



# 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@healthcare.uiowa.edu](mailto:iihg-clinicaldivision@healthcare.uiowa.edu)  
Website: [www.medicine.uiowa.edu/humangenetics/](http://www.medicine.uiowa.edu/humangenetics/)

Patient Information	Specimen Information
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<p style="text-align: center;">- Place patient ID sticker here -</p> <p style="text-align: center;">-OR-</p> Name: _____ Last FirstDOB: ____/____/____ MM/DD/YYYY	<p>Specimen Collection Date: ____/____/____ MM/DD/YYYY</p> 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: _____ <p>*DNA must be extracted in a CLIA certified laboratory. For labs outside of the USA, equivalent requirements apply.</p> MRN: _____ Accession #: _____
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Clinical Indication for Testing (required)
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\*\*\*Providing more detailed and relevant clinical records will help in the interpretation of genetic findings. Clinical information can be emailed to [iihg-clinicaldivision@healthcare.uiowa.edu](mailto:iihg-clinicaldivision@healthcare.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
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<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
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<p><b>KidneySeq™ Options:</b></p> <input type="checkbox"/> Comprehensive testing (339 genes) <input type="checkbox"/> CAKUT (61 genes) <input type="checkbox"/> Ciliopathies/tubulointerstitial diseases (93 genes) <input type="checkbox"/> Disorders of tubular ion transport (77 genes) <input type="checkbox"/> Glomerulopathies (68 genes) – includes <i>APOL1</i> <input type="checkbox"/> Nephrolithiasis/ nephrocalcinosis (37 genes)	<input type="checkbox"/> KidneySeq™ custom panel: identify genes to include on pp3-4 <input type="checkbox"/> <i>CYP3A5</i> Metabolism Testing (for potential transplant recipients). This is a free add-on to KidneySeq™ <input type="checkbox"/> Familial testing (segregation analysis) •Patient information on page 1 should match the accompanying sample being tested •Record the index patient (proband) information on page 2.
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**Single gene test:**  *APOL1* test: G1 and G2 alleles

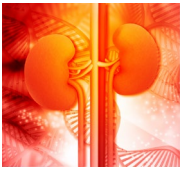
Institutional Billing Information (required prior to testing)
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<b>Institutional billing ONLY - The IIHG does not do insurance or patient billing</b>			
Institution Name:		Billing Contact:	
Street Address 1:		Billing Contact Email:	
Street Address 2:		Phone:	
City:	State:	Zip:	Fax:

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: _____		DOB: ____/____/____	IIHG ID: (Office use only)
Last	First	M	

## 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

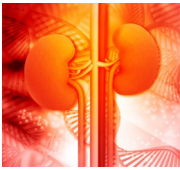
- Samples **must** be labeled two patient identifiers. Samples received without adequate patient identification will be rejected.
  - 6mL whole blood in lavender **EDTA tube** (3 mL pediatric minimum).
- OR
- 10µg DNA (A260/A280 1.8-2) resuspended in 0.1mM EDTA (10mM Tris HCl, 0.1mM EDTA, pH 8, Teknova 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@uiowa.edu](mailto:iihg-clinicaldivision@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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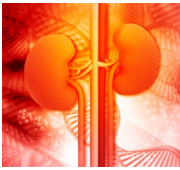
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KidneySeq™ Comprehensive Gene List: Customize KidneySeq™ by selecting genes from our comprehensive gene list. Pricing for customized panels of up to 50 genes is \$2000.

- |                                   |                                  |                                   |                                 |                                   |
|-----------------------------------|----------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| <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    |                                   |