720 Twentieth Street South, Suite 330 Birmingham, Alabama 35294-0005 Phone: (205) 934-5562 Fax: (205) 996-2929

www.uab.edu/medicine/genetics/medical-genomics-laboratory

UAB MGL Accession

For MGL Lab Use Only

	Received:	Reviewed:	Accession:	Billing:	Other:
Initials:					
Date:					
Comment:					

Important Notes

-This form must accompany all specimens received -Billing information (page 5) must be included Additional information is available online at www.uai			-All specimens received must include two patient identifiers and collection date -Testing must be ordered by a qualified clinician					
	Additi	onal information		isition Form		edicai-ge	enomics-iaborat	cory
	Patier	nt Informatio	·			Ord	ering Physic	ian:
Sample Collected: (MM/DD/YY)				□ Please chec	k box if phy		ould receive rep	
Legal Name: (First) (MI) (Last)			Name: NPI:				NPI:	
				Institution:				
DOB: (MM/DD/YY)		MRN:		Address:				
Address:				City:			State:	Zip:
City:		State:	Zip:	Country:		Phone		
Sex at Birth:		SSN:		Please check presult delivery		□ Fax:		
Parent or Guardian name	(if minor)	:		□ Email:				
	Referrir	ng Lab/Hospit	tal:			Addit	ional Report	ts to:
☐ Please check box if lab/hospital should receive report directly			Name:					
Name:				Institution:				
Institution:				Address:				
Address:				City:			State:	Zip:
City:		State:	Zip:	Country:		Phone	<u> </u> :	
Country:	Phone:			Please check preferred				
Please check preferred result delivery:	□ Fax:			result delivery	, <u> </u>			
□ Email:								
			Previous Te	esting Histor	γ			
Charle III that and he	☐ Patie	ent or family m	ember is pregnant. LMP:		-	nt has h	ad chemothe	rapy in the past 6 months
Check all that apply:	☐ Patie	ent has had a b	one marrow transplant	☐ Infectious diseases (AIDS, Hepatitis, etc.)				
		На	as this patient or relatives ha	ad previous test	ting?□ Ye	s 🗆 No		
Name/Relationship to patient:			Test/Variant/Lab:					
Name/Relationship to patient:			Test/Variant/Lab:					
			Informe	d Consent				
	test(s) req	uested with the	enefits, limitations, and implica patient/guardian and I have ar e maintained.	ations of genetic	_			

MEDICAL GENOMICS LABORATORY

720 Twentieth Street South, Suite 330 Birmingham, Alabama 35294-0005

Phone: (205) 934-5562 Fax: (205) 996-2929 UAB MGI Accession

Name: DOB: (MM/DD/YY)

Lymphocyte/White Blood Cell-based Comprehensive Testing via Next-Gen Sequencing ☐ RUSH Analysis: Testing completed within 15 working days of receipt of sample (Additional \$600 RUSH fee applied; only available for tests on this page) NF1/Legius syndrome and Other RASopathy Related Conditions NF2/Schwannomatosis/Meningiomatosis ☐ NF1-NG: NGS and Del/Dup: NF1 only ☐ NF2-NG: NGS and Del/Dup: NF2 only ☐ NFSP-NG: NGS and Del/Dup: NF1 and SPRED1 ☐ SCH-NG: NGS: 3 genes: LZTR1, NF2, and SMARCB1; and Del/Dup: □ NNP-NG: NGS: 17 genes (no NF1): BRAF, CBL, HRAS, KRAS, LZTR1, NF2, LZTR1, and SMARCB1 MAP2K1, MAP2K2, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, SHOC2, SOS1, SOS2, and SPRED1; and Del/Dup: SPRED1 and LZTR1 ☐ MEN-NG: NGS: 4 genes: NF2, SMARCB1, SMARCE1, and SUFU; and Del/Dup: NF2 and SMARCB1 ☐ RAS-NG: NGS: 18 genes: BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2. NF1. NRAS. PPP1CB. PTPN11. RAF1. RASA2. RIT1. SHOC2. SOS1. Peripheral Nerve Sheath Tumor Testing SOS2, and SPRED1; and Del/Dup: NF1, SPRED1, and LZTR1 ☐ PNT-NG: NGS: 6 genes: NF1, NF2, KRAS, LZTR1, PTPN11 and ☐ CST-NG: NGS: HRAS only SMARCB1; and Del/Dup: NF1, NF2, LZTR1, and SMARCB1 McCune-Albright Syndrome **Rhabdoid Tumor Predisposition Syndrome** ☐ GNAS-NG: NGS: GNAS exons 8 and 9 only ☐ RT-NG: NGS: SMARCB1 and SMARCA4; and Del/Dup: SMARCB1 only **Tuberous Sclerosis Complex** Capillary Malformation Arteriovenous Malformation Syndrome ☐ TSCP-NG: NGS and Del/Dup: TSC1 and TSC2 ☐ RASA-NG: NGS: and Del/Dup: RASA1 and EPHB4

Additional Information

Test Description Key:

Next Generation Sequencing (NGS) Deletion/Duplication analysis (Del/Dup) For additional testing options via tumor/biopsy, please see page 3 of this order form.

Please contact the lab via phone (205) 934-5562 or via email at medgenomics@uabmc.edu if you have any questions when completing this form. For additional information, visit our website at www.uab.edu/medicine/genetics/medical-genomics-laboratory

Important points of consideration for testing

The average coverage for all of our panels is >1600x. Specifically for the NF1 gene, the NGS approach covers >98% of the NF1 coding region at \geq 350X and 99% ≥200X, allowing detection of very low level mosaicism, down to 3-5% variant allele fraction respectively. For all other genes on our panels, the NGS approach covers an average of 99% at ≥200X. Remaining regions are covered at ≥30X. However, for patients with segmental/mosaic presentation, deep coverage in lymphocyte cells may be insufficient to identify the underlying gene change. Testing the affected tissue(s) may be necessary to confirm a diagnosis. Please see page 3 for our tumor/biopsy-based testing options.

Please note: For patients with an ongoing pregnancy who require comprehensive NF1 testing, "NF1-R" is recommended due to the sensitivity and fast turnaround time of this test (please see page 4 for this option).

Specimen Requirements					
Accepted Specimens	Specimen Information:				
Specimen requirements vary based on test requested; please see our website for more details.	□ Peripheral Blood (EDTA); # Tubes: □ Extracted DNA; Source:				
-Blood: 3-6ml EDTA (receipt within one week of collection) -Saliva: OGR-575 DNA Genotek (kits are provided upon request) -DNA: extracted from lymphocyte cells, a minimum of 25ul at 3µg, O.D. value at 260:280nm ≥1.6 (must be extracted in a CLIA or equivalent certified lab) -Fibroblast cells	□ Saliva (kit must be provided by MGL) □ Other, please describe: Please note: failure to provide a date of collection can delay release of results Sample Collected Date (required):				

MEDICAL GENOMICS LABORATORY

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ningham, Alabama 35294-0005 Fax: (205) 996-2929 www.uab.edu/medicine/genetics/medical-genomics-laboratory

Phone: (205) 934-5562

UAB MGL Accession

Name: DOB: (MM/DD/YY) Tumor/Biopsy-based Comprehensive Testing ☐ Please check here if blood or DNA is provided for confirmation testing. Blood Collected: (MM/DD/YY) NF2-, LZTR1-, SMARCB1-related Schwannomatosis NF1/SPRED1 on biopsied CALs and Neurofibromas ☐ NF2-NG: Fresh/Frozen Tumor or Tumor Block for NGS with reflex **Please contact the laboratory at least one week in advance of the to Sanger as needed and Del/Dup: NF2 only biopsy before ordering this test as media must be provided in advance ☐ SCH-NG: Fresh/Frozen Tumor or Tumor Block for NGS with reflex and special shipping instructions apply. Biopsies must arrive within 60 to Sanger as needed and Del/Dup: NF2, LZTR1, and SMARCB1 hours of collection** **Rhabdoid Tumor Predisposition Syndrome** □ NF14C: Sanger(RNA) and Del/Dup: NF1 (with automatic reflex to ☐ RT-NG: Fresh/Frozen Tumor or Tumor Block for NGS with reflex to SPRED1) on biopsied CALs Sanger as needed SMARCB1 and SMARCA4; and Del/Dup: SMARCB1 ☐ NF14N:Sanger(RNA) and Del/Dup: NF1 on biopsied neurofibromas **RASopathy Related Conditions** Meningiomatosis ☐ MEN-NG: Fresh/Frozen Tumor or Tumor Block for NGSwith reflex to Sanger as needed: NF2, SMARCB1, SMARCE1, and SUFU; and Del/Dup: NF2 and SMARCB1 □ NNP-NG: Fresh/Frozen Tumor for NGS (no *NF1*) or Tumor Block for NGS with reflex to Sanger as needed: BRAF, CBL, HRAS, KRAS, LZTR1, Peripheral Nerve Sheath Tumor Testing MAP2K1, MAP2K2, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, SHOC2, ☐ PNT-NG: Fresh/Frozen Tumor for NGS with reflex to Sanger as SOS1, SOS2, and SPRED1; and Del/Dup: SPRED1 and LZTR1 needed: NF1, NF2, KRAS, LZTR1, PTPN11 and SMARCB1; and Del/Dup: NF1, NF2, LZTR1, and SMARCB1 ☐ RAS-NG: Fresh/Frozen Tumor or Tumor Block for NGS with reflex to **Tuberous Sclerosis Complex** Sanger as needed: BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, NF1, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, SHOC2, SOS1, SOS2, ☐ TSC-NG: Fresh/Frozen Tumor or Tumor Block for NGS with and SPRED1; and Del/Dup: NF1, SPRED1, and LZTR1 reflex to Sanger as needed and Del/Dup: TSC1 and TSC2 **Additional Information** Test Description Key:

Next Generation Sequencing (NGS)
Sanger Sequencing (Sanger)
Deletion/Duplication analysis (Del/Dup)

Please contact the lab via phone (205) 934-5562 or via email at medgenomics@uabmc.edu if you have any questions when completing this form.

For additional information, visit our website at www.uab.edu/medicine/genetics/medical-genomics-laboratory

Important points of consideration for testing

- The MGL offers next generation sequencing testing options that provide the ability to identify variants (indels and substitutions) as low as 3% of the alleles, depending on coverage in the regions of interest.
- NF1/SPRED1 biopsy-based testing is considered the "gold standard" approach for confirming a diagnosis of mosaic/segmental NF1 or Legius Syndrome.
- A <u>minimum</u> of two biopsies is required for NF1 testing. Two or more tumors are suggested for our other testing options. There are no additional fees associated with testing on additional biopsy specimens.
- When proceeding with tumor-based testing for NF2-related SWN, test code "SCH-NG" (NF2, SMARCB1, and LZTR1) is suggested unless the patient has findings unique to NF2.

Specimen Requirements					
Accepted Specimens	Specimen Information:				
Specimen requirements vary based on test requested; please see our website for more details.	□ Frozen □ Fresh				
more details.	□ Paraffin Curls □ Paraffin Block				
-CALs or Neurofibromas: require special media transport (kits are provided upon request, to be arranged at least one week in advance of procedure)	□ Extracted DNA; Source:				
-Fresh/Frozen Tumors: please submit a pathology report; for additional	☐ Biopsy-CAL-spot; # biopsies:				
requirements, see tumor submission checklist -Formalin-Fixed Paraffin-Embedded Tumors (Tumor Block): please submit a	□ Biopsy-Neurofibroma; # biopsies:				
pathology report; blocks are preferred to curls, when available; for additional	Please note: failure to provide a date of collection can delay release of results				
requirements, see tumor submission checklist	Tumor Collection Date (required):				

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Name: (First) (MI)	(Last)		DOB: (MM/DD/YY)		
Sanger Testing from Blood/Saliva/DNA					
NF1/Legius syndrome and Other RASo	pathy Related Conditions	Medium Chain Acyl-CoA Dehydrogenase Deficiency (MCADD)			
☐ NF1-R: Sanger and Del/Dup: <i>NF1 (RNA)</i>		☐ MCD1: Targ	geted analysis of exon 11 and, if needed, reflexive full gene		
☐ NFSP-R: Sanger and Del/Dup: NF1 (RNA)	and SPRED1 (gDNA)		y Sanger: ACADM		
Von Hippel-Lind	au	А	Autosomal Recessive Polycystic Kidney Disease		
☐ VHL1: Sanger and Del/Dup: VHL		☐ PKDL: Linka	age Analysis for informativity		
PTEN-Related Diso	rders				
☐ PTEN1: Sanger and Del/Dup: PTEN		☐ PKDPL: Pre	enatal Linkage (see Prenatal Specimen Requirements)		
Fragile X syndror	ne	FATHER: Na	ame and DOB (mm/dd/yyyy)		
☐ FRX: PCR and, if needed, reflexive confirm Southern blot analysis: <i>FMR1</i>	matory testing by	MOTHER: <u>N</u>	lame and DOB (mm/dd/yyyy)		
	Known Var	riant Testing			
and/or FISH analysis (Complete Previous Te	eviously identified known varia esting History: Page 1)	ant in any gene t	that is available at our lab by Sanger sequence, MLPA,		
☐ KT2-NG: Targeted testing for a known va of alleles (Complete Previous Testing Histo		ne alleles and de	etection of mosaicism for a variant present in at least 3%		
☐ RT2: Targeted RNA-based testing for VO	US found during Next Generat	ion Sequencing	(Complete Previous Testing History: Page 1)		
☐ PT2: Prenatal testing (see Prenatal Speci☐ MCC: Blood specimen for mothe			ng History: Page 1) tudies (required if not previously tested)		
	☐ Other (unlisted option	ns. please inc	dicate below)		
	**Please contact lab before				
		_			
	Additional	Information			
Test Description Key: Next Generation Sequencing (NG) Sanger Sequencing (Sanger) Deletion/Duplication analysis (Del/Dup)	Please contact the lab via phone questions when completing this	e (205) 934-5562 (s form.	or via email at medgenomics@uabmc.edu if you have any		
	Specimen R	equirements	s		
Accepted Prenatal Sp	ecimens		Prenatal Specimen Information:		
Specimen requirements vary based on test requirements	ested; please see our website	□ Amniotic fluic	d 🗆 Direct CVS (cleaned)		
for more detailsDirect CVS: minimum 10 mg cleaned villi		□ Cultured amn	niocytes Cultured villus cells		
-Direct amniotic fluid: minimum 10 ml fluid		Location of ba	ack-up culture (required):		
-Cultured CVS: Two T25 flasks (>70% confluent)		Sample Collec	cted Date (required):		
-Cultured amniocytes: Two T25 flasks (>70% co	·		Specimen Information:		
Specimen requirements vary based on test requi		□ Peripheral Blo	lood (EDTA); # Tubes:		
for more details.		□ Extracted DN	, , ,		
-Blood: 3-6ml EDTA (must arrive within 60-72 hc RNA-based tests)	ours of collection for	☐ Other, please			
-DNA: extracted from lymphocyte cells, a minim	um of 25ul at 3μg, O.D. value at		ilure to provide a date of collection can delay release of results		
260:280nm ≥1.6 (must be extracted in a CLIA or -Sperm (for KT2-NG only): Fresh, sterile semental bank/cryobank facility			ected Date (required):		

LIFEMEDICAL GENOMICS LABORATORY

720 Twentieth Street South, Suite 330 Birmingham, Alabama 35294-0005

mingham, Alabama 35294-0005 Fax: (205) 996-2929 www.uab.edu/medicine/genetics/medical-genomics-laboratory

Phone: (205) 934-5562

UAB MGL Accession

Name:	(First)	(⋈1)	(Last)		DOB: (MM	/DD/YY)
			Bil	ling		
		☐ Please h	nold sample until furthe	er notice from the	ordering faci	lity.
			Important	Information		
	, ,	. , ,	agree that you have d		0.	, .
						e: If you are paying via self-payment or Requests for cancellation, test change, or
						days of specimen arrival. Individuals or
						rges for the cost of testing.
		the billing polici	es is available at <u>www</u>	.uab.edu/medicin	ie/genetics/m	nedical-genomics-laboratory
☐ Institution	onal Bill	□ Dl	- - - - - - - -			41
		☐ Please ci	neck box if billing instit	ution snould recei	ve report dire	естіу
Institution:					PO# (if applic	able):
Address:						
City:				State:		Zip:
Contact (Name	e and Title):					Preferred method of contact: ☐ Email ☐ Phone
Email:			Phone:			Fax:
☐ Self-Payr	ment Enclosed *PLE/	ASE ENSURE ALL IN	IFORMATION IS LEGIBLE*			
	[☐ Visa	☐ MasterCard	☐ Discover	☐ Americ	can Express
Name as it app	pears on card:					,
Card Number:				Expiration: (MM/	/YY)	3-digit Security Code:
Cardholder's	Signature:					Preferred method of contact: ☐ Email ☐ Phone
Email:						Phone:
☐ Bill Third Party Insurance Company						
Please include a copy of the pre-approval statement or provide the approval number if payment has been pre-authorized in advance of shipment. Insurance Carrier:						
Insurance pre-verification/authorization previously performed? 🗆 Yes 🗅 No If yes, approval number is required:						
Please check box if you would <u>not</u> like insurance pre-verification/authorization to be performed by the MGL.						
ICD-10 Code	s (required):	Please send	a legible copy of the pa	tient's insurance ca	rd, front and b	ack.
		Impo	rtant Consideration	ons for Insurar	nce Billing	

For a list of contracted insurance companies, please visit our website or call our billing coordinator at 205-934-5523. As insurance prices are not listed, please call the billing coordinator to request a quote, if needed.

The MGL will contact the insurance provider to inquire regarding the CPT code coverage for all samples submitted for insurance payment. The healthcare provider will be contacted with the copay/deductible and also in cases where the insurance provider denies coverage of the requested codes or supporting documents are required from the provider to confirm coverage. The ordering provider/clinician's office is responsible for obtaining prior authorization, if it is required. This service is not offered for prenatal samples.

Please note: An insurance verification is not a guarantee of payment. Out of State Medicaid is not accepted under <u>any</u> circumstances. All RUSH fees must be paid up front. By completing this form, you agree that you have discussed the MGL's billing policies with your patient.

720 South Twentieth Street, Suite 330 Birmingham, Alabama 35294-0005 www.genetics.uab.edu/medgenomics

Tel: (205) 934-5562 Fax: (205) 996-2929

Informed Consent for Genetic Testing

This form does not need to be returned to the Medical Genomics Laboratory if Informed Consent portion of the Test Request form has been signed.*

I hereby consent for:		
Name:	DOB:	Gender:

To participate in genetic testing for the following RNA/DNA-based cascade of tests ordered by my physician at the University of Alabama at Birmingham (UAB) Medical Genomics Laboratory (MGL):

Genetic Tests:	

I understand that:

- 1. Any biological samples submitted for genetic testing (e.g., blood, cheek cells, saliva, amniotic fluid, chorionic villi, tumor, and/or tissue) will be removed from me and/or my minor child(ren) using standard techniques which carry their associated risks.
- 2. Any samples obtained will be used for the purpose of attempting to determine if I and/or members of my family carry genetic changes in the disease genes ordered by my physician.
- 3. The genetic tests performed at the MGL are the most sensitive developed and are highly specific. However, sensitivity and specificity are test-dependent. Additional testing details and the specific detection rates of each test can be found at www.genetics.uab.edu/medgenomics.
- 4. The following are possible outcomes for the specific tests listed above:

Positive	Unknown Significance	Negative
This is an indication that I may be predisposed to or have the specific disease, or condition tested. Further testing may be needed to confirm the diagnosis.	There may be a possibility that the laboratory findings will be ambiguous or of unknown significance. This may require additional testing from me or my family members. In rare circumstances, findings may be suggestive of a condition different than the diagnosis that was originally made.	technology and incomplete knowledge of genes, some changes in RNA/DNA or protein

- 5. In other cases, the RNA/DNA test is unable to identify an abnormality although the abnormality may still exist. This event may be due to incomplete knowledge of the gene structure or an inability of current technology to identify certain types of mutations in the gene. When clinically necessary, the MGL may use a method called linkage analysis. This method is not a direct test, but will report the probability that you and/or family members have an inherited disease or disorder. In some families, the markers used in linkage analysis may be uninformative. If so, linkage testing cannot provide results for the family members in question.
- 6. The RNA/DNA analysis performed by the MGL is specific for the genetic test listed above and in no way guarantees my health or the health of my living or unborn children. The MGL cannot be responsible for an erroneous clinic diagnosis made elsewhere.
- 7. The tests performed at the MGL are expanded and improved continuously. The tests offered are not considered research but are considered the best and newest laboratory service that can be offered. Genetic testing is complex and utilizes specialized materials so there is always some very small possibility that the test will not work properly or that an error will occur. There is a low error rate (perhaps 1 in 1000 samples) even in the best laboratories. Additionally, in very rare instances, this test may reveal an important genetic change that is not directly related to the clinical reason for ordering this test. This would be considered an incidental finding. The MGL reserves the right to report these incidental findings if they are clinically relevant to the patients and/or their families In such instances, these results will be discussed with my healthcare provider and additional testing may be recommended. My signature acknowledges my voluntary participation in this test, but in no way releases the laboratory and staff from the MGL from their professional or ethical responsibility to me.
- 8. The MGL does not return DNA samples to individuals or physicians. While the MGL is not a specimen banking facility, in some cases it may be possible for the laboratory to reanalyze my remaining DNA upon request. The request for additional studies must be ordered by my referring physician/counselor and there will be an additional fee.

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- 9. An aliquot of my DNA/RNA may be used for validation, educational and/or research purposes. For some molecular genetic tests, a synopsis of clinical information and test results may be included in HIPAA-compliant, de-identified public databases as part of the National Institute of Health's effort to improve diagnostic testing and our understanding of the relationships between genetic changes and clinical symptoms. If I would like to opt out of participation, I can contact the MGL via email at medgenomics@uab.edu or calling the laboratory at 205-934-5562.
- 10. Because of the complexity of genetic testing and the important implications of the test results, results will only be reported to me through a physician, genetic counselor, or a certified genetics professional. The results are confidential to the extent allowed by law. They will only be released to other medical professionals or other parties with my written consent or as otherwise allowed by law. Participation in testing is completely voluntary.
- 11. For Prenatal Testing: If prenatal diagnosis is being performed, fetal cells obtained by chorionic villus sampling or amniocentesis will be used. In order to perform accurate prenatal diagnosis, biological samples are required for the fetus as well as from the affected individual in the family and from the biological mother.
- 12. I and/or my physician/counselor have signed the informed consent portion of the test order form indicating that we have discussed the items on this document and I will also receive a copy of this consent form.

Subject's Signature	Date	Physician's Signature	Date
Please Print Subject's Name		Please Print Physician's Name	
Assent of Parent	Date	Genetic Counselor's Signature	Date
Assent of Child	 Date	Please Print Genetic Counselor's I	Name



MEDICAL GENOMICS LABORATORY: NF1/SPRED1 & RASOPATHIES PHENOTYPIC CHECKLIST FORM

L/B				
			 Date of Exam/_	/
DEMOGRAPHIC I				
Gender: Male	Female	Date of Birth:/	<i>J</i>	
Ethnicity: Mother: Father:] Hispanic	
<u>DIAGNOSIS</u>				
Clinical diagnosis:		with multiple lentigines (LEGeous syndrome (CFC)	☐ Multiple CAL spots-o ☐ Familial multiple CAI ☐ Legius syndrome ☐ Isolated neurofibrom ☐ Single NF1 feature OPARD) syndrome ☐ Unknown	L spots-only
□ > □ A □ F	6 CAL spots >5mm, postp 2 neurofibromas or 1 plexi xillary or inguinal freckling	ubertal >15mm	Optic glioma 2 Lisch nodules distinct osseous lesion ria	
Family history: S Consanguinity: Y		nder") 🔲 Familial (proband	is a "non-founder") 🔲 Unk	nown
GENERAL INFOR	<u>MATION</u>			
Height: cm (S	Short stature) Hea	ad circumference: cm	(Macrocephaly)	Weight: kg
Clinical Features				
 □ M □ M	bsent lacrocephaly alpebral ptosis lidface hypoplasia ther:	☐ Unknown ☐ Bitemporal narrowin ☐ Low posterior hairlin ☐ Short / webbed nec	ne Low set / ro	sm otated ears ng palpebral fissures
A	provide detail on size/ loca bsent eep palmar/plantar crease lultiple nevi / lentigines	Unknown		
☐ t ☐ ii Skin fold free Groii Axilla	eral impression on the bord ypical well-defined smooth rregular margins, ragged b ckling:	ders of the CAL-spots: borders diameter: orders diameter: None	□ >100	

MEDICAL GENOMICS LABORATORY: NF1/SPRED1 & RASOPATHIES PHENOTYPIC CHECKLIST FORM

U/B

Lisch nodules:	□ None	Unknown	Left	Right	
Neurofibromas:					
Histop	urofibromas (soft of athologically configured in the configuration of th	irmed: Y / N	skin w/ pinkish or skin w/ pinkish or solon >500 >500 crneath the skin): 500 >500 >500	Arm ☐ R Har ent, please provide de ymptomatic	d
☐ Hyp ☐ MPI ☐ Phe	☐ Abseent by MRI ☐ Pre☐ Neothalamic glioma	ent	Unknown ptomatic Proposed Proposed Ottownoon Ottownoon Proposed Proposed	esent by MRI, asymp niasm ner glioma abdomyosarcoma ooma renile xanthogranulom	
Skeletal: Abs Lon Bon pec	ent g bone dysplasia e cysts tus excavatum ad chest / telethelia	Unknown Pseudarthrosi scoliosis pectus carinat Other:	s □ Sp	henoid wing dysplasia splastic vertebrae bitus valgus	a
<u>Cardiovascular</u> :	☐ Absent ☐ Present:	Unknown Hypertension Moya moya Arrhythmia Atrial septal de ECG anomalie Unknown	☐ Pu ☐ Hy efect ☐ Ve es ☐ Mi	rtic stenosis Rena Imonary valve stenos pertrophic cardiomyo ntricular septal defect tral valve anomaly her	is pathy
Development:	Normal for ag Gross Motor E Hyperactivity Other:	Delays	☐ Delayed for☐ Fine Motor☐ Learning dis	Delays ☐ ADD sability ☐ Unkno	☐Speech Delays

MEDICAL GENOMICS LABORATORY: NF1/SPRED1 & RASOPATHIES PHENOTYPIC CHECKLIST FORM

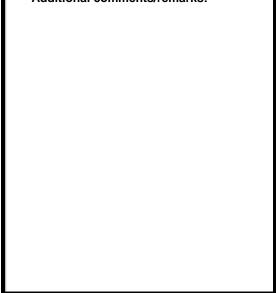


Education:	Too young for school HS completion	☐ At or above age lev☐ College graduate		elow age level gher degree	Unknown
Hematological:	abnormal hemostasis	☐ Factor XI deficiency	/	ther:	Unknown
Segmental NF ph Please indicate loc	nenotype:		oromas		
Teni		HAN	Neurofik CAL-spo Frecklin	ots	n of
Please indicate loc	cation of spinal tumors (if pres	ent)		Additional com	ments/remarks:
	C2 C2 C3 C5 C6 C7 T1 T2 T3 T4 T5 T6 T7 T8 T9 T10	C8 C8 C8 CRITICAL CRI			

Lumbar nerves

Coccygeal nerve

Sacral nerves



Cauda equina

MEDICAL GENOMICS LABORATORY: NF2 & SCHWANNOMATOSIS PHENOTYPIC CHECKLIST FORM

Patient ID:Referring Physician:		
DEMOGRAPHIC INFORMATION		
Gender: Male Female	Date of Birth://	-
	Black ☐ Native American ☐ His Black ☐ Native American ☐ His	
<u>DIAGNOSIS</u> Does the patient have a clinical diagnosis of I	NF2? 🗌 Yes 🔲 No	If Yes, age at diagnosis:
Family history: \square Sporadic \square Familial \square U	Jnknown	
SIGNS AND SYMPTOMS		
Ear: Absent Present: Bilateral Deafnes Balance Dysfunction Audiometric Abnormality, please of the control	Tinnitus describe:	
	Right Unknown	Age of Symptoms:
	nerve tumor by MRI (Age:y tibular nerve tumor, but no MRI	
Spinal schwannomas Present No evidence by MRI (Age: Lack of symptoms, but no Unknown Provide location of spinal tu		Age of Symptoms:
Other schwannomas		Age of Symptoms:
☐ Absent ☐ Unknown☐ Head ☐ Neck☐ Abdomen ☐ Pelvis	n ☐ Trunk ☐ L Arm ☐ Genital area ☐ R Arm	
Present only in an anatomically limite	ed distribution(single limb or se	egment of the spine): ☐yes or ☐no
Result SMARCB1-staining on the tun	-	mal (no <i>SMARCB1</i> -staining) Il (<i>SMARCB1</i> staining) erformed

MEDICAL GENOMICS LABORATORY: NF2 & SCHWANNOMATOSIS PHENOTYPIC CHECKLIST FORM

U⁄B		
Meningioma	as ☐ Present, Location:yrs) ☐ No evidence by MRI (Age:yrs) ☐ Unknown	Age of Symptoms:
Other spina	I tumors	Age of Symptoms:
	☐ Absent by MRI ☐ Present, asymptomatic Pathology Known: ☐ Yes, please specifiy:	Present, symptomatic ☐ Unknown ☐ No
	Provide location of spinal tumors: C to C, T_	to T, L to L
Cranial nerv	ve involvement ☐ Present, Location: ☐ No evidence by MRI (Age:yrs) ☐ Unknown	Age of Symptoms:
Skin	CAL spots	Age of Symptoms:
	Skin fold freckling Left Right Groin	Age of Symptoms:
	Cauda equina Cauda equina	Additional comments/remarks:

Coccygeal nerve

www.genetics.uab.edu/medgenomics

Tumor Specimen Submission Checklist

The following requirements must be met in order to process tumor specimens. The UAB Medical Genomics Lab now proudly offers Fresh/Frozen/FFPE Tumor testing utilizing Next Generation Sequencing. Please confirm that the submitted tissue meets each requirement by placing a check mark next to each statement. If your pathology department is unable to confirm this information for you, please select the check-box below. If Neurofibromatosis Type 1 is your primary concern, neurofibromas and biopsied CALs still require being collected in our media and are run via Sanger sequencing. Please contact the MGL at (205) 934-5562 to request collection media for these sample types.

For NGS Sequencing

	1 0		
	Fresh Tumor Specimen Checklist		
	This tumor is at least 5mm-cubed		
This specimen contains at least 60% pure tumor content			
	Each specimen has been sent in individual vials of basic, sterile culture media such as RPMI or PBS		
	and is marked with its specific location and/or tumor type		
	Frozen Tumor Specimen Checklist		
	This tumor is at least 5mm-cubed		
	This specimen contains at least 60% pure tumor content		
	This specimen has been snap frozen and sent on dry ice and is marked with its specific location		
	and/or tumor type		

Formalin-fixed paraffin embedded block			
	This tumor block has a surface area of a least 5mm squared or This specimen contains at least 3-6		
	loose paraffin curls (no slides) that are 30-50 microns thick		
	This tumor specimen contains greater than 70% nucleated cells		
	This specimen contains at least 60% pure tumor content		
	Notes or Special Comments		