

Patient Information

First name _____ Last name _____
 Gender Male Female Date of birth (mm/dd/yy) _____
 Ancestry Caucasian Eastern European Northern European
 Western European Native American Middle Eastern
 African American Asian Pacific Islander
 Caribbean Central/South American
 Ashkenazi Jewish Hispanic Other: _____

Mailing address _____
 City _____ State _____ Zip code _____
 Home phone _____ Work phone _____
 Email _____ Patient's primary language if not English _____

Sample Information

Medical record # _____ Specimen ID _____ Date sample obtained (mm/dd/yy) _____
 Blood in EDTA (5-6 mL in lavender top tube)
 Buccal Swab
 Oral Rinse (At least 30 mL of Scope oral rinse in a 50 mL centrifuge tube)
 DNA (>20 ug): Tissue source _____ concentration ____ (ug/ml) Vol ____ (ul)
 Other _____ (Call lab)
 Patient has had a blood transfusion Yes No Date of last transfusion ____/____/____
 (2-4 weeks of wait time is required for mtDNA testing only) Specimens are not accepted for patients who have had allogeneic bone marrow transplants
Clinical Diagnosis: _____ **ICD-10 Codes:** _____
Age at Initial Presentation: ____ **Add. ICD-10 Codes:** _____

Ordering Account Information

Acct # _____ Account Name _____
 Reporting Preference* Care Evolve Fax Email
**If unmarked, we will use the account's default preferences or fax to new clients.*

Physician _____ NPI # _____
 Genetic Counselor _____
 Street address 1 _____
 Street address 2 _____
 City _____ State _____ Zip code _____
 Phone _____ Fax (important) _____
 Email _____ Beeper _____

Send Additional Report Copies To:

Physician or GC/Acct # _____ Fax#/Email/CE # _____
 Physician or GC/Acct # _____ Fax#/Email/CE # _____

Statement of Medical Necessity

This test is medically necessary for the diagnosis or detection of a disease, illness, impairment, symptom, syndrome or disorder. The results will determine my patient's medical management and treatment decisions. The person listed as the Ordering Provider is authorized by law to order the tests(s) requested herein. I confirm that I have provided genetic testing information to the patient and the patient has consented to genetic testing.

Signature of Physician or Other Authorized NPI Provider (required) _____ Date _____

Patient Consent (sign here)

I have read the attached Informed Consent document and I give permission to GeneDx to perform genetic testing as described. I also give permission for my specimen and clinical information to be used in de-identified studies at GeneDx to improve genetic testing and for publication, if appropriate. My name or other personal identifying information will not be used in or linked to the results of any studies and publications. I also give GeneDx permission to inform me or my health care provider in the future about research opportunities, including treatments for the condition in my family. **More information is available on our website: www.genedx.com**

Check this box if you are a New York state resident, and give permission for GeneDx to retain any remaining sample longer than 60 days after the completion of testing.

Patient/Guardian Signature _____ **Date** _____

PATIENT STATUS – ONE MUST BE CHECKED: Hospital Inpatient Hospital Outpatient Not a Hospital Patient Hospital Patient Date of Discharge: _____

Payment Options

Insurance Bill

Referral/Prior Authorization # _____
Please attach copy of Referral/authorization
 GeneDx Benefit Investigation # _____

Insurance Carrier _____ Policy Name _____ Hold sample for Estimated Benefit Investigation (only if OOP cost is >\$100)
 Insurance ID # _____ Group # _____ Name of Insured _____ Date of Birth _____ Insurance Address _____ City _____ State _____ Zip _____
 Relationship to Insured Child Spouse Self Other _____
 Secondary Insurance Carrier Name _____ Insurance ID# _____ Group # _____ Name of Insured _____ Date of Birth _____ Relationship to Insured Child Spouse Self Other _____

Please include a copy of the front and back of the patient's insurance card (include secondary when applicable)

I represent that I am covered by insurance and authorize GeneDx, Inc. to give my designated insurance carrier, health plan, or third party administrator (collectively "Plan") the information on this form and other information provided by my health care provider necessary for reimbursement. I authorize Plan benefits to be payable to GeneDx. I understand that GeneDx will attempt to contact me if my estimated out-of-pocket responsibility will be greater than \$100 per test (for any reason, including co-insurance and deductible, or non-covered services). If GeneDx is unsuccessful in its attempts to contact me, I understand that it will be my responsibility to contact GeneDx to determine my out-of-pocket cost and to pay my out-of-pocket responsibility. I will cooperate fully with GeneDx by providing all necessary documents needed for Plan billing and appeals. I understand that I am responsible for sending GeneDx any and all of the money that I receive directly from my Plan in payment for this test. Reasonable collection and/or attorney's fees, including filing and service fees, shall be assessed if the account is sent to collection but said fees shall not exceed those permitted by state law. I permit a copy of this authorization to be used in place of the original.

Patient Signature (required) _____ Date _____

Institutional Bill

GeneDx Account # _____
 Hospital/Lab Name _____
 Contact Name _____
 Address _____
 City _____ State _____ Zip Code _____
 Phone _____ Fax _____

Patient Bill

Amount _____
 If I have insurance coverage for this testing, I am electing to be treated as a self-pay patient for this testing. As such, I agree that neither GeneDx nor I will submit a claim to my insurance for this testing.
Please bill my credit card for the full amount stated above (all major cards accepted)
 MasterCard Visa Discover American Express

Name as it appears on card _____
 Account Number _____ Expiration date _____ CVC _____
Signature _____ **Date** _____
For GeneDx Use Only

First Name _____

Last Name _____

Date of Birth (mm/dd/yy) _____

Family History of Disorder/Symptoms

<input type="checkbox"/> No Known Family History	Relationship	Maternal	Paternal	Disorder/Symptoms	Age at Dx
<input type="checkbox"/> Pedigree Attached	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
<input type="checkbox"/> Adopted	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

Other clinical history or testing (summarize or attach reports)

Array CGH: _____

Chromosomes/FISH: _____

Other relevant results (clinical or research): _____

Draw/attach pedigree and/or include additional information

Reason for testing - please complete (required):

If expedited testing is requested, please indicate reason:

Pregnancy (gestational age _____ weeks)

Transplantation

Other: _____

Family Member/Carrier Testing and Special Services

Testing for known familial variant in a nuclear gene

- 9011 Testing for ONE known familial variant in a nuclear gene
- 9012 Testing for TWO known familial variants in a nuclear gene
- 905 Testing for ONE known familial exon-level del/dup or chromosomal microarray del/dup

Prenatal testing

- 902 Known familial mutation(s)
- 9023 Maternal cell contamination studies only

Mutation confirmations

- 9001 One known mutation identified in a research lab
- 9002 Two known mutations identified in a research lab

DNA extraction only

- 909 One sample

Please fill out this information if selecting a test from the family member/carrier testing section:

Relative to be tested: Affected/Symptomatic Unaffected/Asymptomatic

Gene(s): _____ Variant(s): _____

Proband Name: _____

Relationship to proband: _____

Proband GeneDx Acc#: _____

Proband tested at another lab. Select all that apply

- Positive control included - **Positive control is required if previous test was performed at another lab.**
- Positive control not available. Please initial to acknowledge acceptance of caveat language on a negative report _____
- Family Member Test Report included - A clear copy of the test report on the variant positive family member is recommended if previous test was performed at another lab.

Single Gene Analysis/Write-in Test Selection

906 Deletion/Duplication Analysis of 1-2 nuclear gene



If selected, write in desired gene(s) to be tested: _____

703 Deletion/Duplication Analysis of 3-20 nuclear genes

Test Code: _____

Test Name: _____

Test Code: _____

Test Name: _____

Many other tests are available on other requisition forms. Please visit genedx.com to find the right test for your patient.

All single gene tests are on pages 4-6

Rare Disorders Multi-gene Panels

Test Code	Test Name	# Genes	Gene List
Dermatologic Disorders			
<input type="checkbox"/> 708	Congenital ichthyosis XomeDxSlice	49	ABCA12, ABHD5, ALDH3A2, ALOX12B, ALOXE3, AP1S1, ARSE, CASP14, CDSN, CERS3, CHST8, CLDN1, CSTA, CYP4F22, EBP, ELOVL4, FLG, FLG2, GJB2, GJB3, GJB4, GJB6, KDSR, KRT1, KRT10, KRT2, KRT9, LIPN, LOR, MBTPS2, NIPAL4, NSDHL, PEX7, PHGDH, PHYH, PNPLA1, POMP, PSAT1, SDR9C7, SERPINB8, SLC27A4, SNAP29, SPINK5, ST14, STS, TGM1, TGM5, VPS33B, ZMPSTE24
<input type="checkbox"/> 707	Epidermolysis bullosa (EB) and other bullous skin disorders XomeDxSlice	28	CD151, CDSN, CHST8, COL17A1, COL7A1, CSTA, DSG1, DSP, DST, EXPH5, FERMT1, FLG2, ITGA3, ITGA6, ITGB4, JUP, KLHL24, KRT1, KRT10, KRT14, KRT5, LAMA3, LAMB3, LAMC2, PKP1, PLEC, SERPINB8, TGM5
<input type="checkbox"/> B399	Melanoma panel	9	BAP1, BRCA2, CDK4, CDKN2A, MITF, POT1, PTEN, RBI, TP53
Dysmorphology and Multiple Congenital Anomalies			
<input type="checkbox"/> TA46	Adams-Oliver syndrome panel	6	ARHGAP, DLL4, DOCK6, EOGT, NOTCH1, RBPJ
<input type="checkbox"/> TA44	Baraitser-Winter syndrome panel	2	ACTB, ACTG1
<input type="checkbox"/> T993	Coffin-Siris syndrome panel	8	ARID1A, ARID1B, PHF6, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SOX11
<input type="checkbox"/> 584	Cornelia de Lange syndrome panel	7	ANKRD11, HDAC8, KMT2A, NIPBL, RAD21, SMC1A, SMC3
<input type="checkbox"/> 961	Neurofibromatosis type 1 and 2 panel	4	NF1, NF2, SMARCB1, SPRED1
<input type="checkbox"/> 962	Neurofibromatosis type 1 panel	2	NF1, SPRED1
<input type="checkbox"/> 963	Neurofibromatosis type 2 panel	2	NF2, SMARCB1
<input type="checkbox"/> TA06	Noonan and comprehensive RASopathies panel	25	A2ML1, ACTB, ACTG1, BRAF, CBL, HRAS, KAT6B, KRAS, LZTR1, MAP2K1, MAP2K2, NF1, NRAS, NSUN2, PPP1CB, PTPN11, RAF1, RASA1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="checkbox"/> TA39	Robinow syndrome panel	4	DVLI1, DVLI3, ROR2, WNT5A
<input type="checkbox"/> TA38	Treacher Collins syndrome panel	6	DHODH, EFTUD2, POLR1C, POLR1D, SF3B4, TCOF1
Endocrine Disorders			
<input type="checkbox"/> 676	Hypogonadotropic hypogonadism panel	33	CHD7, CYP19A1, DUSP6, ESR1, FEZF1, FGF17, FGF8, FGFR1, GNRH1, GNRHR, HS6ST1, IL17RD, KALI, KISS1, KISS1R, LEP, LEPR, LHB, LHCGR, NROB1, NR5A1, NSMF, POLR3B, PROK2, PROKR2, PROP1, SEMA3A, SEMA3E, SOX10, SPRY4, TAC3, TACR3, WDR11
<input type="checkbox"/> 674	Maturity-onset diabetes of the young (MODY) panel	16	ABCC8, APPL1, BLK, CEL, GCK, GLUD1, HADH, HNF1B, HNF4A, HNF1A, INS, KCNJ11, KLF11, NEUROD1, PAX4, PDX1 (IPF1)
Hematologic Disorders			
<input type="checkbox"/> 938	Congenital sideroblastic anemia panel (plus mitochondrial genome large deletion testing)	8	ABCB7, ALAS2, GLRX5, PUS1, SLC19A2, SLC25A38, TRNT1, YARS2
<input type="checkbox"/> J450	Diamond-Blackfan anemia panel	13	GATA1, RPL11, RPL15, RPL26, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS29, RPS7
<input type="checkbox"/> TB47	Dyskeratosis congenita panel	12	ACD, CTC1, DKC1, NHP2, NOP10, PARN, RTEL1, TERC, TERT, TINF2, USB1, WRAP53
Immunologic Disorders			
<input type="checkbox"/> T990	Autoimmune lymphoproliferative syndrome (ALPS) panel	4	FAS, CASP10, CASP8, FASL
<input type="checkbox"/> T989	Chronic granulomatous disease (CGD) panel	5	CYBA, CYBB, NCF1, NCF2, NCF4
<input type="checkbox"/> 601	Comprehensive SCID panel	26	ADA, AK2, ATM, CD3D, CD3E, CD3Z, CORO1A, DCLRE1C (ARTEMIS), DOCK8, FOXN1, IL2RG, IL7R, JAK3, LIG4, NHEJ1, ORAI1, PNP, PRKDC, PTPRC, RAC2, RAG1, RAG2, RMRP, STIM1, TBX1, ZAP70
<input type="checkbox"/> 603	B- SCID sub-panel	9	ADA, AK2, DCLRE1C (ARTEMIS), LIG4, NHEJ1, PRKDC, RAC2, RAG1, RAG2
<input type="checkbox"/> 602	B+ SCID sub-panel	17	TM, CD3D, CD3E, CD3Z, CORO1A, DOCK8, FOXN1, IL2RG, IL7R, JAK3, ORAI1, PNP, PTPRC, RMRP, STIM1, TBX1, ZAP70
<input type="checkbox"/> 678	Hyper-IgE syndrome panel	4	DOCK8, SPINK5, STAT3, TYK2
<input type="checkbox"/> T995	Hyper-IgM panel	4	AICDA, CD40, CD40LG, UNG
Neurologic Disorders			
<input type="checkbox"/> 547	Aicardi-Goutieres syndrome panel^	4	RNASEH2A, RNASEH2B, RNASEH2C, TREX1
<input type="checkbox"/> 526	Cerebral cavernous malformations panel	3	CCM2, KRIT1, PDCD10
<input type="checkbox"/> TB51	Comprehensive holoprosencephaly panel	17	CDON, DISP1, DLL1, FGF8, FGFR1, FOXH1, GLI2, GAS1, NODAL, PTCH1, SHH, SIX3, SMAD2, STIL, TDGF1, TGIF1, ZIC2
<input type="checkbox"/> 2371	Holoprosencephaly panel	4	SHH, SIX3, TGIF, ZIC2
Pulmonary Disorders			
<input type="checkbox"/> TB46	Primary ciliary dyskinesia panel	30	ARMC4, C21ORF59 (CFAP298), CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CENPF, DNAAF1, DNAAF2, DNAAF3, DNAAF5 (HEATR2), DNAH11, DNAH5, DNAI1, DNAI2, DNAJB13, DRC1, DYX1C1 (DNAAF4), GAS8, LRRC6, PIH1D3, RSPH1, RSPH3, RSPH4A, RSPH9, SPAG1, ZMYND10
<input type="checkbox"/> TB48	Hermansky-Pudlak syndrome panel	10	AP3B1, AP3D1, BLOC1S3, BLOC1S6, DTNBP1, HPS1, HPS3, HPS4, HPS5, HPS6
<input type="checkbox"/> TB49	Surfactant dysfunction panel	5	ABCA3, CSF2RA, CSF2RB, SFTPB, SFTPC

Rare Disorders Multi-gene Panels

Test Code	Test Name	# Genes	Gene List
Reproductive Disorders			
<input type="checkbox"/> T991	Neonatal 46, XY disorders of sex development (DSD) panel	19	AR, ARX, ATRX, CHD7, CYP11A1, CYP17A1, DHCR7, DHH, DYNC2H1, HSD17B3, HSD3B2, NEK1, NR5A1, POR, SOX9, SRD5A2, SRY, STAR, WT1
<input type="checkbox"/> 677	Premature ovarian failure panel	22	BMP15, CYP17A1, CYP19A1, ESR1, FGFR1, FIGLA, FSHR, GDF9, KISS1, KISS1R, LHB, LHCGR, NOBOX, NR5A1, POR, PROK2, PROKR2, PSMC3IP, SEMA3A, TAC3, TACR3, WDR11
Rheumatologic Disorders			
<input type="checkbox"/> 367	Comprehensive panel for periodic fever syndromes panel: Familial hibernian fever/TRAPS; Familial mediterranean fever; Hyper-IgD syndrome; Muckle Wells/familial cold urticaria, NOMID; Cyclic neutropenia; PAPA syndrome; Majeed syndrome ^A	7	ELANE (ELA2), LPIN2, MEFV, MVK, NLRP3 (CIAS1), PSTPIP1, TNFRSF1A
Skeletal Disorders			
<input type="checkbox"/> TA45	Abnormal mineralization panel	16	ALPL, ANKH, AP2S1, CASR, CLCN5, CYP27B1, CYP2R1, DMP1, ENPPI, FAH, FGF23, PHEX, SLC34A1, SLC34A3, SLC9A3R1, VDR
<input type="checkbox"/> J799	Achondrogenesis panel	3	COL2A1, SLC26A2, TRIP11
<input type="checkbox"/> T992	Autosomal dominant osteogenesis imperfecta panel	3	COL1A1, COL1A2, IFITM5
<input type="checkbox"/> J804	Chondrodysplasia punctata panel	5	AGPS, ARSE, EBP, GNPAT, PEX7
<input type="checkbox"/> TA40	Craniosynostosis panel	30	ALPL, ALX4, ASXL1, CDC45, CYP26B1, EFNB1, ERF, FGFR1, FGFR2, FGFR3, GLI3, IFT122, IFT43, ILI1RA, MASPI, MEGF8, MSX2, P4HB, POR, RAB23, RECQL4, SEC24D, SKI, TCF12, TGFBRI1, TGFBRI2, TMCO1, TWIST1, WDR35, ZIC1
<input type="checkbox"/> TA41	Ectrodactyly/split hand-split foot malformation panel	13	BLHHA9, CDH3, DLX5, DYNC11 (del/dup only), FGFR1, TP63, WNT10B, LBX1, BTRC, POLL, DPCD, FBXW4, 10q24(chr10:102 962, 134-103, 476, 346)
<input type="checkbox"/> J800	FGFR-related disorders panel	2	FGFR2, FGFR3 ^A
<input type="checkbox"/> T996	Hereditary multiple exostoses panel	3	EXT1, EXT2, PTPN11
<input type="checkbox"/> TA42	Limb abnormalities panel	71	ANKRD11, ARHGAP31, ARID1A, ARID1B, BHLHA9, BMP2, BMPR1B, CC2D2A, CDH3, CEP290, CHSY1, DLL4, DLX5, DOCK6, DVL1, DVL3, DYNC111, EOGT, ESCO2, FGF10, FGF16, FGFR1, FGFR2, FGFR3, GDF5, GLI3, GNAS, HDAC4, HDAC8, HOXD13, IHH, KIF7, KMT2A, LMBR1 (including ZRS regulatory region), LRP4, MGP, MKS1, MYCN, NIPBL, NOG, NOTCH1, NSDHL, PHF6, PIGV, PTHLH, RAD21, RBPJ, RECQL4, RBM8A, ROR2, RPRIP1L, SALL1, SALL4, SHH, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SOX11, SOX9, TBX15, TBX3, TBX5, THPO, TP63, WNT10B, WNT3, WNT5A, WNT7A and deletion/duplication coverage for 10q24
<input type="checkbox"/> J797	Osteogenesis imperfecta panel	24	ALPL, ANOS, B3GAT3, BMP1, COL1A1, COL1A2, CREB3L1, CRTAP, FKBP10, IFITM5, LRP5, P3H1 (LEPRE1), P4HB, PLOD2, PLS3, PPIB, SEC24D, SERPINF1, SERPINH1, SP7, SPARC, TAPT1, TMEM38B, WNT1
<input type="checkbox"/> T994	Hypophosphatasia and hypophosphatemic rickets panel	9	CLCN5, CYP27B1, CYP2R1, DMP1, ENPPI, FGF23, PHEX, SLC34A3, VDR
<input type="checkbox"/> TA43	Skeletal dysplasia panel	29	ALPL, ARSE, COL10A1, COL11A1, COL11A2, COL1A1, COL1A2, COL2A1, DDR2, EBP, FGFR3, FLNB, HSPG2, INPPL1, LBR, LIFR, MMP9, MMP13, NKX3-2, NSDHL, PEX7, PTH1R, RMRP, SBDS, SLC26A2, SLC35D1, SOX9, TRIP11, TRPV4

Rare Disorders Single Gene Tests

Test Code	Test Name	Gene	Test Code	Test Name	Gene
Dermatologic Disorders - Congenital Ichthyosis					
<input type="checkbox"/> 1181	Epidermolytic ichthyosis (epidermolytic hyperkeratosis)	KRT1, KRT10 hotspots only	<input type="checkbox"/> 119	Erythrokeratoderma variabilis	GJB3 ^A , GJB4 ^A
<input type="checkbox"/> 122	Epidermolytic ichthyosis (epidermolytic hyperkeratosis)	KRT2 hotspots only	<input type="checkbox"/> TB14	Ichthyosis follicularis with atrichia and photophobia/keratosis follicularis spinulosa decalvans	MBTPS2
<input type="checkbox"/> 208	Epidermolytic PPK of Vörner	KRT9 hotspots only	<input type="checkbox"/> 130	Syndromic palmoplantar keratoderma Vohwinkel syndrome KID syndrome ^A	GJB2 (Cx26) ^A
Dermatologic Disorders - Connective Tissue Disorders					
<input type="checkbox"/> TB16	Prolidase deficiency	PEPD ^A	<input type="checkbox"/> 2641	Pseudoxanthoma elasticum common mutations	ABCC6
<input type="checkbox"/> TA86	Supravalvular aortic stenosis/autosomal dominant cutis laxa	ELN	<input type="checkbox"/> 2642	If negative, reflex to: full gene sequencing	
Dermatologic Disorders - Ectodermal Dysplasia (ED)					
<input type="checkbox"/> 160IE	An/hypohidrotic, X-linked	EDA1	<input type="checkbox"/> 157	Clouston syndrome	GJB6 (Cx30) ^A
<input type="checkbox"/> TB11	An/hypohidrotic ED, autosomal dominant	EDARADD	<input type="checkbox"/> 306	Focal dermal hypoplasia Goltz syndrome	PORCN
<input type="checkbox"/> TA80	Ectodermal dysplasia Odonto-onycho-dermal dysplasia Schöpf-Schulz-Passarge syndrome	WNT10A	<input type="checkbox"/> 553	Incontinentia pigmenti common deletion and full gene sequencing	IKBK/NEMO
<input type="checkbox"/> TA50	Autosomal recessive/dominant hypohidrotic ED	EDAR	<input type="checkbox"/> 2861	Incontinentia pigmenti common deletion-females	IKBK/NEMO
			<input type="checkbox"/> 2862	If negative, reflex to: full gene sequencing	

Rare Disorders Single Gene Tests

Test Code	Test Name	Gene	Test Code	Test Name	Gene
Dermatologic Disorders - Epidermolysis Bullosa					
<input type="checkbox"/> TA53	Epidermolysis bullosa, dystrophic	COL7A1	<input type="checkbox"/> 168	Epidermolysis bullosa, simplex	KRT5, KRT14 hotspots only
<input type="checkbox"/> 1631	Epidermolysis bullosa, junctional type	LAM5 hotspots only			
Dermatologic Disorders - Other Skin/Nail/Hair/Mucosal Disorders					
<input type="checkbox"/> TA79	Bloom syndrome	BLM	<input type="checkbox"/> 2091	Pachyonychia congenita	KRT16, KRT6a hotspots only
<input type="checkbox"/> TA54	Darier disease	ATP2A2	<input type="checkbox"/> 2092	Pachyonychia congenita	KRT17, KRT6b hotspots only
<input type="checkbox"/> TA55	Hailey-Hailey disease	ATP2C1	<input type="checkbox"/> 2131	White sponge nevus	KRT4, KRT13 hotspots only
<input type="checkbox"/> TB15	Haim-Munk syndrome Papillon-Lefevre syndrome	CTSC			
Dermatologic Disorders - Pigmentary Disorders					
<input type="checkbox"/> 189	Hermansky-Pudlak syndrome: Ashkenazi splice mutation	HPS3	<input type="checkbox"/> 188	Hermansky-Pudlak syndrome: Puerto Rican mutations	HPS1 [^] , HPS3
Dermatologic Disorders - Skin Cancers					
<input type="checkbox"/> 2071	Peutz-Jeghers syndrome	STK11	<input type="checkbox"/> 205	Gorlin syndrome	PTCH1
<input type="checkbox"/> 714	Birt-Hogg-Dube syndrome	FLCN	<input type="checkbox"/> 713	Hereditary leiomyomatosis and renal cell cancer	FH
<input type="checkbox"/> 715	Carney complex	PRKARIA	<input type="checkbox"/> 195	Cowden syndrome Bannayan-Riley-Ruvalcaba syndrome Macrocephaly/ASD	PTEN
Dysmorphology & Multiple Congenital Anomalies					
<input type="checkbox"/> 491	Aniridia WAGR	PAX6	<input type="checkbox"/> TB27	Oral-facial-digital syndrome type 1	OFD1(CXORF5)
<input type="checkbox"/> 1004	Alagille syndrome	JAG1	<input type="checkbox"/> 2923	Rubinstein-Taybi syndrome	CREBBP
<input type="checkbox"/> 315E	Branchiootorenal syndrome	EYA1	<input type="checkbox"/> 415E	Simpson-Golabi-Behmel syndrome	GPC3
<input type="checkbox"/> TB21	CHARGE syndrome	CHD7	<input type="checkbox"/> 2511	Smith-Magenis syndrome	RAI1
<input type="checkbox"/> 550	Coffin-Lowry syndrome	RPS6KA3 (RSK2)	<input type="checkbox"/> 406	Sotos syndrome	NSD1
<input type="checkbox"/> TA58	Cohen syndrome	VPS13B	<input type="checkbox"/> TA62	Van der Woude syndrome	IRF6
<input type="checkbox"/> TB26	Craniofrontonasal dysplasia	EFNB1	<input type="checkbox"/> 358	Velocardiofacial syndrome DiGeorge syndrome	TBX1 [^]
<input type="checkbox"/> TA52	Ectrodactyly-ectodermal dysplasia-clefting (EEC) syndrome and TP63-related disorders	TP63	<input type="checkbox"/> TB04	Kabuki syndrome	KMT2D
<input type="checkbox"/> TA63	Feingold syndrome	MYCN	<input type="checkbox"/> TB20	Hirschsprung disease	RET
<input type="checkbox"/> J660	Neurofibromatosis type 1	NF1			
Endocrine Disorders					
<input type="checkbox"/> 402	17-alpha hydroxylase/17,20-lyase deficiency	CYP17A1 [^]	<input type="checkbox"/> 332	Von Hippel-Lindau syndrome	VHL
<input type="checkbox"/> TA56	Allgrove (Triple-A) syndrome	AAAS	<input type="checkbox"/> 719	Multiple endocrine neoplasia, type 1	MEN1
<input type="checkbox"/> TA57	Androgen insensitivity syndrome	AR	<input type="checkbox"/> TB03	Pendred syndrome DFNB4 Nonsyndromic hearing loss	SLC26A4
<input type="checkbox"/> TB19	Autoimmune polyendocrinopathy APECED	AIRE	<input type="checkbox"/> 1771	Multiple endocrine neoplasia, types 2A and 2B	RET [^]
<input type="checkbox"/> 721	Hyperparathyroidism-jaw tumor syndrome	CDC73	<input type="checkbox"/> TA94	Septo-optic dysplasia	HESX1
Hematologic Disorders - Dyskeratosis Congenita (DKC)					
<input type="checkbox"/> 108	DKC, X-linked	DKC1 [^]	<input type="checkbox"/> 682	DKC, autosomal dominant/recessive	TERT [^]
<input type="checkbox"/> 107	DKC, autosomal dominant	TERC [^]	<input type="checkbox"/> 414	DKC, autosomal dominant (exon 6 sequencing only)	TINF2 [^]
Hematologic Disorders - Bone Marrow Failure Syndromes					
<input type="checkbox"/> TA47	Congenital amegakaryocytic thrombocytopenia	MPL	<input type="checkbox"/> TA97	X-linked thrombocytopenia –or– X-linked neutropenia	WAS
<input type="checkbox"/> 109	Shwachman-Diamond syndrome	SBDS [^]			

Rare Disorders Single Gene Tests

Test Code	Test Name	Gene	Test Code	Test Name	Gene
Hematologic Disorders - Other					
<input type="checkbox"/> 2341	Hereditary angioedema (HAE) type I/II	<i>SERPING1 (C1NH)</i>	<input type="checkbox"/> 388	Hereditary angioedema type III exon 9/Thr328 mutation only	<i>F12[^]</i>
Immunologic Disorders					
<input type="checkbox"/> 2862	Ectodermal dysplasia with immunodeficiency Incontinentia pigmenti	<i>IKBKGNEMO[^]</i>	<input type="checkbox"/> TA48	Severe congenital neutropenia, autosomal dominant	<i>ELANE (ELA2)</i>
<input type="checkbox"/> TA69	IRAK4 deficiency	<i>IRAK4</i>	<input type="checkbox"/> TA70	Severe congenital neutropenia, autosomal recessive	<i>HAX1</i>
<input type="checkbox"/> 154	X-linked Agammaglobulinemia	<i>BTK</i>			
Neurological Disorders					
<input type="checkbox"/> TA81	Angelman Angelman-like syndrome	<i>SLC9A6</i>	<input type="checkbox"/> 549	Rett/atypical Rett syndromes	<i>MECP2</i>
<input type="checkbox"/> TB12	Erythromelalgia Paroxysmal extreme pain disorder Small fiber neuropathy Congenital insensitivity to pain	<i>SCN9A</i>	<input type="checkbox"/> 548	X-linked early infantile epileptic encephalopathy Atypical Rett syndrome West syndrome	<i>CDKL5</i>
<input type="checkbox"/> TA60	Congenital insensitivity to pain and anhidrosis	<i>NTRK1</i>	<input type="checkbox"/> 552	X-linked hydrocephalus, X-linked spastic paraplegia MASA CRASH syndrome	<i>LICAM</i>
<input type="checkbox"/> TA78	Tyrosine hydroxylase deficiency	<i>TH</i>			
Pulmonology Disorders					
<input type="checkbox"/> T829	Cystic fibrosis/congenital bilateral absence of the vas deferens	<i>CFTR</i>			
Renal Disorders					
<input type="checkbox"/> TA64	Alport syndrome	<i>COL4A5</i>	<input type="checkbox"/> TA59	Dent disease X-linked recessive nephrolithiasis	<i>CLCN5</i>
<input type="checkbox"/> TA71	Branchiootic syndrome 3	<i>SIX1</i>	<input type="checkbox"/> T422	Polycystic kidney disease, deletion/duplication only	<i>PKD1/PKD2/TSC2</i>
<input type="checkbox"/> TA73	Dent disease 2 Lowe syndrome	<i>OCRL</i>	<input type="checkbox"/> TB29	Renal-Coloboma syndrome Papillorenal syndrome	<i>PAX2</i>
Reproductive Disorders - Disorders of Sexual Differentiation					
<input type="checkbox"/> 339	Adrenal hyperplasia POR deficiency	<i>POR[^]</i>	<input type="checkbox"/> 259	XY gonadal dysgenesis	<i>SRY[^]</i>
<input type="checkbox"/> TA89	X-linked adrenal hypoplasia congenita	<i>NROB1 (DAX1)</i>			
Reproductive Disorders - Infertility					
<input type="checkbox"/> 522	FMR1-associated premature ovarian failure, CGG repeat analysis only	<i>FMR1</i>			
Rheumatologic Disorders					
<input type="checkbox"/> 215	Familial Hibernian fever TRAPS exons 2-5 sequencing only	<i>TNFRSF1A</i>	<input type="checkbox"/> 216	Hyper-IgD syndrome (MVK) exons 8 and 10 sequencing only	<i>MVK</i>
<input type="checkbox"/> 214	Familial Mediterranean fever exons 2,3 and 10 sequencing only	<i>MEFV</i>	<input type="checkbox"/> 217	Muckle-Wells Familial cold urticaria NOMID exon 3 sequencing only	<i>CIAS1</i>
Skeletal Disorders					
<input type="checkbox"/> TA74	Campomelic dysplasia	<i>SOX9</i>	<input type="checkbox"/> 472	Grieg cephalopolysyndactyly syndrome	<i>GLI3</i>
<input type="checkbox"/> 225	Cartilage-hair hypoplasia and associated disorders	<i>RMRP[^]</i>	<input type="checkbox"/> TB13	KBG syndrome	<i>ANKRD11</i>
<input type="checkbox"/> 285	Cherubism	<i>SH3BP2[^]</i>	<input type="checkbox"/> TA61	Pseudoachondroplasia Multiple epiphyseal dysplasia	<i>COMP</i>
<input type="checkbox"/> 282E	Chondrodysplasia punctata, X-linked	<i>ARSE</i>	<input type="checkbox"/> 1861E	X-linked dominant hypophosphatemia	<i>PHEX</i>
<input type="checkbox"/> TB31	Familial hypocalciuric hypercalcemia	<i>CASR</i>	<input type="checkbox"/> TB22	Holt-Oram Syndrome	<i>TBX5</i>

All sequencing tests include del/dup analysis unless indicated by a [^] or otherwise noted

Many other tests are available on other requisition forms. Please visit genedx.com to find the right test for your patient.

Did you Remember to...?

- Label specimen tube appropriately with TWO identifiers
- Get a signature for medical necessity and patient consent
- Fill out sample submission form (pages 3 - 6)
- Complete clinical information (page 7)
- Complete payment form (page 1)

Account # _____ Account Name _____

First Name _____

Last Name _____

Date of Birth (mm/dd/yy) _____

PLEASE ATTACH DETAILED MEDICAL RECORDS

Clinical Diagnosis: _____ **ICD-10 Codes:** _____ **Age at Initial Presentation:** _____

Parent/Carrier testing (Circle One: Asymptomatic/Symptomatic)

Perinatal History

- Prematurity
- IUGR
- Oligohydramnios
- Polyhydramnios
- Cystic hygroma/increased NT

Growth

- Failure to thrive (%ile: _____)
- Growth retardation/short stature (%ile: _____)
- Overgrowth (%ile: _____)
- Macrocephaly
- Microcephaly

Physical/Cognitive Development

- Fine motor delay
- Gross motor delay
- Speech delay
- Intellectual disability/MR
IQ: _____
- Learning disability
- Developmental regression

Behavioral

- Autism spectrum disorder
- Autistic features
- Obsessive-compulsive disorder
- Stereotypic behaviors
- Other psychiatric symptoms

Craniofacial/Ophthalmologic/Auditory

- Blue/gray sclerae
- Cataracts
- Cleft lip/palate
- Coloboma of eye
- CPEO (ophthalmoplegia)
- Glaucoma
- Ptosis
- Blindness
- Optic atrophy
- Retinitis pigmentosa
- Hearing loss
- Ototoxicity (aminoglycoside-induced)
- External ear malformation
- Other visual abnormality type: _____
- Facial dysmorphism - please describe:

Cardiac/Congenital Heart Malformations

- Atrial septal defect
- Ventricular septal defect
- Coarctation of aorta
- Hypoplastic left heart
- Tetralogy of Fallot
- Cardiomyopathy
- Arrhythmia/conduction defect
- Other: _____

Cancer/Malignancy

- Age of onset: _____
- Tumor type: _____
- Location(s): _____
- Affected relatives: _____

Skin, Hair, and Nail Abnormalities

- Connective tissue abnormalities: _____
- Abnormal hair or nails: _____
- Abnormal pigmentation
- Hypopigmentation/hyperpigmentation: _____
- Axillary and/or inguinal freckling
- Blistering
- Ichthyosis/hyperkeratosis
- Skin tumors/malignancies
- Other: _____

Brain Malformations/Abnormal Imaging

- Agenesis of the corpus callosum
- Holoprosencephaly
- Lissencephaly
- Cortical dysplasia
- Heterotopia
- Hydrocephalus
- Brain atrophy
- Periventricular leukomalacia
- Hemimegalencephaly
- Abnormalities of basal ganglia
- Other: _____

Neurological/Muscular

- Ataxia
- Chorea
- Dystonia
- Hypotonia
- Hypertonia
- Seizures type: _____
- Spasticity
- Exercise intolerance/easy fatigue
- Muscle weakness
- Stroke/stroke-like episodes
- Recurrent headache/migraine

Gastrointestinal

- Gastroschisis/omphalocele
- Pyloric stenosis
- Tracheoesophageal fistula
- Eosinophilic esophagitis
- Gastrointestinal reflux
- Recurrent vomiting
- Chronic diarrhea
- Constipation
- Chronic intestinal pseudo-obstruction
- Hirschsprung disease
- Hepatic failure
- Elevated transaminases

Skeletal/Limb abnormalities

- Abnormal ribs (TC ratio: _____; Specify: _____)
- Contractures
- Club foot
- Fractures (# _____; Area: _____)
- Limb anomaly (Specify: _____)
- Polydactyly (Specify: _____)
- Syndactyly (Specify: _____)
- Scoliosis
- Vertebral anomaly (Specify: _____)
- Other: _____

Genitourinary Abnormalities

- Ambiguous genitalia
- Hypospadias
- Hydronephrosis
- Undescended testis
- Kidney malformation
- Renal agenesis
- Renal tubulopathy
- Other: _____

Endocrine

- Diabetes mellitus: Type I Type II
- Hypothyroidism
- Hypoparathyroidism
- Pheochromocytoma/paraganglioma

Hematologic/Immunologic

- Recurrent fever
- Anemia/neutropenia/pancytopenia
- Immunodeficiency: Type: _____
- Other: _____

Additional relevant clinical info: _____

I understand that my health care provider has ordered the following genetic testing for {me/my child}: _____.

General Information About Genetic Testing

What is genetic testing?

DNA provides instructions for our body's growth and development. Genes are distinct sequences of DNA, and are arranged on chromosomes. The DNA in a gene contains instructions for making proteins, which determine things like growth and metabolism as well as traits like eye color and blood type. Genetic disorders are caused by certain changes in DNA affecting the structure or number of chromosomes. Genetic testing is a laboratory test that tries to identify these changes in chromosomes or the DNA. Genetic testing can be a diagnostic test, which is used to identify or rule out a specific genetic condition. Genetic screening tests are used to assess the chance for a person to develop or have a child with a genetic condition. Genetic screening tests are not typically diagnostic and results may require additional testing.

The purpose of this test is to see if I, or my child, may have a genetic variant or chromosome rearrangement causing a genetic disorder or to determine the chance that I, or my child, will develop or pass on a genetic disorder in the future. 'My child' can also mean my unborn child, for the purposes of this consent.

If I/my child already know the specific gene variant(s) or chromosome rearrangement that causes the genetic disorder in my family, I will inform the laboratory of this information.

What could I learn from this genetic test?

The following describes the possible results from the test:

1) Positive: A positive result indicates that a genetic variant has been identified that explains the cause of my/my child's genetic disorder or indicates that I/my child am at increased risk to develop the disorder in the future. It is possible to test positive for more than one genetic variant.

2) Negative: A negative result indicates that no disease-causing genetic variant was identified by the test performed. It does not guarantee that I/my child will be healthy or free from genetic disorders or medical conditions. If I/my child test negative for a variant known to cause the genetic disorder in other members of my/my child's family, this result rules out a diagnosis of the same genetic disorder in me/my child due to this specific change.

3) Inconclusive/Variant of Uncertain Significance (VUS): A finding of a variant of uncertain significance indicates that a genetic change was detected, but it is currently unknown whether that change is associated with a genetic disorder either now or in the future. A variant of uncertain significance is not the same as a positive result and does not clarify whether I/my child is at increased risk to develop a genetic disorder. The change could be a normal genetic variant or it could be disease-causing. Further analysis may be recommended, including testing parents and other family members. Detailed medical records or information from other family members also may be needed to help clarify results.

4) Unexpected results: In rare instances, this test may reveal an important genetic change that is not directly related to the reason for ordering this test. For example, this test may tell me about the risk for another genetic condition I/my child is not aware of or it may indicate differences in the number or rearrangement of sex chromosomes. This information may be disclosed to the ordering health care provider if it likely impacts medical care.

Result interpretation is based on currently available information in the medical literature, research and scientific databases. Because the literature, medical and scientific knowledge are constantly changing, new information that becomes available in the future may replace or add to the information GeneDx used to interpret my/my child's results. Providers can contact GeneDx at any time to discuss the classification of an identified variant. In addition, I or my/my child's health care providers may monitor publicly available resources used by the medical community, such as ClinVar (www.clinvar.com), to find current information about the clinical interpretation of my/my child's variant(s).

For tests that evaluate data from multiple family members, my spouse, or partner concurrently, results may be included in a single comprehensive report.

What are the risks and limitations of this genetic test?

- Genetic testing is an important part of the diagnostic process. However, genetic tests may not always give a definitive answer. In some cases, testing may not identify a genetic variant even though one exists. This may be due to limitations in current medical knowledge or testing technology.
- Accurate interpretation of test results may require knowing the true biological relationships in a family. Failing to accurately state the biological relationships in my/my child's family may result in incorrect interpretation of results, incorrect diagnoses, and/or inconclusive test results. In some cases, genetic testing can reveal that the true biological relationships in a family are not as they were reported. This includes non-paternity (the stated father of an individual is not the biological father) and consanguinity (the parents of an individual are related by blood). It may be necessary to report these findings to the health care provider who ordered the test.
- Genetic testing is highly accurate. Rarely, inaccurate results may occur for various reasons. These reasons include, but are not limited to: mislabeled samples, inaccurate reporting of clinical/medical information, rare technical errors, or unusual circumstances such as bone marrow transplantation, or the presence of change(s) in such a small percentage of cells that the change(s) may not be detectable by the test (mosaicism).
- This test does not have the ability to detect all of the long-term medical risks that I/my child might experience. The result of this test does not guarantee my health or the health of my child/fetus. Other diagnostic tests may still need to be done, especially when only a genetic screening test has been performed previously.
- Occasionally, an additional sample may be needed if the initial specimen is not adequate.

Patient Confidentiality and Genetic Counseling

It is recommended that I receive genetic counseling before and after having this genetic test. I can find a genetic counselor in my area here: www.nsgc.org. Further testing or additional consultations with a health care provider may be necessary.

To maintain confidentiality, the test results will only be released to the referring health care provider, to the ordering laboratory, to me, to other health care providers involved in my/my child's diagnosis and treatment, or to others as entitled by law. The United States Federal Government has enacted several laws that prohibit discrimination based on genetic test results by health insurance companies and employers. In addition, these laws prohibit unauthorized disclosure of this information. For more information, I understand that I can visit www.genome.gov/10002077.

International Specimens

If I/my child reside outside the United States, I attest that by providing a sample for testing, I am not knowingly violating any export ban or other legal restriction in the country of my/my child's residence.

Additional information about the specific test being ordered is available from my health care provider or I can go to the GeneDx website, www.genedx.com. This information includes the specific types of genetic disorders that can be identified by the genetic test, the likelihood of a positive result, the limitations of genetic testing, as well as information about how specimens and information are stored and used.