

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 9/30/1947
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

MDM2 Gene Amplification by FISH

ARUP test code 3001301

MDM2 FISH Result **Amplified**

Controls were run and performed as expected.
This result has been reviewed and approved by Cameron Beech, M.D.

MDM2/CEP12 FISH Ratio 8.5

Average MDM2 Signal Number per Cell 20.0

Average CEP12 Signal Number per Cell 2.4

Total Cell Count 20

Scoring Method Manual

MDM2 FISH Reference Number S23-31726 A

MDM2 FISH Source L Pelvic mass

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

Unless otherwise indicated, testing performed at:

INTERPRETIVE INFORMATION: MDM2, FISH

Fluorescence in situ hybridization (FISH) analysis for MDM2 gene amplification status was performed on a section from a paraffin-embedded tissue block using differentially labeled fluorescent probes targeting the MDM2 gene and the chromosome 12 centromere (CEP12) (Agilent Technologies). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin-stained section. Controls performed appropriately. Based on the assay performance during test validation, the test is expected to detect MDM2 amplification status correctly in 100 percent of patients. Assay range and limit of detection were generated using normal and known positive cases respectively. MDM2 amplification (MDM2/CEP12 ratio of 2.0 or greater) is most useful for distinguishing well-differentiated liposarcoma/atypical lipomatous tumor and dedifferentiated liposarcoma from lipoma. However, increased MDM2 gene copy number and, occasionally, amplification may be observed in other tumors with lipomatous differentiation as well as in nonadipocytic tumors. Similarly, MDM2 coamplification (increased copy numbers of MDM2 and CEP12, and MDM2/CEP12 ratio less than 2.0) is a finding that is not specific to liposarcoma and may be seen in benign and malignant adipocytic and nonadipocytic tumors. The findings should be interpreted in the context of clinical and histopathologic findings.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MDM2 FISH Result	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MDM2/CEP12 FISH Ratio	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Average MDM2 Signal Number per Cell	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Average CEP12 Signal Number per Cell	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MDM2 FISH Reference Number	23-193-401625	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MDM2 FISH Source	23-193-401625	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: