MAYO CLINIC
Mayo Medical Laboratories

# Laboratory Service Report 1-800-533-1710

| Patient Name | Patient ID | Age | Gender | Order # |
|---|---|---|---|---|
| TEST,IMPLEMENTATION TESTING | 321 | 57 | F | R1057492 |
| **Ordering Phys** TESTING | | | | **DOB** 05/23/1956 |
| **Client Order #** R1057492 | **Account Information** | | | **Report Notes** |
| **Collected** 06/06/2013 06:00 | C7028846-DLMP Rochester<br>3050 Superior Drive<br>Rochester, MN 55901 | | | |
| **Printed** 07/16/2013 16:36 | | | | |

| Test | Flag | Results | Unit | Reference Value | Perform Site* |
|---|---|---|---|---|---|
| **AP Special Studies Review** | | | | | |
| **RECEIVED:** 06/06/2013 11:44 **REPORTED:** 06/06/2013 16:18 | | | | | |
| Accession Number | | HR13-166 | | | MCR |
| Specimen: | | | | | MCR |
| A:AP Slide Review | | | | | |
| Material: | | | | | MCR |
| 1 Block | | | | | |
| SLIDE DISPOSITION: | | | | | |
| Final Diagnosis: | | | | | MCR |
| Molecular Anatomic Pathology Report: | | | | | |
| Reason for referral: Granulosa Cell Tumor | | | | | |
| Specimen source: Left ovary | | | | | |
| Result: | | | | | |
| Positive for FOXL2 exon 1 c.402C>G (p.Cys134Trp) mutation by PCR and pyrosequencing. All controls worked appropriately. | | | | | |
| Interpretation: | | | | | |
| The result is consistent with the diagnosis of adult-type granulosa cell tumor. Mayo Clinic validation studies showed the clinical sensitivity is 87% for classic adult-type granulosa cell tumors, but showed a lower detection rate in other granulosa cell tumor morphologies (diffuse-type, luteinized). Of note, rare fibrothecomas and juvenile-type granulosa cell tumors have been reported to have the c.402C>G mutation. | | | | | |
| False-negative results may occur in specimens when tumor cells comprise <40% of the cell population. Tumor cells are routinely enriched by macrodissection to avoid false-negative results. | | | | | |
| Clinical diagnosis and/or therapy should not be based solely on this assay. The results should be considered in conjunction with clinical information, histologic evaluation, and/or additional diagnostic tests. | | | | | |
| Method: | | | | | |
| Mutation analyses were performed using polymerase chain reaction (PCR) and pyrosequencing for the FOXL2 exon 1 c.402C>G (p.Cys134Trp) mutation on DNA extracted from paraffin-embedded tissue. | | | | | |
| Laboratory Developed Test | | | | | |
| Signing Pathologist: | | See Below | | | MCR |
| Result:6/6/2013 16:17 Interpreted by: Pathologist X. Test, M.D. | | | | | |
| Report electronically signed by Melissa L. Skjeveland | | | | | |
| Transcribed by: mls 6/6/2013 16:17:28 | | | | | |
| **FOXL2 Mutation (C402G) Analysis** | | Performed | | | MCR |
| **RECEIVED:** 06/06/2013 11:44 **REPORTED:** 06/06/2013 16:18 | | | | | |
| **Slide Review** | | Performed | | | MCR |

***Performing Site Legend on Last Page of Report***



* Report times for Mayo performed tests are CST/CDT

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* Performing Site:

| | | |
|---|---|---|
| MCR | Mayo Clinic Laboratories - Rochester Main Campus<br>200 First St SW Rochester, MN 55905 | Lab Director: Franklin R. Cockerill, III, M.D. |



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