

DATE:	6 February 2023
TO:	All Zones
FROM:	Genetics and Genomics, Alberta Precision Laboratories
RE:	Genetic Testing for Gastric Adenocarcinoma and Proximal Polyposis of the Stomach Syndrome (GAPPS) Available

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Message

- APL Genetics and Genomics now offers germline genetic testing for Gastric Adenocarcinoma and Proximal Polyposis of the Stomach Syndrome (GAPPS) at both Molecular Genetics Laboratories. GAPPS is caused by pathogenic variants in the *APC* promoter. Testing of the *APC* promoter is not routinely performed and must be requested. To be eligible for testing, patients must have features of GAPPS.

How this will impact you

- *APC* testing does not routinely include the promoter region. If GAPPS is suspected, *APC* promoter testing must be requested by name.
- *APC* promoter testing is only available for patients suspected to have GAPPS. GAPPS may be suspected in patients with:
 - > 100 gastric polyps in the proximal stomach restricted to the body and fundus with no evidence of colorectal or duodenal polyposis
- GAPPS testing may be requested in addition to another cancer panel such as the Gastrointestinal Cancers and Polyposis panel or as a standalone test.
- Only pathogenic or likely pathogenic variants in the *APC* promoter known to be associated with GAPPS will be reported.
- Testing is restricted to Clinical Genetics.

Action Required

- If clinically indicated, order GAPPS testing as follows:
 - **If the provider is on Connect Care:**
 - With another panel – order panel as normal AND an Inherited Cancer and Endocrine Gene Panels, specific variant (LAB3335) order and indicate “*APC* promoter testing for GAPPS”
 - As a standalone test – place an Inherited Cancer and Endocrine Gene Panels, specific variant (LAB3335) order and indicate “*APC* promoter testing for GAPPS”
 - **If the provider is not on Connect Care:** ordering using the Molecular Genetics Laboratory Cancer and Endocrine NGS Requisition
 - With another panel – order desired panel as normal AND complete section V – Specific Variant Testing and indicate “*APC* promoter testing for GAPPS” under gene
 - As a standalone test - complete section V – Specific Variant Testing and indicate “*APC* promoter testing for GAPPS” under gene
- For all orders, relevant clinical information must be provided on the requisition.



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Effective February 6, 2023

Questions/Concerns

- Molecular Genetics Laboratory Genetic Counsellors
 - North 780-407-1015
 - South 403-955-3097

Approved by

- Dr. Dennis Bulman, Medical/Scientific Director, Genetics & Genomics, APL
- Dr. Carolyn O'Hara, Chief Medical Laboratory Officer (Interim), APL