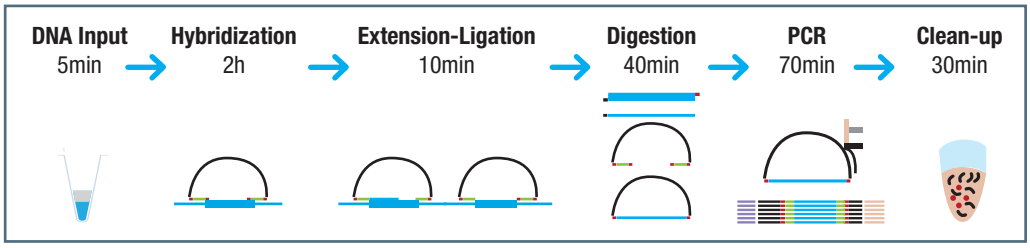
LCM GENECT®
ENABLING PRECISION MEDICINE

NGS Solution for Molecular Oncology

LCM Genect provides a complete (*o end-to-end*) solution for NGS analysis: from library preparation to data analysis and results' interpretation.

HANDLE (Halo-shape ANnealing and Defer-Ligation Enrichment) **system** is the Amoy Diagnostics proprietary library construction technology which provides high quality starting material for downstream sequencing, and **ANDAS data analysis system** is the dedicated software for the analysis of the sequencing data.

HANDLE technology:



The kits are available for **ALL ILLUMINA PLATFORMS**.

HANDLE CLASSIC NGS PANEL

(Cat. No. LCMHCNP01)

TARGET THERAPY

- **40 driver** genes for different cancers (lung, colorectal, pancreatic, breast, gastric etc)
- **NTRK1, NTRK2 and NTRK3** fusion included
- **MSI testing** included
- Mutation types: SNVs, InDels, Fusion, CNV, MSI
- Sensitivity: Hotspot 1%, Others 5%, Fusion 300 copies, CNV 5 copies, MSI 8%
- Samples: FFPE, liquid biopsy (only for DNA alterations)
- Compatibility with Illumina sequencers: MiniSeq, MiSeq, NextSeq Series

AKT1	△	FGFR4	△	NRG1	#	**ROS1**	△ #
ALK	△ #	HRAS	△	**NTRK1**	#	STK11	△
BRAF	△	IDH1	△	**NTRK2**	#	TP53	△
CTNNB1	△	IDH2	△	**NTRK3**	#	CDK4	○
DDR2	△	KEAP1	△	PDGFRA	△	DPYD	☆
EGFR	△	KIT	△	**PIK3CA**	△	ESR1	△
ERBB2	△ &	**KRAS**	△	POLE	△	NFE2L2	△
FGFR1	△ #	MAP2K1	△	PTEN	△	MYC	○
EGFR2	△ #	**MET**	&	RB1	△	NKX2-1	○
FGFR3	△ #	**NRAS**	△	**RET**	△ #	UGT1A1	☆

+ MSI testing

△ SNV/InDel # Fusion & CNV ○ CNA ☆ SNPs (for response to chemotherapy)

PARP INHIBITOR THERAPY

BRCA1 and BRCA2 Gene Mutation Detection Kit
(Cat. No. LCMNBR01)

- Target region: whole coding region, splicing region and some introns and UTR regions
- Mutation type: SNVs, InDels, CNVs
- Sensitivity: **2%**
- Samples: blood, FFPE, fresh and frozen tissues
- **All steps in ONE TUBE**
- HANDLE technology based
- CE-IVD
- Compatibility with Illumina sequencers: Iseq100, MiniSeq, MiSeq, NextSeq Series, HiSeq, NovaSeq

HANDLE HRR NGS PANEL
(Cat. No. LCMHRR)

- **32 HRR (Homologous Recombination Repair) genes**
- **26 SNPs in chemotherapy related genes**
- Mutation types: SNVs, InDels and CNVs di BRCA1-2 only in the germinal line
- Sensitivity: 5%
- Samples: blood, FFPE, fresh and frozen tissues
- **CE-IVD**
- Compatibility with Illumina sequencers: Iseq100, MiniSeq, MiSeq, NextSeq Series, NovaSeq

HANDLE HRD NGS Panel
(Cat. No. LCMHRD)

- Target region: **coding and splicing regions in BRCA1 and BRCA2 genes**
- Mutation type: SNVs and InDels
- **HRD Genomic Scar Score (GSS)**
- **based on over 24000 SNPs – LOH/TAI/LST**
- Samples: FFPE tissues, fresh tissues and peripheral blood samples
- Sensitivity: 5%
- **CE-IVD**
- First local end-to-end HRD solution: applicable to any NGS lab
- Compatibility with Illumina sequencers: NextSeq Series, NovaSeq

For further information please contact **info@lcm-genect.com**

AmoyDx

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