MAYO CLINIC
Mayo Medical Laboratories

LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME	PATIENT NUMBER	AGE	SEX	ACCESSION #
TESTING, FEWS	L3MRNG9164230	67	F	G9164230

ORDERING PHYSICIAN	CLIENT ORDER #	ACCOUNT #
		LIAISONS

COLLECTION DATE TIME	RECEIVED DATE TIME	REPORT PRINTED DATE TIME	SPECIMEN INFORMATION
02/07/11 09:44 A	02/07/11 09:44 A	03/08/11 02:02 P	DATE OF BIRTH: 4/15/1943

Test Client
Attn: Mayo Liaisons
200 First Street SW
Rochester, MN 55905
507-284-8202

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *

EWSR1, 22q12, FISH — **REPORTED: 02/07/11 10:12 A**

Specimen	**Tissue-Paraffin**	**MCR**
Specimen ID	**1053373**	**MCR**
Source		**MCR**

```
Right ninth rib  SF10 4149 A1  HR10 48542
```

Order Date	**07 Feb 2011 09:47**	**MCR**
Method		**MCR**

```
FISH for rearrangement of the EWSR1 locus with probes for
the 5' and 3' regions of the EWSR1 gene at 22q12.
```

Reason For Referral	**Ewing sarcoma**	**MCR**
Results		**MCR**

```
nuc ish(EWSx2)(5'EWSR1 sep 3'EWSR1x1)[173/200] 86.5% of 200
nuclei had a separation of the 5'EWSR1 and 3'EWSR1 signals.
The normal cutoff is <7% for one 5'EWSR1, one 3'EWSR1 and
one 5'EWSR1/3'EWSR1 fusion signal.
```

Interpretation — **MCR**

```
The result is abnormal and indicates a rearrangement
involving the EWSR1 gene region.  Rearrangement of the EWSR1
gene at 22q12 has been observed in various sarcomas
including Ewing sarcoma (EWS)/primitive neuroectodermal
tumors (PNET), desmoplastic small round cell tumor, clear
cell sarcoma, myxoid chondrosarcoma, and myxoid liposarcoma.
Clinical and pathologic correlation is recommended.  Romeo
and Dei Tos, Virchows Arch 456:219-234, 2010.
DISCLAIMER:  This test was developed and its performance
characteristics determined by Laboratory Medicine and
Pathology, Mayo Clinic, Rochester MN.  It has not been
cleared or approved by the U.S. Food and Drug
Administration.  This test is intended to be used as an
adjunct to existing clinical and pathologic information
currently used for the differential diagnosis of Ewing
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** Perform Site Legend on last page of report*

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TESTING, FEWS	Final	02/07/11 09:44 A

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sarcoma. This test does not rule out other chromosome abnormalities.			
Consultant	**Heather Lynn Owen**		**MCR**
Report Date	**07 Feb 2011 10:09**		**MCR**

*** PERFORMING SITE**

MCR	Mayo Clinic Dpt of Lab Med & Pathology 200 First Street SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.

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TESTING, FEWS	Final	02/07/11 09:44 A