

TRANSGENOMIC PHARMACOGENOMIC SERVICES

A Contract Research Organization Specializing in Pharmacogenomics, Biomarker and Mutation Discovery Research

HIGH SENSITIVITY GENE MUTATION DETECTION ASSAY LIST

Customized assays available. Contact us to request a proposal for a pilot study or clinical trial. Highlighted assays are frequently used as biomarkers in cancer clinical trials.

AATK (LMR1)	FOP-FGFR1	NPM1
AKT1	FRK (PTK5, RAK)	NRAS
AKT2	FRZB	NTRK1 (TRKA)
AKT3	Fumarate Hydratase (FH)	NTRK2 (TRKB)
ABL1 (ABL)	FYN (SLK)	NTRK3 (TRKC)
ABL2 (ARG)	GATA1	PAR-1
ALK (CD246)	GSK3B	PDGFRA
APC	Hamartin (TSC1)	PDGFRB
ARAF	HCK	PIK3C2A (PI3K-C2a)
AXIN1	HCMOGT-1-PDGFRB	PIK3C2B (PI3K-C2b)
AXIN2	HERVK-FGFR1	PIK3CA (p110a)
AXL	HIF 1-3	PIK3CB (p110b)
BCR-ABL	HIPI-PDGFRB	PIK3CG (p110g)
BCR-FGFR1	HRAS	PP2A
BLK	IGF1R	PRKACA (PKA Ca)
Birt-Hogg-Dubé (BHD)	INSR	PRKACB (PKA C-b)
BMX (ETK)	INSSR (IRR)	PRKACG (PKA Cg)
BRAF	ITK (LYK)	PTEN
BTK	JAK1	PTK2 (FAK)
CBFB-MYH11	JAK2	PTK2B (FAK2, PYK2)
CCND1	JAK3	PTK6 (BRK, SRM)
CDH1	KIAA1509-PDGFRB	PTK7 (CCK4)
CDK4	KIT	PTPN11
CDK9 (TAK)	KIT (CD117)	RAB5-PDGFRB
CDKN2A (p16)	KDR (VEGFR2)	RAF1 (CRAF)
CEBPA	KRAS	RET
CK1/2	KSR (RSU2)	ROR1
CEP110-FGFR1	LEF1	ROR2
CEV14-PDGFRB	LMTK2 (LMR2)	ROS1
CNKSR1 (CNK)	LMTK3 (LMR3)	RPS6KA2 (p90 RSK)
CSF1R (C-FMS, CD115)	LRP	RPS6KA4 (MSK2)
CSK	LTK (TYK1)	RPS6KA5 (MSK1)
CTNNB1	LYN	RUNX1
DDR1 (CAK, CD167, PTK3)	MAP2K1 (MEK1)	RUNX1-CBFA2T1
DDR2	MAP2K2 (MEK2)	RYK
EGFR	MAP2K4 (JNKK1, MEK4, MKK4, SAPK)	SRC
EPHA1	MAP2K7 (JNKK2, MKK7)	STK11
EPHA2	MAP3K1 (MEKK1)	SYK
EPHA3	MAP3K11 (PTK1, MLK3)	TAK1
EPHA4	MAP3K12 (DLK)	TCF4
EPHA6	MAP3K4 (MEKK4, MTK1)	TEC
EPHA7	MAP3K5 (ASK1, MEKK5)	TEK (TIE2)
EPHA8	MAP3K8 (TPL2)	TEL-PDGFRB
EPHA10	MAPK1 (ERK2)	TGFbeta/BMP
EPHB1	MAPK10 (JNK3)	TIE1
EPHB2	MAPK11 (p38b)	TIF1-FGFR1
EPHB4	MAPK12 (p38g, ERK3)	TNK1
EPHB6	MAPK14 (p38, p38a, MAPK)	TNK2 (ACK)
ERBB2 (HER2)	MAPK3 (ERK1)	TP53BP1-PDGFRB
ERBB3 (HER3)	MAPK8 (JNK1)	Tuberin (TSC2)
ERBB4 (HER4)	MAPK9 (JNK2)	TXK (PTK4)
FER (TYK3)	MAPKAPK5 (PRAK)	TYK2 (JTK1)
FES (FPS)	MATK (CTK)	TYRO3 (BYK, SKY)
FGFR1	MERTK (MER)	VHL
FGFR2	MET	WNT1
FGFR3	MKNK1 (MNK1)	YES1 (YES)
FGFR4	MKNK2 (MNK2)	ZAP70 (SRK)
FGR	MLL-MLLT10	ZNF198-FGFR1
FH	MOS	
FIP1L1-PDGFRB	MST1R (RON)	
FLT1 (VEGFR1)	MUSK	
FLT3	NF1	
FLT3 (CD135, FLK2)	NIN-PDGFRB	
FLT4 (VEGFR3)	NLK	



TRANSGENOMIC[®]
the power of discovery

CYTOGENETIC ASSAYS**Adult and Children Diagnostic Tests-
Blood**

Cytogenetic Analysis

Interphase FISH

Metaphase FISH

Interphase/Metaphase FISH

Breakage Studies

Microarray CGH

Methylation for Prader-Willi/Angelman Syndrome

MECP2

MECP2 FISH Duplication

MECP2 DNA Sequencing for Rett Syndrome

UBE3A Sequencing for Angelman Syndrome

PTPN11-Tcomp

PTPN11-Tpart

PTPN11-Tseg

Skin Biopsy/Solid Tissue

Cytogenetic Analysis

Interphase FISH

Metaphase FISH

Interphase/Metaphase FISH

Microarray CGH

Cell Culture

Cryopreservation

CANCER DIAGNOSTIC TESTS**Blood**

Cytogenetic Analysis

Interphase FISH

Bone Marrow

Cytogenetic Analysis

Interphase FISH

Solid Tumor Tissue

Cytogenetic Analysis

Interphase FISH

Metaphase FISH

Lymph Node Biopsy

Cytogenetic Analysis

Interphase FISH

Metaphase FISH

UroVysion

Cytogenetic Analysis

Interphase FISH

Metaphase FISH

Her2/neu

Solid Tumor Tissue

Paraffin Block

IMMUNOHISTOCHEMISTRY ASSAYS

AA (Amyloid A)

AAT (Alpha-1-Antitrypsin)

ACTH (Pituitary)

AFP (Alpha-1-Fetoprotein)

ALK Protein (Anaplastic T NHL)

B72.3 (Adenocarcinoma)

BCL-1 (Cyclin D1, PRAD1)

BCL-2 (Anti-Apoptotic)

BCL-6 (T&B, Follicular)

Ber-EP4 (Epithelial Ag)

CA125 (Ovarian, etc.)

CA19-9 (Gastrointestinal, etc.)

Calcitonin (Thyroid, C-cells)

Caldesmon HMW

Caldesmon LMW

Calretinin (Mesothelial)

CD10 (B cell, Precursor)

CD117 (c-kit, GIST, Precursor)

CD138 (Plasma cell)

CD15 (Myeloid, R-S cell)

CD1a (Langerhan cell)

CD20 (B cell)

CD21 (B cell Follicular)

CD23 (B cell Follicular, Activated)

CD3 (T Cell)

CD30 (B & T, Activation)

CD31 (Vascular)

CD34 (Endothelial, Precursor)

CD38 (B cell)

CD4 (T helper cells)

CD43 (T&M cells)

CD45 (Leukocyte common antigen)

CD8 (T Killer cell)

CD45RO (T cell)

CD5 (T cell)

CD56 (NK cells)

CD57 (Leu-7, NK, Endocrine)

CD68 (Histiocyte)

CD68 (Macrophage, Histiocyte)

CD7 (T cell)

CD79a (B cell)

CD99 (MIC-2, Ewing's, T cell)

CDX-2 (Colon)

CEA-Monoclonal

CEA-Polyclonal

Chromogranin A (NE)

CMV

COX-2 (Prognostic, CA)

Cytokeratin LMW (CKCAM5.2)

Cytokeratin (AE1:3)

Cytokeratin CK19

Cytokeratin CK20

Cytokeratin CK5/6

Cytokeratin CK7

Cytokeratin CKPIN Cocktail (Prostate)

Cytokeratin HMW CK34BetaE12

Cytokeratin LMW (CK8/18)

Cytokeratin LMW (CKMAK6)

Desmin (Muscle)

EBV-LMP

E-Cadherin (Epithelial)

EGFR

EMA (Epithelial Membrane Ag)

ER (Estrogen Receptor)

ERA (Epithelial Related Ag, MOC-31)

Factor VIII (Endothelial)

GCDFP-15 (Breast ductal)

Glucagon (Islet cell, NE cell)

H. Pylori

HBME (Epithelial)

HCG (Chorionic gonadotropin)

HER-2/neu

HHV-8 (Human Herpesvirus)

HMB-45 (Melanocyte)

HPL (Placental lactogen)

HPV (Human Papillomavirus screen)

HSV I/II (Simplex I/II)

IgG (B cell, Plasma cell)

IgM (B cell, Plasma cell)

Insulin (Islet cell, NE cell)

Kappa (B cell, Plasma cell)

Ki 67

Lambda (B cell, Plasma cell)

LH (Lutein Hormone, Pituitary)

MBP (Myelin Basic Protein)

Melan A (MART-1/Melanocyte)

MLH-1 (Colon CA)

MPO (Myeloid, AML)

MSA (Muscle Specific Actin)

MSH-2 (Colon CA)

MUC-1 (Epithelial)

MUC-2 (Epithelial)

Myogenin (Rhabdomyoblasts)

Myoglobin (Skeletal muscle)

NF (Neurofilamen)

NSE (Neuron specific enolase)

P16 (Squamous dysplasia, HGSIL)

P53 (Cell cycle, Oncoprotein)

P63 (Breast, Prostate basal cells)

PAN CK (AE1/3)

PCNA (Proliferation)

PCP (Pneumocystis)

PLAP (Germ cell tumor)

PR (Progesterone Receptor)

PRL (Prolactin, Pituitary)

PSA (Prostate)

PSAP (Prostate)

PTH (Parathyroid Hormone)

S-100 (Melanocyte, etc.)

S-100 (Neural, Melanoma)

SMA (Smooth Muscle Actin)

SMM (Smooth Muscle Myosin)

Tau (CNS)

TdT (T, M, Precursor)

Thyroglobulin (Thyroid, F cells)

TS (Thymidylate Synthase)

TTF-1 (Thyroid, Lung)

Ubiquitin (Brian, etc.)

Vimentin (Mesenchymal)

WT-1 (Mesothelioma)

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