

KIDNEYSEQ™ VERSION 5

IOWA INSTITUTE OF HUMAN GENETICS
CLINICAL TEST REQUISITION FORM
CLIA ID 16D2053873 | CAP ID: 8864771

431 Newton Road, 140 EMRB
Iowa City, IA 52242-1078

Phone: 319-335-3688 Fax: 319-335-3484
Email: iihg-clinicaldivision@healthciare.uiowa.edu
Website: humangenetics.medicine.uiowa.edu

| Patient Information | | Specimen Information | |
|---|---|--|--------------|
| - Place patient ID sticker here - -OR- | | Specimen Collection Date: ___/___/___ MM/DD/YYYY | |
| Name: _____ Last First | _____ | Specimen Type: <input type="checkbox"/> ~6mL EDTA whole blood <input type="checkbox"/> ~3mL EDTA whole blood (pediatric) <input type="checkbox"/> 10µg DNA @110ng/ml (minimum) CLIA ID: _____ | |
| DOB: ___/___/___ MM/DD/YYYY | Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female | *DNA must be extracted in a CLIA certified laboratory. For labs outside of the USA, equivalent requirements apply. | |
| | | MRN: | Accession #: |

Clinical Indication for Testing (required)

***Providing more detailed and relevant clinical records will help in the interpretation of genetic findings. Clinical information can be emailed to iihg-clinicaldivision@healthciare.uiowa.edu or faxed to 319-335-3484

What is your working clinical diagnosis?

What are the salient clinical features?

What are the relevant laboratory data?

Is there a family history? Yes No (If yes, provide details and send pedigree)

Is this person a transplant donor candidate (applies to *APOL1* and familial testing)? Yes No

Patient Ancestry

- | | | | | |
|---|--|---|---|--------------------------------------|
| <input type="checkbox"/> African/African American | <input type="checkbox"/> Ashkenazi Jewish | <input type="checkbox"/> East Asian | <input type="checkbox"/> Middle Eastern | <input type="checkbox"/> South Asian |
| <input type="checkbox"/> Amish | <input type="checkbox"/> Latino/Admixed American | <input type="checkbox"/> European (Finnish) | <input type="checkbox"/> European (Non-Finnish) | <input type="checkbox"/> Other: |

Test Menu – select one or more options

- KidneySeq™ Options:**
- | | |
|--|---|
| <input type="checkbox"/> Comprehensive testing (339 genes) | <input type="checkbox"/> KidneySeq™ custom panel: identify genes to include on pp3-4 |
| <input type="checkbox"/> CAKUT (61 genes) | <input type="checkbox"/> CYP3A5 Metabolism Testing (for potential transplant recipients). This is a free add-on to KidneySeq™ |
| <input type="checkbox"/> Ciliopathies/tubulointerstitial diseases (93 genes) | <input type="checkbox"/> Familial testing (segregation analysis) |
| <input type="checkbox"/> Disorders of tubular ion transport (77 genes) | • Patient information on page 1 should match the accompanying sample being tested |
| <input type="checkbox"/> Glomerulopathies (68 genes) – includes <i>APOL1</i> | • Record the index patient (proband) information on page 2. |
| <input type="checkbox"/> Nephrolithiasis/ nephrocalcinosis (37 genes) | |

Single gene test: *APOL1* test: G1 and G2 alleles

Institutional Billing Information (required prior to testing)

Institutional billing ONLY - The IIHG does not do insurance or patient billing

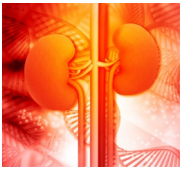
| | | | |
|-------------------|--------|------|------------------------|
| Institution Name: | | | Billing Contact: |
| Street Address 1: | | | Billing Contact Email: |
| Street Address 2: | | | Phone: |
| City: | State: | Zip: | Fax: |

Result Report Recipient

| Result Report Recipient | Additional Result Report Recipient |
|-------------------------|------------------------------------|
| Health Care Provider: | Health Care Provider: |
| NPI: | NPI: |
| Email: | Email: |
| Phone: | Phone: |
| Fax: | Fax: |

CPT codes and sample requirements on page 2

IIHG ID:



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| | | |
|-------------------------------------|-----------------------------------|-------------------------------|
| Patient Name: _____ Last First M | DOB: ____/____/____ MM/DD/YYYY | IIHG ID: (Office use only) |
|-------------------------------------|-----------------------------------|-------------------------------|

Familial Testing (segregation analysis) – Index Patient Information

(testing to determine if other family members carry the same genetic variant identified in the index person)

| | |
|--|---|
| Last Name: | Index patient current clinical diagnosis: |
| First Name: | |
| DOB: | |
| Relationship to person listed on page 1: | |

If more than two persons are to be tested, please include a pedigree. For assistance in constructing a pedigree please see <https://medicine.uiowa.edu/humangenetics/resources/how-draw-pedigree>

Sample Requirements

- Samples **must** be labeled two patient identifiers. Samples received without adequate patient identification will be rejected.
 - 6mL whole blood in lavender **EDTA tube** (3 mL pediatric minimum).
- OR
- 10µg DNA (A260/A280 1.8-2) resuspended in 0.1mM EDTA (10mM Tris HCl, 0.1mM EDTA, pH 8, Teknova Cat #T0220)
- *DNA must be extracted by a CLIA certified laboratory. For laboratories outside of the USA, equivalent requirements apply. Please include a copy of the accreditation standards and certificate of accreditation.

Shipping Requirements

- Samples may be shipped at ambient temperature or with an ice pack. DO NOT freeze sample.
- If the sample is collected on a Friday, refrigerate the sample over the weekend for shipping the following week.
- Samples should be shipped for next day delivery, Tuesday-Friday. Samples are not received on weekends or US holidays.
- Please contact us at iihg-clinicaldivision@healthcare.uiowa.edu or 319-335-3688 with any questions or concerns.
- Ship overnight to:
Iowa Institute of Human Genetics
University of Iowa
431 Newton Road, 140 EMRB
Iowa City, IA 52242
Phone: 319-335-3688

CPT Codes:

- KidneySeq™
 - Comprehensive testing: 81455
 - CAKUT: 81455
 - Ciliopathies/tubulointerstitial diseases: 81455
 - Disorders of tubular ion transport: 81455
 - Glomerular diseases: 81455
 - Nephrolithiasis/nephrocalcinosis: 81450
 - Custom Panel 5-50 genes: 81450
 - Custom Panel 1-4 genes: contact lab
- APOL1 test: 81479
- Familial Testing: 81479



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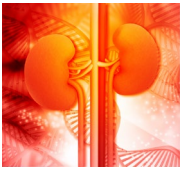
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KidneySeq™ Comprehensive Gene List: Customize KidneySeq™ by selecting genes from our comprehensive gene list. Pricing for customized panels of up to 50 genes is \$2000.

- | | | | | |
|-----------------------------------|----------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| <input type="checkbox"/> ACE | <input type="checkbox"/> BBS1 | <input type="checkbox"/> CNNM2 | <input type="checkbox"/> EHHADH | <input type="checkbox"/> HNF4A |
| <input type="checkbox"/> ACTG1 | <input type="checkbox"/> BBS10 | <input type="checkbox"/> COL4A1 | <input type="checkbox"/> EMP2 | <input type="checkbox"/> HOGA1 |
| <input type="checkbox"/> ACTN4 | <input type="checkbox"/> BBS12 | <input type="checkbox"/> COL4A3 | <input type="checkbox"/> ENPP1 | <input type="checkbox"/> HPRT1 |
| <input type="checkbox"/> ADAMTS9 | <input type="checkbox"/> BBS2 | <input type="checkbox"/> COL4A4 | <input type="checkbox"/> ETV4 | <input type="checkbox"/> HPSE2 |
| <input type="checkbox"/> ADCY10 | <input type="checkbox"/> BBS4 | <input type="checkbox"/> COL4A5 | <input type="checkbox"/> EYA1 | <input type="checkbox"/> HSD11B2 |
| <input type="checkbox"/> AGT | <input type="checkbox"/> BBS5 | <input type="checkbox"/> COL4A6 | <input type="checkbox"/> FAH | <input type="checkbox"/> IFT121 |
| <input type="checkbox"/> AGTR1 | <input type="checkbox"/> BBS7 | <input type="checkbox"/> COQ2 | <input type="checkbox"/> FAN1 | <input type="checkbox"/> IFT122 |
| <input type="checkbox"/> AGXT | <input type="checkbox"/> BBS9 | <input type="checkbox"/> COQ6 | <input type="checkbox"/> FAT1 | <input type="checkbox"/> IFT139 |
| <input type="checkbox"/> AHI1 | <input type="checkbox"/> BMP4 | <input type="checkbox"/> COQ8B | <input type="checkbox"/> FAT4 | <input type="checkbox"/> IFT140 |
| <input type="checkbox"/> ALG1 | <input type="checkbox"/> BNC2 | <input type="checkbox"/> CPLANE1 | <input type="checkbox"/> FGA | <input type="checkbox"/> IFT144 |
| <input type="checkbox"/> ALG8 | <input type="checkbox"/> BSND | <input type="checkbox"/> CRB2 | <input type="checkbox"/> FGF20 | <input type="checkbox"/> IFT172 |
| <input type="checkbox"/> ALG9 | <input type="checkbox"/> C2CD3 | <input type="checkbox"/> CREBBP | <input type="checkbox"/> FGF23 | <input type="checkbox"/> IFT27 |
| <input type="checkbox"/> ALMS1 | <input type="checkbox"/> C8ORF37 | <input type="checkbox"/> CSPP1 | <input type="checkbox"/> FGFR1 | <input type="checkbox"/> IFT43 |
| <input type="checkbox"/> ALPL | <input type="checkbox"/> CA2 | <input type="checkbox"/> CTNS | <input type="checkbox"/> FN1 | <input type="checkbox"/> IFT74 |
| <input type="checkbox"/> ANKFY1 | <input type="checkbox"/> CACNA1D | <input type="checkbox"/> CTU2 | <input type="checkbox"/> FOXC1 | <input type="checkbox"/> IFT80 |
| <input type="checkbox"/> ANKS6 | <input type="checkbox"/> CACNA1H | <input type="checkbox"/> CUBN | <input type="checkbox"/> FOXI1 | <input type="checkbox"/> INF2 |
| <input type="checkbox"/> ANLN | <input type="checkbox"/> CASR | <input type="checkbox"/> CUL3 | <input type="checkbox"/> FOXP1 | <input type="checkbox"/> INPP5E |
| <input type="checkbox"/> ANOS1 | <input type="checkbox"/> CC2D2A | <input type="checkbox"/> CYP11B1 | <input type="checkbox"/> FRAS1 | <input type="checkbox"/> INVS |
| <input type="checkbox"/> APOA1 | <input type="checkbox"/> CD151 | <input type="checkbox"/> CYP11B2 | <input type="checkbox"/> FREM1 | <input type="checkbox"/> IQCB1 |
| <input type="checkbox"/> APOE | <input type="checkbox"/> CD2AP | <input type="checkbox"/> CYP17A1 | <input type="checkbox"/> FREM2 | <input type="checkbox"/> ITGA3 |
| <input type="checkbox"/> APOL1 | <input type="checkbox"/> CDK20 | <input type="checkbox"/> CYP21A1P | <input type="checkbox"/> FXYD2 | <input type="checkbox"/> ITGA8 |
| <input type="checkbox"/> APRT | <input type="checkbox"/> CEP104 | <input type="checkbox"/> CYP21A2 | <input type="checkbox"/> GANAB | <input type="checkbox"/> ITGB4 |
| <input type="checkbox"/> AQP2 | <input type="checkbox"/> CEP120 | <input type="checkbox"/> CYP24A1 | <input type="checkbox"/> GAPVD1 | <input type="checkbox"/> ITSN1 |
| <input type="checkbox"/> ARHGAP24 | <input type="checkbox"/> CEP164 | <input type="checkbox"/> CYP27B1 | <input type="checkbox"/> GATA3 | <input type="checkbox"/> ITSN2 |
| <input type="checkbox"/> ARHGDIA | <input type="checkbox"/> CEP290 | <input type="checkbox"/> DACH1 | <input type="checkbox"/> GATM | <input type="checkbox"/> JAG1 |
| <input type="checkbox"/> ARL13B | <input type="checkbox"/> CEP41 | <input type="checkbox"/> DCDC2 | <input type="checkbox"/> GDNF | <input type="checkbox"/> KAT6B |
| <input type="checkbox"/> ARL6 | <input type="checkbox"/> CEP83 | <input type="checkbox"/> DGKE | <input type="checkbox"/> GFRA1 | <input type="checkbox"/> KATNIP |
| <input type="checkbox"/> ARMC9 | <input type="checkbox"/> CFAP410 | <input type="checkbox"/> DHCR7 | <input type="checkbox"/> GLA | <input type="checkbox"/> KCNJ1 |
| <input type="checkbox"/> ATP6VOA4 | <input type="checkbox"/> CFI | <input type="checkbox"/> DHTKD1 | <input type="checkbox"/> GLI3 | <input type="checkbox"/> KCNJ10 |
| <input type="checkbox"/> ATP6V1B1 | <input type="checkbox"/> CHD1L | <input type="checkbox"/> DLC1 | <input type="checkbox"/> GLIS2 | <input type="checkbox"/> KCNJ5 |
| <input type="checkbox"/> ATP6V1C2 | <input type="checkbox"/> CHD7 | <input type="checkbox"/> DLG1 | <input type="checkbox"/> GNAS | <input type="checkbox"/> KCTD1 |
| <input type="checkbox"/> ATP7B | <input type="checkbox"/> CHRNA3 | <input type="checkbox"/> DLG5 | <input type="checkbox"/> GON7 | <input type="checkbox"/> KIAA0586 |
| <input type="checkbox"/> ATXN10 | <input type="checkbox"/> CLCN2 | <input type="checkbox"/> DMP1 | <input type="checkbox"/> GPC3 | <input type="checkbox"/> KIF12 |
| <input type="checkbox"/> AVP | <input type="checkbox"/> CLCN5 | <input type="checkbox"/> DNAJB11 | <input type="checkbox"/> GREB1L | <input type="checkbox"/> KIF14 |
| <input type="checkbox"/> AVPR2 | <input type="checkbox"/> CLCNKA | <input type="checkbox"/> DSTYK | <input type="checkbox"/> GREM1 | <input type="checkbox"/> KIF7 |
| <input type="checkbox"/> B2M | <input type="checkbox"/> CLCNKB | <input type="checkbox"/> DYNC2H1 | <input type="checkbox"/> GRHPR | <input type="checkbox"/> KIRREL1 |
| <input type="checkbox"/> B9D1 | <input type="checkbox"/> CLDN10 | <input type="checkbox"/> DZIP1L | <input type="checkbox"/> GRIP1 | <input type="checkbox"/> KLHL3 |
| <input type="checkbox"/> B9D2 | <input type="checkbox"/> CLDN16 | <input type="checkbox"/> E2F3 | <input type="checkbox"/> GSN | <input type="checkbox"/> KMT2D |
| <input type="checkbox"/> BBIP1 | <input type="checkbox"/> CLDN19 | <input type="checkbox"/> EGF | <input type="checkbox"/> HNF1B | <input type="checkbox"/> LAGE3 |



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- | | | | | |
|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> LAMA5 | <input type="checkbox"/> NR3C2 | <input type="checkbox"/> SALL1 | <input type="checkbox"/> SLC7A9 | <input type="checkbox"/> TSC1 |
| <input type="checkbox"/> LAMB2 | <input type="checkbox"/> NRIP1 | <input type="checkbox"/> SALL4 | <input type="checkbox"/> SLC9A3R1 | <input type="checkbox"/> TSC2 |
| <input type="checkbox"/> LCAT | <input type="checkbox"/> NUP107 | <input type="checkbox"/> SARS2 | <input type="checkbox"/> SLIT2 | <input type="checkbox"/> TTC21B |
| <input type="checkbox"/> LMNA | <input type="checkbox"/> NUP133 | <input type="checkbox"/> SCARB2 | <input type="checkbox"/> SMARCAL1 | <input type="checkbox"/> TTC8 |
| <input type="checkbox"/> LMX1B | <input type="checkbox"/> NUP160 | <input type="checkbox"/> SCNN1A | <input type="checkbox"/> SOX17 | <input type="checkbox"/> TTR |
| <input type="checkbox"/> LRP2 | <input type="checkbox"/> NUP205 | <input type="checkbox"/> SCNN1B | <input type="checkbox"/> SRGAP1 | <input type="checkbox"/> UMOD |
| <input type="checkbox"/> LRP5 | <input type="checkbox"/> NUP85 | <input type="checkbox"/> SCNN1G | <input type="checkbox"/> STAR | <input type="checkbox"/> UPK3A |
| <input type="checkbox"/> LYZ | <input type="checkbox"/> NUP93 | <input type="checkbox"/> SDCCAG8 | <input type="checkbox"/> TBX18 | <input type="checkbox"/> VDR |
| <input type="checkbox"/> LZTFL1 | <input type="checkbox"/> OCRL | <input type="checkbox"/> SEC61A1 | <input type="checkbox"/> TCTN1 | <input type="checkbox"/> VHL |
| <input type="checkbox"/> MAFB | <input type="checkbox"/> OFD1 | <input type="checkbox"/> SEC63 | <input type="checkbox"/> TCTN2 | <input type="checkbox"/> VIPAS39 |
| <input type="checkbox"/> MAGED2 | <input type="checkbox"/> OSGEP | <input type="checkbox"/> SEMA3E | <input type="checkbox"/> TCTN3 | <input type="checkbox"/> VPS33B |
| <input type="checkbox"/> MAGI2 | <input type="checkbox"/> PARN | <input type="checkbox"/> SGK3 | <input type="checkbox"/> TFAP2A | <input type="checkbox"/> WDPCP |
| <input type="checkbox"/> MAPKBP1 | <input type="checkbox"/> PAX2 | <input type="checkbox"/> SGPL1 | <input type="checkbox"/> TFCP2L1 | <input type="checkbox"/> WDR19 |
| <input type="checkbox"/> MEFV | <input type="checkbox"/> PBX1 | <input type="checkbox"/> SIX1 | <input type="checkbox"/> TMEM107 | <input type="checkbox"/> WDR35 |
| <input type="checkbox"/> MKKS | <input type="checkbox"/> PDE6D | <input type="checkbox"/> SIX2 | <input type="checkbox"/> TMEM138 | <input type="checkbox"/> WDR72 |
| <input type="checkbox"/> MKS1 | <input type="checkbox"/> PDSS2 | <input type="checkbox"/> SIX5 | <input type="checkbox"/> TMEM216 | <input type="checkbox"/> WDR73 |
| <input type="checkbox"/> MUC1 | <input type="checkbox"/> PHEX | <input type="checkbox"/> SLC12A1 | <input type="checkbox"/> TMEM231 | <input type="checkbox"/> WNK1 |
| <input type="checkbox"/> MYH9 | <input type="checkbox"/> PKD1 | <input type="checkbox"/> SLC12A3 | <input type="checkbox"/> TMEM237 | <input type="checkbox"/> WNK4 |
| <input type="checkbox"/> MYO1E | <input type="checkbox"/> PKD2 | <input type="checkbox"/> SLC17A5 | <input type="checkbox"/> TMEM67 | <input type="checkbox"/> WNT4 |
| <input type="checkbox"/> NEDD4L | <input type="checkbox"/> PKHD1 | <input type="checkbox"/> SLC22A12 | <input type="checkbox"/> TNFRSF1A | <input type="checkbox"/> WT1 |
| <input type="checkbox"/> NEK1 | <input type="checkbox"/> PLCE1 | <input type="checkbox"/> SLC2A2 | <input type="checkbox"/> TNS2 | <input type="checkbox"/> XDH |
| <input type="checkbox"/> NEK8 | <input type="checkbox"/> PLCG2 | <input type="checkbox"/> SLC2A9 | <input type="checkbox"/> TNXA | <input type="checkbox"/> XPNPEP3 |
| <input type="checkbox"/> NLRP3 | <input type="checkbox"/> PMM2 | <input type="checkbox"/> SLC34A1 | <input type="checkbox"/> TNXB | <input type="checkbox"/> XPO5 |
| <input type="checkbox"/> NOTCH2 | <input type="checkbox"/> PODXL | <input type="checkbox"/> SLC34A3 | <input type="checkbox"/> TP53RK | <input type="checkbox"/> YRDC |
| <input type="checkbox"/> NOTCH2NLA | <input type="checkbox"/> PRKCSH | <input type="checkbox"/> SLC3A1 | <input type="checkbox"/> TPRKB | <input type="checkbox"/> ZMPSTE24 |
| <input type="checkbox"/> NPHP1 | <input type="checkbox"/> PTPRO | <input type="checkbox"/> SLC41A1 | <input type="checkbox"/> TRAP1 | <input type="checkbox"/> ZMYM2 |
| <input type="checkbox"/> NPHP3 | <input type="checkbox"/> REN | <input type="checkbox"/> SLC4A1 | <input type="checkbox"/> TRIM32 | <input type="checkbox"/> ZNF423 |
| <input type="checkbox"/> NPHP4 | <input type="checkbox"/> RET | <input type="checkbox"/> SLC4A4 | <input type="checkbox"/> TRPC6 | |
| <input type="checkbox"/> NPHS1 | <input type="checkbox"/> ROBO2 | <input type="checkbox"/> SLC5A1 | <input type="checkbox"/> TRPM6 | |
| <input type="checkbox"/> NPHS2 | <input type="checkbox"/> RPGRIP1L | <input type="checkbox"/> SLC5A2 | <input type="checkbox"/> TRPS1 | |