

**Congenital Insensitivity to pain with Anhidrosis (CIPA)  
Hereditary Sensory & Autonomic Neuropathy Type IV (HSAN IV),  
autosomal recessive OMIM: 256800  
Gene: NTRK1 Loci: 1q21\_q22 OMIM: 191315**

**SERVICE:** mutation analysis of the NTRK1 gene

**TESTING:** **Diagnostic\*:** clinically affected patients  
**Carrier:** relatives of clinically affected patients (known mutation)  
\*samples will only be accepted with a completed 'testing criteria' form (see attached)

**REFERRALS:** **Consultant Clinical Geneticists, Paediatric neurologists and neurologists 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>£415 (sequence)</b>
<b>Carrier:</b>	<b>2 weeks</b>	<b>£175 (sequence two exons)</b>

**TECHNICAL INFORMATION**

- PCR and fluorescent sequence analysis of exons 1-17 (includes exon 9) and splice site boundaries

**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

*UK Genetic Testing Network*

Name of disease(s):	<b>Congenital insensitivity to pain with anhidrosis (CIPA) Hereditary Sensory &amp; Autonomic Neuropathy Type IV (HSAN IV)</b>
Name of gene(s):	<b>NTRK1 (TRKA)</b>

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

**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>	
<b>Paediatric neurologist</b>	
<b>Neurologist</b>	

**Minimum criteria required for testing to be appropriate:**

Criteria	Tick if this patient meets criteria
<b>For all: Congenital absence of pain</b>	
<b>For adults: in addition one or more of the following:</b>	
• <b>Cognitive developmental delay</b>	
• <b>Anhidrosis</b>	
• <b>Deficient temperature sensing</b>	
• <b>Increased incidence of infection, especially Staphylococcus aureus</b>	

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