

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 1/7/1984  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**TP53 Somatic Mutation, Prognostic**

ARUP test code 2013484

TP53 Somatic Mutation, Prognostic

See Note

Performed By: Quest San Juan Capistrano Inc.  
33608 Ortega Highway  
San Juan Capistrano, CA 92675

TP53 Exon 4 Mutation

See Note

Performed By: Quest San Juan Capistrano Inc.  
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TP53 Exon 5 Mutation

See Note

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TP53 Exon 6 Mutation

See Note

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TP53 Exon 7 Mutation

See Note

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TP53 Exon 8 Mutation

See Note

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33608 Ortega Highway  
San Juan Capistrano, CA 92675

**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  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 24-323-146899  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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**TP53 Exon 9 Mutation**

**See Note**

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33608 Ortega Highway  
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**TP53 Somatic Mutation, Interpretation**

**See Note**

Specimen Type: LAV TOP WB  
PARAFFIN BLOCK NUMBER: NOT GIVEN  
Interpretation: NOT DETECTED

Based on sequence analysis, no clinically significant mutations were detected in the TP53 gene exons 2-11 (all coding region).

Mutations in TP53 tumor suppressor gene occur in greater than 50% of adult human cancers. The TP53 gene mutations usually correlate with poor outcome and early recurrence in cancer. Testing was performed on P53 exon 2-11 which account for >90% mutations in TP53 gene. We cannot rule out the possibilities of mutation in other sites of the gene.

The total nucleic acid was extracted from patient's whole blood or bone marrow cells or paraffin embedded tissues. For paraffin embedded specimens, microscopic review and marking of the specimen was performed by a pathologist, and genomic DNA was extracted from macro-dissected paraffin-embedded tissue sections. Next-generation sequencing (NGS) was used to detect mutations in all coding exons of TP53 (exons 2-11). TP53, NM\_000546.5 was used as reference. This assay does not detect large deletions in the p53 gene. For (17p-) please refer to FISH assay. The sensitivity of this sequencing assay is 5% of mutant alleles in the background of normal wildtype alleles. Insertions up to 30bp and deletions up to 48bp have been successfully detected by this assay.

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

Laboratory results and submitted clinical information reviewed by Bernard Joseph Ilagan, MD, MHA, FACMG, CGMBS.

(\* = OUT OF RANGE)  
Performed By: Quest San Juan Capistrano Inc.  
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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
TP53 Somatic Mutation, Prognostic	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 4 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 5 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 6 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 7 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 8 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Exon 9 Mutation	24-323-146899	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TP53 Somatic Mutation, Interpretation	24-323-146899	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

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