

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

**Patient: Patient, Example**

**DOB:** 7/16/1955  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**EWSR1 (22q12) Gene Rearrangement by FISH**

ARUP test code 3001305

**EWSR1 FISH Result**

Negative

This result has been reviewed and approved by [REDACTED]  
[REDACTED] Controls performed as expected.

**INTERPRETIVE INFORMATION: EWSR1 (22q12), 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 EWSR1 gene (Abbott Molecular). 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 EWSR1 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 EWSR1 rearrangements in patients with EWSR1 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 EWSR1 gene locus is useful for diagnosis among the Ewing family of tumors. EWSR1 rearrangements can also be found in certain other tumors, including clear cell sarcoma, desmoplastic small round cell tumor, extraskeletal myxoid chondrosarcoma, myxoid liposarcoma, rhabdomyosarcoma, and angiomatoid fibrous histiocytoma. 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.

EWSR1 FISH Reference Number

S21-2157 B2

EWSR1 FISH Source

L forefoot

**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: 21-113-400036  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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4848

Total Cell Count 50

Scoring Method Manual

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
EWSR1 FISH Result	21-113-400036	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Reference Number	21-113-400036	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Source	21-113-400036	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	21-113-400036	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	21-113-400036	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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Patient: Patient, Example  
ARUP Accession: 21-113-400036  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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