

**Polycystic kidney disease type 2 (PKD2)**      **OMIM: 613095**  
**Gene: PKD2**      **Locus: 4q21-23**      **OMIM: 173910**

**SERVICE:**      **mutation, dosage and linkage analysis of the polycystic kidney disease gene 2 (PKD2)**

**TESTING:**      **Diagnostic\*:**      **clinically affected patients**  
**Presymptomatic:** **patients at risk of developing ADPKD (known PKD2 mutation)**  
**Prenatal:**      **at risk of having an affected child (known PKD2 mutations)**  
**Linkage:**      **analysis to determine if family linked to PKD1 or PKD2 locus**  
\*samples will only be accepted with a completed 'testing criteria' form (see attached)

**REFERRALS:** **Clinical Geneticists and Nephrologists only**  
**The laboratory does NOT accept referrals directly from patients**

## TARGET REPORTING TIME AND COSTS

(Non UK National Health Service patients are subject to a surcharge. Payment must be agreed prior to testing – please include invoice form A)

<b>Diagnostic:</b>	<b>8 weeks</b>	<b>£475 (sequencing + dosage)</b>
<b>Presymptomatic:</b>	<b>2 weeks</b>	<b>£145</b>
<b>Linkage:</b>	<b>2 weeks</b>	<b>£415 (family group of three individuals)</b>

## TECHNICAL INFORMATION

- PCR and fluorescent sequence analysis of exons 1-15 and splice site boundaries of the PKD2 gene
- Multiplex ligation dependent probe amplification analysis of the PKD2 gene
- Linkage using microsatellite markers at the 4p21-23 locus

## SAMPLE REQUIREMENTS

- 1-5ml blood in EDTA or 50ul DNA (concentration ~500ng/ul)
- All patient samples must be labelled with **name, date of birth and Hospital/NHS number**
- Samples should be accompanied by a FULLY completed request card (available from the laboratory)
- Please include details of test, family history, patient address & postcode, GP, referring clinician and unit/hospital
- **Samples and paperwork must include three unique and matching patient identifiers**

## SHIPPING DETAILS

- DNA can be sent by first class post
- Blood must be appropriately packaged and preferably sent by courier to arrive as soon as possible
- Do not freeze prior or during postage

## CONSENT

It is the responsibility of the referring clinician to ensure consent has been obtained for:

- testing and storage
- the use of the sample and the information generated from it to be shared with members of the patients family and their health professionals

After testing, part of this sample might be used anonymously for the development of new tests and to monitor the quality of laboratory results.

## CONTACT DETAILS

Genetics Laboratories, Box 143  
Level 6, Addenbrooke's Treatment Centre  
Addenbrooke's Hospital  
Cambridge CB2 0QQ  
Tel: +44 (0) 1223 348866  
Fax: +44 (0) 1223 348870  
Email: [becky.treacy@addenbrookes.nhs.uk](mailto:becky.treacy@addenbrookes.nhs.uk)

Website: [www.cuh.org.uk/genetics-labs](http://www.cuh.org.uk/genetics-labs)



**Accredited Medical Laboratory**  
**Reference No: 1275**

## UKGTN testing criteria

<b>Name of Disease:</b>	<b>Polycystic kidney disease, autosomal dominant (PKD2)</b>
<b>Name of Gene:</b>	<b>PKD2</b>

<b>Patient name:</b>	<b>Date of birth:</b>
<b>Patient postcode:</b>	<b>NHS number:</b>
<b>Name of referrer:</b>	
<b>Title/Position:</b>	
<b>Department/Hospital:</b>	
<b>Contact email/telephone number:</b>	

**Referrals will only be accepted from one of the following:**  
(Please indicate with a tick which category refers to the referrer).

Referrer	Tick if this refers to you
<b>Consultant Clinical Geneticist</b>	<input type="checkbox"/>
<b>Consultant Nephrologist</b>	<input type="checkbox"/>

**Minimum criteria required for testing to be appropriate as stated in the Gene Dossier:**

Criteria	Tick if this patient meets criteria
<b>Diagnosis of mild ADPKD (cysts with normal renal function &gt; 35 years) OR</b>	<input type="checkbox"/>
<b>At risk family members where the familial is known</b>	<input type="checkbox"/>

**If the sample does not fulfil these criteria and you still feel that testing should be performed please contact the molecular genetics laboratory**