

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 8/22/1983
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

NR4A3 Rearrangement by FISH

ARUP test code 3006357

NR4A3 FISH Result **Positive**
Controls were run and performed as expected.
This result has been reviewed and approved by Parisa Adelhardt, M.D.

Total Cell Count 50

Scoring Method Manual

NR4A3 FISH Reference Number ABC 123

NR4A3 FISH Source Tissue

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: 23-235-108030
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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4848

INTERPRETIVE INFORMATION: NR4A3(9q22.33-q31.1), FISH

Fluorescence in situ hybridization (FISH) analysis was performed on a section from a paraffin embedded tissue block using differentially labeled fluorescent probes targeting the upstream (5') and downstream (3') flanking regions of the NR4A3 gene (Agilent Technologies). Cells were evaluated from regions of tumor identified on histopathologic review of a matching hematoxylin and eosin stained section. Controls performed appropriately.

This test is designed to detect rearrangements involving the NR4A3 gene, but it does not identify a specific partner gene. An abnormal signal pattern seen in 25 percent or more of the tumor cells evaluated is considered a positive result. Based on the assay performance during test validation, the test is expected to detect 100 percent of NR4A3 rearrangements in patients with NR4A3 rearranged tumors, except for rare instances of cryptic rearrangements. Assay range and limit of detection were generated using normal and known positive cases respectively.

Identification of a rearrangement of the NR4A3 gene locus is useful for diagnosis of Extraskeletal Myxoid Chondrosarcoma (EMCS) and salivary acinic cell carcinoma. NR4A3 rearrangements may also rarely be found in certain other tumors. Correlation with histopathologic and clinical findings is, therefore, essential for complete interpretation of this study.

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 |
|-----------------------------|---------------|------------------|------------------|-------------------|
| NR4A3 FISH Result | 23-235-108030 | 00/00/0000 00:00 | 00/00/0000 00:00 | 00/00/0000 00:00 |
| Total Cell Count | 23-235-108030 | 00/00/0000 00:00 | 00/00/0000 00:00 | 00/00/0000 00:00 |
| Scoring Method | 23-235-108030 | 00/00/0000 00:00 | 00/00/0000 00:00 | 00/00/0000 00:00 |
| NR4A3 FISH Reference Number | 23-235-108030 | 00/00/0000 00:00 | 00/00/0000 00:00 | 00/00/0000 00:00 |
| NR4A3 FISH Source | 23-235-108030 | 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: