



**Please be sure to fill out all highlighted fields. Failure to fill them in may result in delayed testing and delivery of results.**

## PATIENT INFORMATION

Sema4 will use this information to contact the patient via automatic email, SMS, and/or phone regarding payment, testing status, and online results access. By submitting this requisition, I confirm that I have obtained the patient's authorization to be contacted by Sema4 by these means (email address must be specific to patient listed on form).

PATIENT EMAIL ADDRESS <i>RECOMMENDED</i>		PATIENT MOBILE/PRIMARY NUMBER <i>REQUIRED</i>	
LAST NAME <i>REQUIRED</i>		FIRST NAME <i>REQUIRED</i>	
DATE OF BIRTH MM / DD / YYYY	SEX ASSIGNED AT BIRTH <input type="checkbox"/> MALE <input type="checkbox"/> FEMALE <input type="checkbox"/> INTERSEX	PATIENT IS A SPERM/EGG DONOR <input type="checkbox"/> YES <input type="checkbox"/> NO	
PARTNER / SPOUSE LAST NAME		PARTNER / SPOUSE FIRST NAME	
PATIENT/CLIENT MRN		PARTNER / SPOUSE DATE OF BIRTH MM / DD / YYYY	
ADDRESS <i>REQUIRED</i>		CITY / STATE / ZIP <i>REQUIRED</i>	

## BILLING INFORMATION

Bill to:  Insurance (Provide ICD10 in Indications for Testing)  Client/Institution  Self Pay/No Insurance

POLICYHOLDER LAST NAME <i>REQUIRED</i>	POLICYHOLDER FIRST NAME <i>REQUIRED</i>	POLICYHOLDER DOB MM / DD / YYYY <i>REQUIRED</i>
INSURANCE CARRIER <i>REQUIRED</i>	INSURANCE ID <i>REQUIRED</i>	GROUP NO. <i>REQUIRED</i>

BILLING ADDRESS  
*REQUIRED*

OTHER HEALTH COVERAGE (IDENTIFY)

**ASSIGNMENT AND RELEASE:** I hereby authorize my insurance benefits be paid directly to the provider and I understand that I am financially responsible for uncovered services. I also authorize the release of any information required to process the claim. Billing inquiries, please call 800-298-6470.

SIGNATURE \_\_\_\_\_ DATE MM / DD / YYYY

## ORDERING PROVIDER INFORMATION

NAME <i>REQUIRED</i>	GENETIC COUNSELOR
ADDRESS <i>REQUIRED</i>	CLINIC / INSTITUTION <i>REQUIRED</i>
	TELEPHONE
	FAX

**PROVIDER SIGNATURE OF CONSENT (REQUIRED):** I certify that this patient (and/or their legal guardian, as necessary) has been informed of the benefits, risks, and limitations of the laboratory test(s) requested. I have answered this person's questions. I have obtained a signed informed consent from this patient or their legal guardian for this testing in accordance with applicable laws and regulations, including N.Y. Civil Rights Law Section 79-L, and will retain this consent in the patient's medical record.

SIGNATURE \_\_\_\_\_ DATE MM / DD / YYYY

## INDICATIONS FOR TESTING

**ICD10 Dx CODE(S) (Required)**

**Carrier Screening Indications**

**Z84.81** Family history of carrier of genetic disease

**Z31.430** Encounter of female for testing for genetic disease carrier status for procreative management

**Z31.440** Encounter of male for testing for genetic disease carrier for procreative management

**Other** \_\_\_\_\_

FAMILY HISTORY OF: \_\_\_\_\_

PARTNER CARRIER OF: \_\_\_\_\_

COLLECTION DATE MM / DD / YYYY

SPECIMEN TYPE:  Peripheral Blood  Saliva  
 Other: \_\_\_\_\_

# OF BLOOD TUBES SENT: YELLOW \_\_\_\_\_ PURPLE \_\_\_\_\_

## LABORATORY TESTING INFORMATION

Patient Ancestry: \_\_\_\_\_ Preferred Language: \_\_\_\_\_

History of bone marrow transplant?  YES  NO

History of recent blood transfusion within the last 4 weeks?  YES  NO

**Note: If Yes, please contact Sema4 to confirm if an alternate specimen is needed for testing.**

Is the patient or their partner pregnant?  YES  NO

Is the patient currently using birth control medication?  YES  NO

Previous Carrier Screening?  YES  NO  
 If yes, what gene/variant: \_\_\_\_\_

## LABORATORY TEST(S) ORDERED

**Carrier Screening** (see reverse side for genes in each panel, all screening options include personalized residual risk (PRR))

Standard Pan-ethnic Carrier Screen (S4) (4 genes) (\*\*)  
 (includes carrier screening for cystic fibrosis, fragile X syndrome, spinal muscular atrophy, and Smith-Lemli-Opitz syndrome)  
 Select **BOTH** S4 above and one of the options below to order additional carrier screening:

**NEW**  Expanded Carrier Screen 502 (S4+498 genes) (\*\*^)

Expanded Carrier Screen 283 (S4+279 genes) (\*\*^)

High Frequency Pan-ethnic Carrier Screen (11 genes; S4+7 genes) (\*\*)

Expanded Carrier Screen 39 (S4+35 genes) (\*\*^)

Expanded Carrier Screen 152 (S4+148 genes) (\*\*^)

Comprehensive Jewish Carrier Screen (101 genes; S4+97 genes) (\*\*^)

Ashkenazi Jewish Carrier Screen (64 genes; S4+60 genes) (\*\*^)

Sephardic Jewish Carrier Screen (54 genes; S4+50 genes) (\*\*^)

Supplemental X-linked panel (32 genes) (\*\*) (for female patients being screened after their male reproductive partner)

AR disorders partner screened positive for (sample will be held if partner screening has not completed) (\*\*)

Custom Carrier Screen (\*\*) - Please write in each gene that should be screened below:  
 Gene(s): \_\_\_\_\_

Tay-Sachs Enzyme only (^)

Sandhoff Disease Enzyme only (^)

ECS Re-analysis  
 Previous ECS lab number (required): \_\_\_\_\_  
 Note: If a personalized residual risk was not provided with the initial testing this cannot be provided through re-analysis.

Ultra-High Resolution Microarray (targeted follow-up to ECS result) (\*)  
 Previous ECS lab number: \_\_\_\_\_  
 Gene requiring follow-up: \_\_\_\_\_

Family Studies (for phasing analysis on a first-degree relative as follow-up to a patient's Sema4 carrier screening) (\*\*)  
 Gene(s): \_\_\_\_\_  
 Variant(s): \_\_\_\_\_  
 Please provide the previously tested patient's information:  
 Sema4 ID: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Date of Birth: \_\_\_\_\_  
 Patient's relationship to relative: \_\_\_\_\_

Targeted Mutation Analysis (PGT-M setup, or for assessment for a known familial variant) (\*\*)  
 Gene(s): \_\_\_\_\_  
 Variant(s): \_\_\_\_\_  
 Was this relative's variant(s) identified at Sema4:  
 No - Please attach a copy of the relative's test report (required)  
 Yes - Sema4 ID: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Date of Birth: \_\_\_\_\_  
 Patient's relationship to relative: \_\_\_\_\_

**Infertility/Pregnancy Loss:**

Test for Microdeletions of Y Chromosome (male) (\*)

Cystic Fibrosis with CFTR Intron 9 PolyT (male) (\*)

**Infertility/Pregnancy Loss Testing Indications**  
 N96  Z82.7  N46  N97  Other: \_\_\_\_\_

Thrombophilia Test (3 variants below) (\*)  
 F2 - c. \*97G>A  
 F5 - c. 1601G>A (p.Arg534Gln)  
 MTHFR - c. 665C>T (p.Ala222Val)

Available Carrier Screening Genes:

<b>AAAS</b>	<b>CASQ2</b>	<b>DKC1</b>	<b>GFM1</b>	<b>LDLRAP1</b>	<b>OTC</b>	<b>RLBP1 +</b>	<b>ST3GAL5</b>
<b>ABCA12</b>	<b>CASR</b>	<b>DLD</b> ◆●※▼	<b>GHR</b>	<b>LHCGR +</b>	<b>OTOF</b>	<b>RMRP ▼</b>	<b>STAR</b>
<b>ABCA3</b>	<b>CBS ▼</b>	<b>DLL3</b>	<b>GHRHR</b>	<b>LHX3</b>	<b>PAH</b> ◆●■※▼	<b>RNASEH2C</b>	<b>SUCLA2</b>
<b>ABCA4 +</b>	<b>CC2D1A</b>	<b>DMD</b> ▲◆●■※▼	<b>GJB1</b>	<b>LIFR</b>	<b>PC ▲</b>	<b>ROGDI</b>	<b>SUMF1</b> ◆●▼
<b>ABCB11</b>	<b>CCDC103</b>	<b>DNAH5</b> ◆●▼	<b>GJB2</b> ◆●▼	<b>LIPA</b> ◆■▼	<b>PCBD1</b>	<b>RPE65</b> ◆■▼	<b>SURF1</b>
<b>ABCC8</b> ◆●※▼	<b>CCDC151</b>	<b>DNAI1</b> ◆●▼	<b>GLA</b>	<b>LMAN1</b>	<b>PCCA</b>	<b>RPGRIP1L</b>	<b>SYNE4</b>
<b>ABCD1</b> ◆■▼	<b>CCDC39</b>	<b>DNAI2</b> ◆●▼	<b>GLB1 ▼</b>	<b>LMBRD1</b>	<b>PCCB</b>	<b>RS1</b>	<b>TAT</b>
<b>ACAD9</b>	<b>CD3D</b>	<b>DKK7</b>	<b>GLDC</b>	<b>LOXHD1</b> ◆●▼	<b>PCDH15</b> ◆●※▼	<b>RSPH9</b>	<b>TAZ</b>
<b>ACADM</b> ▲◆●■※▼	<b>CD3E</b>	<b>DOLK</b>	<b>GLE1 ▼</b>	<b>LPAR6</b>	<b>PDHA1</b>	<b>RTEL1</b> ◆●▼	<b>TBCE</b>
<b>ACADS</b>	<b>CD40LG</b>	<b>DPYD +</b>	<b>GNE</b> ◆■▼	<b>LPL</b>	<b>PDHB</b>	<b>RYR1 +</b>	<b>TBX19</b>
<b>ACADSB</b>	<b>CD59</b>	<b>DUOX2</b>	<b>GNPTAB ▼</b>	<b>LRPPRC ▼</b>	<b>PEPD</b>	<b>SACS ▼</b>	<b>TCIRG1</b> ◆●▼
<b>ACADVL ▼</b>	<b>CDAN1</b>	<b>DUOX2</b>	<b>GNPTG</b>	<b>LYST</b>	<b>PET100</b>	<b>SAMHD1</b>	<b>TECPR2</b> ◆■▼
<b>ACAT1</b>	<b>CDH23 ▼</b>	<b>DYSF</b> ◆■▼	<b>GNS</b>	<b>MAN2B1</b>	<b>PEX1 ※</b>	<b>SARS2</b>	<b>TFR2</b>
<b>ACOX1</b>	<b>CEP152</b>	<b>EDA</b>	<b>GORAB</b>	<b>MANBA</b>	<b>PEX10</b>	<b>SBDS</b>	<b>TG</b>
<b>ACSF3 ▼</b>	<b>CEP290 ▼</b>	<b>EIF2AK3</b>	<b>GP1BA</b>	<b>MAT1A</b>	<b>PEX12</b>	<b>SC01</b>	<b>TGM1 ▼</b>
<b>ADA ▼</b>	<b>CERKL</b> ◆■▼	<b>EIF2B5</b>	<b>GP9</b>	<b>MCCC1</b>	<b>PEX2</b> ◆●▼	<b>SEC23B</b>	<b>TH</b>
<b>ADAMTS2</b> ◆●▼	<b>CFTR</b> ▶▲◆●■※▼	<b>EMD</b>	<b>GPR56</b>	<b>MCCC2</b>	<b>PEX26</b>	<b>SEPSECS</b> ◆■▼	<b>TK2</b>
<b>AGA ▼</b>	<b>CHAT</b>	<b>EOGT</b>	<b>GRHPR</b>	<b>MCEE</b>	<b>PEX6</b> ◆■▼	<b>SERPINA1 +</b>	<b>TMC1</b>
<b>AGL</b> ◆■▼	<b>CHM</b>	<b>EPB42</b>	<b>GSS</b>	<b>MCOLN1</b> ◆●※▼	<b>PEX7 ※</b>	<b>SGCA</b>	<b>TMEM216</b> ◆●※▼
<b>AGPS</b>	<b>CHRNE</b>	<b>ERBB3</b>	<b>GUCY2D</b>	<b>MED17</b> ◆■▼	<b>PFKM</b> ◆●▼	<b>SGCB</b>	<b>TMPPRSS3</b>
<b>AGXT</b>	<b>CHRNA</b>	<b>ERCC5</b>	<b>GUSB</b>	<b>MEFV</b> ◆●■▼	<b>PHGDH</b> ◆●▼	<b>SGCD</b>	<b>TPO</b>
<b>AIMP1</b>	<b>CHIT1</b>	<b>ERCC6</b>	<b>GYS2</b>	<b>MESP2</b>	<b>PHKB</b>	<b>SGCG</b>	<b>TPP1 ▼</b>
<b>AIPL1</b>	<b>CLCNKB</b>	<b>ERCC8</b>	<b>HADH</b>	<b>MFSDB</b>	<b>PIGN</b>	<b>SGSH</b>	<b>TREX1</b>
<b>AIRE</b> ◆■▼	<b>CLN3 ※</b>	<b>ESCO2</b>	<b>HADHA</b>	<b>MKS1 ▼</b>	<b>PIP5K1C</b>	<b>SLC12A3 ▼</b>	<b>TRHR</b>
<b>AKR1D1</b>	<b>CLN5 ▼</b>	<b>ETFA</b>	<b>HADHB</b>	<b>MLC1</b> ◆■▼	<b>PJVK</b>	<b>SLC12A6 ▼</b>	<b>TRIM32</b>
<b>ALDH3A2</b>	<b>CLN6</b>	<b>ETFB</b>	<b>HAX1</b>	<b>MLYCD</b>	<b>PKHD1</b> ◆●※▼	<b>SLC12A7 ▼</b>	<b>TRIM37</b>
<b>ALDH7A1</b>	<b>CLN8</b>	<b>ETFDH ▼</b>	<b>HBA1/HBA2</b> ▲◆●■※▼	<b>MMAA</b>	<b>PLA2G6</b>	<b>SLC17A5 ▼</b>	<b>TRMU</b> ◆■▼
<b>ALDOB ▼</b>	<b>CLRN1</b> ◆●▼	<b>ETHE1</b>	<b>HBB</b> ▲◆●■※▼	<b>MMAB</b>	<b>PLAA</b>	<b>SLC19A2</b>	<b>TRPM6</b>
<b>ALG6</b>	<b>CNGA3</b>	<b>EVC ▼</b>	<b>HEXA</b> ◆●■▼	<b>MMACHC ※</b>	<b>PLOD1</b>	<b>SLC1A4</b>	<b>TSEN54</b>
<b>ALMS1</b>	<b>CNGB3 ▼</b>	<b>EVC2</b>	<b>HEXB ▼</b>	<b>MMADHC</b>	<b>PMM2</b> ▲◆●■※▼	<b>SLC22A5 ▼</b>	<b>TSMF ▼</b>
<b>ALPL ▼</b>	<b>COA7</b>	<b>EXOSC3</b>	<b>HFE +</b>	<b>MOCOS1</b>	<b>PNPO</b>	<b>SLC25A13 ▼</b>	<b>TSHB</b>
<b>AMH +</b>	<b>COL11A2</b>	<b>EYS</b> ◆■▼	<b>HFE2</b>	<b>MPI</b>	<b>POC1A</b>	<b>SLC25A15</b>	<b>TSHR</b>
<b>AMHR2 +</b>	<b>COL17A1</b>	<b>F2 +</b>	<b>HGD</b>	<b>MPL</b> ◆●▼	<b>POLG</b>	<b>SLC25A20</b>	<b>TTC37</b>
<b>AMN</b>	<b>COL27A1 NOW</b>	<b>F5 +</b>	<b>HGSNAT</b>	<b>MPV17</b>	<b>POLH</b>	<b>SLC26A2 ▼</b>	<b>TPPA</b>
<b>AMT</b>	<b>INCLUDING Full Gene Sequencing</b>	<b>F11</b> ◆●▼	<b>HLCS ▼</b>	<b>MRE11</b>	<b>POMGNT1 ▼</b>	<b>SLC26A3</b>	<b>TULP1</b>
<b>ANOS</b>	<b>COL4A3</b> ◆●▼	<b>F7</b>	<b>HMGCL</b>	<b>MTHFR NOW INCLUDING Sequencing except variant below</b> ◆■▼	<b>POR</b>	<b>SLC26A4 ▼</b>	<b>TYMP</b> ◆■▼
<b>AP1S1</b>	<b>COL4A4</b>	<b>F9</b>	<b>HMGCS2</b>	<b>c.665C&gt;T (p.Ala222Val) variant only +</b>	<b>POU1F1</b>	<b>SLC2A2</b>	<b>TYR</b>
<b>APOPT1</b>	<b>COL4A5</b>	<b>FAH</b> ◆●※▼	<b>HOGA1</b> ◆●▼	<b>MTM1</b>	<b>PPT1 ▼</b>	<b>SLC34A3</b>	<b>TYRP1</b>
<b>AQP2</b>	<b>COL7A1 ▼</b>	<b>FAM161A</b> ◆●■▼	<b>HPD</b>	<b>MTR</b>	<b>PRCD</b>	<b>SLC35A3</b> ◆●▼	<b>UGT1A1 +</b>
<b>ARG1</b>	<b>COQ4</b>	<b>FANCA</b> ◆■▼	<b>HPS1 ▼</b>	<b>MTRR</b>	<b>PRICKLE1</b>	<b>SLC37A4</b>	<b>USH1C ▼</b>
<b>ARL6</b>	<b>COX10</b>	<b>FANCC</b> ◆●※▼	<b>HPS3</b> ◆●▼	<b>MUT</b>	<b>PROP1 ▼</b>	<b>SLC39A4</b>	<b>USH2A</b> ◆■▼
<b>ARSA</b> ◆■▼	<b>COX15</b>	<b>FANCG ▼</b>	<b>HPS4</b>	<b>MYO15A</b>	<b>PRPS1</b>	<b>SLC3A1</b>	<b>VDR</b>
<b>ARSB</b>	<b>COX20</b>	<b>FBP1</b>	<b>HPS6</b>	<b>MYO7A ▼</b>	<b>PSAP</b>	<b>SLC45A2</b>	<b>VPS11</b>
<b>ARSE</b>	<b>COX6B1</b>	<b>FH ▼</b>	<b>HSD17B3 +</b>	<b>NAGLU</b>	<b>PTPRC</b>	<b>SLC4A1</b>	<b>VPS13A</b> ◆●▼
<b>ASL ▼</b>	<b>CPS1</b>	<b>FKBP10</b>	<b>HSD17B4</b>	<b>NAGS</b>	<b>PTS</b>	<b>SLC4A11</b>	<b>VPS13B</b>
<b>ASNS</b> ◆■※▼	<b>CPT1A</b>	<b>FKRP</b>	<b>HSD3B2</b>	<b>NBEAL2</b>	<b>PUS1</b> ◆■▼	<b>SLC5A5</b>	<b>VPS45</b>
<b>ASPA</b> ◆●※▼	<b>CPT2</b> ◆●▼	<b>FKTN</b> ◆●※▼	<b>HSD3B7</b>	<b>NBN</b>	<b>PYGL</b>	<b>SLC6A8</b>	<b>VPS53</b>
<b>ASS1 ※</b>	<b>CRB1</b>	<b>FMR1</b> ▶▲◆●■※▼	<b>HYAL1</b>	<b>NDRA1</b>	<b>PYGM</b> ◆■▼	<b>SLC7A7</b>	<b>VRK1</b> ◆●▼
<b>ATM</b> ◆■▼	<b>CTNS</b> ◆■▼	<b>CGG Repeat Analysis and Full Gene Sequencing, Reflex AGG Repeat Analysis for Patients with 55-90 CGG Repeats</b>	<b>HYLS1 ▼</b>	<b>NDUFA11</b>	<b>QDPR</b>	<b>SMARCA1</b>	<b>VSX2</b> ◆■▼
<b>ATP6V1B1</b> ◆■▼	<b>CTSA</b>		<b>IDS</b>	<b>NDUF2</b>	<b>RAB23</b>	<b>SMN1/SMN2 NOW INCLUDING sequencing of Exons 2a-7 in SMN1</b>	<b>VWF +</b>
<b>ATP7A</b>	<b>CTSC</b>		<b>IDUA ※</b>	<b>NDUF5</b> ◆▼	<b>RAG1</b>	▶▲◆●■※▼	<b>WAS</b>
<b>ATP7B</b> ◆●■▼	<b>CTSK</b>		<b>IGHMBP2</b>	<b>NDUF6</b> ◆■▼	<b>RAG2</b> ◆■▼	▶▲◆●■※▼	<b>WISP3</b>
<b>ATP8B1</b>	<b>CTSK</b>		<b>IGSF1</b>	<b>NDUF7</b>	<b>RAPSN</b> ◆■▼	<b>SMPD1</b> ◆●※▼	<b>WNT10A</b>
<b>ATRX</b>	<b>CYBA</b> ◆■▼		<b>IKBKAP</b> ◆●※▼	<b>NDUF8</b> ◆▼	<b>RARS2</b> ◆■▼	<b>SNAP29</b>	<b>WRN</b>
<b>AVPR2</b>	<b>CYBB</b>		<b>IL2RG</b>	<b>NDUF9</b>	<b>RDH12</b>	<b>SNX10</b>	<b>XPA</b>
<b>BBS1 ▼</b>	<b>CYP11A1</b>		<b>IL7R</b>	<b>NDUFS4</b>	<b>RDH5</b>	<b>SPR</b>	<b>XPC</b>
<b>BBS10</b>	<b>CYP11B1</b>		<b>INVS</b>	<b>vNDUFS6</b> ◆■▼	<b>RHAG</b>	<b>SRD5A2 +</b>	<b>ZFYVE26</b>
<b>BBS12</b>	<b>CYP11B2</b> ◆■▼		<b>ITGA2B</b>	<b>NDUFS7</b>			
<b>BBS2</b> ◆●▼	<b>CYP17A1</b>		<b>ITGA6</b>	<b>NDUFV1</b>			
<b>BBS4</b>	<b>CYP19A1</b>		<b>ITGB3</b>	<b>NEB</b> ◆●※▼			
<b>BCHE +</b>	<b>CYP1B1</b>		<b>ITGB4</b>	<b>NEU1</b>			
<b>BCKDHA</b> ※▼	<b>CYP21A2</b> ◆●■		<b>ITGB4</b>	<b>NGLY1</b>			
<b>BCKDHB</b> ◆●※▼	<b>CYP27A1</b> ◆■▼		<b>IVD</b> ※	<b>NPC1</b>			
<b>BCS1L ▼</b>	<b>CYP27B1</b>		<b>IYD</b>	<b>NPC2</b>			
<b>BLM</b> ◆●※▼	<b>DBT</b>		<b>JAK3</b>	<b>NPHP1</b>			
<b>BMPER</b>	<b>DCAF17</b>		<b>KCNJ11 ▼</b>	<b>NPHP1</b>			
<b>BSND</b>	<b>DCLRE1C</b>		<b>L1CAM</b>	<b>NPHS1 ▼</b>			
<b>BTD ▼</b>	<b>DDR2</b>		<b>LAMA2</b>	<b>NPHS2</b>			
<b>BTX</b>	<b>DGUOK</b>		<b>LAMA3</b>	<b>NROB1</b>			
<b>C8ORF37</b>	<b>DHCR24</b>		<b>LAMB3</b>	<b>NR2E3</b> ◆●▼			
<b>CANT1</b>	<b>DHCR7</b> ▶▲◆●■※▼		<b>LAMC2</b>	<b>NTRK1</b> ◆■▼			
<b>CAPN3</b>	<b>DHDDS</b> ◆●▼		<b>LCA5</b>	<b>OAT</b> ◆■▼			
			<b>LDLR</b> ◆●▼	<b>OCRL</b>			
				<b>OPA3</b> ◆■▼			

KEY FOR SMALLER PANELS

- ▶ S4 – Standard Pan-ethnic Panel
- ▲ HF – High Frequency Pan-ethnic Panel
- ◆ CJ – Comprehensive Jewish Carrier Screen
- AJ – Ashkenazi Jewish Disorders
- SJ – Sephardi-Mizrahi Jewish Disorders
- ※ 39 – ECS 39
- ▼ 152 – ECS 152
- + Case by case/opt-in only
- Bolded Genes – New to the ECS 502 panel
- Underlined Genes – Supplemental X-linked panel

## Informed Consent for Genetic Testing

I, \_\_\_\_\_, hereby request genetic testing, which may include molecular, cytogenetic and/or biochemical analyses, for

Myself

My child \_\_\_\_\_

I have received verbal and written information (please see [sema4.com/testcatalog](http://sema4.com/testcatalog) for test-specific information sheet) from my physician or from a genetic counselor that described, in words that I understood, the nature of the genetic testing that I/my child am about to undergo.

I understand that specimen(s), such as a peripheral blood, saliva, cheek swab, dried blood spot, skin biopsy, amniotic fluid, chorionic villi and/or urine sample, will be taken from me/my child. I understand that the samples will be used for determining if I/my child have a genetic disease, are carriers of a genetic disease, or are more likely to develop a genetic disease or condition.

The nature of the genetic test(s) that have been ordered in connection with this consent has been explained to me and the accuracy of the test and its risks and limitations have been detailed. I understand that infrequent errors may occur, even though the likelihood of an incorrect diagnosis or a misinterpretation of the result is extremely small. The likelihood of this occurring has been estimated to be less than 1%. I understand that a negative result reduces, but does not eliminate, the possibility that I/my child carry a mutation(s) in the gene(s) analyzed or in other gene(s) that are not included in the test.

I understand that no test will be performed on my sample other than the one(s) authorized by me and my healthcare provider. I have reviewed the test order made in connection with this consent, and I hereby give consent to have my specimen tested as set forth in the order.

### De-identified research

Sema4 may de-identify and use all data and information generated and received in connection with this test to support medical and academic research relating to health, disease prevention, drug development, and other scientific purposes, and I will receive no compensation in connection with such research. Data and information are "de-identified" by removing any information that could be used to identify a specific person, such as a name, email address, or date of birth. Sema4 may also give the de-identified data and information to its research partners and may submit it to research databases for use in scientific and medical research, including scientific databases that are maintained by the federal government, such as a database kept by the National Institutes of Health ("NIH") (an agency of the federal government that funds research). Researchers have to apply to the NIH to see the information in the database. If I do not want to have any of my de-identified data and information used in research consistent with this consent, I may initial here \_\_\_\_\_, or I may withdraw this consent by contacting Sema4, including by emailing [privacy@sema4.com](mailto:privacy@sema4.com).

### Permission to contact

I understand that Sema4 may wish to contact me/my child in the future, including for the following reasons: research purposes, the provision of general information about research findings, and/or the provision of information about the results of tests on my/my child's sample(s). I understand that I may notify Sema4 to opt out of such future contact, including by emailing [privacy@sema4.com](mailto:privacy@sema4.com).

I understand that this testing may yield results that are of unknown clinical significance and that parental or other relative's specimens may also be tested to determine whether a specific finding was inherited. In addition, incidental findings that are not related to the primary diagnosis may be identified in me/my child. An error in the diagnosis may occur if the true biological relationships of the family members involved are not as I have stated and this test may detect non-paternity.

The results of my/my child's test will be explained to me by a genetic counselor or by my physician who will have the opportunity to discuss my results with a geneticist. I have had the opportunity to have all of my questions answered. If I am signing this form on behalf of a minor for whom I am the legal guardian, I am satisfied that I have received enough information to sign on his or her behalf.

I understand that this consent is being obtained in order to protect my right to have all of my questions answered before testing. I understand that the results of this testing will become part of my medical record and may only be disclosed to individuals who have legal access to this record or to individuals who I designate to receive this information.

\_\_\_\_\_  
Signature of person being tested (or guardian)

\_\_\_\_\_  
Date

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