

UNITED STATES

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 1/17/1986 Sex: Male

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD 01/01/2017 12:34 **Collection Date:**

FUS (16p11) Gene Rearrangement by FISH

ARUP test code 3000548

FUS FISH Result

Positive

Controls were run and performed as expected. This result has been reviewed and approved by 2000 Circle of Hope, RM 3100 Salt Lake City, UT 84112

INTERPRETIVE INFORMATION: FUS (16p11) Gene Rearrangement by 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 FUS gene (Abbott). 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 translocations involving the FUS 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 FUS rearrangements in patients with FUS 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 FUS gene locus is most useful for distinguishing myxoid liposarcoma/round cell liposarcoma and low-grade fibromyxoid sarcoma from other soft tissue tumors in their respective differential diagnoses. Rearrangements are less frequently encountered in a variety of other soft tissue neoplasms, and correlation with clinical and histopathologic findings is necessary for a complete diagnosis, therefore therefore.

Reference:

Downs-Kelly E, Goldblum JR, Patel RM, et al. The utility of fluorescence in situ hybridization (FISH) in the diagnosis of myxoid soft tissue neoplasms. Am J Surg Pathol. 2008 Jan;32(1):8-13.

Fletcher DM, Bridge JA, Hogendoorn P, Mertens F, Eds. WHO Classification of Tumours of Soft Tissue and Bone, 4th Ed. Lyon: IARC, 2013.

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

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



		performed in a CLIA clinical purposes.	certified laboratory a	nd is intended for
Гotal Cell Count		100		
Scoring Method		Manual		
FUS FISH Reference Number				
FUS FISH Source		Thigh Mass		
		VERIFIED/REPORTED DATE	ES	
Procedure	Accession	Collected	Received	Verified/Reported
FUS FISH Result	21-034-401927	1/27/2021 12:01:00 AM	2/3/2021 1:08:53 PM	2/5/2021 6:28:00 PM
Total Cell Count	21-034-401927	1/27/2021 12:01:00 AM	2/3/2021 1:08:53 PM	2/5/2021 6:28:00 PM
Scoring Method	21-034-401927	1/27/2021 12:01:00 AM	2/3/2021 1:08:53 PM	2/5/2021 6:28:00 PM
FUS FISH Reference Number	21-034-401927	1/27/2021 12:01:00 AM	2/3/2021 1:08:53 PM	2/3/2021 6:08:00 PM
FUS FISH Source	21-034-401927	1/27/2021 12:01:00 AM	2/3/2021 1:08:53 PM	2/3/2021 6:08:00 PM

END OF CHART

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