

Test Definition: RETZZ

Multiple Endocrine Neoplasia Type 2 Syndrome, RET, Full Gene Analysis, Varies

Reporting Title: RET Full Gene Analysis

Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Ordering Guidance:

For a comprehensive hereditary cancer panel that includes the RET gene, consider 1 of the following:

- -ENDCP / Hereditary Endocrine Cancer Panel, Varies
- -HPGLP / Hereditary Paraganglioma/Pheochromocytoma Panel, Varies
- -THYRP / Hereditary Thyroid Cancer Panel, Varies

Testing for the *RET* gene as part of a customized panel is available. For more information see CGPH / Custom Gene Panel, Hereditary, Next-Generation Sequencing, Varies.

Targeted testing for familial variants (also called site-specific or known mutations testing) is available for this gene. For more information see FMTT / Familial Variant, Targeted Testing, Varies. To obtain more information about this testing option, call 800-533-1710.

If the reason for testing indicates the *MECP2* gene or Rett Syndrome, order MCP2Z / MECP2 Gene, Full Gene Analysis, Varies. If this test is ordered in this situation, it will be canceled and MCP2Z ordered and performed as the appropriate test.

Specimen Requirements:

Patient Preparation: A previous bone marrow transplant from an allogenic donor will interfere with testing. For instructions for testing patients who have received a bone marrow transplant, call 800-533-1710.

Specimen Type: Whole blood

Container/Tube:

Preferred: Lavender top (EDTA) or yellow top (ACD)

Acceptable: Green top (Sodium heparin)

Specimen Volume: 3 mL **Collection Instructions:**

1. Invert several times to mix blood.

2. Send whole blood specimen in original tube. Do not aliquot.

Specimen Stability Information: Ambient 4 days/Refrigerated 4 days/Frozen 4 days

Additional Information:

- 1. Specimens are preferred to be received within 4 days of collection. Extraction will be attempted for samples received after 4 days and DNA yield will be evaluated to determine if testing may proceed.
- 2. To ensure minimum volume and concentration of DNA is met, the preferred volume of blood must be submitted. Testing may be canceled if DNA requirements are inadequate.

Specimen Type: Saliva

Patient Preparation: Patient should not eat, drink, smoke, or chew gum 30 minutes prior to collection.

Supplies:

DNA Saliva Kit High Yield (T1007) Saliva Swab Collection Kit (T786)

Container/Tube:

Preferred: High-yield DNA saliva kit



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Acceptable: Saliva swab

Specimen Volume: 1 Tube if using T1007 or 2 swabs if using T786 **Collection Instructions**: Collect and send specimen per kit instructions.

Specimen Stability Information: Ambient (preferred) 30 days/Refrigerated 30 days

Additional Information: Saliva specimens are acceptable but not recommended. Due to lower quantity/quality of DNA yielded from saliva, some aspects of the test may not perform as well as DNA extracted from a whole blood sample. When applicable, specific gene regions that were unable to be interrogated will be noted in the report. Alternatively, additional specimen may be required to complete testing.

Forms:

- 1. **New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available:
- -Informed Consent for Genetic Testing (T576)
- -Informed Consent for Genetic Testing-Spanish (T826)
- 2. Molecular Genetics: Inherited Cancer Syndromes Patient Information (T519)
- 3. If not ordering electronically, complete, print, and send a Oncology Test Request (T729) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Varies		

Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
614839	Test Description	Alphanumeric		62364-5
614840	Specimen	Alphanumeric		31208-2
614841	Source	Alphanumeric		31208-2
614842	Result Summary	Alphanumeric		50397-9
614843	Result	Alphanumeric		82939-0
614844	Interpretation	Alphanumeric		69047-9
614845	Resources	Alphanumeric		99622-3
614846	Additional Information	Alphanumeric		48767-8
614847	Method	Alphanumeric		85069-3
614848	Genes Analyzed	Alphanumeric		48018-6
614849	Disclaimer	Alphanumeric		62364-5
614850	Released By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

Supplemental

CPT Code Information:



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An interpretive report will be provided.