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 recategorizations 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

xG Powered by GeneDx
Financial Assistance Program

We help provide access to our tests for patients in financial need. All Tempus tests, including xG, are covered under the program. Patients can complete the application online at access.tempus.com or call 800.739.4137 to speak to a member of our team.

Please reach out to your local Tempus representative for more details on this offering.

Gene Lists

**xG+ (EXTENDED HEREDITARY CANCERS) - 88 GENES:**

- AIP
- ALK
- ANKRD26
- APC*
- ATM*
- AXIN2*
- BAP1*
- BARD1*
- BLM*
- BMPRIA*
- BRCA1*
- BRCA2*
- BRIIP1*
- CDH1*
- CDK4*
- CDK11B
- CDKN2A*
- CHEK2*
- CTNNA1
- DDX41
- DICER1*
- EPCAM*
- ETV6*
- FANCC
- FANCM
- FH*
- FLCN*
- GATA2*
- GALNT12
- GREM1 (SCG5)
- HOXB13
- HOXB13
- KIT*
- LZTR1
- MAX*
- MET*
- MITF
- MLH1*
- MSH2*
- MSH3*
- NBN*
- NF1*
- NF2*
- NTHL1*
- PALB2*
- PRKAR1A*
- PTCH1*
- PTEN*
- RAD51C*
- RAD51D*
- RB1*
- PMS2*
- PHOX2B*
- POLD1*
- POLE*
- POLD2*
- POT1
- POT1
- RNF43
- RPS20
- RUNX1*
- SMAD9
- SAMD9L
- STK11*
- SDHA*
- SDHD*
- SDHC*
- SDHD*
- SDHB*
- TERT
- TF53*
- SMAD4*
- TSC1*
- SMARCA4*
- TSC2*
- SMARCB1*
- VHL*
- SMARCE1
- WT1*

**xG (COMMON HEREDITARY CANCERS) - 52 GENES:**

- APC*
- ATM*
- AXIN2*
- BAPI*
- BARD1*
- BLM*
- BMPRIA*
- BRCA1*
- BRCA2*
- BRIP1*
- CDH1*
- CDK4*
- CDKN2A*
- CDKN1B
- CEBPA*
- CENN1A
- DDX41
- DICER1*
- EPCAM*
- ETV6*
- FANCC
- FANCM
- FH*
- FLCN*
- FANCL
- GERM1 (SCG5)
- HOXB13
- KIT*
- LZTR1
- MAX*
- MET*
- MITF
- MLH1*
- MSH2*
- MSH3*
- NBN*
- NF1*
- NF2*
- NTHL1*
- PALB2*
- PRKAR1A*
- PTCH1*
- PTEN*
- RAD51C*
- RAD51D*
- RB1*
- PMS2*
- PHOX2B*
- POLD1*
- POLE*
- POLD2*
- POT1
- POT1
- RNF43
- RPS20
- RUNX1*
- SMAD9
- SAMD9L
- STK11*
- SDHA*
- SDHD*
- SDHC*
- SDHD*
- SDHB*
- TERT
- TF53*
- SMAD4*
- TSC1*
- SMARCA4*
- TSC2*
- SMARCB1*
- VHL*
- SMARCE1
- WT1*

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