



Solid tumour somatic mutation panels

Bulletin for Doctors | June 2020

Sonic Genetics offers a number of focused somatic mutation panels to identify mutations of therapeutic, prognostic and diagnostic significance.

Panel testing can be performed on formalin-fixed paraffin embedded (FFPE) tissue sections/cell blocks or Diff-Quik stained cytology slides. Expected turnaround time is seven business days from specimen receipt at our testing laboratory. Unless otherwise specified, next generation sequencing testing is performed on DNA, and coverage is limited to specific mutation hotspot regions within these genes.

Panel/tests	Medicare criteria met	Medicare criteria not met
Non-small cell lung cancer (BRAF, EGFR ^a , ERBB2 (HER2), KRAS, MET + ALK IHC/FISH + ROS1 IHC/FISH)	No out-of-pocket expense	\$397.35*
Melanoma (BRAF, KIT, NRAS)	No out-of-pocket expense	\$230.95*
Metastatic colorectal cancer (BRAF, KRAS, NRAS, PIK3CA)	No out-of-pocket expense	\$362.60*
Breast cancer (AKT1, ERBB2, ESR1, PIK3CA)	n/a	\$350*
Endometrial cancer (CTNNB1, PIK3CA, POLE ^b , TP53 ^c) <i>Note:</i> Mismatch repair and p53 IHC are required for ProMisE genomic classifier. Additional charges may apply.	n/a	\$350*
Gastrointestinal stromal tumours (BRAF, KIT, PDGFRA)	n/a	\$350*
Glioma (BRAF, IDH1, IDH2, TP53)	No out-of-pocket expense	\$350*
Glioma FISH (1p/19q co-deletion +/- EGFR amplification by FISH)	No out-of-pocket expense	\$410*
Full FIND IT panel (≥30 genes)	n/a	\$595*
Upgrade to FULL FIND IT panel after completion of focused panel	n/a	\$350*

^aIncludes testing for T790M mutation; ^bTests all exons of POLE exonuclease domain (exons 9, 10, 11, 12, 13, 14; NM_006231.3), as required for ProMisE molecular classification of endometrial cancer (PMID 28061006); ^cTests TP53 exons 4, 5, 6, 7, 8, 9 (NM_000546.5); *Prices correct at time of printing;

How to order

1. Complete a somatic mutation test request form, available for download at www.sonicgenetics.com.au/clinicians/request-forms.

To enable interpretation of genomic findings and drug therapy recommendations, please include:

- > Patient clinical history and diagnosis
- > Previous molecular test results, including gene fusion FISH results (if available)
- > A copy of the histology report
- > Details of the laboratory holding the original tissue sample, block number and laboratory reference

Please fax this request to 1800 952 202 or email to oncology@sonicgenetics.com.au.

2. The laboratory will contact the patient for prepayment by credit card over the phone if criteria for Medicare or other reimbursement are not met or if a rebate is not available.
3. Following receipt of the request and payment, we will contact the holding laboratory to obtain the tissue sample. If the sample is held by a laboratory outside of the Sonic Healthcare network, please inform the patient that there may be a delay in receiving the sample and the holding laboratory may charge the patient directly for processing, postage and administration.
4. Once the tissue sample is received, we will perform the analysis and aim to report the result within seven business days. FISH and IHC tests may extend this by 1–3 business days.

(Note: If the sample yields insufficient DNA for analysis, the laboratory may attempt to use other technology to obtain a result. This may cause a delay, and results in these cases may not include all genes and mutations covered by the focused or full panel.)

Further information regarding the FIND IT panel is available on the Sonic Genetics website, www.sonicgenetics.com.au. Please contact 1800 010 447 or email info@sonicgenetics.com.au should you have any further enquiries.