

HSNgenomics Test Order Form (Neoplastic) (current as of January 1, 2016)

Please refer to www.HSNgenomics.org for ordering instructions and test information

Name (last, first)	Sex	M	F	DOB	Case#	Sample Date
	Indication				Ordering Physician	
<i>Sticker may be placed here</i>	Sample Type			Block#	Sample already at HSNgenomics:	
Send report to (secure fax or postal)						
Stabilize sample for potential future DNA/RNA testing					IGH, somatic hypermutation, RNA, qualitative (L)	
Stabilize sample for potential future G-band/FISH testing					Immunoglobulin gene rearrangement, DNA, qualitative (L)	
ALK rearrangement, FISH (L= low complexity fee)					JAK2, V617F, DNA, qualitative (L)	
ALL panel, comprehensive, DNA & RNA, qualitative (M = medium complexity fee)					JAK2, focused variants, DNA, qualitative (L)	
AML panel, comprehensive, DNA & RNA, qualitative (M)					Karyotype, G-banding (M)	
AML panel, small variants, DNA, qualitative (L)					KIT, D816V, DNA, qualitative (L)	
BCL2 rearrangement, IGH/BCL2, FISH (L)					KIT variants, all exons, DNA, qualitative (L)	
BCL6 rearrangement, FISH (L)					KRAS, focused variants, DNA, qualitative (L)	
B-cell neoplasm (low-grade) panel, comprehensive, DNA & RNA, qualitative (M)					Lung carcinoma panel, comprehensive, DNA & RNA, qualitative (M)	
B-cell neoplasm (low-grade) panel, small variants, DNA, qualitative (L)					MDS panel, small variants, DNA, qualitative (L)	
B-cell neoplasm (high-grade) panel, comprehensive, DNA & RNA, qualitative (M)					Melanoma panel, Small variants, DNA, qualitative (L)	
BCR/ABL1, diagnostic, p210 & p190, RNA, qualitative (L)					MPN panel, comprehensive, DNA & RNA, qualitative (M)	
BCR/ABL1, monitoring, p210, RNA, quantitative (L)					MPN panel, small variants, DNA, qualitative (L)	
BCR/ABL1, monitoring, p190, RNA, quantitative (L)					MYC rearrangement, FISH (L)	
BIRC3/MALT1, FISH (L)					MYD88, focused variants, DNA, qualitative (L)	
BRAF, focused variants, DNA, qualitative (L)					Myeloma prognostic panel, comprehensive, DNA, qualitative (L)	
CCND1 rearrangement, IGH/CCND1, FISH (L)					NPM1, focused variants, DNA, qualitative (L)	
CEBPA variants, all exons, DNA, qualitative (L)					NRAS, focused variants, DNA, qualitative (L)	
CLL prognostic panel, DNA & RNA, qualitative (M)					PGFRA variants, all exons, DNA, qualitative (L)	
Colon carcinoma panel, small variants, DNA, qualitative (L)					PML/RARA, diagnostic, RNA, qualitative (L)	
EGFR, focused variants, DNA, qualitative (L)					PML/RARA, monitoring, RNA, quantitative (L)	
ERBB2 amplification, FISH (L)					Sarcoma panel, translocations, RNA, qualitative (M)	
EWSR1 rearrangement, FISH (L)					SS18 rearrangement, FISH (L)	
FLT3, focused variants, DNA, qualitative (L)					T-cell panel, comprehensive, DNA & RNA, qualitative (M)	
FOXL2, focused variants, DNA, qualitative (L)					T-cell receptor gene rearrangement, DNA, qualitative (L)	
GIST panel, small variants, DNA, qualitative (L)					Thyroid carcinoma panel, small variants, DNA, qualitative (L)	
Glioma panel, DNA, qualitative (L)					TP53 variants, all exons, DNA, qualitative (L)	
Test desired is not seen above (write in request)				Comments:		

HSNgenomics Description of Targets Evaluated in Panel Tests

(This is the information that is contained within the drop-down menus on the order form)

AML panel, small variants, DNA, qualitative:

ASXL1, BRINP3, CEBPA, DNMT3A, EZH2, FLT3, GATA1, GATA2, HNRNP, IDH1, IDH2, KIT, KRAS, KMT2A, NPM1, NRAS, PHF6, PTPN11, RAD21, RUNX1, SMC1A, SMC3, STAG2, TET2, TP53, U2AF1, WT1

B-cell neoplasm (low-grade) panel, small variants, DNA, qualitative:

ATM, BIRC3, BRAF, CXCR4, KMT2A, MAP2K1, MYD88, NOTCH1, NOTCH2, SAMHD1, SF3B1, TP53, TRAF2

CLL prognostic panel, DNA & RNA, qualitative:

IGHV somatic hypermutation analysis

Chr 17p *TP53* locus deletion, *TP53* small variants, *BIRC3* small variants, *SF3B1* small variants, *NOTCH1* small variants, Chr11q *ATM* locus deletion, *ATM* small variants, Trisomy 12, Chr 13q14.3 deletion

GIST panel, small variants, DNA, qualitative:

KIT (all exons), *PDGFRA* (all exons)

Lung carcinoma panel, comprehensive, DNA & RNA, qualitative:

ALK (immunostain), *ALK* FISH (if immunostain equivocal)

The following, if ALK is negative: *EGFR, BRAF*

MPN panel, comprehensive, DNA & RNA, qualitative:

BCR/ABL1 mRNA p190, *BCR/ABL1* mRNA p210, *BCR/ABL1* mRNA p230
CALR, JAK2, MPL

MPN panel, small variants, DNA, qualitative:

CALR, JAK2, MPL

Myeloma prognostic panel, comprehensive, DNA, qualitative:

IGH/CCND1, IGH/CCND3, IGH/FGFR3, IGH/MAF, IGH/MAFB, 17p TP53 locus deletion

HSNgenomics Ordering Instructions

Please send:

- 1) Completed order form (works best if downloaded and saved, is filled out electronically and then printed off)
- 2) Specimen(s) appropriate for the requested testing, clearly labeled with patient identifiers
(if the specimen is already stabilized and being held at HSN, please specify this by checking the box in the top section of the order form)
- 3) Copy of associated sample paperwork
(e.g. blood or bone marrow draw slips, copy of most current pathology report - does not need to be a finalized report)

Blood or liquid bone marrow aspirate (ship ambient*)

EDTA tube – required for all tests listed as DNA &/or RNA

- optimally 5ml blood and at least 1.5 ml bone marrow
- less will be accepted, but may not provide results

Sodium heparin – required for karyotype and FISH testing (additional EDTA tube is also requested if possible)

- optimally 5ml blood and at least 1.5 ml bone marrow
- less will be accepted, but may not provide results

Paraffin-embedded material (ship ambient*)

Ship appropriate block(s)

H&E slide corresponding to block(s) shipped are requested (if not sent, an H&E will be made at HSN and slow testing)

**** blocks and sent H&E sections will be sent back promptly upon completion of testing****

Unstained slides from block most appropriate for testing will be accepted if no block can be sent

- 10 sections cut at ~7um mounted on charged slides
- 1 section cut at 4um (and labeled as such) for H&E

Fresh solid tissue (ship ambient*)

Ship in saline or tissue culture medium such as RPMI

Fresh frozen solid tissue (ship on dry ice)

Flash freeze in RPMI using liquid nitrogen

Body fluids (ship ambient* in collection tube)

Additional notes:

* To avoid sways in sample temperature during shipping, it is recommended that samples shipped ambient are sent in a Styrofoam cooler with a wet ice pack.

The following sample types are not amenable to DNA and RNA-based testing and should not be sent:

- 1) acid decalcified, paraffin-embedded bone marrow biopsy samples (bone marrow aspirate clot samples in FFPE are suitable)
- 2) tissue subjected to B5 fixation

RNA and DNA can degrade rapidly in fresh samples. Testing should be performed as soon as possible after acquisition.

Sample for RNA-based tests ≤ 3 days old will be tested routinely.

Samples for RNA-based tests 4-7 days old will be tested, but the sensitivity of negative results will be evaluated carefully.

Samples for DNA or RNA tests >7 days old will be tested at the discretion of the signing pathologist.

**Send samples to: Genomics Laboratory
Department of Pathology
Ramsey Lake Health Centre
41 Ramsey Lake Road
Sudbury, Ontario, Canada
P3E 5J1**

**Lab Contact: Phone: 705-523-7100 ext 1577
Fax: 705-675-4728
E-mail: contactus@HSNgenomics.org**