

UKGTN Testing Criteria

Test name: Brugada Syndrome 6 Gene Panel	
Approved name and symbol of disorder/condition(s): See Appendix 1	OMIM number(s):
Approved name and symbol of gene(s): See Appendix 1	OMIM number(s):
Patient name:	Date of birth:
Patient postcode:	NHS number:
Name of referrer:	
Title/Position:	Lab ID:
Referrals will only be accepted from one of the following:	
Referrer	Tick if this refers to you.
Consultant Clinical Geneticist	<input type="checkbox"/>
Consultant Cardiologist	<input type="checkbox"/>
	<input type="checkbox"/>
Minimum criteria required for testing to be appropriate as stated in the Gene Dossier:	
Criteria	Tick if this patient meets criteria
Index case with ECG consistent with Brugada syndrome AND	<input type="checkbox"/>
A family history consistent with autosomal dominant inheritance OR	<input type="checkbox"/>
A personal history of syncope without warning and/or aborted cardiac arrest.	<input type="checkbox"/>

Additional Information:

For panel tests:

At risk family members where familial mutation is known do not require a full panel test but should be offered analysis of the known mutation

If the sample does not fulfil the clinical criteria or you are not one of the specified types of referrer and you still feel that testing should be performed please contact the laboratory to discuss testing of the sample.

Appendix 1: Brugada Syndrome 6 Gene Panel

Genes in panel test and associated conditions

Rows that are highlighted in yellow show where the gene is currently being fully analysed in the context of a single separate UKGTN test

HGNC standard name and symbol of the gene	HGNC number	OMIM number	OMIM standard name of condition and symbol	Mode of inheritance	OMIM number	Evidence of association between gene(s) and condition	% of horizontal coverage of gene	MLPA	Comments
<i>GPD1L</i>	HGNC:28956	*611778	Brugada syndrome 2	AD	611777	PubMed: Various	100%	No	Not available in UKGTN
<i>HCN4</i>	HGNC:16882	*605206	Brugada syndrome 8	AD	613123	PubMed: 19165230	100%	No	Not available in UKGTN
<i>KCNE3</i>	HGNC:6243	*604433	Brugada syndrome 6	AD	613119	PubMed: Various	100%	No	Not available in UKGTN
<i>SCN1B</i>	HGNC:10586	*600235	Atrial fibrillation, familial, 13 Brugada syndrome 5	AD AD	615377 612838	PubMed: Various PubMed: 18464934	98%	No	Not available in UKGTN
<i>SCN3B</i>	HGNC:20665	*608214	Brugada syndrome 7	AD	613120	PubMed: 20031595	100%	No	Not available in UKGTN
<i>SCN5A</i>	HGNC:10593	*600163	Atrial fibrillation, familial, 10 Brugada syndrome 1 Cardiomyopathy, dilated, 1E Long QT syndrome-3 Ventricular fibrillation, familial, 1	AD AD AD AD	614022 601144 601154 603830 603829	PubMed: Various PubMed: Various PubMed: Various PubMed: Various PubMed: 10940383	100%	No	Available in UKGTN panel test