



Genome Diagnostics – Hereditary Cancer

Toronto General Hospital

Eaton Wing 11-444, 200 Elizabeth Street

Toronto, Ontario M5G 2C4

Phone: (416) 340-4800 x5739/7624

Fax: (416) 340-4473

Hours of Operation (Mon-Fri) 8:30AM-4:30PM

CAP#: 7175217 CLIA#:99D1106115

IQMH# 4204-site 0141

Patient Information or Hospital Stamp Here

Last Name:

First Name:

Date of Birth (DD/MMM/YYYY):

Sex assigned at birth:

Health Card #:

Hospital #:

Instructions:

1. Complete all information as requested
2. Send requisition with specimen to address above
DO NOT COME TO TORONTO GENERAL FOR BLOOD DRAW

1. Keep specimen at room temperature unless frozen
2. If shipping, send same day or next day delivery
3. Specimen labelling: **Name, DOB, MRN#**

Referring Physician Signature: _____

Information for Reporting:

Full Name of Referring physician:

Hospital/Address:

Phone:

Fax:

Copy Report To: _____

Specimen Requirements

☐ **Peripheral blood** (5 mL in EDTA)

☐ **Extracted DNA from BLOOD only** [only be accepted from an appropriately accredited laboratory (i.e. ACDx or equivalent; not accepted for specific MLPA-based tests)]

Source _____ Conc. _____ Vol. _____

Date collected: _____

☐ **Non-tumour tissue (tissue block)***

☐ **Affected tissue (tissue block)***

Tissue source _____

***ensure pathology report is included with the sample, to indicate corresponding tissue block**

Test Indication Please provide any available clinical information and/or complete the Clinical Data Information Sheet.

☐ **Diagnosis** - symptoms/features of condition in THIS individual; please provide clinical details

☐ **Known Familial Variant Analysis** - Please provide variant details on Pg. 2 of this requisition

****If no family member has been tested at UHN a positive genetic test report of a family member is required.**

☐ **Other** – Please provide details/justification below

Clinical/Family History Information

TESTING MAY BE PUT ON HOLD IF INSUFFICIENT CLINICAL DETAILS PROVIDED

Ethnicity _____

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Hereditary Cancer Panel Testing

(See page 3 for panel gene content)

- ☐ Hereditary Cancer Core Panel
- ☐ Hereditary Breast/Ovarian/Prostate Cancer
- ☐ Hereditary Central Nervous System Tumours
- ☐ Hereditary Colorectal & Polyposis Panel
- ☐ Hereditary Gastric Cancer
- ☐ Hereditary GI Cancer (Lynch syndrome, Colorectal, Endometrial, Gastric, Pancreas, Polyposis)
- ☐ Hereditary Gastrointestinal Stromal Tumour
- ☐ Hereditary Melanoma
- ☐ Hereditary Pancreatic Cancer
- ☐ Hereditary Pheochromocytoma-Paranganglioma
- ☐ Hereditary Renal Cancer
- ☐ Hereditary Sarcoma
- ☐ Ashkenazi Jewish Panel
- ☐ Comprehensive Cancer Panel

☐ MLH1 Germline Methylation
MMR IHC results (if completed): _____

Familial Variant Analysis

Gene/Variant: _____

Proband Name/UHN MRN _____
 (If proband or other relatives with a positive result was not tested at UHN, please include copy of report)

Relationship of this individual to proband: _____

Comments/Special Instructions

Single Gene/Small Panel Testing

(See page 4 for panel gene content)

- ☐ AXIN2-related Attenuated Familial Adenomatous Polyposis
- ☐ BAP1 Tumour Predisposition/Mesothelioma
- ☐ Birt-Hogg-Dubé syndrome
- ☐ Carney Complex
- ☐ DICER-associated syndrome
- ☐ Dysplastic Nevus syndrome
- ☐ Familial Adenomatous Polyposis
 - ☐ APC only
 - ☐ APC + MUTYH
- ☐ Familial Isolated Pituitary Adenoma
- ☐ Hereditary Leiomyomatosis and Renal Cell Carcinoma
- ☐ Hereditary Lung Cancer
- ☐ Hereditary Multiple Osteochondromas
- ☐ Hereditary Parathyroid Neoplasia
- ☐ Li-Fraumeni syndrome
- ☐ MBD4 Tumour Predisposition syndrome
- ☐ Multiple Endocrine Neoplasia, Type 1
- ☐ Multiple Endocrine Neoplasia, Type 2
- ☐ Neurofibromatosis, Type 1
- ☐ Nevoid Basal Cell Carcinoma/Gorlin syndrome
- ☐ Nijmegen Breakage syndrome
- ☐ Peutz Jeghers syndrome
- ☐ PTEN Hamartoma Tumour syndrome
- ☐ Rare Polyposis Genes
- ☐ Retinoblastoma
- ☐ Rhabdoid Predisposition syndrome
- ☐ Schwannomatosis
- ☐ Sessile Serrated Polyposis Cancer syndrome
- ☐ Small Cell Carcinoma of the Ovary, Hypercalcemic type
- ☐ Tuberous Sclerosis
- ☐ Von Hippel-Lindau syndrome

Pharmacogenomic Testing:

- ☐ DPYD*2A, DPYD*9B, DPYD*13, HapB3 prior to fluoropyrimidine treatment

Hereditary Cancer Panel Testing - Sequencing + CNV⁺ analysis (*CNV only)

⁺copy number variant analysis may result in identification and reporting of copy number variants that involve additional OMIM morbid genes not listed below

Hereditary Cancer Core Panel (40 genes): *APC, ATM, AXIN2, BAP1, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, CTNNA1, EPCAM, GALNT12, GREM1, HOXB13, MBD4, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RAD51C, RAD51D, RNF43, RPS20, SDHB, SDHD, SMAD4, STK11, TP53*

Hereditary Breast/Ovarian/Prostate Cancer (19 genes): *ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM*, HOXB13, MLH1, MSH2, MSH6, PALB2, PMS2, PTEN, RAD51C, RAD51D, STK11, TP53*

Hereditary Central Nervous System Tumours (20 genes): *APC, EPCAM*, LZTR1, MLH1, MSH2, MSH6, NF1, NF2, PMS2, POLE, POT1, PTCH1, PTEN, SMARCB1, SMARCE1, SUFU, TP53, TSC1, TSC2, VHL*

Hereditary Colorectal Cancer and Polyposis: (23 genes) *APC, AXIN2, BMPR1A, EPCAM*, GALNT12, GREM1*, MBD4, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PMS2, POLD1, POLE, PTEN, RNF43, RPS20, SMAD4, STK11, TP53*

Hereditary Gastric Cancer (18 genes): *APC, ATM, BMPR1A, BRCA1, BRCA2, CDH1, CTNNA1, EPCAM*, MLH1, MSH2, MSH6, PALB2, PMS2, SDHB, SDHD, SMAD4, STK11, TP53*

Hereditary Gastrointestinal Cancer (Lynch syndrome, Colorectal, Endometrial, Gastric, Pancreas, Polyposis) (34 genes): *APC, ATM, AXIN2, BMPR1A, BRCA1, BRCA2, CDH1, CDK4, CDKN2A, CHEK2, CTNNA1, EPCAM*, GALNT12, GREM1*, MBD4, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RNF43, RPS20, SDHB, SDHD, SMAD4, STK11, TP53*

Hereditary Gastrointestinal Stromal Tumour (8 genes): *KIT, NF1, PDGFRA, SDHA, SDHAF2, SDHB, SDHC, SDHD*

Hereditary Melanoma (8 genes): *BAP1, BRCA2, CDK4, CDKN2A, MBD4, MITF, POT1, PTEN*

Hereditary Pancreatic Cancer (14 genes): *APC, ATM, BRCA1, BRCA2, CDK4, CDKN2A, EPCAM*, MLH1, MSH2, MSH6, PALB2, PMS2, STK11, TP53*

Hereditary Pheochromocytoma-Paranglioma syndrome (12 genes): *FH, MAX, MEN1, NF1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL*

Hereditary Renal Cancer (15 genes): *BAP1, FH, FLCN, MET, MITF, PTEN, SDHA, SDHAF2, SDHB, SDHC, SDHD, TP53, TSC1, TSC2, VHL*

Hereditary Sarcoma (14 genes): *APC, ATM, BRCA1, BRCA2, CHEK2, DICER1, EPCAM*, MLH1, MSH2, MSH6, NF1, PMS2, RB1, TP53*

Ashkenazi Jewish Panel (9 variants): *APC [p.Ile1307Lys], BRCA1 [c.185delAG/187delAG; c.5382insC/5385insC], BRCA2 [c.617delT], CHEK2 [c.1283C>T], GREM1 [40 kb dup], MSH2 [p.Ala636Pro], MSH6 [c.3984_3987dupGTCA; c.3959_3962delCAAG]*

Comprehensive Cancer Panel (73 genes): *AIP, APC, ATM, AXIN2, BAP1, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDC73, CDH1, CDK4, CDKN1B, CDKN2A, CHEK2, CTNNA1, DICER1, EGFR [exons 21 & 22], EPCAM*, FH, FLCN, GALNT12, GREM1*, HOXB13, KIT, LZTR1, MAX, MBD4, MEN1, MET, MITF, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NBN, NF1, NF2, NTHL1, PALB2, PDGFRA, PMS2, POLD1, POLE, POT1, PRKAR1A, PTCH1, PTEN, RAD51C, RAD51D, RB1, RET, RNF43, RPS20, SDHA, SDHAF2, SDHB, SDHC, SDHD, SMAD4, SMARCA4, SMARCB1, SMARCE1, STK11, SUFU, TMEM127, TP53, TSC1, TSC2, VHL*

Please ensure you are using an updated version of this requisition, available at

https://www.uhn.ca/Labs/services_clinicians#Requisitions

Single Gene/Small Panel Testing - Sequencing + CNV⁺ Analysis

⁺copy number variant analysis may result in identification and reporting of copy number variants that involve additional OMIM morbid genes not listed below

AXIN2-related Attenuated Familial Adenomatous Polyposis: *AXIN2*

BAP1 Tumour Predisposition/Mesothelioma: *BAP1*

Birt-Hogg-Dubé syndrome: *FLCN*

Carney Complex: *PRKAR1A*

DICER-associated syndrome: *DICER1*

Dysplastic Nevus syndrome: *CKD4, CDKN2A*

Familial Adenomatous Polyposis (FAP): *APC only, APC+MUTYH*

Familial Isolated Pituitary Adenoma: *AIP*

Hereditary Leiomyomatosis and Renal Cell Carcinoma (HLRCC): *FH*

Hereditary Lung Cancer: *ATM, BRCA2, EGFR, TP53*

Hereditary Multiple Osteochondromas: *EXT1, EXT2*

Hereditary Parathyroid Neoplasia: *CDC73, MEN1*

Li-Fraumeni syndrome: *TP53*

MBD4 Tumour Predisposition syndrome: *MBD4*

Multiple Endocrine Neoplasia, Type 1: *MEN1, CDKN1B*

Multiple Endocrine Neoplasia, Type 2: *RET*

Neurofibromatosis, Type I: *NF1*

Nevoid Basal Cell Carcinoma/Gorlin syndrome: *PTCH1, SUFU*

Nijmegen Breakage syndrome: *NBN*

Peutz Jeghers syndrome: *STK11*

PTEN Hamartoma Tumour syndrome: *PTEN*

Rare Polyposis Genes: *GALNT12, RPS20*

Retinoblastoma: *RB1*

Rhabdoid Predisposition syndrome: *SMARCA4, SMARCB1*

Schwannomatosis: *NF2, LZTR1, SMARCB1*

Sessile Serrated Polyposis Cancer syndrome: *RNF43*

Small Cell Carcinoma of the Ovary, Hypercalcemic type (SCCOHT): *SMARCA4*

Tuberous Sclerosis: *TSC1, TSC2*

Von Hippel-Lindau syndrome: *VHL*

**FOR ALL HEREDITARY CANCER TESTS PLEASE ENSURE
CLINICAL INFORMATION IS PROVIDED ON PAGE 1**

For eligibility criteria please see [OH Genetics Guidance](#)

Please ensure you are using an updated version of this requisition, available at
https://www.uhn.ca/Labs/services_clinicians#Requisitions