

ABOUT THE ASSAY

Northstar Select® is an ultra-sensitive comprehensive genomic profiling (CGP) assay for therapy selection, intended for use in latestage, solid tumor cancers. Maximize opportunities for treatment by evaluating 84 guideline-recommended genes for SNV / indels (82), copy number alterations (CNA); amplifications (19) and losses (5), fusions (9) and MSI-H status, all with a non-invasive, circulating tumor DNA (ctDNA) blood test.

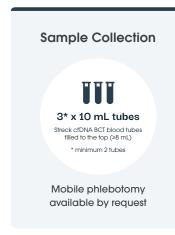
PERFORMANCE CHARACTERISTICS^o

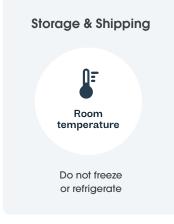
Variant Type	LOD at 95% Confidence ^b	Specificity	Reportable Range
SNVs	0.45%/\/AF	>99.9999%	≥0.01%
Indels	0.15% VAF	>99.9999%	≥0.01/₀
CNA°	2.11 copies (amplification) 1.80 copies (loss)	>99.9%	≥2.10 copies (amplification) ≤1.90 copies (loss)
Fusion	0.30% tumor fraction	>99.9%	≥0.02%
MSI-H ^d	0.07% tumor fraction	>99.9%	n/a

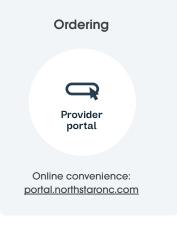
a. Internal data on file. Aug 2025

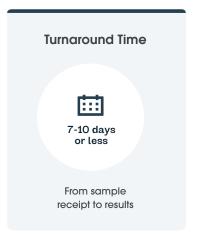
- c. 2.5% tumor fraction at 6 copies of amplification.
- d. Microsatellite instability-high, impacted by biological variability.

SPECIMEN REQUIREMENTS & PROCESSING









Northstar Select is covered by Medicare.

Qualified beneficiaries have \$0 out-of-pocket costs.*



BillionToOne is committed to making their tests accessible to all and have created the Northstar Financial Assistance Program to support and advocate for each patient depending on their individual needs.

* Northstar Select has obtained Medicare for eligible beneficiaries with advanced solid tumors who meet the coverage criteria outlined in the local coverage determination

b. LOD95: the lowest concentration of an analyte in a sample that can be consistently detected with \geq 95% probability

GENES by Alteration Type

SNVs / Indels 82 genes					
AKT1	CCNE1	EZH2	JAK2	NOTCH1	RB1
AKT2	CD274 (PD-L1)	FANCA	JAK3	NPM1	RET
ALK	CDH1	FBXW7	KIT	NRAS	RHOA
APC	CDK12	FGFR1	KRAS	NTRK1	RIT1
AR	CDK4	FGFR2	MAP2K1 (MEK1)	PALB2	ROS1
ARAF	CDK6	FGFR3	MAP2K2 (MEK2)	PDGFRA	SF3B1
ARID1A	CDKN2A	FGFR4	MET	PIK3CA	SMAD4
ATM	CDKN2B	GATA3	MLH1	PMS2	SMO
BRAF	CHEK2	GNA11	MPL	PTEN	STK11
BRCA1	CTNNB1	GNAQ	MSH2	PTPN11	TERT
BRCA2	DDR2	GNAS	MSH6	RAD51C	TP53
BRIP1	EGFR	HRAS	MTOR	RAD51D	TSC1
CCND1	ERBB2 (HER2)	IDH1	MYC	RAF1	VHL
CCND2	ESR1	IDH2	NF1		

CNAs: Amplifications			19 genes
	AR	ERBB2	MYC
	BRAF	ESR1	<i>PDGFRA</i>
	CCNE1	FGFR1	PIK3CA
	CD274 (PD-L1)	FGFR2	RAF1
	001//	LITT	DET

BRAF	ESR1	PDGFR/
CCNE1	FGFR1	PIK3CA
CD274 (PD-L1)	FGFR2	RAF1
CDK4	KIT	RET
CDK6	KRAS	
EGFR	MET	

Fusions 9 genes ALK BRAF FGFR2 FGFR3 NTRK1 NTRK2 NTRK3 RET ROS1

CNAs: Losses 5 genes

CDKN2A ATMBRCA1 PTEN BRCA2

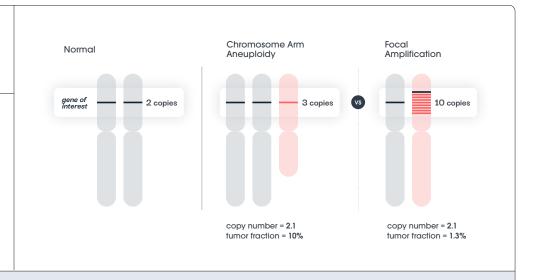
Biomarker MSI-H

GENES by Most Common Solid Tumor Types as Recommended by Guidelines

Breast	Colorectal	Lung	All Solid Tumors
AKT1 ESR1 PALB2 BRCA1 FGFR1 PIK3CA BRCA2 FGFR2 PTEN ERBB2 FGFR3	BRAF NRAS ERBB2 MSI-H KRAS	ALK FGFR1 KRAS BRAF FGFR2 MET EGFR FGFR3 RET ERBB2 FGFR4 ROS1	BRAF NTRK1 RET ERBB2 NTRK2 MSI-H NTRK3

About Copy Number Alterations (CNAs)

Northstar Select is the only CGP that differentiates between "driver" focal amplifications from broad aneuploidies that exhibit "passenger" copy number differences.



With ~90% of solid tumors found to harbor chromosome instability that can lead to aneuploidy, differentiation from focal amplification is critical as aneuploidies currently lack specific targeted therapies and are often associated with resistance.

