MAYO CLINIC
Mayo Medical Laboratories

LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME	PATIENT NUMBER	AGE	SEX	ACCESSION #
TESTING, FH2GE	L3MRNG9164263	73	M	G9164263

ORDERING PHYSICIAN	CLIENT ORDER #	ACCOUNT #
		LIAISONS

COLLECTION DATE TIME	RECEIVED DATE TIME	REPORT PRINTED DATE TIME	SPECIMEN INFORMATION
02/07/11 02:10 P	02/07/11 02:10 P	03/08/11 03:15 P	DATE OF BIRTH: 8/7/1937

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

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *

HER2 Amp, Gastroesophageal FISH — **REPORTED: 02/07/11 02:23 P**

Specimen	**Tissue-Paraffin**	**MCR**
Specimen ID	**1053383**	**MCR**
Source		**MCR**

```
Esophagus S11 626  GR11 647
```

Order Date	**07 Feb 2011 14:13**	**MCR**
Reason for Referral		**MCR**

```
r/o HER2 gene amplification
```

Fixative	**Formalin**	**MCR**
Method		**MCR**

```
FISH using probes for HER2 (17q12) and a chromosome 17
centromere (D17Z1) control probe (PathVysion, Abbott
Molecular, Inc).  Two technologists score signals in 60
total nuclei from invasive or metastatic tumor and
concurrent controls.
```

Result — **MCR**

```
nuc ish(D17Z1x2-4,ampHER2)
The HER2:D17Z1 ratio is 7.1.
Average HER2 signals per nucleus is 20.5.
Average D17Z1 signals per nucleus is 2.9.
```

Interpretation — **MCR**

```
The result is abnormal.  The invasive tumor nuclei
demonstrate HER2 gene amplification (per ASCO/CAP
guidelines) in this gastroesophageal biopsy.  The HER2:D17Z1
ratio is 7.1.
The average number of HER2 signals per nucleus is 20.5 and
the average number of chromosome 17 centromeres per nucleus
is 2.9.  Amplification of the HER2 gene is usually
associated with HER2 overexpression.
The HER2 FISH results for this tumor specimen are
interpreted using the ASCO/CAP guidelines for breast
```

** Perform Site Legend on last page of report*

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TESTING, FH2GE	Partial	02/07/11 02:10 P

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adenocarcinoma.
ASCO/CAP reporting guidelines (Wolff et al., Arch Path Lab Med 131:18 43, 2007):
A HER2:D17Z1 ratio less than 1.8 indicates absence of HER2 gene amplification.
A HER2:D17Z1 ratio from 1.8 2.2 is equivocal for HER2 gene amplification.
A HER2:D17Z1 ratio greater than 2.2 indicates HER2 gene amplification when there are greater than 6 HER2 signals per nucleus.
DISCLAIMER: This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic, Rochester MN. It is intended as an adjunct to existing prognostic clinical and pathologic information for gastroesophageal cancer patients. This test is not intended to diagnose or screen for gastroesophageal cancer. Since only a portion of the tumor was tested, it is possible that this result may not represent the entire tumor population. Per ASCO/CAP guidelines, HER2 FISH test results are valid for non decalcified paraffin embedded specimens fixed in 10% neutral buffered formalin between 6 and 48 hours. Results from specimens fixed outside these parameters should be interpreted accordingly.

Reviewed By	**Heather Lynn Owen**	**MCR**
Release Date	**07 Feb 2011 14:21**	**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, FH2GE	Partial	02/07/11 02:10 P