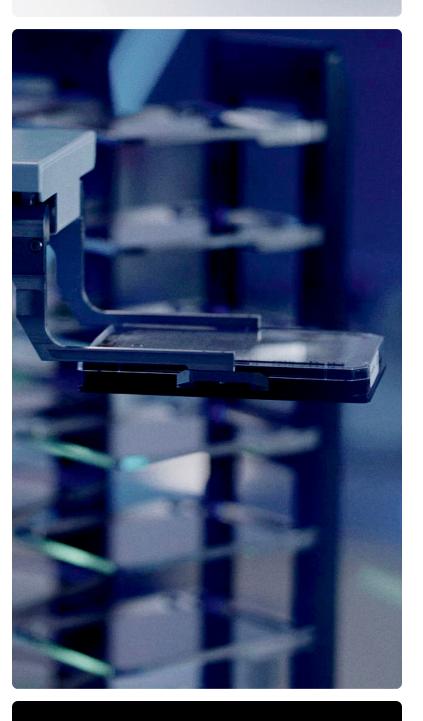
TEMPUS | ONCOLOGY

Germline Assay Guide



This is data-driven precision medicine. This is the future of healthcare.

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Validated Hereditary Cancer Testing

(powered by Ambry Genetics®)

xG+ (CancerNext-Expanded®)

 77-gene hereditary cancer DNA test, powered by Ambry Genetics[®].

xG (CancerNext®)

 36-gene hereditary cancer DNA test, powered by Ambry Genetics[®].



xT Solid Tumor/Normal Match

648 gene somatic panel utilizing a normal match to enhance the accuracy of somatic variant calls by filtering out germline variants.

Based on the xT normal match, potential germline findings from a select list of 65 hereditary cancer genes may be reported on xT, if present. These findings may or may not be related to the patient's current cancer diagnosis.

What Are The Differences Between xG/xG+ Hereditary Cancer Testing and xT Tumor/Normal Match?

- xG and xG+ are stand-alone validated germline tests that identify various types of germline alterations, including single and multi-exon deletions/duplications and gene rearrangements.
- xG and xG+ are specifically designed to provide hereditary cancer risk assessment and as such, sensitivity and specificity have been rigorously assessed.
- Potential germline reporting through xT tumor/normal matched testing assists in the identification of patients who may benefit from confirmatory follow-up testing with xG or xG+.

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Not available

xG & xG+ Validated Hereditary Cancer Testing (powered by Ambry Genetics®)

xT Tumor/Normal Match (Potential Germline)

| | (powered by Ambry Genetics®) | Germline) |
|-------------------------------------|--|---|
| Genes Assessed | xG (CancerNext®): 36-gene hereditary cancer DNA test associated with common hereditary cancer types | 65 hereditary cancer genes |
| | xG+ (CancerNext- <i>Expanded®</i>): 77-gene hereditary cancer DNA test associated with both common and rare hereditary cancer types | |
| Types of Variants Detected | SNVs, indels, large deletions/duplications, rearrangements/inversions | SNVs, indels |
| Possible Results Included on Report | Pathogenic variants, likely pathogenic variants, variants of uncertain significance (VUS) | Pathogenic variants, likely pathogenic variants |
| Validation | Rigorous validation process for hereditary cancer risk assessment | Validated for somatic testing; no specific hereditary validation |
| Secondary Confirmation | Performed for regions of inadequate NGS sequencing coverage (Sanger seq, MLPA, targeted chromosomal microarray) | Not performed |
| Sample Types Accepted | Blood, Saliva, Cultured Fibroblasts* | Blood, Saliva |
| Familial Variant/Cascade Testing | Available for pathogenic/likely pathogenic variants | Not available |
| Variant Reclassification | Ambry Genetics® reclassifies; amendments issued through Tempus | Not available |
| Therapeutic Implications | Not included on report | FDA/NCCN/OncoKB supported therapies included on report |

^{*}Requires Skin Punch Biopsy specimen kit and dedicated requisition.

 $The \ reportable \ findings \ for \ the \ genes \ included \ on \ the \ above \ panels \ are \ based \ upon \ recommendations \ from \ the \ ACMG, \ the \ NCCN, \ and \ other \ published \ literature.$ The clinical significance of reported variants are based on germline classification criteria created by the American College of Medical Genetics (ACMG) and Association for Molecular Pathology (AMP).

Available with ordering provider referral

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Patient Genetic Counseling Services

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 $[\]times G$ (CancerNext®) $/ \times G$ + (CancerNext-Expanded®) powered by Ambry Genetics® is available to select providers.