

PATIENT INFORMATION

First name	MI	Last name
Date of birth (MM/DD/YYYY)	Sex <input type="radio"/> M <input type="radio"/> F	MRN (medical record number)
Ancestry <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:		
<input type="checkbox"/> Email address (for report access after release by medical professional)		
Phone	Is this patient deceased? <input type="radio"/> Yes <input type="radio"/> No Deceased date:	
Address		City
State	ZIP code	Country

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

Specimen type : Blood Saliva Assisted saliva DNA - source:
DNA must be extracted in a CLIA or other suitably certified laboratory
We are unable to accept blood/saliva from patients with:

- Allogeneic bone marrow transplants
- Blood transfusion <2 weeks prior to specimen collection

Collection date (MM/DD/YYYY) *If not provided, date will be 1 day prior to our receipt of specimen. For DNA, provide date retrieved from archive.*

Special cases : History of/current hematologic malignancy Resubmission

REASON FOR TESTING

Primary indication:

ICD-10 codes	Previous results
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Testing for a personal history of disease? Yes No If yes, describe below.
Age at diagnosis: _____

ORGANIZATION INFORMATION

Organization name and address

Organization name

Phone Fax

Address City

State ZIP code Country

Primary clinical contact

Name Role/title

Phone NPI

Email address (for report access)

Ordering physician

Same as primary clinical contact

Name NPI

Email address (for report access)

Additional clinical or laboratory contact (optional)

Name Email address (for report access)

Letter of Medical Necessity (LMN)

- I have attached an LMN and/or other documentation for insurance billing purposes.
 I agree to allow Invitae to transfer the information from this requisition to an LMN and/or other documentation using the ordering physician's name as the signature for insurance billing.

Family history? Yes No If yes, describe in detail below or attach pedigree. If there is a known familial variant, indicate here.

 INSURANCE BILLING (U.S. ONLY)

I have attached a copy of the patient's card

Insurance company name	Member ID#
Patient relation to policy holder: <input type="radio"/> Self <input type="radio"/> Child <input type="radio"/> Spouse <input type="radio"/> Other	
Policy holder name	Prior-authorization #

 PATIENT PAY BILLING

Invitae will send an electronic invoice to the patient email listed above

 INSTITUTIONAL BILLING

Send invoice to organization address above

Billing contact name	Phone	Fax
Billing email address		
Billing address		City
State	ZIP code	Country

 OTHER BILLING Invitae partner code:

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/patient-consent), and has been informed that Invitae may notify them of clinical updates related to genetic test results (in consultation with the ordering medical professional as indicated). The Patient has further been informed and hereby authorizes Invitae Corporation ("Invitae") and its designees to release information concerning testing to their insurer in order to process and/or appeal claims on behalf of the Patient. For amounts received directly, the Patient agrees to remit payment to Invitae for testing services rendered. I acknowledge that I offered pre-test Genetic Counseling to the Patient, if required by their insurer. In addition to the above, I attest that I am the ordering physician, or I am authorized by the ordering physician to order this test, or I am authorized under applicable state law to order this test.

<input type="checkbox"/> Medical professional signature	Date
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ORDER INSTRUCTIONS

Select a pre-curated test, combine multiple tests, or customize your own test for each patient. Invitae's pricing is per clinical area for initial order and re-requisition. All tests on this form are organized by clinical area. If your order contains tests from multiple clinical areas, you will need to send in two sample tubes and your order will represent two billable events. Your test results will be delivered as two reports. Please contact Client Services with any questions. For Invitae's full test menu, please visit www.invitae.com.

RE-REQUISITION

Invitae offers one re-requisition at no additional charge within 90 days for genes within the original clinical area. For more information and to request online, please visit www.invitae.com/re-requisition.

FAMILY VARIANT TESTING

Invitae offers Family Variant Testing at no additional charge within 90 days for the genes in which the original family member's variant was identified. In such cases, please use the Family Variant Testing/VUS Resolution requisition form (TRF920), available at www.invitae.com/forms.

PRELIMINARY-EVIDENCE GENES

Invitae's primary panels contain genes for which there is definitive evidence that variants in these genes cause specific diseases. Preliminary-evidence genes are genes for which there is only early evidence of a relationship between variants in these genes and specific diseases. All preliminary-evidence genes are indicated as such on the requisition form below.

ASSAY

Invitae is a CAP-accredited and CLIA-certified clinical diagnostic laboratory performing full-gene sequencing and deletion/duplication analysis using next-generation sequencing technology (NGS). Search for details on the analysis of any gene in our test catalog at www.invitae.com/physician/search.

Invitae continually updates its panels based on the most recent evidence. Please note that if an order is placed using an older version of this form, Invitae reserves the right to upgrade any ordered panel(s) to the current version(s). To avoid confusion, please consider placing your order using our online test catalog.

To request a complimentary specimen collection kit visit www.invitae.com/request-a-kit

SHIPPING INSTRUCTIONS
Please ship specimen overnight in insulated containers:

Attn: Invitae Client Services
1400 16th Street
San Francisco, CA 94103
USA

CLINICAL AREA: NEUROLOGY

Test code	Test name	# gene(s)	Gene list
Movement Disorders			
<input type="radio"/> 03351	Invitae Dystonia Panel	16	ANO3, ATP1A3, GCH1, GNAL, PARK2, PNKD, 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	15	ATP13A2, DCTN1, DNAJC6, FBXO7, GCH1, LRRK2, PARK2, PARK7, PINK1, 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	22	ALS2, APP, CHCHD10, DCTN1, FUS, GRN, 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	15	ALS2, CHCHD10, DCTN1, FUS, 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	15	ATP13A2, DCTN1, DNAJC6, FBXO7, GCH1, LRRK2, PARK2, PARK7, PINK1, 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

CLINICAL AREA: NEUROLOGY (continued)

Test code	Test name	# gene(s)	Gene list
Neuromuscular Disorders			
<input type="radio"/> 03280	Invitae Comprehensive Neuromuscular Disorders Panel	107	ACTA1, AGRN, ALG2, ANO5, ATP2A1, B3GALNT2, B4GAT1, BAG3, BIN1, CACNA1S, CAPN3, CAV3, CCDC78, CFL2, CHAT, CHKB, CHRNA1, CHRN1, 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, 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, RAPSN, RYR1, SCN4A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC5A7, SMN1, SMN2, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TMEM5, TNNT1, TNPO3, TOR1AIP1, TPM2, TPM3, TRAPPC11, TRIM32, TTN, VCP, VMA21
<input type="radio"/> 03280.1	Add-on preliminary-evidence genes	14	ALG14, HNRNPA2B1, HNRNPDL, LAMB2, LIMS2, LRP4, MYF6, PREPL, 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	14	AGRN, ALG2, CHAT, CHRNA1, CHRN1, CHRND, CHRNE, COLQ, DOK7, DPAGT1, GFPT1, MUSK, RAPSN, SLC5A7
<input type="radio"/> 03281.1	Add-on preliminary-evidence genes	8	ALG14, GMPPB, LAMB2, LRP4, PLEC, PREPL, SCN4A, SNAP25
<input type="radio"/> 03285	Invitae Malignant Hyperthermia Susceptibility Panel	2	CACNA1S, RYR1
<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, SGCA, SGCB, SGCD, SGCG, TCAP, TMEM5, 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, TCAP, TMEM5
<input type="radio"/> 03302	Invitae Dystroglycanopathy Panel	17	B3GALNT2, B4GAT1, DAG1, DPM1, DPM2, DPM3, FKRP, FKTN, GMPPB, ISPD, LARGE1, POMGNT1, POMGNT2, POMK, POMT1, POMT2, TMEM5
<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, SGCG, 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	51	ACTA1, ANO5, ATP2A1, BAG3, BIN1, CACNA1S, CAV3, CCDC78, CFL2, CNTN1, COL12A1, COL6A1, COL6A2, COL6A3, CPT2, CRYAB, DES, DNAJB6, DNM2, DYSF, FHL1, FKBP14, FLNC, GNE, 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

CLINICAL AREA: NEUROLOGY (continued)

Test code	Test name	# gene(s)	Gene list
Neuromuscular Disorders (continued)			
<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"/> 03373	Invitae Periodic Paralysis Panel	4	CACNA1S, KCNJ2, RYR1, SCN4A
<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
<input type="radio"/> 03367	Invitae Multimincore 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"/> 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, AT1L1, AT1L3, ATP7A, BICD2, BSCL2, CHCHD10, DCTN1, DNAJB2, DNM2, DNMT1, DST, DYNC1H1, EGR2, FAM134B, FBXO38, FGD4, FIG4, GAN, GARS, GDAP1, GJB1, GNB4, HARS, HINT1, HSPB1, HSPB8, IGHMBP2, IKBKAP, INF2, KIF1A, LITAF, LMNA, LRSAM1, MED25, MFN2, MORC2, MPZ, MTMR2, NDRG1, NEFL, NGF, NTRK1, PDK3, PLEKHG5, PMP22, PRPS1, PRX, RAB7A, REEP1, SBF2, SCN11A, SCN9A, SH3TC2, SIGMAR1, SLC25A46, SLC52A2, SLC52A3, SLC5A7, SPG11, SPTLC1, SPTLC2, TFG, TRIM2, TRPV4, TTR, UBA1, VAPB, VRK1, WNK1, YARS
<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

CLINICAL AREA: NEUROLOGY (continued)

Test code	Test name	# gene(s)	Gene list
Neuropathies and Related Disorders (continued)			
<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, FAM134B, IKBKAP, KIF1A, NGF, NTRK1, RAB7A, 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	IKBKAP
<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
<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	43	ABCD1, ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ATL1, B4GALNT1, BSCL2, C12orf65, CYP2U1, CYP7B1, DDHD1, DDHD2, ERLIN2, FA2H, GBA2, GJC2, HSPD1, KDM5C, KIF1A, KIF1C, KIF5A, L1CAM, NIPA1, NT5C2, PLP1, PNPLA6, REEP1, RTN2, SACS, SLC16A2, SPAST, SPG11, SPG20, SPG21, SPG7, TECPR2, VAMP1, WASHC5, ZFYVE26
<input type="radio"/> 03251.1	Add-on preliminary-evidence genes	21	AMPD2, ARL6IP1, ARSI, ATP13A2, C19orf12, CCT5, CPT1C, ENTPD1, ERLIN1, EXOSC3, IBA57, MAG, PGAP1, RAB3GAP2, REEP2, SLC33A1, TFG, USP8, VPS37A, ZFR, ZFYVE27
<input type="radio"/> 03261	Invitae Hereditary Spastic Paraplegia Autosomal Dominant Panel	12	ALDH18A1, ATL1, BSCL2, HSPD1, KIF1A, KIF5A, NIPA1, REEP1, RTN2, SPAST, VAMP1, WASHC5
<input type="radio"/> 03261.1	Add-on preliminary-evidence genes	4	CPT1C, REEP2, SLC33A1, ZFYVE27
<input type="radio"/> 03262	Invitae Hereditary Spastic Paraplegia Autosomal Recessive Panel	28	ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, B4GALNT1, C12orf65, CYP2U1, CYP7B1, DDHD1, DDHD2, ERLIN2, FA2H, GBA2, GJC2, KIF1A, KIF1C, NT5C2, PNPLA6, SACS, SPG11, SPG20, SPG21, SPG7, TECPR2, ZFYVE26
<input type="radio"/> 03262.1	Add-on preliminary-evidence genes	18	AMPD2, ARL6IP1, ARSI, ATP13A2, C19orf12, CCT5, ENTPD1, ERLIN1, EXOSC3, IBA57, MAG, PGAP1, RAB3GAP2, REEP2, TFG, USP8, VPS37A, ZFR
<input type="radio"/> 03263	Invitae Hereditary Spastic Paraplegia X-linked Panel	5	ABCD1, KDM5C, L1CAM, PLP1, SLC16A2

CLINICAL AREA: NEUROLOGY (continued)

Test code	Test name	# gene(s)	Gene list
Cardiomyopathy and Skeletal Muscle Disease			
<input type="radio"/> 02252	Invitae Cardiomyopathy and Skeletal Muscle Disease Panel	115	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, 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, RYR1, RYR2, SCN5A, SELENON, SGCA, SGCB, SGCD, SGCG, SLC22A5, SQSTM1, STAC3, STIM1, TAZ, TCAP, TIA1, TMEM43, TMEM5, 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

NEUROLOGY INDIVIDUAL GENES

<input type="radio"/> A2ML1	<input type="radio"/> ANO3	<input type="radio"/> BMPR2	<input type="radio"/> CHD7	<input type="radio"/> CRTAP	<input type="radio"/> DPM3	<input type="radio"/> FBXO7	<input type="radio"/> GJA1
<input type="radio"/> AARS	<input type="radio"/> ANO5	<input type="radio"/> BRAF	<input type="radio"/> CHKB	<input type="radio"/> CRYAB	<input type="radio"/> DRD2	<input type="radio"/> FGD4	<input type="radio"/> GJA5
<input type="radio"/> ABCC9	<input type="radio"/> AP4B1	<input type="radio"/> BSCL2	<input type="radio"/> CHMP2B	<input type="radio"/> CSRP3	<input type="radio"/> DSC2	<input type="radio"/> FHL1	<input type="radio"/> GJB1
<input type="radio"/> ABCD1	<input type="radio"/> AP4E1	<input type="radio"/> C12orf65	<input type="radio"/> CHRM2	<input type="radio"/> CTF1	<input type="radio"/> DSG2	<input type="radio"/> FHL2	<input type="radio"/> GJC2
<input type="radio"/> ACADVL	<input type="radio"/> AP4M1	<input type="radio"/> C19orf12	<input type="radio"/> CHRNA1	<input type="radio"/> CTNNA3	<input type="radio"/> DSP	<input type="radio"/> FIG4	<input type="radio"/> GLA
<input type="radio"/> ACTA1	<input type="radio"/> AP4S1	<input type="radio"/> CACNA1C	<input type="radio"/> CHRNB1	<input type="radio"/> CYP2U1	<input type="radio"/> DST	<input type="radio"/> FKBP14	<input type="radio"/> GMPPB
<input type="radio"/> ACTA2	<input type="radio"/> AP5Z1	<input type="radio"/> CACNA1S	<input type="radio"/> CHRND	<input type="radio"/> CYP7B1	<input type="radio"/> DTNA	<input type="radio"/> FKRP	<input type="radio"/> GNAL
<input type="radio"/> ACTB	<input type="radio"/> APOB	<input type="radio"/> CACNA2D1	<input type="radio"/> CHRNE	<input type="radio"/> DAG1	<input type="radio"/> DYNC1H1	<input type="radio"/> FKTN	<input type="radio"/> GNB4
<input type="radio"/> ACTC1	<input type="radio"/> APP	<input type="radio"/> CACNB2	<input type="radio"/> CHST14	<input type="radio"/> DCTN1	<input type="radio"/> DYSF	<input type="radio"/> FLNA	<input type="radio"/> GNE
<input type="radio"/> ACTN2	<input type="radio"/> ARL6IP1	<input type="radio"/> CALM1	<input type="radio"/> CIZ1	<input type="radio"/> DDHD1	<input type="radio"/> EFEMP2	<input type="radio"/> FLNC	<input type="radio"/> GPC3
<input type="radio"/> ACVR2B	<input type="radio"/> ARSI	<input type="radio"/> CALM2	<input type="radio"/> CLCN1	<input type="radio"/> DDHD2	<input type="radio"/> EGR2	<input type="radio"/> FLRT1	<input type="radio"/> GPD1L
<input type="radio"/> ACVRL1	<input type="radio"/> ATL1	<input type="radio"/> CALM3	<input type="radio"/> CNTN1	<input type="radio"/> DEPDC5	<input type="radio"/> ELAC2	<input type="radio"/> FOXH1	<input type="radio"/> GRN
<input type="radio"/> ADAMTS2	<input type="radio"/> ATL3	<input type="radio"/> CALR3	<input type="radio"/> COL12A1	<input type="radio"/> DES	<input type="radio"/> ELN	<input type="radio"/> FUS	<input type="radio"/> HAMP
<input type="radio"/> AGL	<input type="radio"/> ATP13A2	<input type="radio"/> CAPN3	<input type="radio"/> COL1A1	<input type="radio"/> DMD	<input type="radio"/> EMD	<input type="radio"/> GAA	<input type="radio"/> HAND1
<input type="radio"/> AGRN	<input type="radio"/> ATP1A3	<input type="radio"/> CASQ2	<input type="radio"/> COL1A2	<input type="radio"/> DNAJB2	<input type="radio"/> ENG	<input type="radio"/> GAN	<input type="radio"/> HARS
<input type="radio"/> AIFM1	<input type="radio"/> ATP2A1	<input type="radio"/> CAV1	<input type="radio"/> COL3A1	<input type="radio"/> DNAJB6	<input type="radio"/> ENTPD1	<input type="radio"/> GARS	<input type="radio"/> HCN4
<input type="radio"/> AKAP9	<input type="radio"/> ATP7A	<input type="radio"/> CAV3	<input type="radio"/> COL5A1	<input type="radio"/> DNAJC19	<input type="radio"/> ERLIN1	<input type="radio"/> GATA4	<input type="radio"/> HFE
<input type="radio"/> ALDH18A1	<input type="radio"/> B3GALNT2	<input type="radio"/> CBL	<input type="radio"/> COL5A2	<input type="radio"/> DNAJC6	<input type="radio"/> ERLIN2	<input type="radio"/> GATA6	<input type="radio"/> HFE2
<input type="radio"/> ALG14	<input type="radio"/> B4GALNT1	<input type="radio"/> CBS	<input type="radio"/> COL6A1	<input type="radio"/> DNM2	<input type="radio"/> EXOSC3	<input type="radio"/> GATAD1	<input type="radio"/> HINT1
<input type="radio"/> ALG2	<input type="radio"/> B4GAT1	<input type="radio"/> CCDC78	<input type="radio"/> COL6A2	<input type="radio"/> DNMT1	<input type="radio"/> EYA4	<input type="radio"/> GBA2	<input type="radio"/> HNRNPA2B1
<input type="radio"/> ALMS1	<input type="radio"/> BAG3	<input type="radio"/> CCT5	<input type="radio"/> COL6A3	<input type="radio"/> DOK7	<input type="radio"/> FA2H	<input type="radio"/> GCH1	<input type="radio"/> HNRNPDL
<input type="radio"/> ALS2	<input type="radio"/> BCOR	<input type="radio"/> CFL2	<input type="radio"/> COLQ	<input type="radio"/> DOLK	<input type="radio"/> FAM134B	<input type="radio"/> GDAP1	<input type="radio"/> HPCA
<input type="radio"/> AMPD2	<input type="radio"/> BICD2	<input type="radio"/> CHAT	<input type="radio"/> CPT1C	<input type="radio"/> DPAGT1	<input type="radio"/> FBN1	<input type="radio"/> GDF1	<input type="radio"/> HRAS
<input type="radio"/> ANK2	<input type="radio"/> BIN1	<input type="radio"/> CHCHD10	<input type="radio"/> CPT2	<input type="radio"/> DPM1	<input type="radio"/> FBN2	<input type="radio"/> GDF2	<input type="radio"/> HSPB1
<input type="radio"/> ANKRD1	<input type="radio"/> BMPR1B	<input type="radio"/> CHCHD2	<input type="radio"/> CRELD1	<input type="radio"/> DPM2	<input type="radio"/> FBXO38	<input type="radio"/> GFPT1	<input type="radio"/> HSPB3

NEUROLOGY INDIVIDUAL GENES (continued)

<input type="radio"/> HSPB8	<input type="radio"/> LAMB2	<input type="radio"/> MYH7	<input type="radio"/> PKP2	<input type="radio"/> RTN2	<input type="radio"/> SLC6A3	<input type="radio"/> TGFB2	<input type="radio"/> VPS35
<input type="radio"/> HSPD1	<input type="radio"/> LAMP2	<input type="radio"/> MYL2	<input type="radio"/> PLEC	<input type="radio"/> RYR1	<input type="radio"/> SLMAP	<input type="radio"/> TGFB3	<input type="radio"/> VPS37A
<input type="radio"/> IBA57	<input type="radio"/> LARGE1	<input type="radio"/> MYL3	<input type="radio"/> PLEKHG5	<input type="radio"/> RYR2	<input type="radio"/> SMAD3	<input type="radio"/> TGFBRI	<input type="radio"/> VRK1
<input type="radio"/> IGHMBP2	<input type="radio"/> LAS1L	<input type="radio"/> MYL4	<input type="radio"/> PLEKHM2	<input type="radio"/> SACS	<input type="radio"/> SMAD4	<input type="radio"/> TGFBRI2	<input type="radio"/> WASHC5
<input type="radio"/> IKBKAP	<input type="radio"/> LDB3	<input type="radio"/> MYLK	<input type="radio"/> PLN	<input type="radio"/> SBF2	<input type="radio"/> SMAD6	<input type="radio"/> TH	<input type="radio"/> WNK1
<input type="radio"/> ILK	<input type="radio"/> LDLR	<input type="radio"/> MYLK2	<input type="radio"/> PLOD1	<input type="radio"/> SCN10A	<input type="radio"/> SMAD9	<input type="radio"/> THAP1	<input type="radio"/> YARS
<input type="radio"/> INF2	<input type="radio"/> LDLRAP1	<input type="radio"/> MYOM1	<input type="radio"/> PLP1	<input type="radio"/> SCN11A	<input type="radio"/> SMCHD1	<input type="radio"/> TIA1	<input type="radio"/> ZFPM2
<input type="radio"/> ISPD	<input type="radio"/> LEFTY2	<input type="radio"/> MYOT	<input type="radio"/> PMP22	<input type="radio"/> SCN1A	<input type="radio"/> SMN1, SMN2	<input type="radio"/> TMEM43	<input type="radio"/> ZFR
<input type="radio"/> ITGA7	<input type="radio"/> LIMS2	<input type="radio"/> MYOZ2	<input type="radio"/> PNKD	<input type="radio"/> SCN1B	<input type="radio"/> SNAP25	<input type="radio"/> TMEM5	<input type="radio"/> ZFYVE26
<input type="radio"/> JAG1	<input type="radio"/> LITAF	<input type="radio"/> MYPN	<input type="radio"/> PNPLA2	<input type="radio"/> SCN2B	<input type="radio"/> SNCA	<input type="radio"/> TMEM70	<input type="radio"/> ZFYVE27
<input type="radio"/> JPH2	<input type="radio"/> LMNA	<input type="radio"/> NDRG1	<input type="radio"/> PNPLA6	<input type="radio"/> SCN3B	<input type="radio"/> SNTA1	<input type="radio"/> TMPO	<input type="radio"/> ZIC3
<input type="radio"/> JUP	<input type="radio"/> LMOD3	<input type="radio"/> NEB	<input type="radio"/> POMGNT1	<input type="radio"/> SCN4A	<input type="radio"/> SOD1	<input type="radio"/> TNNC1	
<input type="radio"/> KBTBD13	<input type="radio"/> LRP4	<input type="radio"/> NEBL	<input type="radio"/> POMGNT2	<input type="radio"/> SCN4B	<input type="radio"/> SOS1	<input type="radio"/> TNNI3	
<input type="radio"/> KCNA5	<input type="radio"/> LRRIC10	<input type="radio"/> NEFL	<input type="radio"/> POMK	<input type="radio"/> SCN5A	<input type="radio"/> SOS2	<input type="radio"/> TNNT1	
<input type="radio"/> KCND3	<input type="radio"/> LRRK2	<input type="radio"/> NEXN	<input type="radio"/> POMT1	<input type="radio"/> SCN8A	<input type="radio"/> SPAST	<input type="radio"/> TNNT2	
<input type="radio"/> KCNE1	<input type="radio"/> LRSAM1	<input type="radio"/> NF1	<input type="radio"/> POMT2	<input type="radio"/> SCN9A	<input type="radio"/> SPG11	<input type="radio"/> TNPO3	
<input type="radio"/> KCNE2	<input type="radio"/> MAG	<input type="radio"/> NGF	<input type="radio"/> PRDM12	<input type="radio"/> SDHA	<input type="radio"/> SPG20	<input type="radio"/> TOR1A	
<input type="radio"/> KCNE3	<input type="radio"/> MAP2K1	<input type="radio"/> NIPA1	<input type="radio"/> PRDM16	<input type="radio"/> SELENON	<input type="radio"/> SPG21	<input type="radio"/> TOR1AIP1	
<input type="radio"/> KCNE5	<input type="radio"/> MAP2K2	<input type="radio"/> NKX2-5	<input type="radio"/> PREPL	<input type="radio"/> SETX	<input type="radio"/> SPG7	<input type="radio"/> TPM1	
<input type="radio"/> KCNH2	<input type="radio"/> MAPT	<input type="radio"/> NKX2-6	<input type="radio"/> PRKAG2	<input type="radio"/> SGCA	<input type="radio"/> SPR	<input type="radio"/> TPM2	
<input type="radio"/> KCNJ2	<input type="radio"/> MARS	<input type="radio"/> NODAL	<input type="radio"/> PRKG1	<input type="radio"/> SGCB	<input type="radio"/> SPRED1	<input type="radio"/> TPM3	
<input type="radio"/> KCNJ5	<input type="radio"/> MAT2A	<input type="radio"/> NOTCH1	<input type="radio"/> PRKRA	<input type="radio"/> SGCD	<input type="radio"/> SPTLC1	<input type="radio"/> TRAPPC11	
<input type="radio"/> KCNJ8	<input type="radio"/> MATR3	<input type="radio"/> NPPA	<input type="radio"/> PRNP	<input type="radio"/> SGCE	<input type="radio"/> SPTLC2	<input type="radio"/> TRDN	
<input type="radio"/> KCNK3	<input type="radio"/> MED12	<input type="radio"/> NR2F2	<input type="radio"/> PRPS1	<input type="radio"/> SGCG	<input type="radio"/> SQSTM1	<input type="radio"/> TRIM2	
<input type="radio"/> KCNQ1	<input type="radio"/> MED13L	<input type="radio"/> NRAS	<input type="radio"/> PRRT2	<input type="radio"/> SH3TC2	<input type="radio"/> STAC3	<input type="radio"/> TRIM32	
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<input type="radio"/> KCNQ3	<input type="radio"/> MEGF10	<input type="radio"/> NT5C2	<input type="radio"/> PSEN1	<input type="radio"/> SIGMAR1	<input type="radio"/> SUN1	<input type="radio"/> TRPV4	
<input type="radio"/> KCNT1	<input type="radio"/> MFN2	<input type="radio"/> NTRK1	<input type="radio"/> PSEN2	<input type="radio"/> SKI	<input type="radio"/> SUN2	<input type="radio"/> TTN	
<input type="radio"/> KCTD17	<input type="radio"/> MORC2	<input type="radio"/> OPTN	<input type="radio"/> PTPN11	<input type="radio"/> SLC16A2	<input type="radio"/> SURF1	<input type="radio"/> TTR	
<input type="radio"/> KDM5C	<input type="radio"/> MPZ	<input type="radio"/> P3H1	<input type="radio"/> RAB3GAP2	<input type="radio"/> SLC22A5	<input type="radio"/> SYNE1	<input type="radio"/> TUBB4A	
<input type="radio"/> KIF1A	<input type="radio"/> MTM1	<input type="radio"/> PARK2	<input type="radio"/> RAB7A	<input type="radio"/> SLC25A46	<input type="radio"/> SYNE2	<input type="radio"/> TXNRD2	
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<input type="radio"/> KIF5A	<input type="radio"/> MTO1	<input type="radio"/> PCDH19	<input type="radio"/> RANGRF	<input type="radio"/> SLC2A10	<input type="radio"/> TAZ	<input type="radio"/> UBQLN2	
<input type="radio"/> KLHL40	<input type="radio"/> MUSK	<input type="radio"/> PCSK9	<input type="radio"/> RAPSN	<input type="radio"/> SLC33A1	<input type="radio"/> TBK1	<input type="radio"/> USP8	
<input type="radio"/> KLHL41	<input type="radio"/> MYBPC3	<input type="radio"/> PDK3	<input type="radio"/> RASA1	<input type="radio"/> SLC39A13	<input type="radio"/> TBX5	<input type="radio"/> VAMP1	
<input type="radio"/> KRAS	<input type="radio"/> MYF6	<input type="radio"/> PDLIM3	<input type="radio"/> RBM20	<input type="radio"/> SLC40A1	<input type="radio"/> TCAP	<input type="radio"/> VAPB	
<input type="radio"/> L1CAM	<input type="radio"/> MYH11	<input type="radio"/> PFN1	<input type="radio"/> REEP1	<input type="radio"/> SLC52A2	<input type="radio"/> TECPR2	<input type="radio"/> VCL	
<input type="radio"/> LAMA2	<input type="radio"/> MYH2	<input type="radio"/> PGAP1	<input type="radio"/> REEP2	<input type="radio"/> SLC52A3	<input type="radio"/> TFG	<input type="radio"/> VCP	
<input type="radio"/> LAMA4	<input type="radio"/> MYH6	<input type="radio"/> PINK1	<input type="radio"/> RIT1	<input type="radio"/> SLC5A7	<input type="radio"/> TFR2	<input type="radio"/> VMA21	

CLINICAL AREA: PEDIATRIC AND RARE DISEASE

Test code	Test name	# gene(s)	Gene list
Epilepsy, Seizures, and Developmental Brain Abnormalities			
<input type="radio"/> 03401	Invitae Epilepsy Panel	133	ADSL, ALDH5A1, ALDH7A1, ALG13, ARHGEF9, ARX, ATP1A2, ATP1A3, ATRX, BRAT1, C12orf57, CACNA1A, CACNA2D2, CASK, CDKL5, CHD2, CHRNA2, CHRNA4, CHRN2, CLCN4, CLN2 (TPP1), CLN3, CLN5, CLN6, CLN8, CNTNAP2, CSTB, CTSD, DEPDC5, DNAJC5, DNM1, DOCK7, DYRK1A, EEF1A2, EFHC1, EHMT1, EPM2A, FOLR1, FOXG1, FRRS1L, GABRA1, GABRB3, GABRG2, GAMT, GATM, GLRA1, GNAO1, GOSR2, GRIN1, GRIN2A, GRIN2B, HCN1, HNRNPU, IER3IP1, IQSEC2, ITPA, KANSL1, KCNA2, KCNB1, KCNC1, KCNH2, KCNJ10, KCNQ2, KCNQ3, KCNT1, KCTD7, KIAA2022, LGI1, LIAS, MBD5, MECP2, MEF2C, MFSD8, MTOR, NEDD4L, NGLY1, NHLRC1, NRXN1, PACS1, PCDH19, PIGA, PIGN, PIGO, PLCB1, PNKD, PNKP, PNPO, POLG, PPT1, PRICKLE1, PRRT2, PURA, QARS, ROGDI, SATB2, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SCN9A, SERPINI1, SGCE, SLC12A5, SLC13A5, SLC19A3, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SLC6A8, SLC9A6, SMC1A, SNX27, SPATA5, SPTAN1, ST3GAL5, STRADA, STX1B, STXB1, SYN1, SYNJ1, SYNGAP1, SZT2, TBC1D24, TCF4, TSC1, TSC2, UBE3A, WWOX, ZDHHC9, ZEB2
<input type="radio"/> 03401.1	Add-on preliminary-evidence genes	50	ABAT, ARHGEF15, ATP6AP2, CACNA1H, CACNB4, CARS2, CASR, CBL, CERS1, CNTN2, COQ4, CPA6, DIAPH1, FARS2, FASN, GABBR2, GABRB2, GABRD, GAL, GPHN, JMJD1C, KCNA1, KCND2, KCNH5, KCNMA1, KPNA7, LMNB2, NECAP1, NPRL3, PIGG, PIQ, PIK3AP1, PRDM8, PRICKLE2, PRIMA1, RBFOX1, RBFOX3, RELN, RYR3, SCN5A, SETD2, SIK1, SLC25A12, SLC35A3, SNAP25, SRPX2, ST3GAL3, TBL1XR1, TPK1, WDR45
<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
<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 Cavernous 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	53	ALDH7A1, ARHGEF9, ARX, BRAT1, CACNA2D2, CASK, CDKL5, CHD2, CLCN4, DNM1, DOCK7, EEF1A2, FOLR1, FRRS1L, GABRA1, GABRB3, GNAO1, GRIN1, GRIN2A, GRIN2B, HCN1, HNRNPU, IER3IP1, KCNA2, KCNB1, KCNQ2, KCNQ3, KCNT1, PCDH19, PIGA, PIGN, PIGO, PLCB1, PNKP, PNPO, PURA, SCN1A, SCN2A, SCN8A, SCN9A, SLC12A5, SLC13A5, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SMC1A, SPTAN1, STXB1, SYNGAP1, SZT2, TBC1D24, WWOX
<input type="radio"/> 03402.1	Add-on preliminary-evidence genes	12	ARHGEF15, ATP1A2, COQ4, GABBR2, GPHN, KCNH5, MTOR, NECAP1, NEDD4L, SCN1B, SIK1, ST3GAL3
<input type="radio"/> 04424	Invitae Holoprosencephaly Panel	5	GLI2, SHH, SIX3, TGIF1, ZIC2
<input type="radio"/> 04424.1	Add-on preliminary-evidence genes	4	CDON, FOXH1, NODAL, PTCH1
<input type="radio"/> 03414	Invitae Neurodegeneration with Brain Iron Accumulation Panel	11	ATP13A2, C19orf12, COASY, CP, DCAF17, FTL, FUCA1, PANK2, PLA2G6, SQSTM1, WDR45
<input type="radio"/> 03414.1	Add-on preliminary-evidence genes	3	FA2H, KIF1A, TRIM32
<input type="radio"/> 03404	Invitae Rett/Angelman and Related Disorders Panel	22	ADSL, ALDH5A1, ATRX, CDKL5, CNTNAP2, DYRK1A, EHMT1, FOXG1, IQSEC2, KANSL1, MBD5, MECP2, MEF2C, NGLY1, NRXN1, SATB2, SCN8A, SLC9A6, STXB1, TCF4, UBE3A, ZEB2
<input type="radio"/> 03404.1	Add-on preliminary-evidence genes	4	GABRD, TBL1XR1, JMJD1C, WDR45
<input type="radio"/> 01721	Invitae Tuberous Sclerosis Complex Panel	2	TSC1, TSC2

EPILEPSY, SEIZURES, AND DEVELOPMENTAL BRAIN ABNORMALITIES INDIVIDUAL GENES

<input type="radio"/> ABAT	<input type="radio"/> CDKL5	<input type="radio"/> DYNC1H1	<input type="radio"/> GLRA1	<input type="radio"/> KIF1A	<input type="radio"/> PLA2G6	<input type="radio"/> SCN5A	<input type="radio"/> ST3GAL5
<input type="radio"/> ACTB	<input type="radio"/> CDON	<input type="radio"/> DYRK1A	<input type="radio"/> GNAO1	<input type="radio"/> KPNA7	<input type="radio"/> PLCB1	<input type="radio"/> SCN8A	<input type="radio"/> STRADA
<input type="radio"/> ACTG1	<input type="radio"/> CERS1	<input type="radio"/> EEF1A2	<input type="radio"/> GOSR2	<input type="radio"/> KRIT1	<input type="radio"/> PNKD	<input type="radio"/> SCN9A	<input type="radio"/> STX1B
<input type="radio"/> ADSL	<input type="radio"/> CHD2	<input type="radio"/> EFHC1	<input type="radio"/> GPHN	<input type="radio"/> LGI1	<input type="radio"/> PNKP	<input type="radio"/> SERPINI1	<input type="radio"/> STXBP1
<input type="radio"/> ALDH5A1	<input type="radio"/> CHD7	<input type="radio"/> EHMT1	<input type="radio"/> GRIN1	<input type="radio"/> LIAS	<input type="radio"/> PNPO	<input type="radio"/> SETD2	<input type="radio"/> SYN1
<input type="radio"/> ALDH7A1	<input type="radio"/> CHRNA2	<input type="radio"/> EPM2A	<input type="radio"/> GRIN2A	<input type="radio"/> LMNB2	<input type="radio"/> POLG	<input type="radio"/> SGCE	<input type="radio"/> SYNGAP1
<input type="radio"/> ALG13	<input type="radio"/> CHRNA4	<input type="radio"/> FA2H	<input type="radio"/> GRIN2B	<input type="radio"/> MBD5	<input type="radio"/> PPT1	<input type="radio"/> SHH	<input type="radio"/> SYNJ1
<input type="radio"/> AMT	<input type="radio"/> CHRNB2	<input type="radio"/> FARS2	<input type="radio"/> HCN1	<input type="radio"/> MECP2	<input type="radio"/> PRDM8	<input type="radio"/> SIK1	<input type="radio"/> SZT2
<input type="radio"/> ARHGEF15	<input type="radio"/> CLCN4	<input type="radio"/> FASN	<input type="radio"/> HNRNPU	<input type="radio"/> MEF2C	<input type="radio"/> PRICKLE1	<input type="radio"/> SIX3	<input type="radio"/> TBC1D24
<input type="radio"/> ARHGEF9	<input type="radio"/> CLN2 (TPP1)	<input type="radio"/> FOLR1	<input type="radio"/> IER3IP1	<input type="radio"/> MFSB8	<input type="radio"/> PRICKLE2	<input type="radio"/> SLC12A5	<input type="radio"/> TBL1XR1
<input type="radio"/> ARX	<input type="radio"/> CLN3	<input type="radio"/> FOXG1	<input type="radio"/> IQSEC2	<input type="radio"/> MTOR	<input type="radio"/> PRIMA1	<input type="radio"/> SLC13A5	<input type="radio"/> TCF4
<input type="radio"/> ATP13A2	<input type="radio"/> CLN5	<input type="radio"/> FOXH1	<input type="radio"/> ITPA	<input type="radio"/> NECAP1	<input type="radio"/> PRRT2	<input type="radio"/> SLC19A3	<input type="radio"/> TGIF1
<input type="radio"/> ATP1A2	<input type="radio"/> CLN6	<input type="radio"/> FRRS1L	<input type="radio"/> JMJD1C	<input type="radio"/> NEDD4L	<input type="radio"/> PTCH1	<input type="radio"/> SLC25A12	<input type="radio"/> TPK1
<input type="radio"/> ATP1A3	<input type="radio"/> CLN8	<input type="radio"/> FTL	<input type="radio"/> KANSL1	<input type="radio"/> NGLY1	<input type="radio"/> PTEN	<input type="radio"/> SLC25A22	<input type="radio"/> TRIM32
<input type="radio"/> ATP6AP2	<input type="radio"/> CNTN2	<input type="radio"/> FUCA1	<input type="radio"/> KCNA1	<input type="radio"/> NHLRC1	<input type="radio"/> PURA	<input type="radio"/> SLC2A1	<input type="radio"/> TSC1
<input type="radio"/> ATRX	<input type="radio"/> CNTNAP2	<input type="radio"/> GABBR2	<input type="radio"/> KCNA2	<input type="radio"/> NODAL	<input type="radio"/> QARS	<input type="radio"/> SLC35A2	<input type="radio"/> TSC2
<input type="radio"/> BRAT1	<input type="radio"/> COASY	<input type="radio"/> GABRA1	<input type="radio"/> KCNB1	<input type="radio"/> NPRL3	<input type="radio"/> RANBP2	<input type="radio"/> SLC35A3	<input type="radio"/> UBE3A
<input type="radio"/> C12orf57	<input type="radio"/> COQ4	<input type="radio"/> GABRA6	<input type="radio"/> KCNC1	<input type="radio"/> NRXN1	<input type="radio"/> RBFox1	<input type="radio"/> SLC6A1	<input type="radio"/> WDR45
<input type="radio"/> C19orf12	<input type="radio"/> CP	<input type="radio"/> GABRB2	<input type="radio"/> KCND2	<input type="radio"/> PACS1	<input type="radio"/> RBFox3	<input type="radio"/> SLC6A8	<input type="radio"/> WWOX
<input type="radio"/> CACNA1A	<input type="radio"/> CPA6	<input type="radio"/> GABRB3	<input type="radio"/> KCNH2	<input type="radio"/> PANK2	<input type="radio"/> RELN	<input type="radio"/> SLC9A6	<input type="radio"/> ZDHHC9
<input type="radio"/> CACNA1H	<input type="radio"/> CSTB	<input type="radio"/> GABRD	<input type="radio"/> KCNH5	<input type="radio"/> PCDH19	<input type="radio"/> ROGD1	<input type="radio"/> SMC1A	<input type="radio"/> ZEB2
<input type="radio"/> CACNA2D2	<input type="radio"/> CTSD	<input type="radio"/> GABRG2	<input type="radio"/> KCNJ10	<input type="radio"/> PDCD10	<input type="radio"/> RYR3	<input type="radio"/> SNAP25	<input type="radio"/> ZIC2
<input type="radio"/> CACNB4	<input type="radio"/> DCAF17	<input type="radio"/> GAL	<input type="radio"/> KCNMA1	<input type="radio"/> PIGA	<input type="radio"/> SATB2	<input type="radio"/> SNX27	
<input type="radio"/> CARS2	<input type="radio"/> DEPDC5	<input type="radio"/> GAMT	<input type="radio"/> KCNQ2	<input type="radio"/> PIGG	<input type="radio"/> SCARB2	<input type="radio"/> SPATA5	
<input type="radio"/> CASK	<input type="radio"/> DIAPH1	<input type="radio"/> GATM	<input type="radio"/> KCNQ3	<input type="radio"/> PIGN	<input type="radio"/> SCN1A	<input type="radio"/> SPTAN1	
<input type="radio"/> CASR	<input type="radio"/> DNAJC5	<input type="radio"/> GCSH	<input type="radio"/> KCNT1	<input type="radio"/> PIGO	<input type="radio"/> SCN1B	<input type="radio"/> SQSTM1	
<input type="radio"/> CBL	<input type="radio"/> DNMT1	<input type="radio"/> GLDC	<input type="radio"/> KCTD7	<input type="radio"/> PIGQ	<input type="radio"/> SCN2A	<input type="radio"/> SRPX2	
<input type="radio"/> CCM2	<input type="radio"/> DOCK7	<input type="radio"/> GLI2	<input type="radio"/> KIAA2022	<input type="radio"/> PIK3AP1	<input type="radio"/> SCN3A	<input type="radio"/> ST3GAL3	