**COLON CANCER (PROBAND)**

**Orderable – E-order/Requisition**

**Turnaround Time:** 4-6 weeks  
**STAT:** 4 weeks

**Alternate Name(s):**

Hereditary Colorectal/Gastric Cancer

**Specimen:**

Whole Blood-3 x 4 mL Lavender EDTA top Vacutainer tube

**Collection Information:**

Blood samples must be maintained at room temperature.

**Reference Ranges:**

See report

**Interpretive Comments:**

The Hereditary Colorectal/Gastric Cancer Panel (HCP-Colorectal/Gastric) is a genetic test designed to help assess the cancer predisposition risk for colorectal, pancreatic, melanoma, prostate, and endometrial cancers. This panel includes the 23 genes listed above. Mutations in these genes are associated with clinically actionable results which will directly impact medical management recommendations and disease risk assessment.

**Comments:**

Genes Tested (hg19; HGVS nomenclature): APC and 5’UTR(NM_001127510.2), BMPR1A(NM_004329.2), CDH1(NM_004360.3), CDK4(NM_000075.3), CHEK2(NM_007194.3), CTNNA1(NM_001903.2), EPCAM(NM_002354.2:3’ large del only), FLCN(NM_144997.5), GREM1(NM_013372.6), MLH1 and 5’UTR(NM_000249.3), MSH2(NM_000251.2), MSH3(NM_002439.4), MSH6(NM_000179.2), MUTYH(NM_001128425.1), NTHL1(NM_002528.5), PMS2(NM_000535.5),
MLPA copy number analysis. All variants interpreted as either ACMG category 1, 2, or 3 (pathogenic, likely pathogenic, VUS; PMID: 25741868) are confirmed using Sanger sequencing, MLPA, or other assays. ACMG category 4 and 5 variants (likely benign, benign) are not reported, but are available upon request. This assay has been validated at a level of sensitivity equivalent to the Sanger sequencing and standard copy number analysis (>99%; PMID: 27376475, 28818680).

Critical Information Required:

Restricted to cancer genetics only. Pedigree required.

Storage and Shipment:

Must be received in testing laboratory within 48 hours of collection, shipped at room temperature by courier/overnight delivery.

Test Schedule:

As required, Monday to Friday 0800-1600 hours

POLD1(NM_001256849.1), POLE(NM_006231.2), PTEN and 5’UTR(NM_000314.4), SDHB(NM_003000.2), SMAD4(NM_005359.5), STK11(NM_000455.4), TP53(NM_000546.5)