

GRN-related Frontotemporal dementia (GRN-FTD)

OMIM: 600274

Gene: PGRN

Locus: 17q21.32

OMIM: 138945

SERVICE: mutation and dosage analysis of the PGRN (progranulin) gene

TESTING: **Diagnostic*:** clinically affected patients
Presymptomatic#: patients at risk of developing FTDP (known mutation)
*samples will only be accepted with a completed 'testing criteria' form (see attached)

REFERRALS: **Clinical Geneticists and Neurologists only**
#Presymptomatic testing is only accepted from a Consultant Clinical Geneticist
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)

Diagnostic:	8 weeks	£415	(sequence + dosage)
Presymptomatic:	2 weeks	£145	

TECHNICAL INFORMATION

- PCR and fluorescent sequence analysis of exons 0 (untranslated), 1-12 and splice site boundaries
- Multiplex ligation dependent probe amplification analysis of exons 0, 2, 5, 9 & 11

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
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Addenbrooke's Hospital
Cambridge CB2 0QQ
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Website: www.cuh.org.uk/genetics-labs



Accredited Medical Laboratory
Reference No: 1275

UKGTN testing criteria

Name of Disease:	Frontotemporal dementia; FTD
Name of Gene:	granulin (GRN)

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.
Consultant Clinical Geneticist	<input type="checkbox"/>
Consultant Neurologist for diagnostic testing in symptomatic patient only	<input type="checkbox"/>

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

Criteria	Tick if this patient meets criteria
1. Under 65 years of age at presentation and MAPT analysis normal, AND	<input type="checkbox"/>
2. Frontotemporal dementia with or without parkinsonism	<input type="checkbox"/>
3. Family history of dementia and/or parkinsonism in two or more first degree relatives consistent with an autosomal dominant mode of inheritance	<input type="checkbox"/>
4. Post-mortem finding of tau-negative, alpha-synuclein-negative and ubiquitin-positive "cat-eye" or lentiform-shaped neuronal intranuclear inclusions (NII), often found in the neocortex and striatum in deceased individuals on histopathology	<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