

PATIENT INFORMATION

First name	MI	Last name	Date of birth (MM/DD/YYYY)		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biological sex	MRN (medical record number)	Ancestry			
<input type="radio"/> Male <input type="radio"/> Female	<input type="text"/>	<input type="radio"/> Asian <input type="radio"/> Black/African American <input type="radio"/> White/Caucasian <input type="radio"/> Ashkenazi Jewish <input type="radio"/> Hispanic <input type="radio"/> Native American <input type="radio"/> Pacific Islander <input type="radio"/> French Canadian <input type="radio"/> Sephardic Jewish <input type="radio"/> Mediterranean <input type="radio"/> Other: _____			
Email address (for billing contact and report access after clinician releases)			Mobile phone (for billing contact)		
<input type="text"/>			<input type="text"/>		
Address					
<input type="text"/>					
City		State/Prov	Zip/Postal code	Country	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	

Ship a saliva kit to this patient (to submit this request, fax this completed requisition form to Invitae Client Services at 415-276-4164)

Ship kit to address above
 Ship kit to alternate address: _____

CLINICAL INFORMATION

Organization name			Phone	Fax	
<input type="text"/>			<input type="text"/>	<input type="text"/>	
Address		City	State/Prov	ZIP/Postal Code	Country
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

CLINICAL TEAM

Primary clinical contact (contact for general inquiries)

Name	NPI	Email address (for report access)
<input type="text"/>	<input type="text"/>	<input type="text"/>

Ordering provider Same as primary clinical contact

For your convenience, we have provided multiple fields below to pre-populate your organization's provider list. For each order, indicate one ordering provider.

<input type="radio"/> Name	NPI	Email address (for report access)
<input type="radio"/> Name	NPI	Email address (for report access)
<input type="radio"/> Name	NPI	Email address (for report access)
<input type="radio"/> Name	NPI	Email address (for report access)
<input type="radio"/> Name	NPI	Email address (for report access)

Additional clinical or laboratory contacts (optional; share online access to this order with the contacts below)

Share this order with the primary clinical contact's default clinical team (establish and manage team online at www.invitae.com/signin)

Name	Email address (for report access)	Name	Email address (for report access)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name	Email address (for report access)	Name	Email address (for report access)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

INSURANCE BILLING (attach front and back of insurance card)

Attach clinical notes, medical records, and/or letter of medical necessity (LMN) to prevent delays. We do not accept insurance for certain tests or patients outside the US. www.invitae.com/billing

Policyholder name	Patient relationship to policyholder <input type="radio"/> Self <input type="radio"/> Spouse <input type="radio"/> Child <input type="radio"/> Other: _____			Medicare insurance billing only (select one): <input type="radio"/> Patient was treated as a hospital inpatient (more than a 24 hour stay) in the last 14 days <input type="radio"/> Not a hospital patient
Primary insurance company name	Primary member ID#	Primary insurance phone	Prior-authorization #	
Secondary insurance company name	Secondary member ID#	Secondary insurance phone	Prior-authorization #	

PATIENT PAY BILLING

Invitae will send an electronic invoice to the patient email listed above. Insurance will not be billed.

INSTITUTIONAL BILLING

Invitae will send an invoice to the organization address above. Please contact Invitae if this order should be billed to a different location.

PARTNERSHIP PROGRAMS

Invitae partner code:

SPECIMEN INFORMATION

 Label each tube with the patient's full name, date of birth, and specimen collection date. A requisition form **MUST** accompany each specimen. www.invitae.com/specimen-requirements

Collection date (MM/DD/YYYY) <input type="text"/> / <input type="text"/> / <input type="text"/> <i>If not provided, date will be 1 day prior to our receipt of specimen. For DNA, provide date retrieved from archive.</i>	Specimen type <input type="radio"/> Blood <input type="radio"/> Saliva <input type="radio"/> DNA - source: _____ <i>DNA must be extracted in a CLIA or other suitably certified laboratory. We are unable to accept blood or saliva from patients with allogeneic bone marrow transplants or a blood transfusion <2 weeks prior to specimen collection.</i>	Specimen ID (IB # on tube): Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased date (MM/DD/YYYY) <input type="text"/> / <input type="text"/> / <input type="text"/>
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REASON FOR TESTING

Primary indication:

ONCOLOGY <input type="radio"/> Hereditary breast and ovarian cancer (HBOC) syndrome <input type="radio"/> Lynch syndrome <input type="radio"/> Polyposis (FAP) <input type="radio"/> Other: _____	CARDIOLOGY <input type="radio"/> Aortopathy <input type="radio"/> Cardiomyopathy <input type="radio"/> Arrhythmia <input type="radio"/> Other: _____	OTHER <input type="radio"/> Neurology <input type="radio"/> Other: _____
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ICD-10 codes (required for insurance billing)

PERSONAL HISTORY Is/was this patient affected or symptomatic [†] ? <input type="radio"/> Yes <input type="radio"/> No If yes, describe below and attach clinical notes. Age at diagnosis: _____ [†] Symptomatic means the patient has features or signs known or suspected to be related to the genetic testing being ordered and could include findings on physical examination, laboratory tests, or imaging.	FAMILY HISTORY Is there a family history of disease for which the patient is being tested? <input type="radio"/> Yes <input type="radio"/> No If yes, describe below and attach pedigree and/or clinical notes.																				
Is there a hematological malignancy in this patient (current or history of)? <input type="radio"/> Yes <input type="radio"/> No	<table border="1"> <thead> <tr> <th>Relationship to patient</th> <th>Maternal or paternal</th> <th>Diagnosed condition</th> <th>Age at diagnosis</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Relationship to patient	Maternal or paternal	Diagnosed condition	Age at diagnosis																
Relationship to patient	Maternal or paternal	Diagnosed condition	Age at diagnosis																		
Has this patient had genetic testing before? <input type="radio"/> Yes <input type="radio"/> No If yes, write test results and attach the report.																					

TEST SELECTION
OPTION 1: SELECT AN INVITAE PANEL FROM OUR TEST CATALOG

Select your desired test(s) from the attached test catalog and discard any pages without a selection.

OPTION 2: INVITAE TEST CODE Indicate test IDs here (reference www.invitae.com/tests or our test catalog). Test IDs containing add-on codes will include the original panel as well as the add-on.	OPTION 3: FAMILY FOLLOW-UP TESTING Invitae family follow-up testing is available at no additional charge for blood relatives of patients who receive pathogenic or likely pathogenic results (or approved VUS). Learn more at www.invitae.com/family .								
<table style="width: 100%;"> <tr> <td style="width: 25%;"> Test code <input type="text"/> </td> <td style="width: 10%;"> Add-on code (optional) <input type="text"/> </td> <td style="width: 25%;"> Test code <input type="text"/> </td> <td style="width: 10%;"> Add-on code (optional) <input type="text"/> </td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <p style="text-align: center;">OR</p> Custom panel ID <input type="text"/>	Test code <input type="text"/>	Add-on code (optional) <input type="text"/>	Test code <input type="text"/>	Add-on code (optional) <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Invitae proband RQ# _____ Relationship to proband _____ Gene(s) _____ Variant(s) _____ Invitae's family follow-up testing analyzes the variant(s) indicated above. If you would like this report to include any variants of uncertain significance and be eligible for re-requisition, please include billing information on this requisition form and check here: <input type="checkbox"/>
Test code <input type="text"/>	Add-on code (optional) <input type="text"/>	Test code <input type="text"/>	Add-on code (optional) <input type="text"/>						
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>						

AUTOMATIC REFLEX: Invitae offers one re-requisition at no additional charge for tests within the same clinical area (www.invitae.com/re-requisition). Preschedule it here or in your Invitae portal.

 Conditions for reflex: Regardless of initial results Only if negative (no pathogenic/likely pathogenic results)

 Reflex test: **Test code** **Add-on code (optional)**

By signing this form, the medical professional acknowledges that the individual/ family member authorized to make decisions for the individual (collectively, the "Patient") has been supplied information regarding and consented to undergo genetic testing, substantially as set forth in Invitae's Informed Consent for Genetic Testing (www.invitae.com/forms). For orders originating outside the US, the Patient has been informed their personal information and specimen will be transferred to and processed in the US. The Patient has been informed that Invitae may notify them of clinical updates related to genetic test results (in consultation with the ordering medical professional). If insurance billing is selected, the Patient has further been informed and authorizes Invitae Corporation ("Invitae") and its designees to release information concerning testing to their insurer in order to process and/ or appeal claims. The medical professional agrees to allow Invitae to transfer the information from this requisition to a letter of medical necessity and/or other documentation using the medical professional's name as the signature. For amounts received directly, the Patient has agreed to remit payment to Invitae for testing services rendered. I acknowledge that the Patient has agreed that if the Patient's insurer does not reimburse Invitae in full for any reason, including if the insurer considers the genetic test ordered to be a non-covered service or not medically necessary, then Invitae may bill the Patient directly for the services and the Patient will remit payment directly to Invitae. I acknowledge that I offered pre-test genetic counseling to the Patient, if required by their insurer. I attest that I am authorized under applicable law to order this test.

Medical professional signature (required)	Date (MM/DD/YYYY)
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CARDIOLOGY TEST CATALOG

All tests on this form are organized by clinical area. If your order contains tests from multiple clinical areas, you will need to send a specimen tube for each clinical area. Each clinical area represents an individual billable event and report. Please contact Client Services with any questions. For Invitae's full test menu, please visit www.invitae.com.

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Arrhythmia and Cardiomyopathy			
<input type="radio"/> 02101	Invitae Arrhythmia and Cardiomyopathy Comprehensive Panel	67	ABCC9, ACTC1, ACTN2, AGL, ANK2, BAG3, CACNA1C, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FHL1, FKR, FKTN, FLNC, GAA, GLA, GPD1L, HCN4, JUP, KCNA5, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LAMP2, LMNA, MYBPC3, MYH7, MYL2, MYL3, MYL4, NKX2-5, PKP2, PLN, PRKAG2, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TGFB3, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TRDN, TTN, TTR, VCL
<input type="radio"/> 02101.1	Add-on preliminary-evidence genes	47	AKAP9, ANKRD1, CACNA2D1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, GJA5, ILK, JPH2, KCND3, KCNE3, KCNE5, KCNJ5, KCNJ8, KCNK3, LAMA4, LDB3, LRRC10, MED12, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEBL, NEXN, NPPA, PDLIM3, PLEKHM2, PRDM16, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SLMAP, SNTA1, TMPO, TRPM4, TXNRD2
<input type="radio"/> 02101.2	Add-on RASopathy genes not included in panel	17	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RASA1, RIT1, RRS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 02101.3	Add-on genes associated with autosomal recessive syndromic pediatric cardiomyopathy	8	ACADVL, ALMS1, CPT2, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
<input type="radio"/> 02101.4	Add-on sudden unexpected death in epilepsy (SUDEP) genes for arrhythmia and cardiomyopathy	11	DEPDC5, KCNA1, KCNQ2, KCNQ3, KCNT1, PCDH19, PRRT2, SCN1A, SCN8A, SCN9A, SLC2A1
Arrhythmia			
<input type="radio"/> 02201	Invitae Arrhythmia Comprehensive Panel	39	ABCC9, ACTN2, ANK2, CACNA1C, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, DES, DSC2, DSG2, DSP, EMD, FLNC, GPD1L, HCN4, JUP, KCNA5, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LMNA, MYL4, NKX2-5, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TMEM43, TNNI3, TNNT2, TRDN, TTN
<input type="radio"/> 02201.1	Add-on preliminary-evidence genes	25	AKAP9, ANKRD1, CACNA2D1, CTNNA3, GATA6, GJA5, KCND3, KCNE3, KCNE5, KCNJ5, KCNJ8, KCNK3, LDB3, NPPA, PDLIM3, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN4B, SLMAP, SNTA1, TGFB3, TRPM4
<input type="radio"/> 02201.2	Add-on sudden unexpected death in epilepsy (SUDEP) genes for arrhythmia	11	DEPDC5, KCNA1, KCNQ2, KCNQ3, KCNT1, PCDH19, PRRT2, SCN1A, SCN8A, SCN9A, SLC2A1
<input type="radio"/> 02263	Invitae Arrhythmogenic Cardiomyopathy Panel	19	ACTN2, DES, DSC2, DSG2, DSP, EMD, FLNC, JUP, LMNA, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TMEM43, TNNI3, TNNT2, TTN
<input type="radio"/> 02263.1	Add-on preliminary-evidence genes	5	ANKRD1, CTNNA3, LDB3, PDLIM3, TGFB3
<input type="radio"/> 02212	Invitae Brugada Syndrome Test	1	SCN5A
<input type="radio"/> 02212.1	Add-on preliminary-evidence genes	19	ABCC9, CACNA1C, CACNA2D1, CACNB2, GPD1L, HCN4, KCND3, KCNH2, KCNE3, KCNE5, KCNJ8, PKP2, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SLMAP, TRPM4
<input type="radio"/> 02213	Invitae Catecholaminergic Polymorphic Ventricular Tachycardia Panel	8	ANK2, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, TRDN
<input type="radio"/> 02211	Invitae Long QT Syndrome Panel	13	ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, SCN5A, TRDN
<input type="radio"/> 02211.1	Add-on preliminary-evidence genes	4	AKAP9, KCNJ5, SCN4B, SNTA1
<input type="radio"/> 02214	Invitae Short QT Syndrome Panel	5	CACNA1C, CACNB2, KCNH2, KCNJ2, KCNQ1
<input type="radio"/> 02214.1	Add-on preliminary-evidence gene	1	CACNA2D1

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CARDIOLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Cardiomyopathy			
<input type="radio"/> 02251	Invitae Cardiomyopathy Comprehensive Panel	50	ABCC9, ACTC1, ACTN2, AGL, BAG3, CACNA1C, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FHL1, FKRP, FKTN, FLNC, GAA, GLA, HCN4, JUP, LAMP2, LMNA, MYBPC3, MYH7, MYL2, MYL3, PKP2, PLN, PRKAG2, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TTN, TTR, VCL
<input type="radio"/> 02251.1	Add-on preliminary-evidence genes	31	ANKRD1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, ILK, JPH2, LAMA4, LDB3, LRRC10, MED12, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, TGFB3, TMPO, TXNRD2
<input type="radio"/> 02251.2	Add-on RASopathy genes not included in panel	17	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 02251.3	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	8	ACADVL, ALMS1, CPT2, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
<input type="radio"/> 02263	Invitae Arrhythmogenic Cardiomyopathy Panel	19	ACTN2, DES, DSC2, DSG2, DSP, EMD, JUP, LMNA, PKP2, PLN, PRKAG2, RBM20, RYR2, SCN5A, TGFB3, TMEM43, TNNI3, TNNT2, TTN
<input type="radio"/> 02263.1	Add-on preliminary-evidence genes	4	ANKRD1, CTNNA3, LDB3, PDLIM3
<input type="radio"/> 02262	Invitae Dilated Cardiomyopathy Panel	41	ABCC9, ACTC1, ACTN2, BAG3, CAV3, CRYAB, CSRP3, DES, DMD, DOLK, DSC2, DSG2, DSP, EMD, EYA4, FKRP, FKTN, FLNC, JUP, LAMP2, LMNA, MYBPC3, MYH7, PKP2, PLN, RAF1, RBM20, RYR2, SCN5A, SGCD, SLC22A5, TAZ, TCAP, TMEM43, TNNC1, TNNI3, TNNT2, TPM1, TTN, TTR, VCL
<input type="radio"/> 02262.1	Add-on preliminary-evidence genes	23	ANKRD1, CHRM2, CTF1, FHL2, GATA4, GATA6, GATAD1, ILK, LAMA4, LDB3, LRRC10, MED12, MYH6, MYPN, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, TMPO, TXNRD2
<input type="radio"/> 02262.2	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	6	ACADVL, ALMS1, CPT2, DNAJC19, SDHA, TMEM70
<input type="radio"/> 02261	Invitae Hypertrophic Cardiomyopathy Panel	26	ACTC1, ACTN2, AGL, BAG3, CACNA1C, CAV3, CSRP3, DES, FHL1, FLNC, GAA, GLA, LAMP2, MYBPC3, MYH7, MYL2, MYL3, PLN, PRKAG2, TCAP, TNNC1, TNNI3, TNNT2, TPM1, TTR, VCL
<input type="radio"/> 02261.1	Add-on preliminary-evidence genes	12	ANKRD1, CALR3, GATA4, JPH2, LDB3, MYH6, MYLK2, MYOM1, MYOZ2, MYPN, NEXN, PDLIM3
<input type="radio"/> 02261.2	Add-on RASopathy genes	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 02261.3	Add-on genes associated with autosomal recessive syndromic pediatric cardiomyopathy	4	ACADVL, CPT2, ELAC2, MTO1
<input type="radio"/> 02264	Invitae Left Ventricular Noncompaction Panel	15	ACTC1, DSP, HCN4, LAMP2, LMNA, MYBPC3, MYH7, PLN, RYR2, SCN5A, TAZ, TNNI3, TNNT2, TPM1, VCL
<input type="radio"/> 02264.1	Add-on preliminary-evidence genes	4	DTNA, LDB3, PLEKHM2, PRDM16
<input type="radio"/> 02265	Invitae Transthyretin Amyloidosis Test	1	TTR
<input type="radio"/> 05201	Invitae Hereditary Hemochromatosis Panel	5	HAMP, HFE, HJV, SLC40A1, TFR2
<input type="radio"/> 04151	Invitae RASopathies Comprehensive Panel	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1

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CARDIOLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Cardiomyopathy and Skeletal Muscle Disease			
<input type="radio"/> 02252	Invitae Cardiomyopathy and Skeletal Muscle Disease Panel	116	ABCC9, ACTA1, ACTC1, ACTN2, AGL, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1C, CAPN3, CAV3, CCDC78, CFL2, CHKB, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, CPT2, CRYAB, CSRP3, DAG1, DES, DMD, DNAJB6, DNM2, DOLK, DPM1, DPM2, DPM3, DSC2, DSG2, DSP, DYSF, EMD, EYA4, FHL1, FKBP14, FKRP, FKTN, FLNC, GAA, GLA, GMPPB, GNE, GYS1, HCN4, ISPD, ITGA7, JUP, KBTBD13, KLHL40, KLHL41, LAMA2, LAMP2, LARGE1, LMNA, LMOD3, MATR3, MEGF10, MTM1, MYBPC3, MYH7, MYL2, MYL3, MYOT, MYPN, NEB, PKP2, PLEC, PLN, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PRKAG2, RAF1, RBM20, RXYLT1, RYR1, RYR2, SCN5A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC22A5, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TMEM43, TNNC1, TNNI3, TNNT1, TNNT2, TNPO3, TOR1AIP1, TPM1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, TTR, VCL, VCP
<input type="radio"/> 02252.1	Add-on preliminary-evidence genes	36	ANKRD1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, HNRNPDL, ILK, JPH2, LAMA4, LDB3, LIMS2, LRRC10, MYF6, MYH6, MYLK2, MYOM1, MYOZ2, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, SUN1, SUN2, SYNE1, SYNE2, TGFB3, TMPO, TXNRD2
<input type="radio"/> 02252.2	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	7	ACADVL, ALMS1, DNAJC19, ELAC2, MTO1, SDHA, TMEM70
Aortopathy and Connective Tissue Disorders			
<input type="radio"/> 02301	Invitae Aortopathy Comprehensive Panel	24	ACTA2, CBS, COL3A1, COL5A1, COL5A2, EFEMP2, FBN1, FBN2, FLNA, FOXE3, MED12, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFB3, TGFB1, TGFB2
<input type="radio"/> 02301.1	Add-on preliminary-evidence genes	3	HCN4, MAT2A, SMAD6
<input type="radio"/> 02313	Invitae Ehlers-Danlos Syndrome Panel	15	ADAMTS2, ATP7A, CHST14, COL12A1, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, CRTAP, FLNA, FKBP14, P3H1, PLOD1, SLC39A13
<input type="radio"/> 02311	Invitae Loews-Dietz Syndrome Panel	6	FBN1, SMAD3, TGFB2, TGFB3, TGFB1, TGFB2
<input type="radio"/> 02312	Invitae Marfan Syndrome Test	1	FBN1
Familial Hypercholesterolemia			
<input type="radio"/> 02401	Invitae Familial Hypercholesterolemia Panel	4	APOB, LDLR, LDLRAP1, PCSK9
<input type="radio"/> 02401.1	Add-on genes for clinical overlapping conditions	2	ABCG5, ABCG8
Pulmonary Hypertension			
<input type="radio"/> 02351	Invitae Pulmonary Arterial Hypertension Panel	5	ACVRL1, BMPR2, CAV1, ENG, SMAD9
<input type="radio"/> 02351.1	Add-on preliminary-evidence genes	4	BMPR1B, GDF2, KCNA5, KCNK3
<input type="radio"/> 02352	Invitae Hereditary Hemorrhagic Telangiectasia Panel	5	ACVRL1, ENG, GDF2, RASA1, SMAD4
<input type="radio"/> 04166	Invitae Capillary Malformation-Arteriovenous Malformation Syndrome Test	1	RASA1
<input type="radio"/> 04166.1	Add-on hereditary hemorrhagic telangiectasia genes	3	ACVRL1, ENG, SMAD4
Congenital Heart Disease			
<input type="radio"/> 04204	Invitae Congenital Heart Disease Panel	42	ACTC1, ACVR2B, ALMS1, BCOR, BRAF, CBL, CHD7, CRELD1, ELN, FOXH1, GATA4, GATA6, GDF1, GJA1, GPC3, HAND1, HRAS, JAG1, KRAS, LEFTY2, MAP2K1, MAP2K2, MED13L, MEIS2, MYH6, NKX2-5, NKX2-6, NODAL, NOTCH1, NR2F2, NRAS, NSD1, PTPN11, RAF1, RIT1, SHOC2, SMAD6, SOS1, TBX1, TBX5, ZFPM2, ZIC3
<input type="radio"/> 04211	Invitae CHARGE Syndrome Test	1	CHD7
<input type="radio"/> 04212	Invitae Holt-Oram Syndrome Test	1	TBX5
<input type="radio"/> 04151	Invitae RASopathies Comprehensive Panel	18	A2ML1, BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
<input type="radio"/> 04214	Invitae Sotos Syndrome Test	1	NSD1

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CARDIOLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

CARDIOLOGY INDIVIDUAL GENES

<input type="radio"/> A2ML1	<input type="radio"/> APOB	<input type="radio"/> CAV3	<input type="radio"/> CRTAP	<input type="radio"/> EFEMP2	<input type="radio"/> GATA6	<input type="radio"/> HSPB8	<input type="radio"/> KLHL41
<input type="radio"/> AARS	<input type="radio"/> APP	<input type="radio"/> CBL	<input type="radio"/> CRYAB	<input type="radio"/> EGR2	<input type="radio"/> GATAD1	<input type="radio"/> HSPD1	<input type="radio"/> KRAS
<input type="radio"/> ABCC9	<input type="radio"/> ARL6IP1	<input type="radio"/> CBS	<input type="radio"/> CSRP3	<input type="radio"/> ELAC2	<input type="radio"/> GBA2	<input type="radio"/> IBA57	<input type="radio"/> L1CAM
<input type="radio"/> ABCD1	<input type="radio"/> ARSI	<input type="radio"/> CCDC78	<input type="radio"/> CTF1	<input type="radio"/> ELN	<input type="radio"/> GCH1	<input type="radio"/> IGHMBP2	<input type="radio"/> LAMA2
<input type="radio"/> ABCG5	<input type="radio"/> ATL1	<input type="radio"/> CCT5	<input type="radio"/> CTNNA3	<input type="radio"/> ELP1	<input type="radio"/> GDAP1	<input type="radio"/> ILK	<input type="radio"/> LAMA4
<input type="radio"/> ABCG8	<input type="radio"/> ATL3	<input type="radio"/> CFL2	<input type="radio"/> CYP2U1	<input type="radio"/> EMD	<input type="radio"/> GDF1	<input type="radio"/> INF2	<input type="radio"/> LAMB2
<input type="radio"/> ACADVL	<input type="radio"/> ATP13A2	<input type="radio"/> CHAT	<input type="radio"/> CYP7B1	<input type="radio"/> ENG	<input type="radio"/> GDF2	<input type="radio"/> ISPD	<input type="radio"/> LAMP2
<input type="radio"/> ACTA1	<input type="radio"/> ATP1A3	<input type="radio"/> CHCHD10	<input type="radio"/> DAG1	<input type="radio"/> ENTPD1	<input type="radio"/> GFPT1	<input type="radio"/> ITGA7	<input type="radio"/> LARGE1
<input type="radio"/> ACTA2	<input type="radio"/> ATP2A1	<input type="radio"/> CHCHD2	<input type="radio"/> DCTN1	<input type="radio"/> ERLIN1	<input type="radio"/> GJA1	<input type="radio"/> JAG1	<input type="radio"/> LAS1L
<input type="radio"/> ACTB	<input type="radio"/> ATP7A	<input type="radio"/> CHD7	<input type="radio"/> DDHD1	<input type="radio"/> ERLIN2	<input type="radio"/> GJA5	<input type="radio"/> JPH2	<input type="radio"/> LDB3
<input type="radio"/> ACTC1	<input type="radio"/> B3GALNT2	<input type="radio"/> CHKB	<input type="radio"/> DDHD2	<input type="radio"/> EXOSC3	<input type="radio"/> GJB1	<input type="radio"/> JUP	<input type="radio"/> LDLR
<input type="radio"/> ACTN2	<input type="radio"/> B4GALNT1	<input type="radio"/> CHMP2B	<input type="radio"/> DEPDC5	<input type="radio"/> EYA4	<input type="radio"/> GJC2	<input type="radio"/> KBTBD13	<input type="radio"/> LDLRAP1
<input type="radio"/> ACVR2B	<input type="radio"/> B4GAT1	<input type="radio"/> CHRM2	<input type="radio"/> DES	<input type="radio"/> FA2H	<input type="radio"/> GLA	<input type="radio"/> KCNA1	<input type="radio"/> LEFTY2
<input type="radio"/> ACVRL1	<input type="radio"/> BAG3	<input type="radio"/> CHRNA1	<input type="radio"/> DMD	<input type="radio"/> FBN1	<input type="radio"/> GMPPB	<input type="radio"/> KCNA5	<input type="radio"/> LIMS2
<input type="radio"/> ADAMTS2	<input type="radio"/> BCOR	<input type="radio"/> CHRNB1	<input type="radio"/> DNAJB2	<input type="radio"/> FBN2	<input type="radio"/> GNAL	<input type="radio"/> KCND3	<input type="radio"/> LITAF
<input type="radio"/> AGL	<input type="radio"/> BICD2	<input type="radio"/> CHRND	<input type="radio"/> DNAJB6	<input type="radio"/> FBXO38	<input type="radio"/> GNB4	<input type="radio"/> KCNE1	<input type="radio"/> LMNA
<input type="radio"/> AGRN	<input type="radio"/> BIN1	<input type="radio"/> CHRNE	<input type="radio"/> DNAJC19	<input type="radio"/> FBXO7	<input type="radio"/> GNE	<input type="radio"/> KCNE2	<input type="radio"/> LMOD3
<input type="radio"/> AIFM1	<input type="radio"/> BMPR1B	<input type="radio"/> CHST14	<input type="radio"/> DNAJC6	<input type="radio"/> FGD4	<input type="radio"/> GPC3	<input type="radio"/> KCNE3	<input type="radio"/> LRP4
<input type="radio"/> AKAP9	<input type="radio"/> BMPR2	<input type="radio"/> CIZ1	<input type="radio"/> DNMT2	<input type="radio"/> FHL1	<input type="radio"/> GPD1L	<input type="radio"/> KCNE5	<input type="radio"/> LRRC10
<input type="radio"/> ALDH18A1	<input type="radio"/> BRAF	<input type="radio"/> CLCN1	<input type="radio"/> DNMT1	<input type="radio"/> FHL2	<input type="radio"/> GRN	<input type="radio"/> KCNH2	<input type="radio"/> LRRK2
<input type="radio"/> ALG14	<input type="radio"/> BSCL2	<input type="radio"/> CNTN1	<input type="radio"/> DOK7	<input type="radio"/> FIG4	<input type="radio"/> GYS1	<input type="radio"/> KCNJ2	<input type="radio"/> LRSAM1
<input type="radio"/> ALG2	<input type="radio"/> C12orf65	<input type="radio"/> COL12A1	<input type="radio"/> DOLK	<input type="radio"/> FKBP14	<input type="radio"/> HAMP	<input type="radio"/> KCNJ5	<input type="radio"/> MAG
<input type="radio"/> ALMS1	<input type="radio"/> C19orf12	<input type="radio"/> COL1A1	<input type="radio"/> DPAGT1	<input type="radio"/> FKRP	<input type="radio"/> HAND1	<input type="radio"/> KCNJ8	<input type="radio"/> MAP2K1
<input type="radio"/> ALS2	<input type="radio"/> CACNA1C	<input type="radio"/> COL1A2	<input type="radio"/> DPM1	<input type="radio"/> FKTN	<input type="radio"/> HARS	<input type="radio"/> KCNK3	<input type="radio"/> MAP2K2
<input type="radio"/> AMPD2	<input type="radio"/> CACNA1S	<input type="radio"/> COL3A1	<input type="radio"/> DPM2	<input type="radio"/> FLNA	<input type="radio"/> HCN4	<input type="radio"/> KCNQ1	<input type="radio"/> MAPT
<input type="radio"/> ANK2	<input type="radio"/> CACNA2D1	<input type="radio"/> COL5A1	<input type="radio"/> DPM3	<input type="radio"/> FLNC	<input type="radio"/> HFE	<input type="radio"/> KCNQ2	<input type="radio"/> MARS
<input type="radio"/> ANKRD1	<input type="radio"/> CACNB2	<input type="radio"/> COL5A2	<input type="radio"/> DRD2	<input type="radio"/> FLRT1	<input type="radio"/> HINT1	<input type="radio"/> KCNQ3	<input type="radio"/> MAT2A
<input type="radio"/> ANO3	<input type="radio"/> CALM1	<input type="radio"/> COL6A1	<input type="radio"/> DSC2	<input type="radio"/> FOXE3	<input type="radio"/> HJV	<input type="radio"/> KCNT1	<input type="radio"/> MATR3
<input type="radio"/> ANO5	<input type="radio"/> CALM2	<input type="radio"/> COL6A2	<input type="radio"/> DSG2	<input type="radio"/> FOXH1	<input type="radio"/> HNRNPA2B1	<input type="radio"/> KCTD17	<input type="radio"/> MED12
<input type="radio"/> AP4B1	<input type="radio"/> CALM3	<input type="radio"/> COL6A3	<input type="radio"/> DSP	<input type="radio"/> FUS	<input type="radio"/> HNRNPDL	<input type="radio"/> KDM5C	<input type="radio"/> MED13L
<input type="radio"/> AP4E1	<input type="radio"/> CALR3	<input type="radio"/> COLQ	<input type="radio"/> DST	<input type="radio"/> GAA	<input type="radio"/> HPCA	<input type="radio"/> KIF1A	<input type="radio"/> MED25
<input type="radio"/> AP4M1	<input type="radio"/> CAPN3	<input type="radio"/> CPT1C	<input type="radio"/> DTNA	<input type="radio"/> GAN	<input type="radio"/> HRAS	<input type="radio"/> KIF1C	<input type="radio"/> MEGF10
<input type="radio"/> AP4S1	<input type="radio"/> CASQ2	<input type="radio"/> CPT2	<input type="radio"/> DYNC1H1	<input type="radio"/> GARS	<input type="radio"/> HSPB1	<input type="radio"/> KIF5A	<input type="radio"/> MEIS2
<input type="radio"/> AP5Z1	<input type="radio"/> CAV1	<input type="radio"/> CRELD1	<input type="radio"/> DYSF	<input type="radio"/> GATA4	<input type="radio"/> HSPB3	<input type="radio"/> KLHL40	<input type="radio"/> MFN2

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CARDIOLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

CARDIOLOGY INDIVIDUAL GENES (continued)

<input type="radio"/> MORC2	<input type="radio"/> NIPA1	<input type="radio"/> PMP22	<input type="radio"/> RBM20	<input type="radio"/> SGCD	<input type="radio"/> SNTA1	<input type="radio"/> TFG	<input type="radio"/> TTN
<input type="radio"/> MPZ	<input type="radio"/> NKX2-5	<input type="radio"/> PNKD	<input type="radio"/> REEP1	<input type="radio"/> SGCE	<input type="radio"/> SOD1	<input type="radio"/> TFR2	<input type="radio"/> TTR
<input type="radio"/> MTM1	<input type="radio"/> NKX2-6	<input type="radio"/> PNPLA2	<input type="radio"/> REEP2	<input type="radio"/> SGCG	<input type="radio"/> SOS1	<input type="radio"/> TGFB2	<input type="radio"/> TUBB4A
<input type="radio"/> MTMR2	<input type="radio"/> NODAL	<input type="radio"/> PNPLA6	<input type="radio"/> RETREG1	<input type="radio"/> SH3TC2	<input type="radio"/> SOS2	<input type="radio"/> TGFB3	<input type="radio"/> TXNRD2
<input type="radio"/> MTO1	<input type="radio"/> NOTCH1	<input type="radio"/> POMGNT1	<input type="radio"/> RIT1	<input type="radio"/> SHOC2	<input type="radio"/> SPART	<input type="radio"/> TGFBRI	<input type="radio"/> UBA1
<input type="radio"/> MUSK	<input type="radio"/> NPPA	<input type="radio"/> POMGNT2	<input type="radio"/> RRAS	<input type="radio"/> SIGMAR1	<input type="radio"/> SPAST	<input type="radio"/> TGFBRI2	<input type="radio"/> UBQLN2
<input type="radio"/> MYBPC3	<input type="radio"/> NR2F2	<input type="radio"/> POMK	<input type="radio"/> RTN2	<input type="radio"/> SKI	<input type="radio"/> SPG11	<input type="radio"/> TH	<input type="radio"/> USP8
<input type="radio"/> MYF6	<input type="radio"/> NRAS	<input type="radio"/> POMT1	<input type="radio"/> RXYLT1	<input type="radio"/> SLC16A2	<input type="radio"/> SPG21	<input type="radio"/> THAP1	<input type="radio"/> VAMP1
<input type="radio"/> MYH11	<input type="radio"/> NSD1	<input type="radio"/> POMT2	<input type="radio"/> RYR1	<input type="radio"/> SLC22A5	<input type="radio"/> SPG7	<input type="radio"/> TIA1	<input type="radio"/> VAPB
<input type="radio"/> MYH2	<input type="radio"/> NT5C2	<input type="radio"/> PRDM12	<input type="radio"/> RYR2	<input type="radio"/> SLC25A46	<input type="radio"/> SPR	<input type="radio"/> TMEM43	<input type="radio"/> VCL
<input type="radio"/> MYH6	<input type="radio"/> NTRK1	<input type="radio"/> PRDM16	<input type="radio"/> SACS	<input type="radio"/> SLC2A1	<input type="radio"/> SPRED1	<input type="radio"/> TMEM70	<input type="radio"/> VCP
<input type="radio"/> MYH7	<input type="radio"/> OPTN	<input type="radio"/> PREPL	<input type="radio"/> SBF2	<input type="radio"/> SLC2A10	<input type="radio"/> SPTLC1	<input type="radio"/> TMPO	<input type="radio"/> VMA21
<input type="radio"/> MYL2	<input type="radio"/> P3H1	<input type="radio"/> PRKAG2	<input type="radio"/> SCN10A	<input type="radio"/> SLC33A1	<input type="radio"/> SPTLC2	<input type="radio"/> TNNC1	<input type="radio"/> VPS35
<input type="radio"/> MYL3	<input type="radio"/> PARK2	<input type="radio"/> PRKG1	<input type="radio"/> SCN11A	<input type="radio"/> SLC39A13	<input type="radio"/> SQSTM1	<input type="radio"/> TNNI3	<input type="radio"/> VPS37A
<input type="radio"/> MYL4	<input type="radio"/> PARK7	<input type="radio"/> PRKRA	<input type="radio"/> SCN1A	<input type="radio"/> SLC40A1	<input type="radio"/> STAC3	<input type="radio"/> TNNT1	<input type="radio"/> VRK1
<input type="radio"/> MYLK	<input type="radio"/> PCDH19	<input type="radio"/> PRNP	<input type="radio"/> SCN1B	<input type="radio"/> SLC52A2	<input type="radio"/> STIM1	<input type="radio"/> TNNT2	<input type="radio"/> WASHC5
<input type="radio"/> MYLK2	<input type="radio"/> PCSK9	<input type="radio"/> PRPS1	<input type="radio"/> SCN2B	<input type="radio"/> SLC52A3	<input type="radio"/> SUN1	<input type="radio"/> TNPO3	<input type="radio"/> WNK1
<input type="radio"/> MYOM1	<input type="radio"/> PDK3	<input type="radio"/> PRRT2	<input type="radio"/> SCN3B	<input type="radio"/> SLC5A7	<input type="radio"/> SUN2	<input type="radio"/> TOR1A	<input type="radio"/> YARS
<input type="radio"/> MYOT	<input type="radio"/> PDLIM3	<input type="radio"/> PRX	<input type="radio"/> SCN4A	<input type="radio"/> SLC6A3	<input type="radio"/> SURF1	<input type="radio"/> TOR1AIP1	<input type="radio"/> ZFPM2
<input type="radio"/> MYOZ2	<input type="radio"/> PGAP1	<input type="radio"/> PSEN1	<input type="radio"/> SCN4B	<input type="radio"/> SLMAP	<input type="radio"/> SYNE1	<input type="radio"/> TPM1	<input type="radio"/> ZFR
<input type="radio"/> MYPN	<input type="radio"/> PINK1	<input type="radio"/> PSEN2	<input type="radio"/> SCN5A	<input type="radio"/> SMAD3	<input type="radio"/> SYNE2	<input type="radio"/> TPM2	<input type="radio"/> ZFYVE26
<input type="radio"/> NDRG1	<input type="radio"/> PKP2	<input type="radio"/> PTPN11	<input type="radio"/> SCN8A	<input type="radio"/> SMAD4	<input type="radio"/> TARDBP	<input type="radio"/> TPM3	<input type="radio"/> ZFYVE27
<input type="radio"/> NEB	<input type="radio"/> PLEC	<input type="radio"/> RAB3GAP2	<input type="radio"/> SCN9A	<input type="radio"/> SMAD6	<input type="radio"/> TAZ	<input type="radio"/> TRAPPC11	<input type="radio"/> ZIC3
<input type="radio"/> NEBL	<input type="radio"/> PLEKHG5	<input type="radio"/> RAB7A	<input type="radio"/> SDHA	<input type="radio"/> SMAD9	<input type="radio"/> TBK1	<input type="radio"/> TRDN	
<input type="radio"/> NEFL	<input type="radio"/> PLEKHM2	<input type="radio"/> RAF1	<input type="radio"/> SELENON	<input type="radio"/> SMCHD1	<input type="radio"/> TBX1	<input type="radio"/> TRIM2	
<input type="radio"/> NEXN	<input type="radio"/> PLN	<input type="radio"/> RANGRF	<input type="radio"/> SETX	<input type="radio"/> SMN1, SMN2	<input type="radio"/> TBX5	<input type="radio"/> TRIM32	
<input type="radio"/> NF1	<input type="radio"/> PLOD1	<input type="radio"/> RAPSN	<input type="radio"/> SGCA	<input type="radio"/> SNAP25	<input type="radio"/> TCAP	<input type="radio"/> TRPM4	
<input type="radio"/> NGF	<input type="radio"/> PLP1	<input type="radio"/> RASA1	<input type="radio"/> SGCB	<input type="radio"/> SNCA	<input type="radio"/> TECPR2	<input type="radio"/> TRPV4	

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NEUROLOGY TEST CATALOG

All tests on this form are organized by clinical area. If your order contains tests from multiple clinical areas, you will need to send a specimen tube for each clinical area. Each clinical area represents an individual billable event and report. Please contact Client Services with any questions. For Invitae's full test menu, please visit www.invitae.com.

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Movement Disorders			
<input type="radio"/> 03351	Invitae Dystonia Panel	18	ANO3, ATP1A3, ATP7B, GCH1, GNAL, HEXA, PNKD, PRKN, PRKRA, PRRT2, SGCE, SLC2A1, SLC6A3, SPR, TH, THAP1, TOR1A, TUBB4A
<input type="radio"/> 03351.1	Add-on preliminary-evidence genes	5	CIZ1, DRD2, HPCA, KCTD17, TOR1AIP1
<input type="radio"/> 03352	Invitae Hereditary Parkinson's Disease & Parkinsonism Panel	16	ATP7B, ATP13A2, DCTN1, DNAJC6, FBXO7, GCH1, LRRK2, PARK7, PINK1, PRKN, PRKRA, SLC6A3, SNCA, SPR, TH, VPS35
<input type="radio"/> 03352.1	Add-on preliminary-evidence genes	2	CHCHD2, MAPT
Neurodegenerative Disorders			
<input type="radio"/> 03502	Invitae Combined Hereditary Dementia and Amyotrophic Lateral Sclerosis Panel	23	ALS2, APP, CHCHD10, DCTN1, FUS, GRN, KIF5A, MAPT, OPTN, PFN1, PRNP, PSEN1, PSEN2, SETX, SNCA, SOD1, SPG11, TARDBP, TBK1, TFG, UBQLN2, VAPB, VCP
<input type="radio"/> 03502.1	Add-on preliminary-evidence genes	5	CHMP2B, HNRNPA2B1, MATR3, SIGMAR1, SQSTM1
<input type="radio"/> 03503	Invitae Amyotrophic Lateral Sclerosis Panel	16	ALS2, CHCHD10, DCTN1, FUS, KIF5A, OPTN, PFN1, SETX, SOD1, SPG11, TARDBP, TBK1, TFG, UBQLN2, VAPB, VCP
<input type="radio"/> 03503.1	Add-on preliminary-evidence genes	4	CHMP2B, MATR3, SIGMAR1, SQSTM1
<input type="radio"/> 03505	Invitae Frontotemporal Dementia Panel	9	CHCHD10, DCTN1, FUS, GRN, MAPT, TARDBP, TBK1, UBQLN2, VCP
<input type="radio"/> 03505.1	Add-on preliminary-evidence genes	4	CHMP2B, HNRNPA2B1, PSEN1, SQSTM1
<input type="radio"/> 03504	Invitae Hereditary Alzheimer's Disease Panel	3	APP, PSEN1, PSEN2
<input type="radio"/> 03352	Invitae Hereditary Parkinson's Disease & Parkinsonism Panel	16	ATP7B, ATP13A2, DCTN1, DNAJC6, FBXO7, GCH1, LRRK2, PARK7, PINK1, PRKN, PRKRA, SLC6A3, SNCA, SPR, TH, VPS35
<input type="radio"/> 03352.1	Add-on preliminary-evidence genes	2	CHCHD2, MAPT
<input type="radio"/> 03506	Invitae Hereditary Prion Disease Test	1	PRNP
Neuromuscular Disorders			
<input type="radio"/> 03280	Invitae Comprehensive Neuromuscular Disorders Panel	109	ACTA1, AGRN, ALG2, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1S, CAPN3, CAV3, CCDC78, CFL2, CHAT, CHKB, CHRNA1, CHRNB1, CHRND, CHRNE, CLCN1, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, COLQ, CPT2, CRYAB, DAG1, DES, DMD, DNAJB6, DNM2, DOK7, DPAGT1, DPM1, DPM2, DPM3, DYSF, EMD, FHL1, FKBP14, FKRP, FKTN, FLNC, GAA, GFPT1, GMPPB, GNE, GYS1, ISPD, ITGA7, KBTBD13, KCNJ2, KLHL40, KLHL41, LAMA2, LAMP2, LARGE1, LDB3, LMNA, LMOD3, MATR3, MEGF10, MTM1, MUSK, MYH2, MYH7, MYL2, MYOT, MYPN, NEB, PLEC, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PREPL, RAPSN, RXYLT1, RYR1, SCN4A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC5A7, SMN1, SMN2, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TNNT1, TNPO3, TOR1AIP1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, VCP, VMA21
<input type="radio"/> 03280.1	Add-on preliminary-evidence genes	13	ALG14, HNRNPA2B1, HNRNPDL, LAMB2, LIMS2, LRP4, MYF6, SNAP25, SUN1, SUN2, SYNE1, SYNE2, TMEM43
<input type="radio"/> 03280.2	Add-on facioscapulohumeral muscular dystrophy type 2 (FSHD2) gene	1	SMCHD1
<input type="radio"/> 03281	Invitae Congenital Myasthenic Syndrome Panel	16	AGRN, ALG2, CHAT, CHRNA1, CHRNB1, CHRND, CHRNE, COLQ, DOK7, DPAGT1, GFPT1, GMPPB, MUSK, PREPL, RAPSN, SLC5A7
<input type="radio"/> 03281.1	Add-on preliminary-evidence genes	6	ALG14, LAMB2, LRP4, PLEC, SCN4A, SNAP25
<input type="radio"/> 03285	Invitae Malignant Hyperthermia Susceptibility Panel	2	CACNA1S, RYR1

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NEUROLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Neuromuscular Disorders (continued)			
<input type="radio"/> 03291	Invitae Comprehensive Muscular Dystrophy Panel	48	ANO5, B3GALNT2, B4GAT1, CAPN3, CAV3, CHKB, COL12A1, COL6A1, COL6A2, COL6A3, DAG1, DES, DMD, DNAJB6, DPM1, DPM2, DPM3, DYSF, EMD, FHL1, FKRP, FKTN, GAA, GMPPB, ISPD, ITGA7, LAMA2, LARGE1, LMNA, MYOT, PLEC, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, RXYLT1, SGCA, SGCB, SGCD, SGCC, TCAP, TNPO3, TOR1AIP1, TRAPPC11, TRIM32, TTN
<input type="radio"/> 03291.1	Add-on preliminary-evidence genes	7	HNRNPDL, LIMS2, SUN1, SUN2, SYNE1, SYNE2, TMEM43
<input type="radio"/> 03291.2	Add-on facioscapulohumeral muscular dystrophy type 2 (FSHD2) gene	1	SMCHD1
<input type="radio"/> 03292	Invitae Congenital Muscular Dystrophy Panel	27	B3GALNT2, B4GAT1, CHKB, COL12A1, COL6A1, COL6A2, COL6A3, DAG1, DMD, DPM1, DPM2, DPM3, FKRP, FKTN, GMPPB, ISPD, ITGA7, LAMA2, LARGE1, LMNA, POMGNT1, POMGNT2, POMK, POMT1, POMT2, RXYLT1, TCAP
<input type="radio"/> 03302	Invitae Dystroglycanopathy Panel	17	B3GALNT2, B4GAT1, DAG1, DPM1, DPM2, DPM3, FKRP, FKTN, GMPPB, ISPD, LARGE1, POMGNT1, POMGNT2, POMK, POMT1, POMT2, RXYLT1
<input type="radio"/> 03301	Invitae Dystrophinopathies Test	1	DMD
<input type="radio"/> 03303	Invitae Emery-Dreifuss Muscular Dystrophy Panel	3	EMD, FHL1, LMNA
<input type="radio"/> 03303.1	Add-on preliminary-evidence genes	5	SUN1, SUN2, SYNE1, SYNE2, TMEM43
<input type="radio"/> 03304	Invitae Limb-Girdle Muscular Dystrophy Panel	31	ANO5, CAPN3, CAV3, DAG1, DES, DMD, DNAJB6, DYSF, FKRP, FKTN, GAA, GMPPB, ISPD, LMNA, MYOT, PLEC, PNPLA2, POMGNT1, POMK, POMT1, POMT2, SGCA, SGCB, SGCD, SGCC, TCAP, TNPO3, TOR1AIP1, TRAPPC11, TRIM32, TTN
<input type="radio"/> 03304.1	Add-on preliminary-evidence genes	2	HNRNPDL, LIMS2
<input type="radio"/> 03304.2	Add-on facioscapulohumeral muscular dystrophy type 2 (FSHD2) gene	1	SMCHD1
<input type="radio"/> 03361	Invitae Comprehensive Myopathy Panel	52	ACTA1, ANO5, ATP2A1, BAG3, BIN1, CACNA1S, CAV3, CCDC78, CFL2, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, CPT2, CRYAB, DES, DNAJB6, DNM2, DYSF, FHL1, FKBP14, FLNC, GNE, GYS1, KBTBD13, KCNJ2, KLHL40, KLHL41, LDB3, LMNA, LMOD3, MATR3, MEGF10, MTM1, MYH7, MYL2, MYOT, MYPN, NEB, RYR1, SCN4A, SELENON, SQSTM1, STAC3, STIM1, TIA1, TNNT1, TPM2, TPM3, TTN, VCP
<input type="radio"/> 03361.1	Add-on preliminary-evidence gene	1	MYF6
<input type="radio"/> 03362	Invitae Congenital Myopathy Panel	27	ACTA1, BIN1, CCDC78, CFL2, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, DNM2, FKBP14, KBTBD13, KLHL40, KLHL41, LMOD3, MEGF10, MTM1, MYH7, MYPN, NEB, RYR1, SELENON, STAC3, TNNT1, TPM2, TPM3, TTN
<input type="radio"/> 03362.1	Add-on preliminary-evidence gene	1	MYF6
<input type="radio"/> 03371	Invitae Autophagic Vacuolar Myopathy Panel	3	DES, LAMP2, VMA21
<input type="radio"/> 03363	Invitae Central Core Disease Test	1	RYR1
<input type="radio"/> 03364	Invitae Centronuclear Myopathy Panel	6	BIN1, CCDC78, DNM2, MTM1, RYR1, TTN
<input type="radio"/> 03364.1	Add-on preliminary-evidence gene	1	MYF6
<input type="radio"/> 03365	Invitae Congenital Fiber-Type Disproportion Panel	7	ACTA1, LMNA, MYH7, RYR1, SELENON, TPM2, TPM3
<input type="radio"/> 03366	Invitae Distal Myopathy Panel	18	ANO5, BAG3, CAV3, CRYAB, DES, DNAJB6, DYSF, FHL1, FLNC, GNE, LDB3, MATR3, MYH7, MYOT, SQSTM1, TIA1, TTN, VCP
<input type="radio"/> 03374	Invitae Inclusion Body Myopathy Panel	4	GNE, MYH2, TTN, VCP
<input type="radio"/> 03374.1	Add-on preliminary-evidence gene	1	HNRNPA2B1

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NEUROLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Neuromuscular Disorders (continued)			
<input type="radio"/> 03367	Invitae Multimimicore Disease Panel	2	RYR1, SELENON
<input type="radio"/> 03368	Invitae Myofibrillar Myopathy Panel	8	BAG3, CRYAB, DES, DNAJB6, FHL1, FLNC, LDB3, MYOT
<input type="radio"/> 03369	Invitae Nemaline Myopathy Panel	11	ACTA1, CFL2, KBTBD13, KLHL40, KLHL41, LMOD3, MYPN, NEB, TNNT1, TPM2, TPM3
<input type="radio"/> 03373	Invitae Periodic Paralysis Panel	4	CACNA1S, KCNJ2, RYR1, SCN4A
<input type="radio"/> 03370	Invitae Type VI Collagenopathy Panel	3	COL6A1, COL6A2, COL6A3
<input type="radio"/> 03370.1	Add-on preliminary-evidence gene	1	COL12A1
<input type="radio"/> 03375	Invitae Myotonia and Paramyotonia Congenita Panel	2	CLCN1, SCN4A
<input type="radio"/> 03245	Invitae Spinal Muscular Atrophy Panel	2	SMN1, SMN2
Neuropathies and Related Disorders			
<input type="radio"/> 03200	Invitae Comprehensive Neuropathies Panel	72	AARS, AIFM1, ATL1, ATL3, ATP7A, BICD2, BSCL2, CHCHD10, DCTN1, DNAJB2, DNM2, DNMT1, DST, DYNC1H1, EGR2, ELP1, FBXO38, FGD4, FIG4, GAN, GARS, GDAP1, GJB1, GNB4, HARS, HINT1, HSPB1, HSPB8, IGHMBP2, INF2, KIF1A, LITAF, LMNA, LRSAM1, MED25, MFN2, MORC2, MPZ, MTMR2, NDRG1, NEFL, NGF, NTRK1, PDK3, PLEKHG5, PMP22, PRPS1, PRX, RAB7A, REEP1, RETREG1, SBF2, SCN11A, SCN9A, SH3TC2, SIGMAR1, SLC25A46, SLC52A2, SLC52A3, SLC5A7, SPG11, SPTLC1, SPTLC2, TFG, TRIM2, TRPV4, TTR, UBA1, VAPB, WNK1, YARS, VRK1
<input type="radio"/> 03200.1	Add-on preliminary-evidence genes	9	CCT5, FLRT1, HSPB3, LAS1L, MARS, PRDM12, SCN10A, SETX, SURF1
<input type="radio"/> 03200.2	Add-on spinal muscular atrophy genes	2	SMN1, SMN2
<input type="radio"/> 03201	Invitae Charcot-Marie-Tooth Disease Comprehensive Panel	43	AARS, AIFM1, BSCL2, DNAJB2, DNM2, DYNC1H1, EGR2, FGD4, FIG4, GARS, GDAP1, GJB1, GNB4, HARS, HINT1, HSPB1, HSPB8, IGHMBP2, INF2, LITAF, LMNA, LRSAM1, MED25, MFN2, MORC2, MPZ, MTMR2, NDRG1, NEFL, PDK3, PLEKHG5, PMP22, PRPS1, PRX, RAB7A, SBF2, SH3TC2, SLC25A46, SPG11, TFG, TRIM2, TRPV4, YARS
<input type="radio"/> 03201.1	Add-on preliminary-evidence genes	2	MARS, SURF1
<input type="radio"/> 03211	Invitae Charcot-Marie-Tooth Disease Autosomal Dominant Panel	24	AARS, BSCL2, DNM2, DYNC1H1, EGR2, GARS, GDAP1, GNB4, HARS, HSPB1, HSPB8, INF2, LITAF, LMNA, LRSAM1, MFN2, MORC2, MPZ, NEFL, PMP22, RAB7A, TFG, TRPV4, YARS
<input type="radio"/> 03211.1	Add-on preliminary-evidence gene	1	MARS
<input type="radio"/> 03212	Invitae Charcot-Marie-Tooth Disease Autosomal Recessive Panel	21	DNAJB2, EGR2, FGD4, FIG4, GDAP1, HINT1, IGHMBP2, LMNA, LRSAM1, MED25, MFN2, MTMR2, NDRG1, NEFL, PLEKHG5, PRX, SBF2, SH3TC2, SLC25A46, SPG11, TRIM2
<input type="radio"/> 03212.1	Add-on preliminary-evidence gene	1	SURF1
<input type="radio"/> 03213	Invitae Charcot-Marie-Tooth Disease X-linked Panel	4	AIFM1, GJB1, PDK3, PRPS1
<input type="radio"/> 03230	Invitae Hereditary Sensory and Autonomic Neuropathy Panel	15	ATL1, ATL3, DNMT1, DST, ELP1, KIF1A, NGF, NTRK1, RAB7A, RETREG1, SCN11A, SCN9A, SPTLC1, SPTLC2, WNK1
<input type="radio"/> 03230.1	Add-on preliminary-evidence genes	2	CCT5, PRDM12
<input type="radio"/> 03461	Invitae Familial Dysautonomia Test	1	ELP1
<input type="radio"/> 03240	Invitae Hereditary Motor Neuropathies Panel	23	ATP7A, BICD2, BSCL2, CHCHD10, DCTN1, DNAJB2, DYNC1H1, FBXO38, GARS, HINT1, HSPB1, HSPB8, IGHMBP2, PLEKHG5, REEP1, SIGMAR1, SLC5A7, SMN1, SMN2, TRPV4, UBA1, VAPB, VRK1
<input type="radio"/> 03240.1	Add-on preliminary-evidence gene	1	HSPB3
<input type="radio"/> 03245	Invitae Spinal Muscular Atrophy Panel	2	SMN1, SMN2

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NEUROLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Neuropathies and Related Disorders (continued)			
<input type="radio"/> 03220	Invitae Small Fiber Neuropathy Test	1	SCN9A
<input type="radio"/> 03220.1	Add-on preliminary-evidence gene	1	SCN10A
<input type="radio"/> 03270	Invitae Riboflavin Transporter Deficiency Neuronopathy Panel	2	SLC52A2, SLC52A3
<input type="radio"/> 03251	Invitae Hereditary Spastic Paraplegia Comprehensive Panel	45	ABCD1, ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ATL1, B4GALNT1, BSCL2, C12orf65, CYP2U1, CYP7B1, DDHD1, DDHD2, ERLIN2, FA2H, GBA2, GJC2, HEXA, HSPD1, KDM5C, KIF1A, KIF1C, KIF5A, L1CAM, NIPA1, NT5C2, PLP1, PNPLA6, REEP1, REEP2, RTN2, SACS, SLC16A2, SPART, SPAST, SPG11, SPG21, SPG7, TECPR2, VAMP1, WASHC5, ZFYVE26
<input type="radio"/> 03251.1	Add-on preliminary-evidence genes	20	AMPD2, ARL6IP1, ARSI, ATP13A2, C19orf12, CCT5, CPT1C, ENTPD1, ERLIN1, EXOSC3, IBA57, MAG, PGAP1, RAB3GAP2, SLC33A1, TFG, USP8, VPS37A, ZFR, ZFYVE27
<input type="radio"/> 03261	Invitae Hereditary Spastic Paraplegia Autosomal Dominant Panel	13	ALDH18A1, ATL1, BSCL2, HSPD1, KIF1A, KIF5A, NIPA1, REEP1, REEP2, RTN2, SPAST, VAMP1, WASHC5
<input type="radio"/> 03261.1	Add-on preliminary-evidence genes	3	CPT1C, SLC33A1, ZFYVE27
<input type="radio"/> 03262	Invitae Hereditary Spastic Paraplegia Autosomal Recessive Panel	30	ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, B4GALNT1, C12orf65, CYP2U1, CYP7B1, DDHD1, DDHD2, ERLIN2, FA2H, GBA2, GJC2, HEXA, KIF1A, KIF1C, NT5C2, PNPLA6, REEP2, SACS, SPART, SPG11, SPG21, SPG7, TECPR2, ZFYVE26
<input type="radio"/> 03262.1	Add-on preliminary-evidence genes	17	AMPD2, ARL6IP1, ARSI, ATP13A2, C19orf12, CCT5, ENTPD1, ERLIN1, EXOSC3, IBA57, MAG, PGAP1, RAB3GAP2, TFG, USP8, VPS37A, ZFR
<input type="radio"/> 03263	Invitae Hereditary Spastic Paraplegia X-linked Panel	5	ABCD1, KDM5C, L1CAM, PLP1, SLC16A2
Cardiomyopathy and Skeletal Muscle Disease			
<input type="radio"/> 02252	Invitae Cardiomyopathy and Skeletal Muscle Disease Panel	116	ABCC9, ACTA1, ACTC1, ACTN2, AGL, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1C, CAPN3, CAV3, CCDC78, CFL2, CHKB, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, CPT2, CRYAB, CSRP3, DAG1, DES, DMD, DNAJB6, DNM2, DOLK, DPM1, DPM2, DPM3, DSC2, DSG2, DSP, DYSF, EMD, EYA4, FHL1, FKBP14, FKRP, FKTN, FLNC, GAA, GLA, GMPPB, GNE, GYS1, HCN4, ISPD, ITGA7, JUP, KBTBD13, KLHL40, KLHL41, LAMA2, LAMP2, LARGE1, LMNA, LMOD3, MATR3, MEGF10, MTM1, MYBPC3, MYH7, MYL2, MYL3, MYOT, MYPN, NEB, PKP2, PLEC, PLN, PNPLA2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PRKAG2, RAF1, RBM20, RXYLT1, RYR1, RYR2, SCN5A, SELENON, SGCA, SGCB, SGCD, SGGC, SLC22A5, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TMEM43, TNNC1, TNNI3, TNNT1, TNNT2, TNPO3, TOR1AIP1, TPM1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, TTR, VCL, VCP
<input type="radio"/> 02252.1	Add-on preliminary-evidence genes	36	ANKRD1, CALR3, CHRM2, CTF1, CTNNA3, DTNA, FHL2, GATA4, GATA6, GATAD1, HNRNPDL, ILK, JPH2, LAMA4, LDB3, LIMS2, LRRC10, MYF6, MYH6, MYLK2, MYOM1, MYOZ2, NEBL, NEXN, NKX2-5, NPPA, PDLIM3, PLEKHM2, PRDM16, SUN1, SUN2, SYNE1, SYNE2, TGFB3, TMPO, TXNRD2
<input type="radio"/> 02252.2	Add-on autosomal recessive syndromic pediatric cardiomyopathy genes	7	ACADVL, ALMS1, DNAJC19, ELAC2, MTO1, SDHA, TMEM70

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NEUROLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

CARDIOLOGY AND NEUROLOGY INDIVIDUAL GENES

<input type="radio"/> A2ML1	<input type="radio"/> ATL1	<input type="radio"/> CFL2	<input type="radio"/> DAG1	<input type="radio"/> ERLIN2	<input type="radio"/> GLA	<input type="radio"/> KCND3	<input type="radio"/> LMOD3
<input type="radio"/> AARS	<input type="radio"/> ATL3	<input type="radio"/> CHAT	<input type="radio"/> DCTN1	<input type="radio"/> EXOSC3	<input type="radio"/> GMPPB	<input type="radio"/> KCNE1	<input type="radio"/> LRP4
<input type="radio"/> ABCC9	<input type="radio"/> ATP13A2	<input type="radio"/> CHCHD10	<input type="radio"/> DDHD1	<input type="radio"/> EYA4	<input type="radio"/> GNAL	<input type="radio"/> KCNE2	<input type="radio"/> LRRC10
<input type="radio"/> ABCD1	<input type="radio"/> ATP1A3	<input type="radio"/> CHCHD2	<input type="radio"/> DDHD2	<input type="radio"/> FA2H	<input type="radio"/> GNB4	<input type="radio"/> KCNE3	<input type="radio"/> LRRK2
<input type="radio"/> ACADVL	<input type="radio"/> ATP2A1	<input type="radio"/> CHD7	<input type="radio"/> DEPDC5	<input type="radio"/> FBN1	<input type="radio"/> GNE	<input type="radio"/> KCNE5	<input type="radio"/> LRSAM1
<input type="radio"/> ACTA1	<input type="radio"/> ATP7A	<input type="radio"/> CHKB	<input type="radio"/> DES	<input type="radio"/> FBN2	<input type="radio"/> GPC3	<input type="radio"/> KCNH2	<input type="radio"/> MAG
<input type="radio"/> ACTA2	<input type="radio"/> ATP7B	<input type="radio"/> CHMP2B	<input type="radio"/> DMD	<input type="radio"/> FBXO38	<input type="radio"/> GPD1L	<input type="radio"/> KCNJ2	<input type="radio"/> MAP2K1
<input type="radio"/> ACTB	<input type="radio"/> B3GALNT2	<input type="radio"/> CHRM2	<input type="radio"/> DNAJB2	<input type="radio"/> FBXO7	<input type="radio"/> GRN	<input type="radio"/> KCNJ5	<input type="radio"/> MAP2K2
<input type="radio"/> ACTC1	<input type="radio"/> B4GALNT1	<input type="radio"/> CHRNA1	<input type="radio"/> DNAJB6	<input type="radio"/> FGD4	<input type="radio"/> GYS1	<input type="radio"/> KCNJ8	<input type="radio"/> MAPT
<input type="radio"/> ACTN2	<input type="radio"/> B4GAT1	<input type="radio"/> CHRNB1	<input type="radio"/> DNAJC19	<input type="radio"/> FHL1	<input type="radio"/> HAMP	<input type="radio"/> KCNK3	<input type="radio"/> MARS
<input type="radio"/> ACVR2B	<input type="radio"/> BAG3	<input type="radio"/> CHRND	<input type="radio"/> DNAJC6	<input type="radio"/> FHL2	<input type="radio"/> HAND1	<input type="radio"/> KCNQ1	<input type="radio"/> MAT2A
<input type="radio"/> ACVRL1	<input type="radio"/> BCOR	<input type="radio"/> CHRNE	<input type="radio"/> DNMT2	<input type="radio"/> FIG4	<input type="radio"/> HARS	<input type="radio"/> KCNQ2	<input type="radio"/> MATR3
<input type="radio"/> ADAMTS2	<input type="radio"/> BICD2	<input type="radio"/> CHST14	<input type="radio"/> DNMT1	<input type="radio"/> FKBP14	<input type="radio"/> HCN4	<input type="radio"/> KCNQ3	<input type="radio"/> MED12
<input type="radio"/> AGL	<input type="radio"/> BIN1	<input type="radio"/> CIZ1	<input type="radio"/> DOK7	<input type="radio"/> FKRP	<input type="radio"/> HEXA	<input type="radio"/> KCNT1	<input type="radio"/> MED13L
<input type="radio"/> AGRN	<input type="radio"/> BMPR1B	<input type="radio"/> CLCN1	<input type="radio"/> DOLK	<input type="radio"/> FKTN	<input type="radio"/> HFE	<input type="radio"/> KCTD17	<input type="radio"/> MED25
<input type="radio"/> AIFM1	<input type="radio"/> BMPR2	<input type="radio"/> CNTN1	<input type="radio"/> DPAGT1	<input type="radio"/> FLNA	<input type="radio"/> HINT1	<input type="radio"/> KDM5C	<input type="radio"/> MEGF10
<input type="radio"/> AKAP9	<input type="radio"/> BRAF	<input type="radio"/> COL12A1	<input type="radio"/> DPM1	<input type="radio"/> FLNC	<input type="radio"/> HJV	<input type="radio"/> KIF1A	<input type="radio"/> MFN2
<input type="radio"/> ALDH18A1	<input type="radio"/> BSCL2	<input type="radio"/> COL1A1	<input type="radio"/> DPM2	<input type="radio"/> FLRT1	<input type="radio"/> HNRNPA2B1	<input type="radio"/> KIF1C	<input type="radio"/> MORC2
<input type="radio"/> ALG14	<input type="radio"/> C12orf65	<input type="radio"/> COL1A2	<input type="radio"/> DPM3	<input type="radio"/> FOXH1	<input type="radio"/> HNRNPDL	<input type="radio"/> KIF5A	<input type="radio"/> MPZ
<input type="radio"/> ALG2	<input type="radio"/> C19orf12	<input type="radio"/> COL3A1	<input type="radio"/> DRD2	<input type="radio"/> FUS	<input type="radio"/> HPCA	<input type="radio"/> KLHL40	<input type="radio"/> MTM1
<input type="radio"/> ALMS1	<input type="radio"/> CACNA1C	<input type="radio"/> COL5A1	<input type="radio"/> DSC2	<input type="radio"/> GAA	<input type="radio"/> HRAS	<input type="radio"/> KLHL41	<input type="radio"/> MTMR2
<input type="radio"/> ALS2	<input type="radio"/> CACNA1S	<input type="radio"/> COL5A2	<input type="radio"/> DSG2	<input type="radio"/> GAN	<input type="radio"/> HSPB1	<input type="radio"/> KRAS	<input type="radio"/> MTO1
<input type="radio"/> AMPD2	<input type="radio"/> CACNA2D1	<input type="radio"/> COL6A1	<input type="radio"/> DSP	<input type="radio"/> GARS	<input type="radio"/> HSPB3	<input type="radio"/> L1CAM	<input type="radio"/> MUSK
<input type="radio"/> ANK2	<input type="radio"/> CACNB2	<input type="radio"/> COL6A2	<input type="radio"/> DST	<input type="radio"/> GATA4	<input type="radio"/> HSPB8	<input type="radio"/> LAMA2	<input type="radio"/> MYBPC3
<input type="radio"/> ANKRD1	<input type="radio"/> CALM1	<input type="radio"/> COL6A3	<input type="radio"/> DTNA	<input type="radio"/> GATA6	<input type="radio"/> HSPD1	<input type="radio"/> LAMA4	<input type="radio"/> MYF6
<input type="radio"/> ANO3	<input type="radio"/> CALM2	<input type="radio"/> COLQ	<input type="radio"/> DYNC1H1	<input type="radio"/> GATAD1	<input type="radio"/> IBA57	<input type="radio"/> LAMB2	<input type="radio"/> MYH11
<input type="radio"/> ANO5	<input type="radio"/> CALM3	<input type="radio"/> CPT1C	<input type="radio"/> DYSF	<input type="radio"/> GBA2	<input type="radio"/> IGHMBP2	<input type="radio"/> LAMP2	<input type="radio"/> MYH2
<input type="radio"/> AP4B1	<input type="radio"/> CALR3	<input type="radio"/> CPT2	<input type="radio"/> EFEMP2	<input type="radio"/> GCH1	<input type="radio"/> ILK	<input type="radio"/> LARGE1	<input type="radio"/> MYH6
<input type="radio"/> AP4E1	<input type="radio"/> CAPN3	<input type="radio"/> CRELD1	<input type="radio"/> EGR2	<input type="radio"/> GDAP1	<input type="radio"/> INF2	<input type="radio"/> LAS1L	<input type="radio"/> MYH7
<input type="radio"/> AP4M1	<input type="radio"/> CASQ2	<input type="radio"/> CRTAP	<input type="radio"/> ELAC2	<input type="radio"/> GDF1	<input type="radio"/> ISPD	<input type="radio"/> LDB3	<input type="radio"/> MYL2
<input type="radio"/> AP4S1	<input type="radio"/> CAV1	<input type="radio"/> CRYAB	<input type="radio"/> ELN	<input type="radio"/> GDF2	<input type="radio"/> ITGA7	<input type="radio"/> LDLR	<input type="radio"/> MYL3
<input type="radio"/> AP5Z1	<input type="radio"/> CAV3	<input type="radio"/> CSRP3	<input type="radio"/> ELP1	<input type="radio"/> GFPT1	<input type="radio"/> JAG1	<input type="radio"/> LDLRAP1	<input type="radio"/> MYL4
<input type="radio"/> APOB	<input type="radio"/> CBL	<input type="radio"/> CTF1	<input type="radio"/> EMD	<input type="radio"/> GJA1	<input type="radio"/> JPH2	<input type="radio"/> LEFTY2	<input type="radio"/> MYLK
<input type="radio"/> APP	<input type="radio"/> CBS	<input type="radio"/> CTNNA3	<input type="radio"/> ENG	<input type="radio"/> GJA5	<input type="radio"/> JUP	<input type="radio"/> LIMS2	<input type="radio"/> MYLK2
<input type="radio"/> ARL6IP1	<input type="radio"/> CCDC78	<input type="radio"/> CYP2U1	<input type="radio"/> ENTPD1	<input type="radio"/> GJB1	<input type="radio"/> KBTBD13	<input type="radio"/> LITAF	<input type="radio"/> MYOM1
<input type="radio"/> ARSI	<input type="radio"/> CCT5	<input type="radio"/> CYP7B1	<input type="radio"/> ERLIN1	<input type="radio"/> GJC2	<input type="radio"/> KCNA5	<input type="radio"/> LMNA	<input type="radio"/> MYOT

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NEUROLOGY TEST CATALOG

CLINICAL AREA: CARDIOLOGY AND NEUROLOGY

CARDIOLOGY AND NEUROLOGY INDIVIDUAL GENES (continued)

<input type="radio"/> MYOZ2	<input type="radio"/> PDK3	<input type="radio"/> PRKG1	<input type="radio"/> SACS	<input type="radio"/> SLC16A2	<input type="radio"/> SPART	<input type="radio"/> TGFB2	<input type="radio"/> TRPV4
<input type="radio"/> MYPN	<input type="radio"/> PDLIM3	<input type="radio"/> PRKN	<input type="radio"/> SBF2	<input type="radio"/> SLC22A5	<input type="radio"/> SPAST	<input type="radio"/> TGFB3	<input type="radio"/> TTN
<input type="radio"/> NDRG1	<input type="radio"/> PFN1	<input type="radio"/> PRKRA	<input type="radio"/> SCN10A	<input type="radio"/> SLC25A46	<input type="radio"/> SPG11	<input type="radio"/> TGFB1	<input type="radio"/> TTR
<input type="radio"/> NEB	<input type="radio"/> PGAP1	<input type="radio"/> PRNP	<input type="radio"/> SCN11A	<input type="radio"/> SLC2A1	<input type="radio"/> SPG21	<input type="radio"/> TGFB2	<input type="radio"/> TUBB4A
<input type="radio"/> NEBL	<input type="radio"/> PINK1	<input type="radio"/> PRPS1	<input type="radio"/> SCN1A	<input type="radio"/> SLC2A10	<input type="radio"/> SPG7	<input type="radio"/> TH	<input type="radio"/> TXNRD2
<input type="radio"/> NEFL	<input type="radio"/> PKP2	<input type="radio"/> PRRT2	<input type="radio"/> SCN1B	<input type="radio"/> SLC33A1	<input type="radio"/> SPR	<input type="radio"/> THAP1	<input type="radio"/> UBA1
<input type="radio"/> NEXN	<input type="radio"/> PLEC	<input type="radio"/> PRX	<input type="radio"/> SCN2B	<input type="radio"/> SLC39A13	<input type="radio"/> SPRED1	<input type="radio"/> TIA1	<input type="radio"/> UBQLN2
<input type="radio"/> NF1	<input type="radio"/> PLEKHG5	<input type="radio"/> PSEN1	<input type="radio"/> SCN3B	<input type="radio"/> SLC40A1	<input type="radio"/> SPTLC1	<input type="radio"/> TMEM43	<input type="radio"/> USP8
<input type="radio"/> NGF	<input type="radio"/> PLEKHM2	<input type="radio"/> PSEN2	<input type="radio"/> SCN4A	<input type="radio"/> SLC52A2	<input type="radio"/> SPTLC2	<input type="radio"/> TMEM70	<input type="radio"/> VAMP1
<input type="radio"/> NIPA1	<input type="radio"/> PLN	<input type="radio"/> PTPN11	<input type="radio"/> SCN4B	<input type="radio"/> SLC52A3	<input type="radio"/> SQSTM1	<input type="radio"/> TMPO	<input type="radio"/> VAPB
<input type="radio"/> NKX2-5	<input type="radio"/> PLOD1	<input type="radio"/> RAB3GAP2	<input type="radio"/> SCN5A	<input type="radio"/> SLC5A7	<input type="radio"/> STAC3	<input type="radio"/> TNNC1	<input type="radio"/> VCL
<input type="radio"/> NKX2-6	<input type="radio"/> PLP1	<input type="radio"/> RAB7A	<input type="radio"/> SCN8A	<input type="radio"/> SLC6A3	<input type="radio"/> STIM1	<input type="radio"/> TNNI3	<input type="radio"/> VCP
<input type="radio"/> NODAL	<input type="radio"/> PMP22	<input type="radio"/> RAF1	<input type="radio"/> SCN9A	<input type="radio"/> SLMAP	<input type="radio"/> SUN1	<input type="radio"/> TNNT1	<input type="radio"/> VMA21
<input type="radio"/> NOTCH1	<input type="radio"/> PNKD	<input type="radio"/> RANGRF	<input type="radio"/> SDHA	<input type="radio"/> SMAD3	<input type="radio"/> SUN2	<input type="radio"/> TNNT2	<input type="radio"/> VPS35
<input type="radio"/> NPPA	<input type="radio"/> PNPLA2	<input type="radio"/> RAPSN	<input type="radio"/> SELENON	<input type="radio"/> SMAD4	<input type="radio"/> SURF1	<input type="radio"/> TNPO3	<input type="radio"/> VPS37A
<input type="radio"/> NR2F2	<input type="radio"/> PNPLA6	<input type="radio"/> RASA1	<input type="radio"/> SETX	<input type="radio"/> SMAD6	<input type="radio"/> SYNE1	<input type="radio"/> TOR1A	<input type="radio"/> VRK1
<input type="radio"/> NRAS	<input type="radio"/> POMGNT1	<input type="radio"/> RBM20	<input type="radio"/> SGCA	<input type="radio"/> SMAD9	<input type="radio"/> SYNE2	<input type="radio"/> TOR1AIP1	<input type="radio"/> WASHC5
<input type="radio"/> NSD1	<input type="radio"/> POMGNT2	<input type="radio"/> REEP1	<input type="radio"/> SGCB	<input type="radio"/> SMCHD1	<input type="radio"/> TARDBP	<input type="radio"/> TPM1	<input type="radio"/> WNK1
<input type="radio"/> NT5C2	<input type="radio"/> POMK	<input type="radio"/> REEP2	<input type="radio"/> SGCD	<input type="radio"/> SMN1, SMN2	<input type="radio"/> TAZ	<input type="radio"/> TPM2	<input type="radio"/> YARS
<input type="radio"/> NTRK1	<input type="radio"/> POMT1	<input type="radio"/> RETREG1	<input type="radio"/> SGCE	<input type="radio"/> SNAP25	<input type="radio"/> TBK1	<input type="radio"/> TPM3	<input type="radio"/> ZFPM2
<input type="radio"/> OPTN	<input type="radio"/> POMT2	<input type="radio"/> RIT1	<input type="radio"/> SGCG	<input type="radio"/> SNCA	<input type="radio"/> TBX5	<input type="radio"/> TRAPPC11	<input type="radio"/> ZFR
<input type="radio"/> P3H1	<input type="radio"/> PRDM12	<input type="radio"/> RTN2	<input type="radio"/> SH3TC2	<input type="radio"/> SNTA1	<input type="radio"/> TCAP	<input type="radio"/> TRDN	<input type="radio"/> ZFYVE26
<input type="radio"/> PARK7	<input type="radio"/> PRDM16	<input type="radio"/> RXYLT1	<input type="radio"/> SHOC2	<input type="radio"/> SOD1	<input type="radio"/> TECPR2	<input type="radio"/> TRIM2	<input type="radio"/> ZFYVE27
<input type="radio"/> PCDH19	<input type="radio"/> PREPL	<input type="radio"/> RYR1	<input type="radio"/> SIGMAR1	<input type="radio"/> SOS1	<input type="radio"/> TFG	<input type="radio"/> TRIM32	<input type="radio"/> ZIC3
<input type="radio"/> PCSK9	<input type="radio"/> PRKAG2	<input type="radio"/> RYR2	<input type="radio"/> SKI	<input type="radio"/> SOS2	<input type="radio"/> TFR2	<input type="radio"/> TRPM4	

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NEUROLOGY TEST CATALOG

CLINICAL AREA: PEDIATRIC AND RARE DISEASE

Test code	Test name	# gene(s)	Gene list
Developmental Brain Abnormalities			
<input type="radio"/> 03407	Invitae Alternating Hemiplegia of Childhood Panel	2	ATP1A2, ATP1A3
<input type="radio"/> 03407.1	Add-on clinically overlapping Genes	3	CACNA1A, SCN1A, SLC2A1
<input type="radio"/> 04741	Invitae Baraitser-Winter Cerebrofrontofacial Syndrome Panel	2	ACTB, ACTG1
<input type="radio"/> 04422	Invitae Cerebral Caverosus Malformations Panel	3	CCM2, KRIT1, PDCD10
<input type="radio"/> 04211	Invitae CHARGE Syndrome Test	1	CHD7
<input type="radio"/> 03402	Invitae Early Infantile Epileptic Encephalopathy Panel	59	ALDH7A1, ARHGEF9, ARX, BRAT1, CACNA2D2, CASK, CDKL5, CHD2, CLCN4, DNM1, DOCK7, EEF1A2, FARS2, FOLR1, FRRS1L, GABBR2, GABRA1, GABRB3, GNAO1, GRIN1, GRIN2A, GRIN2B, HCN1, HNRNPU, IER3IP1, KCNA2, KCNB1, KCNMA1, KCNQ2, KCNQ3, KCNT1, PCDH19, PIGA, PIGN, PIGO, PLCB1, PNKP, PNPO, PURA, SCN1A, SCN2A, SCN8A, SCN9A, SIK1, SLC12A5, SLC13A5, SLC25A12, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SMC1A, SPTAN1, STXBP1, SYNGAP1, SZT2, TBC1D24, WDR45, WWOX
<input type="radio"/> 03402.1	Add-on preliminary-evidence genes	10	ARHGEF15, ATP1A2, COQ4, GPHN, KCNH5, MTOR, NECAP1, NEDD4L, SCN1B, ST3GAL3
<input type="radio"/> 04424	Invitae Holoprosencephaly Panel	6	FGFR1, GLI2, SHH, SIX3, TGIF1, ZIC2
<input type="radio"/> 04424.1	Add-on preliminary-evidence genes	4	CDON, FOXH1, NODAL, PTCH1
<input type="radio"/> 03406	Invitae Neurodegeneration with Brain Iron Accumulation Panel	11	ATP13A2, C19orf12, COASY, CP, DCAF17, FTL, FUCA1, PANK2, PLA2G6, SQSTM1, WDR45
<input type="radio"/> 03406.1	Add-on preliminary-evidence genes	3	FA2H, KIF1A, TRIM32
<input type="radio"/> 03404	Invitae Rett/Angelman and Related Disorders Panel	24	ADSL, ALDH5A1, ATRX, CDKL5, CNTNAP2, DYRK1A, EHMT1, FOXG1, GABBR2, IQSEC2, KANSL1, MBD5, MECP2, MEF2C, NGLY1, NRXN1, SATB2, SCN8A, SLC9A6, STXBP1, TCF4, UBE3A, WDR45, ZEB2
<input type="radio"/> 03404.1	Add-on preliminary-evidence genes	4	GABRD, HDAC8, TBL1XR1, JMJD1C
<input type="radio"/> 01721	Invitae Tuberous Sclerosis Complex Panel	2	TSC1, TSC2

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NEUROLOGY TEST CATALOG

CLINICAL AREA: PEDIATRIC AND RARE DISEASE

DEVELOPMENTAL BRAIN ABNORMALITIES INDIVIDUAL GENES							
<input type="radio"/> ABAT	<input type="radio"/> CDKL5	<input type="radio"/> DYNC1H1	<input type="radio"/> GLI2	<input type="radio"/> KCTD7	<input type="radio"/> PIGQ	<input type="radio"/> SCN2A	<input type="radio"/> SRPX2
<input type="radio"/> ACTB	<input type="radio"/> CDON	<input type="radio"/> DYRK1A	<input type="radio"/> GLRA1	<input type="radio"/> KIF1A	<input type="radio"/> PIK3AP1	<input type="radio"/> SCN3A	<input type="radio"/> ST3GAL3
<input type="radio"/> ACTG1	<input type="radio"/> CERS1	<input type="radio"/> EEF1A2	<input type="radio"/> GNAO1	<input type="radio"/> KPNA7	<input type="radio"/> PLA2G6	<input type="radio"/> SCN5A	<input type="radio"/> ST3GAL5
<input type="radio"/> ADSL	<input type="radio"/> CHD2	<input type="radio"/> EFHC1	<input type="radio"/> GOSR2	<input type="radio"/> KRIT1	<input type="radio"/> PLCB1	<input type="radio"/> SCN8A	<input type="radio"/> STRADA
<input type="radio"/> ALDH5A1	<input type="radio"/> CHD7	<input type="radio"/> EHMT1	<input type="radio"/> GPHN	<input type="radio"/> LGI1	<input type="radio"/> PNKD	<input type="radio"/> SCN9A	<input type="radio"/> STX1B
<input type="radio"/> ALDH7A1	<input type="radio"/> CHRNA2	<input type="radio"/> EPM2A	<input type="radio"/> GRIN1	<input type="radio"/> LIAS	<input type="radio"/> PNKP	<input type="radio"/> SERPINI1	<input type="radio"/> STXBP1
<input type="radio"/> ALG13	<input type="radio"/> CHRNA4	<input type="radio"/> FA2H	<input type="radio"/> GRIN2A	<input type="radio"/> LMNB2	<input type="radio"/> PNPO	<input type="radio"/> SETD2	<input type="radio"/> SYN1
<input type="radio"/> AMT	<input type="radio"/> CHRNB2	<input type="radio"/> FARS2	<input type="radio"/> GRIN2B	<input type="radio"/> MBD5	<input type="radio"/> POLG	<input type="radio"/> SGCE	<input type="radio"/> SYNGAP1
<input type="radio"/> ARHGEF15	<input type="radio"/> CLCN4	<input type="radio"/> FASN	<input type="radio"/> HCN1	<input type="radio"/> MECP2	<input type="radio"/> PPT1	<input type="radio"/> SHH	<input type="radio"/> SYNJ1
<input type="radio"/> ARHGEF9	<input type="radio"/> CLN2 (TPP1)	<input type="radio"/> FGFR1	<input type="radio"/> HDAC8	<input type="radio"/> MEF2C	<input type="radio"/> PRDM8	<input type="radio"/> SIK1	<input type="radio"/> SZT2
<input type="radio"/> ARX	<input type="radio"/> CLN3	<input type="radio"/> FOLR1	<input type="radio"/> HNRNPU	<input type="radio"/> MFSD8	<input type="radio"/> PRICKLE1	<input type="radio"/> SIX3	<input type="radio"/> TBC1D24
<input type="radio"/> ATP13A2	<input type="radio"/> CLN5	<input type="radio"/> FOXG1	<input type="radio"/> IER3IP1	<input type="radio"/> MTOR	<input type="radio"/> PRICKLE2	<input type="radio"/> SLC12A5	<input type="radio"/> TBL1XR1
<input type="radio"/> ATP1A2	<input type="radio"/> CLN6	<input type="radio"/> FOXH1	<input type="radio"/> IQSEC2	<input type="radio"/> NECAP1	<input type="radio"/> PRIMA1	<input type="radio"/> SLC13A5	<input type="radio"/> TCF4
<input type="radio"/> ATP1A3	<input type="radio"/> CLN8	<input type="radio"/> FRRS1L	<input type="radio"/> ITPA	<input type="radio"/> NEDD4L	<input type="radio"/> PRRT2	<input type="radio"/> SLC19A3	<input type="radio"/> TGIF1
<input type="radio"/> ATP6AP2	<input type="radio"/> CNTN2	<input type="radio"/> FTL	<input type="radio"/> JMJD1C	<input type="radio"/> NEXMIF	<input type="radio"/> PTCH1	<input type="radio"/> SLC25A12	<input type="radio"/> TPK1
<input type="radio"/> ATRX	<input type="radio"/> CNTNAP2	<input type="radio"/> FUCA1	<input type="radio"/> KANSL1	<input type="radio"/> NGLY1	<input type="radio"/> PTEN	<input type="radio"/> SLC25A22	<input type="radio"/> TRIM32
<input type="radio"/> BRAT1	<input type="radio"/> COASY	<input type="radio"/> GABBR2	<input type="radio"/> KCNA1	<input type="radio"/> NHLRC1	<input type="radio"/> PURA	<input type="radio"/> SLC2A1	<input type="radio"/> TSC1
<input type="radio"/> C12orf57	<input type="radio"/> COQ4	<input type="radio"/> GABRA1	<input type="radio"/> KCNA2	<input type="radio"/> NODAL	<input type="radio"/> QARS	<input type="radio"/> SLC35A2	<input type="radio"/> TSC2
<input type="radio"/> C19orf12	<input type="radio"/> CP	<input type="radio"/> GABRA6	<input type="radio"/> KCNB1	<input type="radio"/> NPRL3	<input type="radio"/> RANBP2	<input type="radio"/> SLC35A3	<input type="radio"/> UBE3A
<input type="radio"/> CACNA1A	<input type="radio"/> CPA6	<input type="radio"/> GABRB2	<input type="radio"/> KCNC1	<input type="radio"/> NRXN1	<input type="radio"/> RBFOX1	<input type="radio"/> SLC6A1	<input type="radio"/> WDR45
<input type="radio"/> CACNA1H	<input type="radio"/> CSTB	<input type="radio"/> GABRB3	<input type="radio"/> KCND2	<input type="radio"/> PACS1	<input type="radio"/> RBFOX3	<input type="radio"/> SLC6A8	<input type="radio"/> WWOX
<input type="radio"/> CACNA2D2	<input type="radio"/> CTSD	<input type="radio"/> GABRD	<input type="radio"/> KCNH2	<input type="radio"/> PANK2	<input type="radio"/> RELN	<input type="radio"/> SLC9A6	<input type="radio"/> ZDHHC9
<input type="radio"/> CACNB4	<input type="radio"/> DCAF17	<input type="radio"/> GABRG2	<input type="radio"/> KCNH5	<input type="radio"/> PCDH19	<input type="radio"/> ROGD1	<input type="radio"/> SMC1A	<input type="radio"/> ZEB2
<input type="radio"/> CARS2	<input type="radio"/> DEPDC5	<input type="radio"/> GAL	<input type="radio"/> KCNJ10	<input type="radio"/> PDCD10	<input type="radio"/> RYR3	<input type="radio"/> SNAP25	<input type="radio"/> ZIC2
<input type="radio"/> CASK	<input type="radio"/> DIAPH1	<input type="radio"/> GAMT	<input type="radio"/> KCNMA1	<input type="radio"/> PIGA	<input type="radio"/> SATB2	<input type="radio"/> SNX27	
<input type="radio"/> CASR	<input type="radio"/> DNAJC5	<input type="radio"/> GATM	<input type="radio"/> KCNQ2	<input type="radio"/> PIGG	<input type="radio"/> SCARB2	<input type="radio"/> SPATA5	
<input type="radio"/> CBL	<input type="radio"/> DNMT1	<input type="radio"/> GCSH	<input type="radio"/> KCNQ3	<input type="radio"/> PIGN	<input type="radio"/> SCN1A	<input type="radio"/> SPTAN1	
<input type="radio"/> CCM2	<input type="radio"/> DOCK7	<input type="radio"/> GLDC	<input type="radio"/> KCNT1	<input type="radio"/> PIGO	<input type="radio"/> SCN1B	<input type="radio"/> SQSTM1	

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NEUROLOGY TEST CATALOG

CLINICAL AREA: EPILEPSY

Test code	Test name	# gene(s)	Gene list
Epilepsy and Seizures			
<input checked="" type="radio"/> 03401	Invitae Epilepsy Panel	151	ADSL, ALDH5A1, ALDH7A1, ALG13, ARG1, ARHGEF9, ARX, ATP1A2, ATP1A3, ATRX, BRAT1, C12orf57, CACNA1A, CACNA2D2, CAR52, CASK, CDKL5, CHD2, CHRNA2, CHRNA4, CHRNB2, CLCN4, CLN2 (TPP1), CLN3, CLN5, CLN6, CLN8, CNTNAP2, CSTB, CTSD, DDC, DEPDC5, DNAJC5, DNMT1, DOCK7, DYRK1A, EEF1A2, EFHC1, EHMT1, EPM2A, FARS2, FOLR1, FOXG1, FRRS1L, GABBR2, GABRA1, GABRB2, GABRB3, GABRG2, GAMT, GATM, GLRA1, GNAO1, GOSR2, GRIN1, GRIN2A, GRIN2B, HCN1, HNRNPU, IER3IP1, IQSEC2, ITPA, JMJD1C, KANSL1, KCNA2, KCNB1, KCNC1, KCNH2, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNT1, KCTD7, LGI1, LIAS, MBD5, MECP2, MEF2C, MFSD8, MOCS1, MOCS2, MTOR, NEDD4L, NEXMIF, NGLY1, NHLRC1, NPRL3, NRXN1, PACS1, PCDH19, PIGA, PIGN, PIGO, PLCB1, PNKD, PNKP, PNPO, POLG, PPT1, PRICKLE1, PRIMA1, PRRT2, PURA, QARS, RELN, ROGDI, SATB2, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SCN9A, SERPINI1, SGCE, SIK1, SLC12A5, SLC13A5, SLC19A3, SLC25A12, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SLC6A8, SLC9A6, SMC1A, SNX27, SPATA5, SPTAN1, ST3GAL5, STRADA, STX1B, STXBP1, SUOX, SYN1, SYNGAP1, SYNJ1, SZT2, TBC1D24, TCF4, TPK1, TSC1, TSC2, UBE3A, WDR45, WWOX, ZDHHC9, ZEB2
<input type="radio"/> 03401.1	Add-on preliminary-evidence genes	35	ABAT, ARHGEF15, ATP6AP2, CACNA1H, CACNB4, CASR, CERS1, CNTN2, CPA6, DIAPH1, FASN, GABRD, GAL, GPHN, KCNA1, KCND2, KCNH5, KPNA7, LMNB2, NECAP1, PIGG, PIGQ, PIK3AP1, PRDM8, PRICKLE2, RBFOX1, RBFOX3, RYR3, SCN5A, SETD2, SLC35A3, SNAP25, SRPX2, ST3GAL3, TBL1XR1
<input type="radio"/> 03401.2	Add-on genes for glycine encephalopathy	3	AMT, GCSH, GLDC
<input type="radio"/> 03401.3	Add-on FLNA gene	1	FLNA
<input type="radio"/> 03401.4	Add-on PTEN gene	1	PTEN
<input type="radio"/> 03401.5	Add-on RANBP2 gene	1	RANBP2

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NEUROLOGY TEST CATALOG

CLINICAL AREA: EPILEPSY

EPILEPSY AND SEIZURES INDIVIDUAL GENES

<input type="radio"/> ABAT	<input type="radio"/> CERST1	<input type="radio"/> EFHC1	<input type="radio"/> GRIN1	<input type="radio"/> LGI1	<input type="radio"/> PIK3AP1	<input type="radio"/> SCN1B	<input type="radio"/> SPATA5
<input type="radio"/> ADSL	<input type="radio"/> CHD2	<input type="radio"/> EHMT1	<input type="radio"/> GRIN2A	<input type="radio"/> LIAS	<input type="radio"/> PLCB1	<input type="radio"/> SCN2A	<input type="radio"/> SPTAN1
<input type="radio"/> ALDH5A1	<input type="radio"/> CHRNA2	<input type="radio"/> EPM2A	<input type="radio"/> GRIN2B	<input type="radio"/> LMNB2	<input type="radio"/> PNKD	<input type="radio"/> SCN3A	<input type="radio"/> SRPX2
<input type="radio"/> ALDH7A1	<input type="radio"/> CHRNA4	<input type="radio"/> FARS2	<input type="radio"/> HCN1	<input type="radio"/> MBD5	<input type="radio"/> PNKP	<input type="radio"/> SCN5A	<input type="radio"/> ST3GAL3
<input type="radio"/> ALG13	<input type="radio"/> CHRNB2	<input type="radio"/> FASN	<input type="radio"/> HNRNPU	<input type="radio"/> MECP2	<input type="radio"/> PNPO	<input type="radio"/> SCN8A	<input type="radio"/> ST3GAL5
<input type="radio"/> AMT	<input type="radio"/> CLCN4	<input type="radio"/> FLNA	<input type="radio"/> IER3IP1	<input type="radio"/> MEF2C	<input type="radio"/> POLG	<input type="radio"/> SCN9A	<input type="radio"/> STRADA
<input type="radio"/> ARG1	<input type="radio"/> CLN2 (TPP1)	<input type="radio"/> FOLR1	<input type="radio"/> IQSEC2	<input type="radio"/> MFSD8	<input type="radio"/> PPT1	<input type="radio"/> SERPINI1	<input type="radio"/> STX1B
<input type="radio"/> ARHGEF15	<input type="radio"/> CLN3	<input type="radio"/> FOXG1	<input type="radio"/> ITPA	<input type="radio"/> MOCS1	<input type="radio"/> PRDM8	<input type="radio"/> SETD2	<input type="radio"/> STXBP1
<input type="radio"/> ARHGEF9	<input type="radio"/> CLN5	<input type="radio"/> FRRS1L	<input type="radio"/> JMJD1C	<input type="radio"/> MOCS2	<input type="radio"/> PRICKLE1	<input type="radio"/> SGCE	<input type="radio"/> SUOX
<input type="radio"/> ARX	<input type="radio"/> CLN6	<input type="radio"/> GABBR2	<input type="radio"/> KANSL1	<input type="radio"/> MTOR	<input type="radio"/> PRICKLE2	<input type="radio"/> SIK1	<input type="radio"/> SYN1
<input type="radio"/> ATP1A2	<input type="radio"/> CLN8	<input type="radio"/> GABRA1	<input type="radio"/> KCNA1	<input type="radio"/> NECAP1	<input type="radio"/> PRIMA1	<input type="radio"/> SLC12A5	<input type="radio"/> SYNGAP1
<input type="radio"/> ATP1A3	<input type="radio"/> CNTN2	<input type="radio"/> GABRB2	<input type="radio"/> KCNA2	<input type="radio"/> NEDD4L	<input type="radio"/> PRRT2	<input type="radio"/> SLC13A5	<input type="radio"/> SYNJ1
<input type="radio"/> ATP6AP2	<input type="radio"/> CNTNAP2	<input type="radio"/> GABRB3	<input type="radio"/> KCNB1	<input type="radio"/> NEXMIF	<input type="radio"/> PTEN	<input type="radio"/> SLC19A3	<input type="radio"/> SZT2
<input type="radio"/> ATRX	<input type="radio"/> CPA6	<input type="radio"/> GABRD	<input type="radio"/> KCNC1	<input type="radio"/> NGLY1	<input type="radio"/> PURA	<input type="radio"/> SLC25A12	<input type="radio"/> TBC1D24
<input type="radio"/> BRAT1	<input type="radio"/> CSTB	<input type="radio"/> GABRG2	<input type="radio"/> KCND2	<input type="radio"/> NHLRC1	<input type="radio"/> QARS	<input type="radio"/> SLC25A22	<input type="radio"/> TBL1XR1
<input type="radio"/> C12orf57	<input type="radio"/> CTSD	<input type="radio"/> GAL	<input type="radio"/> KCNH2	<input type="radio"/> NPRL3	<input type="radio"/> RANBP2	<input type="radio"/> SLC2A1	<input type="radio"/> TCF4
<input type="radio"/> CACNA1A	<input type="radio"/> DDC	<input type="radio"/> GAMT	<input type="radio"/> KCNH5	<input type="radio"/> NRXN1	<input type="radio"/> RBFOX1	<input type="radio"/> SLC35A2	<input type="radio"/> TPK1
<input type="radio"/> CACNA1H	<input type="radio"/> DEPDC5	<input type="radio"/> GATM	<input type="radio"/> KCNJ10	<input type="radio"/> PACS1	<input type="radio"/> RBFOX3	<input type="radio"/> SLC35A3	<input type="radio"/> TSC1
<input type="radio"/> CACNA2D2	<input type="radio"/> DIAPH1	<input type="radio"/> GCSH	<input type="radio"/> KCNMA1	<input type="radio"/> PCDH19	<input type="radio"/> RELN	<input type="radio"/> SLC6A1	<input type="radio"/> TSC2
<input type="radio"/> CACNB4	<input type="radio"/> DNAJC5	<input type="radio"/> GLDC	<input type="radio"/> KCNQ2	<input type="radio"/> PIGA	<input type="radio"/> ROGD1	<input type="radio"/> SLC6A8	<input type="radio"/> UBE3A
<input type="radio"/> CARS2	<input type="radio"/> DNM1	<input type="radio"/> GLRA1	<input type="radio"/> KCNQ3	<input type="radio"/> PIGG	<input type="radio"/> RYR3	<input type="radio"/> SLC9A6	<input type="radio"/> WDR45
<input type="radio"/> CASK	<input type="radio"/> DOCK7	<input type="radio"/> GNAO1	<input type="radio"/> KCNT1	<input type="radio"/> PIGN	<input type="radio"/> SATB2	<input type="radio"/> SMC1A	<input type="radio"/> WWOX
<input type="radio"/> CASR	<input type="radio"/> DYRK1A	<input type="radio"/> GOSR2	<input type="radio"/> KCTD7	<input type="radio"/> PIGO	<input type="radio"/> SCARB2	<input type="radio"/> SNAP25	<input type="radio"/> ZDHHC9
<input type="radio"/> CDKL5	<input type="radio"/> EEF1A2	<input type="radio"/> GPHN	<input type="radio"/> KPNA7	<input type="radio"/> PIGQ	<input type="radio"/> SCN1A	<input type="radio"/> SNX27	<input type="radio"/> ZEB2

If an order is placed using an outdated test requisition form, Invitae reserves the right to upgrade ordered tests to their current versions. View current requisition forms online at www.invitae.com/forms or consider placing your order online in the Invitae portal. Please note: Test IDs containing add-on codes will include the original panel as well as the add-on.