

Timely, accurate and actionable
molecular diagnostics results

Cyx Solid Tumor 505

Cyx Solid Tumor 505 enables rapid and actionable genomic insights for all patients with advanced cancer. FDA-cleared and CE-IVD-marked comprehensive tumor profiling affords every patient access to personalized treatment options.



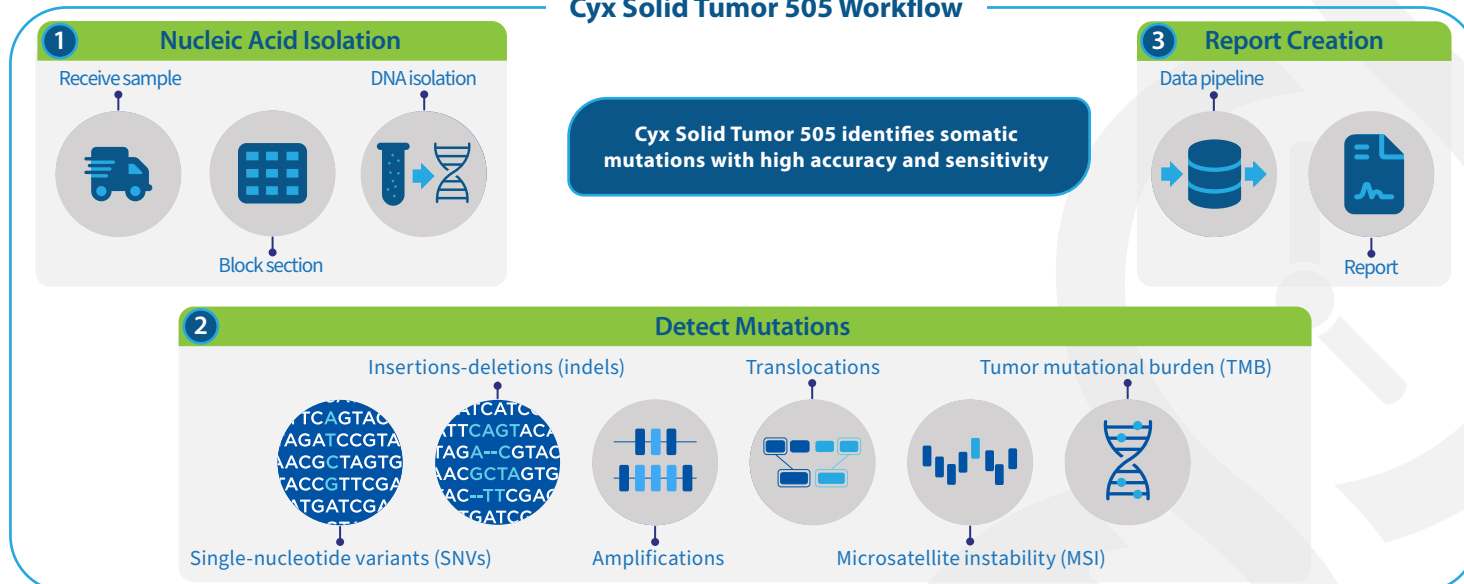
Product features

- ✓ **Trustworthy:** FDA-cleared detection chemistry and CE-IVD-marked with overall clinical pass rate of 92.9%
- ✓ **Fast:** Results generated in less than a week via streamlined automation workflow and automated bioinformatics
- ✓ **Actionable:** 505 solid tumor-related genes, including all FDA-approved and professional guideline-supported biomarkers, with easy-to-interpret results
- ✓ **Automated:** On-site automation improves efficiency, consistency, and reduces human errors

Detection chemistry development & validation

- ✓ **Pan solid tumor:** 35 solid tumor types across 9 organ systems
- ✓ **Robust:** >7,300 analytical samples tested
- ✓ **Rigorous:** 15,000 hours of sequencing time
- ✓ **Accurate:** 13 orthogonal methods used for comparison, including PCR, IHC, FISH, RNA and DNA-based NGS approaches

Cyx Solid Tumor 505 Workflow



Pathology reports in as little as a week

Sample requirements	FFPE Tissue, Slides, or Blocks
Tumor purity minimum	20%
Regions analyzed	Coding regions of 505 genes; non-coding regions for translocations
Mutation Identification	MSI, TMB, Translocations, Indels, SNVs, & Amplifications
Read length	2.23 Mb total
Average total coverage	2,300x

CYX Solid Tumor 505

Date: 08/05/2024
Order ID: ETCR-ELU-201
Barcode: 3_R1-240205050005

Patient	Specimen	Physician Information
Name: Jane Smith DOB: 01/01/1965 Female MRN: ETCR-ELU-201-000005 Diagnosis: Colorectal Carcinoma	Type: Cell Collection: Received Specimen ID:	Institution: ABC USA Referring Physician: John Smith, MD Referring Institution: John Doe, MD

RESULT SUMMARY

Significant Genomic Variants Detected				
Positive Genomic Finding	Tier (AMP/ASCO/CAP)	Actionability		
APC E1454fs	2C	None Identified		
KRAS G12C	1A	Approved Therapies Therapy Resistance is Clinical Trials		
NOTCH3 C93*	3	None Identified		
TP53 P278T	2C	5 Clinical Trials		
Tumor Mutation Burden: 9.2 mut/Mb (Low)		MSI Status: MSS (Microsatellite Stable)		
Potential Negative Results				
BRCA1/2 (HBB) (HBB) (HBB) RET fusion	HER2 (ERBB2) (HBB) PCD1 (HBB)	KRAS (HBB) (HBB) (HBB) PCD1 (HBB)		
Potential Secondary Findings Based on ACMG Secondary Findings (Genetic Counseling Recommended)				
APC E1454fs (Familial adenomatous polyposis) TP53 P278T (Li-Fraumeni syndrome)				
Testing Summary				
All test components were successfully performed.				

Signed by *John Doe*

ACTIONABILITY SUMMARY



FDA / NCCN Therapies for the Patient's Tumor Type (Tier 1A)			
Biomarker	Therapy	Setting	Source(s)
KRAS G12C	adagrasib + cetuximab	Subsequent line	FDA (Approved); NCCN
KRAS G12C	adagrasib +/- panitumumab; adagrasib +/- cetuximab or panitumumab	Subsequent line	NCCN

Chrometix Laboratories, 3171 Players Club Pkwy, Memphis, TN 38155
CLIA# 4402953929 | Molecular Assay: MD, Laboratory Director
ETCR-ELU-201-000005-2_R1-240205050005 | Signed by John Doe, MD | 10/24/24-26

tumor 505

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Gene(s)	Source(s)
APC, KRAS, TP53, NOTCH3, PTEN, PIK3CA, BRAF, EGFR, ALK, ROS1, RET, NTRK1, NTRK2, NTRK3, IDH1, IDH2, ATRX, TET2, DNMT3A, DNMT3B, DNMT3C, DNMT3L, DNMT3O, DNMT3A2, DNMT3A1, DNMT3B1, DNMT3B2, DNMT3C1, DNMT3C2, DNMT3L1, DNMT3L2, DNMT3O1, DNMT3O2, DNMT3A3, DNMT3A4, DNMT3B3, DNMT3B4, DNMT3C3, DNMT3C4, DNMT3L3, DNMT3L4, DNMT3O3, DNMT3O4, DNMT3A5, DNMT3A6, DNMT3B5, DNMT3B6, DNMT3C5, DNMT3C6, DNMT3L5, DNMT3L6, DNMT3O5, DNMT3O6, DNMT3A7, DNMT3A8, DNMT3B7, DNMT3B8, DNMT3C7, DNMT3C8, DNMT3L7, DNMT3L8, DNMT3O7, DNMT3O8, DNMT3A9, DNMT3A10, DNMT3B9, DNMT3B10, DNMT3C9, DNMT3C10, DNMT3L9, DNMT3L10, DNMT3O9, DNMT3O10, DNMT3A11, DNMT3A12, DNMT3B11, DNMT3B12, DNMT3C11, DNMT3C12, DNMT3L11, DNMT3L12, DNMT3O11, DNMT3O12, DNMT3A13, DNMT3A14, DNMT3B13, DNMT3B14, DNMT3C13, DNMT3C14, DNMT3L13, DNMT3L14, DNMT3O13, DNMT3O14, DNMT3A15, DNMT3A16, DNMT3B15, DNMT3B16, DNMT3C15, DNMT3C16, DNMT3L15, DNMT3L16, DNMT3O15, DNMT3O16, DNMT3A17, DNMT3A18, DNMT3B17, DNMT3B18, DNMT3C17, DNMT3C18, DNMT3L17, DNMT3L18, DNMT3O17, DNMT3O18, DNMT3A19, DNMT3A20, DNMT3B19, DNMT3B20, DNMT3C19, DNMT3C20, DNMT3L19, DNMT3L20, DNMT3O19, DNMT3O20, DNMT3A21, DNMT3A22, DNMT3B21, DNMT3B22, DNMT3C21, DNMT3C22, DNMT3L21, DNMT3L22, DNMT3O21, DNMT3O22, DNMT3A23, DNMT3A24, DNMT3B23, DNMT3B24, DNMT3C23, DNMT3C24, DNMT3L23, DNMT3L24, DNMT3O23, DNMT3O24, DNMT3A25, DNMT3A26, DNMT3B25, DNMT3B26, DNMT3C25, DNMT3C26, DNMT3L25, DNMT3L26, DNMT3O25, DNMT3O26, DNMT3A27, DNMT3A28, DNMT3B27, DNMT3B28, DNMT3C27, DNMT3C28, DNMT3L27, DNMT3L28, DNMT3O27, DNMT3O28, DNMT3A29, DNMT3A30, DNMT3B29, DNMT3B30, DNMT3C29, DNMT3C30, DNMT3L29, DNMT3L30, DNMT3O29, DNMT3O30, DNMT3A31, DNMT3A32, DNMT3B31, DNMT3B32, DNMT3C31, DNMT3C32, DNMT3L31, DNMT3L32, DNMT3O31, DNMT3O32, DNMT3A33, DNMT3A34, DNMT3B33, DNMT3B34, DNMT3C33, DNMT3C34, DNMT3L33, DNMT3L34, DNMT3O33, DNMT3O34, DNMT3A35, DNMT3A36, DNMT3B35, DNMT3B36, DNMT3C35, DNMT3C36, DNMT3L35, DNMT3L36, DNMT3O35, DNMT3O36, DNMT3A37, DNMT3A38, DNMT3B37, DNMT3B38, DNMT3C37, DNMT3C38, DNMT3L37, DNMT3L38, DNMT3O37, DNMT3O38, DNMT3A39, DNMT3A40, DNMT3B39, DNMT3B40, DNMT3C39, DNMT3C40, DNMT3L39, DNMT3L40, DNMT3O39, DNMT3O40, DNMT3A41, DNMT3A42, DNMT3B41, DNMT3B42, DNMT3C41, DNMT3C42, DNMT3L41, DNMT3L42, DNMT3O41, DNMT3O42, DNMT3A43, DNMT3A44, DNMT3B43, DNMT3B44, DNMT3C43, DNMT3C44, DNMT3L43, DNMT3L44, DNMT3O43, DNMT3O44, DNMT3A45, DNMT3A46, DNMT3B45, DNMT3B46, DNMT3C45, DNMT3C46, DNMT3L45, DNMT3L46, DNMT3O45, DNMT3O46, DNMT3A47, DNMT3A48, DNMT3B47, DNMT3B48, DNMT3C47, DNMT3C48, DNMT3L47, DNMT3L48, DNMT3O47, DNMT3O48, DNMT3A49, DNMT3A50, DNMT3B49, DNMT3B50, DNMT3C49, DNMT3C50, DNMT3L49, DNMT3L50, DNMT3O49, DNMT3O50, DNMT3A51, DNMT3A52, DNMT3B51, DNMT3B52, DNMT3C51, DNMT3C52, DNMT3L51, DNMT3L52, DNMT3O51, DNMT3O52, DNMT3A53, DNMT3A54, DNMT3B53, DNMT3B54, DNMT3C53, DNMT3C54, DNMT3L53, DNMT3L54, DNMT3O53, DNMT3O54, DNMT3A55, DNMT3A56, DNMT3B55, DNMT3B56, DNMT3C55, DNMT3C56, DNMT3L55, DNMT3L56, DNMT3O55, DNMT3O56, DNMT3A57, DNMT3A58, DNMT3B57, DNMT3B58, DNMT3C57, DNMT3C58, DNMT3L57, DNMT3L58, DNMT3O57, DNMT3O58, DNMT3A59, DNMT3A60, DNMT3B59, DNMT3B60, DNMT3C59, DNMT3C60, DNMT3L59, DNMT3L60, DNMT3O59, DNMT3O60, DNMT3A61, DNMT3A62, DNMT3B61, DNMT3B62, DNMT3C61, DNMT3C62, DNMT3L61, DNMT3L62, DNMT3O61, DNMT3O62, DNMT3A63, DNMT3A64, DNMT3B63, DNMT3B64, DNMT3C63, DNMT3C64, DNMT3L63, DNMT3L64, DNMT3O63, DNMT3O64, DNMT3A65, DNMT3A66, DNMT3B65, DNMT3B66, DNMT3C65, DNMT3C66, DNMT3L65, DNMT3L66, DNMT3O65, DNMT3O66, DNMT3A67, DNMT3A68, DNMT3B67, DNMT3B68, DNMT3C67, DNMT3C68, DNMT3L67, DN	

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