension; 83909 Capillary electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005564	Angelman Syndrome (UBE3A) Sequencing	81406 Molecular Pathology Procedure Level 7	Sequencing: 83891 Isolation; 83898 x16 Amplification; 83904 x16 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005580	Marfan Syndrome, FBN1 Deletion/Duplication	81407 Molecular Pathology Procedure Level 8	83891 Isolation; 83896 x65 Nucleic acid probes; 83898 x65 Amplification; 83914 x65 Extension; 83909 Capillary electrophoresis ; 83912 Interpretation and report. Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005584	Marfan Syndrome, FBN1 Sequencing and Deletion/Duplication	81408 Molecular Pathology Procedure Level 9 81407 Molecular Pathology Procedure Level 8	Sequencing: 83891 Isolation; 83898 x62 Amplification; 83904 x62 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report. Del/Dup: 83896 x65 Nucleic acid probes; 83898 x65 Amplification; 83914 x65 Extension; 83909 Capillary Electrophoresis - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005589	Marfan Syndrome, FBN1 Sequencing	81408 Molecular Pathology Procedure Level 9	83891 Isolation; 83898 x62 Amplification; 83904 x62 Sequencing; 83909 Capillary electrophoresis; 83912 Interpretation and report - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2005602	JAK2 Gene, V617F Mutation, Quantitative with Reflex to MPL, Codon 515 Mutation Detection, Quantitative	81270 JAK2 GENE If reflexed add 81403 Molecular Pathology Procedure Level 4	83891 Isolation; 83898 x2 Amplification; 83896 Nucleic Acid Probe; 83912 Interpretation and report; if reflexed add 83898 Amplification; 83904 Sequencing; 83912 Interpretation and report. - Additional CPT code modifiers may be required for procedures performed to test for oncologic or inherited disorders.
2006344	Inosine Triphosphate (ITPA) and Interleukin 28 B (IL28B)-Associated Variants, 4 SNPs	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83900 Amplification; 83901 x2 Multiplex amplification; 83914 x4 Extension; 83909 Capillary Electrophoresis; 83912 Interpretation and report
2006352	X-Chromosome Inactivation Analysis	81401 Molecular Pathology Procedure Level 2	83891 Isolation; 83892 x2 digestion; 83898 x3 Amplification; 83909 Capillary Electrophoresis; 83912 Interpretation and report