

Tempus xG Hereditary Cancer Panels

A complete picture of your patient's disease includes their hereditary risk.

Tempus now offers both somatic and germline testing through one platform

Tempus xG, powered by GeneDx, is validated germline testing offered in addition to Tempus somatic testing, providing a more comprehensive view of your patient's molecular profile.

These results can be used to specifically identify germline variants associated with hereditary cancer syndromes. Through one platform, you can order somatic, germline, and algorithmic testing with reports delivered through the Tempus HUB.

GERMLINE OFFERINGS

- ✓ xG+ (extended hereditary cancers): 88 gene panel covering genes associated with both common and rare hereditary cancers (more comprehensive).
- ✓ xG (common hereditary cancers): 52 gene panel covering genes associated with six of the most common hereditary cancer types (breast, ovarian, colorectal, endometrial, prostate, pancreatic).
- ✓ Reports pathogenic, likely pathogenic, and variants of uncertain significance. Amended reports are provided for variant reclassifications when available.
- ✓ Available to order as confirmatory testing of incidental germline findings reported on xT, potentially allowing for identification of more patients with hereditary cancer risk.
- ✓ Familial variant/cascade testing is available for at-risk family members at no additional cost if ordered within 90 days of original xG+ or xG report (out to third degree relatives).

TECHNICAL SPECIFICATIONS

- Specimen: peripheral blood (EDTA tube) or buccal (cheek) swab
- Single nucleotide variants, insertion/deletions, copy number variants, and gene rearrangements
- Alternative sequencing or copy number detection methods, such as Sanger sequencing, MLPA, and arrayCGH, are used to analyze or confirm regions with inadequate sequence or copy number data by NGS
- Average coverage: ~500x depth, >99% sensitivity

Jane Smith
Accession No: 9913089

Order Information		Test Requested	
Physician: Beaudier, Nike	Specimen: BLOOD IN EDTA	xG+ (extended hereditary cancers)	
Patient Date of Birth: 08/26/1992	Patient Sex: Female	Collected on: 01/29/2022	Started on: 01/31/2022 Reported on: 02/14/2022

Genes Evaluated
 AIP, ALK, ANKRD20, APC, ATM, AXIN2, BAP1, BARD1, BLM, BMP1R1A, BRCA1, BRCA2, BRIP1, CDC73, CDH1, CDK4, CDKN1B, CDKN2A, CEBPA, CHEK2, CTNNA1, DDIT3, DICER1, EPCAM, ETV6, FANCD1, FANCD2, FANCA, FH, FLOX, GATA2, GATA3, GATA5, GATA6, GATA7, GATA8, GATA9, GATA10, GATA11, GATA12, HDAC9, HNF1B, HNF1A, HNF1B, HNF1C, HNF1D, HNF1E, HNF1F, HNF1G, HNF1H, HNF1I, HNF1J, HNF1K, HNF1L, HNF1M, HNF1N, HNF1O, HNF1P, HNF1Q, HNF1R, HNF1S, HNF1T, HNF1U, HNF1V, HNF1W, HNF1X, HNF1Y, HNF1Z, HNF2, HNF3, HNF4, HNF5, HNF6, HNF7, HNF8, HNF9, HNF10, HNF11, HNF12, HNF13, HNF14, HNF15, HNF16, HNF17, HNF18, HNF19, HNF20, HNF21, HNF22, HNF23, HNF24, HNF25, HNF26, HNF27, HNF28, HNF29, HNF30, HNF31, HNF32, HNF33, HNF34, HNF35, HNF36, HNF37, HNF38, HNF39, HNF40, HNF41, HNF42, HNF43, HNF44, HNF45, HNF46, HNF47, HNF48, HNF49, HNF50, HNF51, HNF52, HNF53, HNF54, HNF55, HNF56, HNF57, HNF58, HNF59, HNF60, HNF61, HNF62, HNF63, HNF64, HNF65, HNF66, HNF67, HNF68, HNF69, HNF70, HNF71, HNF72, HNF73, HNF74, HNF75, HNF76, HNF77, 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Gene Lists

xG+ (EXTENDED HEREDITARY CANCERS) - 88 GENES:

AIP	BRCA2*	DICER1*	KIT*	NBN*	PRKAR1A*	SAMD9	SRP72
ALK	BRIP1*	EPCAM*	LZTR1	NF1*	PTCH1*	SAMD9L	STK11*
ANKRD26	CDC73	ETV6*	MAX*	NF2*	PTEN*	SDHA*	SUFU*
APC*	CDH1*	FANCC	MEN1*	NTHL1*	RAD51C*	SDHAF2*	TERC
ATM*	CDK4*	FANCM	MET*	PALB2*	RAD51D*	SDHB*	TERT
AXIN2*	CDKN1B	FH*	MITF	PDGFRA*	RB1*	SDHC*	TMEM127*
BAP1*	CDKN2A*	FLCN*	MLH1*	PHOX2B*	RECQL	SDHD*	TP53*
BARD1*	CEBPA*	GATA2*	MSH2*	PMS2*	RET*	SMAD4*	TSC1*
BLM*	CHEK2*	GALNT12	MSH3*	POLD1*	RNF43	SMARCA4*	TSC2*
BMPR1A*	CTNNA1	GREM1 (SCG5)	MSH6*	POLE*	RPS20	SMARCB1*	VHL*
BRCA1*	DDX41	HOXB13	MUTYH*	POT1	RUNX1*	SMARCE1	WT1*

xG (COMMON HEREDITARY CANCERS) - 52 GENES:

APC*	CDK4*	MET*	PMS2*	SDHC*
ATM*	CDKN2A*	MITF	POLD1*	SDHD*
AXIN2*	CHEK2*	MLH1*	POLE*	SMAD4*
BAP1*	EPCAM*	MSH2*	POT1	STK11*
BARD1*	FANCC	MSH3*	PTEN*	TP53*
BLM*	FANCM	MSH6*	RAD51C*	TSC1*
BMPR1A*	FH*	MUTYH*	RAD51D*	TSC2*
BRCA1*	FLCN*	NBN*	RECQL	VHL*
BRCA2*	GALNT12	NF1*	RNF43	
BRIP1*	GREM1 (SCG5)	NTHL1*	RPS20	
CDH1*	HOXB13	PALB2*	SDHB*	

**Included on xT Germline Incidental Findings List (see xT disclaimers for reporting limitations)*