

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 9/20/2011  
**Gender:** Female  
**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
	Controls were run and performed as expected. This result has been reviewed and approved by H. Evin Gulbahce, M.D. 2000 Circle of Hope, RM 3100 Salt Lake City, UT 84112

Total Cell Count	52
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Scoring Method	Manual
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EWSR1 FISH Reference Number	PCS22-5324 A1
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EWSR1 FISH Source	Not provided
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**H=High, L=Low, \*=Abnormal, C=Critical**

**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.

**VERIFIED/REPORTED DATES**

Procedure	Accession	Collected	Received	Verified/Reported
EWSR1 FISH Result	22-327-400785	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Cell Count	22-327-400785	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Scoring Method	22-327-400785	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Reference Number	22-327-400785	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EWSR1 FISH Source	22-327-400785	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: