

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB** 7/17/1977  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Gastrointestinal Stromal Tumor Mutation**

ARUP test code 2002674

**GIST Interpretation**

Not Detected

No KIT or PDGFRA mutation was detected. This result does not rule out the possibility of a mutation below the detectable limit of the assay.

This result has been reviewed and approved by [REDACTED]

H=High, L=Low, \*=Abnormal, C=Critical

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Test information: Gastrointestinal Stromal Tumor Mutation

**CHARACTERISTICS:** This assay is designed to detect mutations in the KIT gene exons 9, 11, 13, 14, 17 or 18 and in PDGFRA gene exons 12, 14 or 18. Mutations in the KIT and PDGFRA genes may indicate responsiveness to certain targeted therapies. For specific treatment recommendations please refer to NCCN Clinical Practice Guidelines in Oncology for Soft Tissue Sarcoma (Gastrointestinal Stromal Tumor section) ([www.nccn.org](http://www.nccn.org)).

**GENES TESTED:** KIT gene (NM\_000222.2) exons 9, 11, 13, 14, 17, and 18 and PDGFRA gene (NM\_006206.4) exons 12, 14, and 18

**METHODOLOGY:** Genomic DNA is isolated from microscopically-guided dissection of tumor tissue and then enriched for the targeted regions of the tested genes. The mutation status of the targeted genes is determined by massively parallel sequencing (next generation sequencing). The hg19 (GRCh37) reference sequence is used as a reference for identifying genetic mutations.

**LIMITATIONS:** This test will not detect mutations in other locations within the KIT or PDGFRA genes, in other genes, or below the limit of detection. This test evaluates for variants in tumor tissue only and cannot distinguish between somatic and germline variants. It is possible that some large insertion/deletion mutations (especially those greater than 60bp) may not be detected. Tissue samples yielding at least 10ng are acceptable but may yield suboptimal results if yield is less than 50ng.

**LIMIT OF DETECTION:** 5 percent mutant allele frequency for single nucleotide variants (SNV) and small to medium sized multi-nucleotide variants (MNV) (insertions/deletions less than 60bp).

**ANALYTICAL SENSITIVITY (PPA):** Analytical sensitivity for all variant classes is available through this link: <http://ltd.aruplab.com/Tests/Pdf/294>.

**CLINICAL DISCLAIMER:** Results of this test must always be interpreted within the clinical context and other relevant data and should not be used alone for a diagnosis of malignancy. This test is not intended to detect minimal residual disease.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: [aruplab.com/CS](http://aruplab.com/CS)

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Block ID

UVS20-22797 B3

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H=High, L=Low, \*=Abnormal, C=Critical

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VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
GIST Interpretation	21-013-105461	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Block ID	21-013-105461	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 21-013-105461  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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