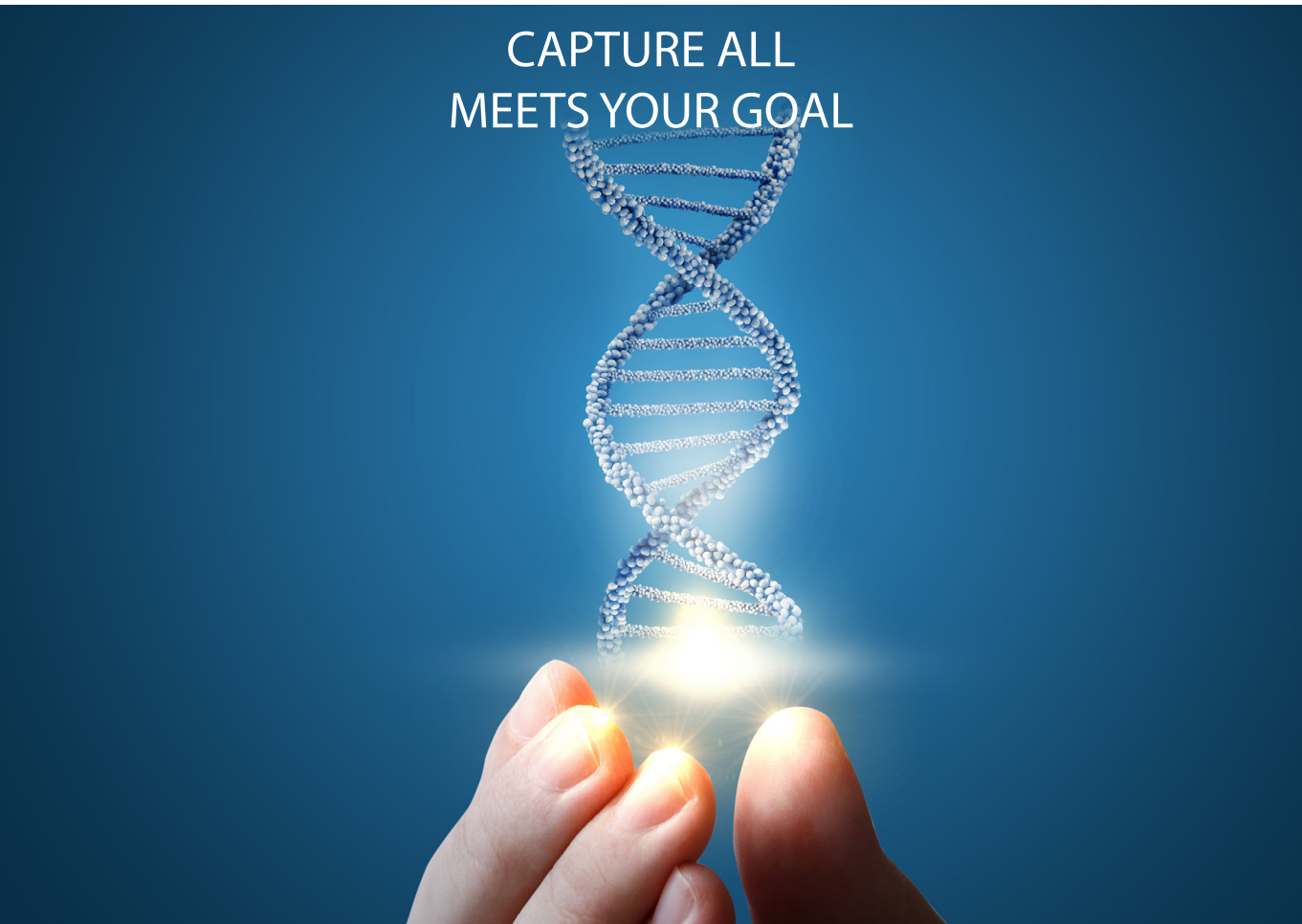
iGeneTech Bioscience Co., Ltd.

Product Catalog

January, 2026



About iGeneTech

iGeneTech Bioscience, is a high-tech enterprise in Beijing founded in 2014, focusing on the development and supply of target gene "reading" and "writing" solutions with three self-developed core technology platforms: NGS hybridization capture, multiplex PCR and high-throughput DNA synthesis. We provide catalog and customized NGS target enrichment panels, NGS reagents and kits, OEM and CDMO services and large-scale DNA synthesis services to 1000+ customers from various fields including healthcare, agriculture, microbiology, and academic research. We've set high quality standards to our NGS products, and our quality management system has received ISO 13485: 2016 and ISO 9001: 2015 certifications.

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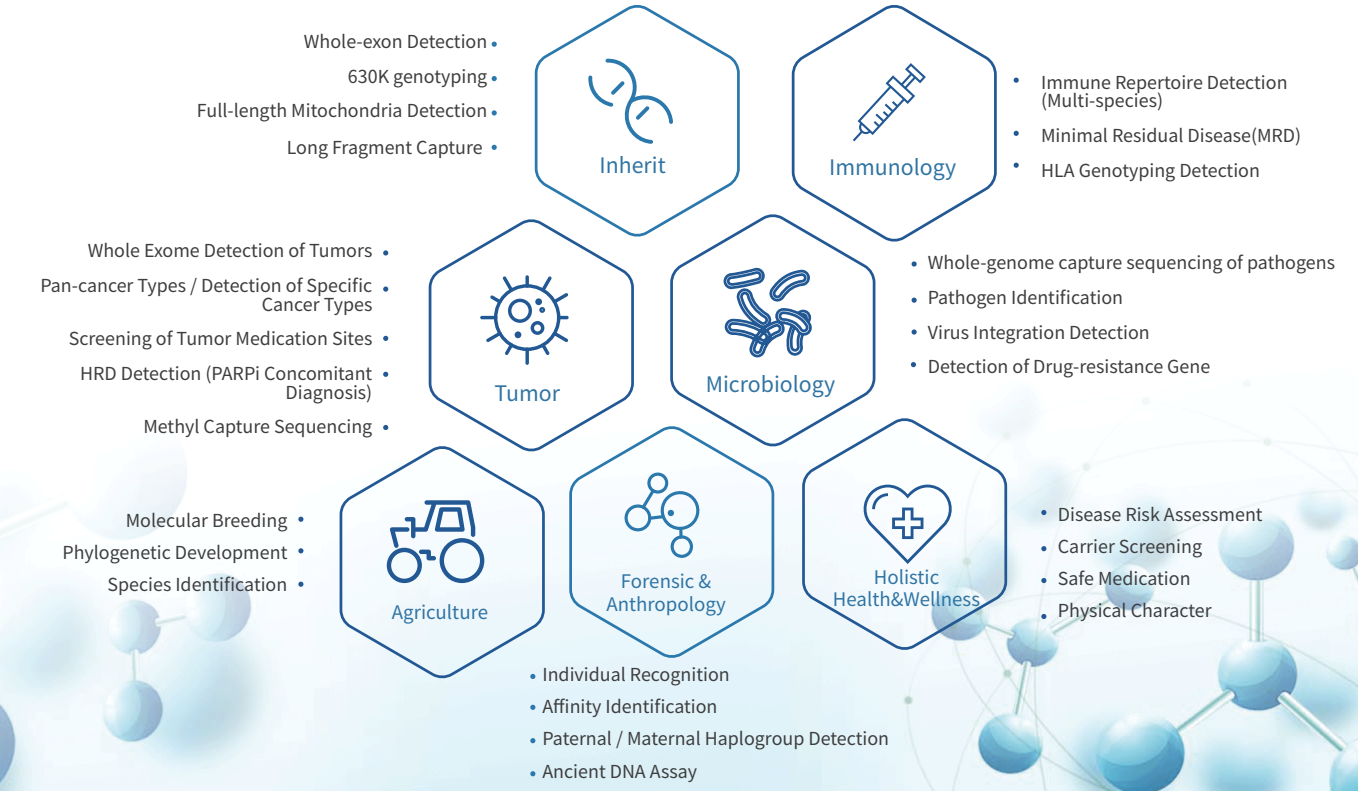
Product Instructions

Customization Solutions

iGeneTech can provide panels fully customized or semi-customized for a best solution. Fully customized products are that all target areas of the entire panel were defined by the customer, while semi-customized products are that other target areas were added on IGT standard products or part of the area probes were strengthened. As to target areas of high study frequency, iGeneTech has developed mature capture products for customers' flexible matching with standard products as well as customized testing requirements.

Pre-defined Panels

- Predefined target region probes products are based on TargetSeq® hybridization capture & sequencing technology, including AIExome®, TargetSeq® and BisCap® etc. Probe kit is contained, other reagents should be purchased separately.
- Predefined target region primers products are based on MultipSeq® multiplex amplicon sequencing technology, including MultipSeq® predefined target region primer products.



Pre-defined Target Region Probe/Primer Products

AIExome® Human Exome Panel Series

AIExome® Human Exome Panel V5

AIExome® Human Exome Panel V5 is designed on the basis of human reference genome GRCh38 and the latest patch sequences, covering about 34.7 Mb CDS regions of human genome with ultra-comprehensive coverage of protein coding region of the latest RefSeq, CCDS and GENCODE database, 7144 exomes ＜ 30bp have all been covered.

Recommended sequencing depth / data size: 100× / 8 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AIExome® Human Exome Panel V5	T1248V1hg38	34.7 Mb	24 rxn	PH2006465
			96 rxn	PH2006462

AIExome® Human Exome Panel V5 - Inherit

AIExome® Human Exome Panel V5-Inherit is designed on the basis of AIExome® V5 with addition of significant disease mutation sites of ClinVar database, meantime, a complete mitochondrial genome capture is available. High-density SNP backbones (200 kb interval) within whole genome and that of ClinGen(10 kb interval) were added to ensure a more comprehensive, accurate and rapid detection of the variant information of SNP, InDel, CNV, etc.

Recommended sequencing depth / data size: 100× / 11 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AIExome® Human Exome Panel V5- Inherit	T1248V1hg38G	36.8 Mb	24 rxn	PH2007375
			96 rxn	PH2007372

AIExome® Human Exome Panel V5 - Tumor

AIExome® Human Exome Panel V5-Tumor is designed on the basis of AIExome® V5, with an expansion and enhancement of probe coverage density of 641 tumor-related genes (especially mutation hotspots), introns of 38 hotspot fusion genes, unstable areas of 15 microsatellite loci, HLA 15 genes, HRD genomic backbone and full length mitochondria to fully meet the whole exome detection of tumor.

Recommended sequencing depth/data size: 200× / 20 Gb, depth of mutation hotspot area: > 800×.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AIExome® Human Exome Panel V5 - Tumor	T1248V1hg38T	35.3 Mb	24 rxn	PH2007385
			96 rxn	PH2007382

AIExome® Human Exome Panel V3- Research

AIExome® Human Exome Panel V3 - Research is designed on the basis of AIExome® V3, with increase of probe coverage of Intron, UTR, Noncoding areas of partial diseases and full-length mitochondria. In addition, high coverage of high GC region such as *TERT* promoter region and *CEPBA* gene etc. has been realized, on the basis of unique probe design scheme of iGeneTech. Whole exon coverage is more even in related genes of important diseases such as *PKD 1, CHEK 2 and CYP21A2*.

Recommended sequencing depth/data size: 100× / 14 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AIExome® Human Exome Panel V3 - Research	T1106V2	63.5 Mb	24 rxn	PT1013535
			96 rxn	PT1013532

AIExome® Human Medical Exome

Based on TargetSeq® hybrid capture-based target enrichment, the panel covers the *CDS* regions of 5,019 disease-related genes catalogued in Omim. Important genetic disease-related genes (SMN1/2、DMD、CYP2D6、CYP21A2、TNXB、PKD1、HBA1/HBA2/HBB and other thalassemia-related regions) adopt a special probe design, with addition of pathogenic and possible pathogenic variants, drug-response variants recorded in ClinVar. It can be applied to the research of genetic diseases, complex diseases, pharmacogenomics and genetics of East Asian populations, etc.

Recommended sequencing depth / data size: 100× / 4 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AIExome® Human Medical Exome	T2189V3hg38	14.6 Mb	24 rxn	PH2013005
			96 rxn	PH2013002

Genetic-related Products

Human 630K Genotyping Panel

Based on TargetSeq® hybrid capture-based target enrichment, this is a next-generation sequencing genotyping product designed for 630,000 common human SNP loci. It can be applied to the research of genetic diseases, complex diseases, pharmacogenomics and genetics of East Asian populations, etc.

Recommended sequencing depth / data size: 30× / 4 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Human 630K Genotyping Panel	T2574V1hg38	633.9 kb	24 rxn	PH2007045
			96 rxn	PH2007042

LR-DMD Panel

DMD gene (Dystrophin gene) mutant can causes Duchenne muscular dystrophy (DMD). The total length of the gene is about 2.2 Mb. Based on TargetSeq® hybrid capture-based target enrichment, iGeneTech designs probes for the full length of the DMD gene, with an average probe density of 0.2×. Combined with long fragment sequencing, it can detect the full length of the DMD gene and can detect various mutation types such as large fragment deletion/duplications, small nucleotide variants, and InDel etc.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
LR-DMD Panel	T2026V1hg38	2.2 Mb	24 rxn	PH2001465
			96 rxn	PH2001462

Carrier Screening Panel

Based on TargetSeq® hybrid capture-based target enrichment, referring to ACMG carrier screening gene list, and ASCO solid tumor germline gene testing guidelines, probes for CDS regions of 216 genes were designed, which can be used for the screening of hereditary tumors, cardiovascular diseases, metabolic defects and other systemic genetic diseases. Recommended sequencing depth / data size: 150× / 0.5 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Carrier Screening Panel	T1238V1	1.2 Mb	24 rxn	PH2006835
			96 rxn	PH2006832

200 Carrier screening-related genes（part）										
ABCA3	*ABCC8*	*ABCD1*	*ACADM*	*ACADVL*	*ACAT1*	*AFF2*	*AGA*	*AGXT*	*AHI1*	*AIRE*	*ALDOB*
ALPL	*ANO10*	*ARSA*	*ARX*	*ASL*	*ASPA*	*ATP7B*	*BBS1*	*BBS2*	*BCKDHB*	*BLM*	*BTD*
CBS	*CC2D2A*	*CCDC88C*	*CEP290*	*CFTR*	*CHRNE*	*CLCN1*	*CLRN1*	*CNGB3*	*COL7A1*	*CPT2*	*CYP11A1*
CYP21A2	*CYP27A1*	*CYP27B1*	*DHCR7*	*DHDDS*	*DLD*	*DMD*	*DYNC2H1*	*ELP1*	*ERCC2*	*EVC2*	*F8*
F9	*FAH*	*FANCC*	*FKRP*	*FKTN*	*FMO3*	*FMR1*	*FXN*	*G6PC*	*GAA*	*GALT*	*GBA*
GBE1	*GJB2*	*GLA*	*GNPTAB*	*GRIP1*	*HBA1*	*HBA2*	*HBB*	*HEXA*	*HPS1*	*HPS3*	*IDUA*
L1CAM	*LRP2*	*MCCC2*	*MCOLN1*	*MCPH1*	*MID1*	*MLC1*	*MMACHC*	*MUT*	*MVK*	*NAGA*	*NEB*
NPHS1	*NR0B1*	*OCA2*	*OTC*	*PAH*	*PCDH15*	*PKHD1*	*PLP1*	*PMM2*	*POLG*	*PRF1*	*RARS2*
RNASEH2B	*RPGR*	*RS1*	*SCO2*	*SLC19A3*	*SLC26A2*	*SLC26A4*	*SLC37A4*	*SLC6A8*	*SMN1*	*SMPD1*	*TF*
TMEM216	*TNXB*	*TYR*	*USH2A*	*XPC*	*APC*	*RET*	*BRCA1*	*BRCA2*	*PALB2*	*SDHD*	*SDHAF2*
SDHC	*SDHB*	*MAX*	*TMEM127*	*BMPR1A*	*SMAD4*	*TP53*	*MLH1*	*MSH2*	*MSH6*	*PMS2*	*MEN1*

Human Mitochondrial and Forensic Science Products

Human Mitochondrial Panel

Based on TargetSeq® hybrid capture-based target enrichment, probes are designed for the full length of human mitochondrial (16 ,569 bp) , which can fully capture the whole mitochondrial genome. This product can be added as mitochondrial genome (a module to other panels.)

Recommended sequencing depth / data size: 5000× / 0.2 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Human Mitochondrial Panel	T1110V1	16.6 kb	24 rxn	PH2003465
			96 rxn	PH2003462

Human Mitochondrial Primer Pool (for Illumina TS)

Based on MultipSeq® Multiplex amplicon sequencing technology, specific primers are designed for the full length of human mitochondrial genome (16,569 bp), which can capture the whole mitochondrial genome, providing customers with efficient and high-quality overall solutions for human mitochondrial genomes.

Recommended sequencing depth / data size: 5000× / 0.2 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Human Mitochondrial Primer Pool (for Illumina TS)	A102V2	16.6 kb	96 rxn	PA6007212

186 Forensic STR Panel (for Illumina TS)

Based on MultipSeq® multiplex-amplicon sequencing technology, panels are designed for 186 STR loci of forensic science, including 89 Y chromosomes, 66 autosomes, 31 X chromosome loci and gender recognition loci, applicable for China DNA database information storage, individual identification and scientific research etc.

Recommended reading length / data size: ⩾ 250 bp / 0.5 M Reads.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
186 Forensic STR Panel (for Illumina TS)	A2060V1hg38	11.9 kb	96 rxn	PA6006222

STR Locus List（89 Y chromosomes, 66 autosomes, 31 X chromosome, 186 in total ）

Y chromosomes（part）									
DYS19	DYS385a/b	DYS389I/II	DYS390	DYS391	DYS392	DYS393	DYS437	DYS438	DYS439
DYS443	DYS444	DYS447	DYS448	DYS449	DYS456	DYS458	DYS481	DYS522	DYS533
DYS576	DYS627	DYS635	Y-GATA-H4						

X chromosomes（part）									
DXS101	DXS6789	DXS6810	DXS7132	DXS7133	DXS7423	DXS7424	DXS8378	DXS9902	DXS10074
DXS10101	DXS10103	DXS10134	DXS10135	DXS10159	DXS10162	DXS10079	HPRTB		

Autosomes（part）									
D1S1656	TPOX	D2S441	D2S1338	D3S3045	D3S1358	FGA	D5S818	CSF1PO	D6S477
D7S820	D8S1179	TH01	vWA	D12S391	D13S317	PentaE	D16S539	D18S51	D19S433
D21S11	PentaD								

Solid Tumor-related Products

Pan-Cancer Panel V2

Based on TargetSeq® hybrid capture-based target enrichment, this panel covers 641 genes related to solid tumor targeted therapy and tumor genetic susceptibility, also additionally adds 38 hotspot fusion intron regions and 15 classic microsatellite loci, it can detect small nucleotide variants, fusion, copy number variation and insertion / deficiency as well as TMB, MSI analysis at one time, providing reference for tumor targeted therapy, immunotherapy and risk prediction of hereditary tumor.

Recommended sequencing depth / data size: 500× / 3 Gb.

Product Name	Panel NO.	Target Size	Spec	Catalog#
Pan-Cancer Panel V2	T893V1	2.1 Mb	24 rxn	PT1011715
			96 rxn	PT1011712

List of part genes:

641 Tumor-related Genes (part)											
ABCB1	*ABCC3*	*ABL1*	*ABL2*	*ACVR1*	*ACVR1B*	*AGO2*	*AKT1*	*AKT2*	*AKT3*	*ALK*	*ALOX12B*
AMER1	*ANKRD11*	*APC*	*APEX1*	*AR*	*ARAF*	*ARFRP1*	*ARID1A*	*ARID1B*	*ARID2*	*ARID5B*	*ASNS*
ASXL1	*ASXL2*	*ATIC*	*ATM*	*ATR*	*ATRX*	*AURKA*	*AURKB*	*AXIN1*	*AXIN2*	*AXL*	*B2M*
BABAM1	*BAP1*	*BARD1*	*BBC3*	*BCL10*	*BCL2*	*BCL2L1*	*BCL2L11*	*BCL2L2*	*BCL6*	*BCOR*	*BCORL1*
BCR	*BIRC3*	*BIRC7*	*BLM*	*BMPR1A*	*BRAF*	*BRCA1*	*BRCA2*	*BRD4*	*BRIP1*	*BTG1*	*BTG2*
BTK	*C11orf30*	*C8orf34*	*CALR*	*CARD11*	*CARM1*	*CASP7*	*CASP8*	*CBFB*	*CBL*	*CBR3*	*CCND1*
CCND2	*CCND3*	*CCNE1*	*CD22*	*CD274*	*CD276*	*CD3EAP*	*CD44*	*CD70*	*CD79A*	*CD79B*	*CDA*
CDC42	*CDC73*	*CDH1*	*CDK12*	*CDK4*	*CDK6*	*CDK8*	*CDKN1A*	*CDKN1B*	*CDKN2A*	*CDKN2B*	*CDKN2C*
CEBPA	*CENPA*	*CHD2*	*CHD4*	*CHEK1*	*CHEK2*	*CIC*	*CREBBP*	*CRKL*	*CRLF2*	*CSDE1*	*CSF1R*
CSF3R	*CTCF*	*CTLA4*	*CTNNA1*	*CTNNB1*	*CTTN*	*CUL3*	*CUL4A*	*CXCR4*	*CYLD*	*CYP17A1*	*CYP19A1*
CYP1B1	*CYP2C8*	*CYP2D6*	*CYP4B1*	*CYSLTR2*	*DAXX*	*DCUN1D1*	*DDR1*	*DDR2*	*DDX43*	*DICER1*	*DIS3*
DNAJB1	*DNMT1*	*DNMT3A*	*DNMT3B*	*DOT1L*	*DPYD*	*DROSHA*	*DUSP4*	*DYNC2H1*	*E2F3*	*EED*	*EGFL7*
EGFR	*EIF1AX*	*EIF4A2*	*EIF4E*	*ELF3*	*EP300*	*EPAS1*	*EPCAM*	*EPHA2*	*EPHA3*	*EPHA5*	*EPHA7*
EPHB1	*EPHB4*	*ERBB2*	*ERBB3*	*ERBB4*	*ERCC1*	*ERCC2*	*ERCC3*	*ERCC4*	*ERCC5*	*ERF*	*ERG*
ERRFI1	*ESR1*	*ESR2*	*ETV1*	*ETV6*	*EWSR1*	*EXT1*	*EZH1*	*EZH2*	*FADD*	*FAM175A*	*FAM46C*
FAM58A	*FANCA*	*FANCC*	*FANCD2*	*FANCE*	*FANCF*	*FANCG*	*FANCL*	*FANCM*	*FAS*	*FAT1*	*FAT3*
FBXW7	*FCGR2A*	*FCGR3A*	*FGF10*	*FGF12*	*FGF14*	*FGF19*	*FGF23*	*FGF3*	*FGF4*	*FGF6*	*FGFR1*
FGFR2	*FGFR3*	*FGFR4*	*FH*	*FLCN*	*FLT1*	*FLT3*	*FLT4*	*FOXA1*	*FOXL2*	*FOXO1*	*FOXP1*
FRS2	*FSHR*	*FUBP1*	*FYN*	*GAB2*	*GABRA6*	*GALNT12*	*GATA1*	*GATA2*	*GATA3*	*GATA4*	*GATA6*
GGH	*GID4*	*GLI1*	*GNA11*	*GNA13*	*GNAQ*	*GNAS*	*GPR124*	*GPS2*	*GREM1*	*GRIN2A*	*GRM3*
GSK3B	*GSTA1*	*GSTM1*	*GSTP1*	*H3F3A*	*H3F3B*	*H3F3C*	*HAS3*	*HDAC1*	*HDAC6*	*HGF*	*HIST1H1C*
HIST1H2BD	*HIST1H3A*	*HIST1H3B*	*HIST1H3C*	*HIST1H3D*	*HIST1H3E*	*HIST1H3F*	*HIST1H3G*	*HIST1H3H*	*HIST1H3I*	*HIST1H3J*	*HIST2H3C*
HIST2H3D	*HIST3H3*	*HLA-A*	*HLA-B*	*HMMR*	*HNF1A*	*HOXB13*	*HRAS*	*HSD3B1*	*HSP90AA1*	*HSPB1*	*ICOSLG*
ID3	*IDH1*	*IDH2*	*IFNGR1*	*IGF1*	*IGF1R*	*IGF2*	*IKBKE*	*IKZF1*	*IL10*	*IL1A*	*IL4*
IL7R	*IL8*	*INHA*	*INHBA*	*INPP4A*	*INPP4B*	*INPPL1*	*INSR*	*IRF2*	*IRF4*	*IRS1*	*IRS2*
JAK1	*JAK2*	*JAK3*	*JUN*	*KAT6A*	*KDM3B*	*KDM5A*	*KDM5C*	*KDM6A*	*KDR*	*KEAP1*	*KEL*
KIT	*KLF4*	*KLHL6*	*KMT2A*	*KMT2B*	*KMT2C*	*KMT2D*	*KNSTRN*	*KRAS*	*LATS1*	*LATS2*	*LIG4*

38 Fusion Genes											
NOTCH2	*NTRK1*	*ALK*	*MSH2*	*RAF1*	*ETV5*	*FGFR3*	*SLC34A2*	*PDGFRA*	*KIT*	*CD74*	*ROS1*
MYB	*EZR*	*EGFR*	*BRAF*	*FGFR1*	*MYC*	*NTRK2*	*RET*	*FGFR2*	*KMT2A*	*ETV6*	*BRCA2*
NUTM1	*RARA*	*BRCA1*	*ETV4*	*SDC4*	*TMPRSS2*	*BCR*	*EWSR1*	*BCL2*	*RSPO2*	*MET*	*ETV1*
PPARγ	*TERT*										

15 MSI										
BAT40	Mono-27	BAT26	D2S123	NR24	BAT25	D5S346	D8S554	Penta C	NR27	NR21	D17S250
D18S69	D18S64	Penta D									

Chemotherapy sites (part)								
rs8175347	rs13181	rs2207396	rs3211371	rs10426377	rs602950	rs3740066	rs7194667	rs2070676
rs12960	rs2228001	rs1042522	rs1799735	rs25487	rs3212986	rs3957357	rs60369023	rs2740574
rs9024	rs67376798	rs9394992	rs2234693	rs1052536	rs7319981	rs4694362	rs7779029	rs934635
rs11479	rs9351963	rs442767	rs12046844	rs1650697	rs11545078	rs12022243	rs2612091	rs2741171

Solid Tumor Fusion RNA Panel

This product covers the coding regions of the transcripts of 298 common fusion genes and the UTR regions of selected genes for detection of RNA level fusion, variation and gene expression, providing clinical reference for tumor diagnosis & genotyping, prognosis judgement and recurrence monitoring.

Recommended data size: 4 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Solid Tumor Fusion RNA Panel	T1120V1	1.2 Mb	24 rxn	PH2000475
			96 rxn	PH2000472

Gene List:

298 Fusion related genes(part)											
ABL1+*	*ABL2*	*ACKR3*	*ACTB*	*AFF1*	*AFF3*	*AHRR*	*AKAP9*	*AKT3*	*ALK*	*ARHGAP26*	*ASPSCR1*
ATF1	*ATIC*	*AXL*	*BAG4*	*BAIAP2L1*	*BCAS3*	*BCAS4*	*BCL11A*	*BCL2+*	*BCL3*	*BCOR*+*	*BIRC3*
BIRC6	*BRAF*	*BRD3*	*BRD4**	*C110rf95*	*CAMTA1*	*CANT1*	*CARS1*	*KNL1*	*CASP7*	*CCAR2*	*CCDC6*
CCNB1IP1	*CCNB3*	*CCND1*	*CCND3*	*CD74*	*CDH11*	*CDKN2D*	*CDX1*	*CHCHD7*	*CIC+*	*CLTC*	*COL1A1*
COL1A2	*COL4A5*	*COL6A3*	*CREB1*	*CREB3L1*	*CREB3L2*	*CRLF2*	*CRTC1*	*CRTC3*	*CSF1*	*CSF1R*	*CTNNB1*
CUX1	*DDIT3*	*DDX5*	*DEK*	*SLC49A4*	*DNAJB1*	*DUX4*	*EBF1*	*EGFR*	*EIF3E*	*EIF4A2*	*ELK4*
EML4	*EP300*	*EPC1*	*EPCAM*	*ERBB2+*	*ERC1*	*ERG**	*ERLIN2*	*ESR1*	*ESRRA*	*ETS1*	*ETV1**
ETV4	*ETV5**	*ETV6**	*EWSR1*	*EZR*	*TAFA2*	*FEV*	*FGF8*	*FGFR1*	*FGFR2*	*FGFR3*	*FGR**
FHIT	*FLI1*	*FLT3*	*FOSB*	*FOXO1*	*FOXO4*	*FRYL*	*FUS*	*GLI1*	*GOLGA5*	*GOPC*	*GPC3*
GRID1	*HAS2*	*HERPUD1*	*HEY1*	*HIP1*	*HJURP*	*HMGA1*	*HMGA2*	*HMGN2P46*	*HNRNPA2B1*	*HOOK3*	*HPR*
INSR	*IRF2BP2*	*JAK2**	*JAK3*	*JAZF1*	*KAT6B*	*RELCH*	*KIAA1549*	*KIF5B+*	*KIT+*	*KLF17*	*KLK2*
KLK4	*KLKP1*	*KMT2A*	*KRAS*	*KTN1*	*LHFPL6*	*LIFR*	*LMO1*	*LPP*	*LRIG3*	*LRP1*	*MAML2*
MAST1	*MAST2*	*MBTD1*	*MEAF6*	*MET**	*OGA*	*MIPOL1*	*MRTFB*	*MLLT11*	*MLLT3*	*MN1*	*MSH2*
MSMB	*MUSK*	*MUTYH*	*MYB*	*MYC*	*MYH11*	*MYH9*	*NAB2*	*NCOA1**	*NCOA2**	*NCOA4*	*NDRG1*

*Cover all 5'-UTR

+Cover all 3'-UTR

TargetSeq® Pan-Cancer DNA+RNA Research Assay

The product realizes DNA + RNA co-detection of solid tumor, matched with library prep kits of DNA&RNA samples, hybrid capture kits, pan-cancer DNA + RNA probes to realize detection of SNV, CNV and Indels, fusion etc. at DNA level, as well as fusion and exon skipping at RNA level.

Product Name	Spec.	Catalog#
TargetSeq® Pan-Cancer DNA+RNA Research Assay*	96 rxn	C11252

*Shipping list includes library prep kits, adapter kits, capture kits, universal reagents and predefined products.

Cancer gDNA Reference Standard

Cancer gDNA Reference Standard use human-derived cell lines as raw material, including 15 hot spot mutations (11 SNV, 1 InDel, 1 copy number amplification, 1 fusion and 1 MET Exon 14 Skipping Mutations), precisely quantified by digital PCR. This product can be used for mutant validation and quality control.

Product Name	Form	Spec.	Catalog#
Cancer gDNA Reference Standard	gDNA	30 ng/μL，1 μg/ Tube	PCS500

RNA Fusion Mix 3.0

RNA Fusion Mix 3.0 is a mixture of purified RNA fragments and cell line-derived RNA, including 23 fusion forms, with a complete coverage of the fusion genes related to targeted therapy. This product can be used for RNA fusion validation and quality control.

Product Name	Form	Spec.	Catalog#
RNA Fusion Mix 3.0	RNA	50 ng/μL, 1 μg/Tube	MD07361

Solid Tumor Mid Panel

This panel selected 122 coding regions related to solid tumor, intron regions of 10 hotspot fusion genes, 19 classical microsatellite loci, and 219 chemotherapy sites. Compared with large panel, Mid panel has a streamlined region and achieves diverse detection requirements.

Recommended sequencing depth / data size: 1000× / 1.5 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Solid Tumor Mid Panel	T1288V1	438.3 kb	24 rxn	PH2002105
			96 rxn	PH2002102

Gene List:

122 Tumor-related Genes (part)											
AKT1	*ABL1*	*ABL2*	*AKT3*	*ALK*	*APC*	*AR*	*ARAF*	*ARID1A*	*ATM*	*ATR*	*BAP1*
BARD1	*BRAF*	*BRCA1*	*BRCA2*	*BRIP1*	*CCND1*	*CDH1*	*CDK12*	*CDK4*	*CDK6*	*CDKN2A*	*CDX2*
CHEK2	*CTNNB1*	*DDR2*	*DICER1*	*EGFR*	*EPCAM*	*ERBB2*	*ERBB3*	*ERBB4*	*ERCC2*	*ESR1*	*EZH2*
FBXW7	*FGFR1*	*FGFR2*	*FGFR3*	*FGFR4*	*FH*	*FLCN*	*FLT3*	*FOXA1*	*FOXL2*	*GATA3*	*GNA11*

10 Fusion Genes									
ALK	*CD74*	*ETV6*	*FGFR1*	*FGFR2*	*FGFR3*	*NTRK1*	*NTRK2*	*RET*	*ROS1*

19 MSI											
BAT40	Mono-27	BAT26	D2S123	NR24	BAT25	D5S346	D8S554	Penta C	NR27	NR21	D17S250
D18S69	D18S64	Penta D	NR22	D17S261	D17S520	D18S34					

Chemotherapy Sites (part)								
rs8175347	rs13181	rs2207396	rs3211371	rs10426377	rs602950	rs3740066	rs7194667	rs2070676
rs12960	rs2228001	rs1042522	rs1799735	rs25487	rs3212986	rs3957357	rs60369023	rs2740574
rs9024	rs67376798	rs9394992	rs2234693	rs1052536	rs7319981	rs4694362	rs7779029	rs934635
rs11479	rs9351963	rs442767	rs12046844	rs1650697	rs11545078	rs12022243	rs2612091	rs2741171

Core Genes Fusion RNA Panel

This product selects the transcript coding regions of 90 fusion genes common in tumor and the UTR regions of selected genes for panel design, enables detection of fusions, variations & gene expressions at RNA level.

Recommended data size: 3 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Core Genes Fusion RNA Panel	T1119V1	582.6 kb	24 rxn	PH2000595
			96 rxn	PH2000592

Gene List:

90 Fusion Genes											
ABL1+*	*ALK*	*BCL2+*	*BCOR*+*	*BRAF*	*BRD4**	*CCDC6*	*CCND1*	*CIC+*	*COL1A1*	*CRTC1*	*DDIT3*
DNAJB1	*EGFR*	*EML4*	*EPC1*	*ERBB2+*	*ERG**	*ETV1**	*ETV4*	*ETV6**	*EWSR1*	*EZR*	*FGFR1*
FGFR2	*FGFR3*	*FGR**	*FLI1*	*FLT3*	*FOX01*	*FUS*	*GLI1*	*HMGA2*	*JAK2**	*JAZF1*	*KIAA1549*
KMT2A	*LPP*	*MAML2*	*MAST1*	*MAST2*	*MET**	*MLLT3*	*MYB*	*MYC*	*NAB2*	*NCOA1**	*NCOA2**
NCOA4	*NOTCH1*	*NOTCH2*	*NR4A3**	*NRG1*	*NTRK1*	*NTRK2*	*NTRK3*	*NUTM1*	*PAX3*	*PAX5*	*PAX7*
PAX8	*PBX1*	*PDGFB*	*PDGFRA*	*PDGFRB+*	*PHF1*	*PIK3CA**	*PLAG1**	*PPARG**	*PRKACA*	*RAF1*	*RARA**
RET	*ROS1*	*RUNX1*	*SLC45A3*	*SS18*	*SSX1*	*SSX2*	*STAT6*	*SUZ12*	*TAF15*	*TCF3*	*TFE3*
TFEB	*TFG*	*TMPRSS2*+*	*TP53**	*USP6**	*YWHAE**						

*Cover all 5'-UTR

+Cover all 3'-UTR

Cancer FFPE Reference Standard (5% VAF)

This product uses human-derived cell lines as raw material including 2 fusion forms, 2 SNV, 2 InDel and 2 amplifications, covering the key medication sites of lung cancer and breast cancer, precisely quantified by digital PCR, applicable to evaluation and verification of diverse variants. This product can be used to establish and improve the detection performance of somatic mutation and indoor quality control of NGS method.

Product Name	Form	Spec.	Catalog#
Cancer FFPE Reference Standard (5% VAF)	FFPE	1 wax-sealed / tube	MD320

NSCLC Panel V2

NSCLC Panel V2 is designed on the basis of 23 NSCLC treatment related genes suggested by NCCN Guidance, which covers the whole exon regions of 23 genes and hotspot fusion regions of BRAF, ALK, RET, ROS1 and Met Exon 14 skipping mutation. It can detect mutation, fusion, copy number variation and insertion/ deletion at one time to provide reference for clinical treatment.

Recommended sequencing depth / data size: 1000× / 1 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
NSCLC Panel V2	T892V1	170.1 kb	24 rxn	PH2000165
			96 rxn	PH2000162

Gene List:

23 Tumor related genes											
*ALK**	*BRAF**	*CDKN2A*	*EGFR**	*ERBB2*	*KRAS*	*MAP2K1*	*MET**	*NRAS*	*PIK3CA*	*RET**	*ROS1**
TP53	*NTRK1**	*NTRK2**	*NTRK3*	*NF1*	*STK11*	*PTEN*	*FGFR1**	*FGFR2**	*FGFR3**	*NRG1*	

* Cover genes of hotspot fusion regions

BRCA1 / 2 Primer Pool V2

This product contains the exon regions of BRCA1/2 genes and the locus of important non-exon regions of the ClinVar database, can detect related point mutations and insertion/deletion of the gene, applicable to diagnosis, screening and risk prediction of hereditary breast cancer, ovarian cancer etc.

Recommended sequencing depth / data size: 2000× / 0.15 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
BRCA1/2 Primer Pool V2	A216V2	20.2 kb	16 rxn	PA6003781
			96 rxn	PA6003782

Tumor-informed MRD Research Kit v2.0 *FREE !*

Based on Tumor-informed assays, combined with self-developed hybrid capture system and high-throughput MRD Panel, a complete set of MRD hybrid capture reagents is launched including hybrid capture reagent, blocking sequence and capture magnetic beads. A cost-effective, high stability MRD detection scheme is formed in combination with free customized MRD Panel, promoting the popularization of clinical application.

Product Name	Spec.	Catalog#
Tumor-informed MRD Research Kit v2.0 (for Illumina) *	24 rxn	C11594
	96 rxn	C11592

*The shipping list includes hybrid capture reagent, blocking sequence and capture magnetic beads.

MRD ctDNA Reference Standard

MRD ctDNA Reference Standard uses human-derived cell line as raw material, obtaining 4 variation levels (0.5%, 0.05%, 0.005%, 0%) via manual fragmentation of mixed DNA, simulation and dilution of ctDNA, quantified by NGS panel or digital PCR. This product covers common drug targets for lung cancer, colorectal cancer and breast cancer, including total 26 hotspot mutations: 18 SNV, 5 InDel (del1bp/2bp/15bp; ins9bp/12bp), 2 fusions and 1 *MET Exon 14 Skipping Mutation*. This product can be used to establish and improve MRD detection performance and indoor quality control of NGS method.

Product Name	Form	Spec.	Catalog#
MRD ctDNA Reference Standard	cfDNA	20 ng/μL，500 ng/tube	MD080719

Hematological Tumor-related Products

Leukemia 383 Genes Panel

This product, in line with the clinical diagnosis and treatment, takes authority guidelines and expert consensus as references, features the full length of coding regions, hotspot regions and important non-coding regions of 383 significant genes related to leukemia. Meanwhile, mutant probes are added separately for special types to enhance the detection capability, providing molecular biological information such as diagnostic classification, prognosis stratification, medication guidance and dynamic monitoring for leukemia patients.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Leukemia 383 Genes Panel	T2878V1hg38	1.3 Mb	24 rxn	PH2010245
			96 rxn	PH2010242

Gene List：

383 Leukemia-related genes(Part)									
ABL1	*ABL2*	*ACTB*	*ACTG1*	*AKT1*	*AKT2*	*AKT3*	*ALK*	*ANK2*	*ANKRD26*
ARAF	*ARID1A*	*ARID1B*	*ARID2*	*ARID3A*	*ARID4B*	*ASXL1*	*ASXL2*	*ASXL3*	*ATM*
ATP13A4	*ATR*	*ATRX*	*B2M*	*BAX*	*BAZ2A*	*BCL11B*	*BCL2*	*BCL6*	*BCL7A*
BCLAF1	*BCOR*	*BCORL1*	*BIRC2*	*BIRC3*	*BLNK*	*BRAF*	*BRCC3*	*BRINP3*	*BTG1*
BTG2	*BTK*	*CALR*	*CARD11*	*CARMIL2*	*CBL*	*CBLB*	*CCDC115*	*CCL22*	*CCND1*
CCND2	*CCND3*	*CCR4*	*CCR6*	*CCR7*	*CD19*	*CD22*	*CD274*	*CD28*	*CD36*
CD40LG	*CD5*	*CD58*	*CD7*	*CD79A*	*CD79B*	*CD81*	*CDK4*	*CDKN1B*	*CDKN2A*
CDKN2B	*CDKN2C*	*CEBPA*	*CEBPE*	*CHD2*	*CHD8*	*CHEK1*	*CHEK2*	*CIC*	*CIITA*
CNOT3	*CR2*	*CRBN*	*CREBBP*	*CRLF2*	*CSF1R*	*CSF3R*	*CTCF*	*CTNNB1*	*CUL4B*
CUX1	*CXCR4*	*CXCR5*	*CYLD*	*DCAF7*	*DDB1*	*DDX3X*	*DDX41*	*DIS3*	*DNAH11*
DNAH5	*DNM2*	*DNMT3A*	*DNMT3B*	*DTX1*	*DUSP2*	*EBF1*	*EED*	*EGFR*	*EGR1*

AML MRD Panel *NEW*

This product focuses on important target regions related to AML prognosis, such as FLT3 ITD, NPM1, etc. By integrating molecular labeling technology and efficient enzymatic fragmentation library prep, it can fully meet the high input and high sensitivity requirements of MRD detection, accurately detect various variant (SNV, InDel and SV) of the sample, providing accurate and efficient information for prognostic monitoring &assessment, and development of new therapies.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
AML MRD Panel *NEW*	T2536V1	36.3 kb	24 rxn	PH2006655
			96 rxn	PH2006652

FLT3-ITD Primer Pool

FLT 3-ITD mutation is one of the common pathogenic mutations in AML, which has significant meaning in hema tumor prognosis and targeted therapy. On the basis of multiple amplicon sequencing technology, intron 13 to exon 15 have been put into the target region combining with unique primer design scheme. This product can accurately detect the known and unknown ITD mutations on exons 14-15 through improving the detection sensitivity by random amplification.

Product Name	Panel NO.	Target Size	Spec.	Cat. NO.
FLT3-ITD Primer Pool (for Illumina TS)	A720V1	0.4 kb	16 rxn	PA6004121
			96 rxn	PA6004122

TP53 Primer Pool

As an important tumor suppressor gene in human body, TP53 can not only prevent the division of tumor cell and induce the apoptosis, but also can repair normal DNA damage. By detecting TP53 genotype, individual tumor genetic carriage can be assessed to reduce cancer probability. Therefore, this product is targeted at the CDS regions of TP53 gene, performs efficient and convenient TP53 gene mutation detection by NGS gene sequencing on the basis of multiplex amplicon sequencing technology.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
TP53 Primer Pool (for Illumina TS)	A748V1	1.3 kb	16 rxn	PA6005331
			96 rxn	PA6005332

BCR-ABL1 Primer Pool

Tyrosine kinase inhibitors (TKI) has been an important component of CML first-line treatment, but still some patients develop primary or 2nd drug resistance, among which mutation in BCR-ABL1 kinase domain is the main mechanism. Results shows that more than half of CML patients resistant to Imatinib, Nilotinib and Dasatinib detected mutations in BCR-ABL1 kinase domain. Therefore, whether in ELN or NCCN guideline, mutation detection is recommended when CML patients appear non-optimal efficacy or treatment failure.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
BCR-ABL1 Primer Pool (for Illumina TS)	A2083V1	1.0 kb	16 rxn	PA6006591
			96 rxn	PA6006592

Hema Cancer Fusion RNA Panel

This product covers transcripts of 141 common fusion master gene such as KMT2A, RARA, and NUP98 in Hema Tumor, achieving reliable detection of RNA-level fusion events. Meanwhile, it can also be combined with DNA-level mutation detection products to form a dual detection solution of DNA &RNA. It provides sufficient clinical references for the diagnosis, classification, prognosis judgment and recurrence monitoring of hema tumor.

Recommended data size: 3 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Hema Cancer Fusion RNA Panel	T2689V1	626.0 kb	24 rxn	PH2008285
			96 rxn	PH2008282

Gene List:

141 Fusion- related genes (Part)											
ABL1	*ABL2*	*AFDN*	*AFF1*	*ALK*	*AP2A2*	*ARID1B*	*ATF7IP*	*BCL11A*	*BCL2*	*BCL6*	*BCL9*
BCOR	*BCR*	*BCS1L*	*BIRC3*	*BMP2K*	*CALM2*	*CBFA2T3*	*CBFB*	*CDK5RAP2*	*CD28*	*CHD6*	*CPSF6*
CREBBP	*CRLF2*	*CSF1R*	*CTLA4*	*DAZAP1*	*DEK*	*EBF1*	*ELL*	*EP300*	*EPOR*	*EPS15*	*ERG*
ETV6	*EWSR1*	*FGFR1*	*FIP1L1*	*FOXJ2*	*FOXO4*	*FUS*	*GLIS2*	*GTF2I*	*HLF*	*HNRNPUL1*	*HOXA11*
HOXA13	*HOXA9*	*HOXC11*	*HOXD13*	*HRASLS5*	*IKZF1*	*IL2RB*	*IQGAP2*	*IRF2BP2*	*ITK*	*JAK2*	*KDM5A*

Lymphoma 255 Genes Panel

This product precisely covers the full length of the coding regions, hotspots and the nearby splicing sites of 255 genes related to lymphoma. Based on hybrid capture technology, it can detect multiple variations related to lymphoma efficiently. Meanwhile, cfDNA samples matched with UMI molecular tag technology can perform high-depth&sensitivity MRD detection, providing more effective evidence for the diagnosis, therapeutic effect evaluation and recurrence monitoring of lymphoma.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Lymphoma 255 Genes Panel	T2691V1hg38	513.5 kb	24 rxn	PH2008305
			96 rxn	PH2008302

Gene List:

255 Lymphoma Genes (Part)									
ACTB	*ACTG1*	*ALK*	*ARAF*	*ARID1A*	*ARID1B*	*ARID2*	*ARID3A*	*ASXL1*	*ASXL3*
ATM	*ATR*	*ATRX*	*B2M*	*BAZ2A*	*BCL2*	*BCL6*	*BCL7A*	*BCLAF1*	*BCOR*
BIRC2	*BIRC3*	*BLNK*	*BRAF*	*BRCC3*	*BTG1*	*BTG2*	*BTK*	*CARD11*	*CARMIL2*
CBL	*CCND1*	*CCND2*	*CCND3*	*CCR4*	*CCR6*	*CCR7*	*CD19*	*CD22*	*CD274*
CD28	*CD36*	*CD40LG*	*CD5*	*CD58*	*CD7*	*CD79A*	*CD79B*	*CD81*	*CDKN1B*
CDKN2A	*CDKN2B*	*CDKN2C*	*CEBPA*	*CHD2*	*CHD8*	*CHEK2*	*CIITA*	*CNOT3*	*CR2*
CREBBP	*CTCF*	*CTNNB1*	*CUX1*	*CXCR4*	*CXCR5*	*CYLD*	*DDX3X*	*DIS3*	*DNMT3A*
DTX1	*DUSP2*	*EBF1*	*EGR1*	*EGR2*	*EHD1*	*EIF4B*	*EML4*	*EP300*	*EPHA7*
ERBB3	*ETV6*	*EZH2*	*FAS*	*FBXO11*	*FBXW10*	*FBXW7*	*FGFR2*	*FGFR3*	*FOXO1*
FUBP1	*FYN*	*GAB1*	*GATA3*	*GNA12*	*GNA13*	*GNAI2*	*GNB1*	*GPR34*	*H1-2*
H1-3	*H1-4*	*H1-5*	*HEPHL1*	*HIPK1*	*HNRNPA2B1*	*ID3*	*IDH1*	*IDH2*	*IGLL5*
IKBKB	*IKZF1*	*IKZF2*	*IKZF3*	*IL2RA*	*IL2RG*	*IL7R*	*INO80*	*IRF2BP2*	*IRF4*

Lymphoma SV Panel

In high-grade B-cell lymphomas, rearrangements of genes such as MYC, BCL2 or BCL6 with the super-enhancer (IGH) is common. Although this type of structural variation does not form a specific fusion protein, it leads to oncogene over-expression/amplification due to special chromosome-level structural abnormalities, resulting in a special subgroup with high invasiveness and poor prognosis. This product replaces the traditional FISH method with probe capture, encompassing IGH switch regions involved in common structural variations and providing encryption coverage of the MTC regions of genes such as MYC, BCL2, and BCL6, bringing a basis for clinical targeted molecular typing and prognosis detection.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Lymphoma SV Panel	T2050V1	7.7 Mb	24 rxn	PH2001705
			96 rxn	PH2001702

Homologous Recombinant Repair Products

HRD Panel

This panel is developed on the basis of genetic background and efficacy data of Chinese population, effectively covering about 37,000 SNP sites of the entire genome. The panel calculates and scores genomic instability index(LOH, TAI and LST) through self-developed algorithm of iGeneTech to determine the HRD status of patients, and screens people who may benefit from platinum/PARP inhibitor drugs.

Recommended sequencing depth 500×, data size: 6 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
HRD Panel	T974V1hg38	3.9 Mb	24 rxn	PH2000975
			96 rxn	PH2000972

HRR Panel

HRR Panel covers exons and splicing regions of 39 core genes(BRCA1/2 included) in homologous recombinant repair(HRR)pathway, assisting in determination of HRD status of tumor patients and screening of patients who may benefit from platinum/PARP inhibitor drugs.

Recommended sequencing depth 1000×, data size: 0.5 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
HRR Panel	T975V1hg38	177.9 kb	24 rxn	PH2003715
			96 rxn	PH2003712

Gene List:

39 Genes											
BRCA1	*BRCA2*	*ATM*	*ATR*	*BARD1*	*BLM*	*BRIP1*	*CHEK1*	*CHEK2*	*FANCA*	*FANCC*	*FANCD2*
FANCE	*FANCF*	*FANCI*	*FANCL*	*FANCM*	*MRE11 (MRE11A)*	*NBN*	*PALB2*	*RAD50*	*RAD51*	*RAD51B*	*RAD51C*
RAD51D	*RAD52*	*RAD54L*	*RPA1*	*CDK12*	*EMSY*	*PTEN*	*SLX4*	*XRCC2*	*PPP2R2A (B55A)*	*RBBP8 (CTIP)*	*MDC1 (NFBD1)*
ABRAXAS1 (FAM175A)	*WRN*	*TP53*									

HRD & HRR Panel V2

This product can realize gene variation detection of HRR pathway, and determine patient's HRD status with combination with IGT® self-developed HRD algorithm by calculating the instability index (LOH, TAI and LST). In addition, the product can achieve an effective depth ratio of HRR to HRD Panel up to 4:1 in final capture data, which not only greatly reduces the sequencing cost of co-detection, but also provides a basis for screening people who may benefit from platinum/PARP inhibitor drugs.

Sequencing depth of HRR reaches 1200× and 300× for HRD when data size is 4 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
HRD & HRR Panel V2	T976V1hg38	4.1 Mb	24 rxn	PH2003805
			96 rxn	PH2003802

Immunology Products

HLA 6 Genes Panel

According to the IMGT/HLA database, this panel is designed to cover the full-length sequence of A, B, C genes of HLA Class I and the whole exon sequence of DRBI, DQBI, DPB1 genes of Class II. The panel can achieve 6-digit high-resolution accurate typing, can be applied to transplant matching, autoimmune disease research and pharmacogenomics, etc.

Recommened sequencing depth 1000×, data size: 0.2 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
HLA 6 Genes Panel	T2644V1	15.6 kb	24 rxn	PH2007805
			96 rxn	PH2007802

HLA 15 Genes Panel V2

According to the latest IMGT/HLA database, this panel is designed to cover the full-length sequence of HLA-A, B, C, DRB3/4/5 genes and the whole exon sequence of HLA-DRB1, DQB1, DPB1, DQA1, DPA1, DOA, DOB, DMA, DMB genes. The panel can achieve 6-digit high-resolution accurate typing for transplant matching, autoimmune disease research and pharmacogenomics. etc.

Recommened sequencing depth 1000×, data size: 1 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
HLA 15 Genes Panel V2	T2544V1	67.1 kb	24 rxn	PH2006735
			96 rxn	PH2006732

Chimerism SNP Panel NEW

This product selects 500 high MAF SNP evenly distributed on autosomes, based on a hybrid capture technology combined with molecular tag technology, it's used to detect chimerism rate in peripheral blood and bone marrow samples after allogeneic hematopoietic stem cell transplantation (Allo-HSCT). Through high-depth sequencing and molecular tag correction, it can sensitively and accurately detect the chimeric rate, evaluate the transplantation effect, identifies the risk of rejection or recurrence.

Recommened sequencing depth 20,000×, data size: 4 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Chimerism SNP Panel NEW	T3113V1	0.5 kb	24 rxn	PH2012675
			96 rxn	PH2012672

Human Immune Repertoire Products

Based on the latest IMGT data, specific primers were designed for V and J genes, CDR3 regions of TCR/BCR are amplified and diversity of sample immune repertoire was assessed at RNA level.

Recommended data size: 1 Gb / chain.

Product Name	Panel NO.	Spec.	Catalog#
MultipSeq® Human TCR Research Assay (for Illumina)*	A237V1TCR	16 rxn	M62021
		96 rxn	M62022
MultipSeq® Human TCR Research Assay (for MGI DI)*	A237V2TCR	16 rxn	M62031
		96 rxn	M62032
MultipSeq® Human BCR Research Assay (for Illumina)**	A237V1BCR	16 rxn	M62041
		96 rxn	M62042
MultipSeq® Human BCR Research Assay (for MGI DI)**	A237V2BCR	16 rxn	M62051
		96 rxn	M62052
MultipSeq® Human TCR-β Research Assay (for Illumina)	A237V1TRB	16 rxn	M62061
		96 rxn	M62062
MultipSeq® Human TCR-β Research Assay (for MGI DI)	A237V2TRB	16 rxn	M62071
		96 rxn	M62072

* TCR product includes α、β、γ and δ chains

** BCR product includes IgH、Igκ and Igλ chains

Provide customization for mouse, rat, pig, etc. of non-human immune repertoire products.

Note：CDI adapter is required to match the above-mentioned immune repertoire products corresponding to Illumina platform.

Methylation Panels

CGI Panel

This panel is designed on the basis of BisCap® methylation capture sequencing technology and the latest UCSC reference genome GRCh38 & patch sequence, with target region of 21.2 Mb covering 27,000 CpG islands and 13 published methylation markers . This panel could be used for methylation marker screening, multiple cancer early detection and MRD detection, etc.

Recommended sequencing depth 100×, data size: 10 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
CGI Panel	TB018V1hg38	21.2 Mb	24 rxn	PB3000235
			96 rxn	PB3000232

Gene List:

13 Methylation Markers											
GSTP1	*SHOX2*	*ONECUT2*	*BMP3*	*APC*	*IKZF1*	*RASSF1*	*OTX1*	*BCAT1*	*SEPT9*	*TWIST1*	*MGMT*
NDRG4											

Mouse CGI Panel NEW

As a model organism, mice play a significant role in studying epigenetics in areas such as reproduction, embryonic development, aging, and disease. The Mouse CGI Panel is designed based on BisCap® methylation capture sequencing technology and the mouse reference genome mm10 (GRCm38), targeting regions of 10.5 Mb that cover 17,017 CpG Islands.

Recommened sequencing depth 100×, data size: 2. 5 Gb.

Product Name	Panel NO.	Target area	Spec.	Catalog#
Mouse CGI Panel NEW	TB2025XV1	10.5 Mb	24 rxn	PE4000285

OmniTrait Methylation Panel NEW

OmniTrait Methylation Panel, covers 940,000 CpG sites, serving as an alternative to traditional microarrays for targeted methylation studies in areas such as reproduction, age, environmental exposure, infection, autoimmune disorders and metabolic diseases. etc.

Samples with intact DNA, such as fresh frozen tissue DNA, recommended sequencing depth 100×, data size 15 Gb.

Product Name	Panel NO.	Probe Covered Size	Spec.	Catalog#
OmniTrait Methylation Panel NEW	TB2053V1hg38	30.2 Mb	24 rxn	PE4000565

MCED Panel

Based on BisCap® methylation capture sequencing technology with a target area of 27.7kb, covering the methylation regions related with multiple cancers such as colorectal cancer, lung cancer, and gastric cancer, etc. One blood draw for simultaneous detection of multiple cancers.

Recommended data size: 0.5 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
MCED Panel	TB2032V1	27.7 kb	24 rxn	PE4000355

Gene List:

Genes Related to Multiple Cancer Early Detection											
Gastric Cancer	Pancreatic Cancer	Prostate Cancer			Colorectal Cancer	Liver Cancer	Esophagus Cancer		Lung Cancer		Ovarian Cancer
BARHL2	*CD1D*	*GSTP1*	*APC*	*RASSF1*	*SEPTIN9*	*CDO1*	*EPB41L3*	*GPX3*	*SHOX2*	*RASSF1*	Intergenic region

CpG Galaxy Panel

Based on self-developed BisCap® methylation capture sequencing technology, iGeneTech has launched the CpG Galaxy Panel, a predefined probe for methylation capture. The target region of this panel is 100.7 Mb, covers 3,080,000 CpG sites. It can be applied to the preliminary screening of CpG sites for cancer detection, as well as tumor molecular typing, complex disease research, etc.

Samples with intact DNA, such as fresh tissue DNA, recommended sequencing depth 100×, data size: 20 Gb.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
CpG Galaxy Panel	TB2015V1hg38	100.7 Mb	24 rxn	PE4000175
			96 rxn	PE4000172

Products Related to Animals and Plants

Animal Whole Exome Panels

Based on TargetSeq® hybridization capture sequencing technology and IGT® Oligo Pools synthesis platform, probes were designed for whole exome of animals and plants, covering about 30 core species, providing standardized and customized genomic solutions for agricultural breeding, gene function research, population genetic analysis, etc.

Product Name	Ref. Genome	Panel No.	Target Size	Spec.	Catalog#
Mouse Whole Exome Panel	mm39	T2171XV1	38.4 Mb	24 rxn	PH2002985
				96 rxn	PH2002982
Rat Whole Exome Panel	GRCr8	T2223XV1	38.3 Mb	24 rxn	PH2003485
				96 rxn	PH2003482
Dog Whole Exome Panel	canFam4	T2172XV1	36.0 Mb	24 rxn	PH2002995
				96 rxn	PH2002992
Cat Whole Exome Panel NEW	F.catus_ Fca126_mat1.0	T2343XV1	36.1 Mb	24 rxn	PH2004665
				96 rxn	PH2004662
Pig Whole Exome Panel	Sscrofa11.1	T2238XV1	35.8 Mb	24 rxn	PH2003635
				96 rxn	PH2003632
Domestic Cattle Whole Exome Panel	ARS-UCD2.0	T2319XV1	36.9 Mb	24 rxn	PH2004455
				96 rxn	PH2004452
Sheep Whole Exome Panel	ARS-UI_Ramb_ v3.0	T2342XV1	36.9 Mb	24 rxn	PH2004655
				96 rxn	PH2004652
Horse Whole Exome Panel NEW	TB-T2T	T2442XV1	38.1 Mb	24 rxn	PH2005715
				96 rxn	PH2005712
Rabbit Whole Exome Panel NEW	mOryCun1.1	T2441XV1	37.8 Mb	24 rxn	PH2005705
				96 rxn	PH2005702
Sika Deer Whole Exome Panel NEW	Cervus nippon	T2958XV1	34.6 Mb	24 rxn	PH2011095
				96 rxn	PH2011092
Chicken Whole Exome Panel	GRCg7b	T2318XV1	32.1 Mb	24 rxn	PH2004445
				96 rxn	PH2004442
Duck Whole Exome Panel NEW	IASCAAS_ PekinDuck_T2T	T3019XV1	32.7 Mb	24 rxn	PH2011715
				96 rxn	PH2011712
Schistocerca gregaria Whole Exome Panel	iqSchGreg1.2	T1173XV2	1 3 2 . 6 Mb	24 rxn	PH2010035
				96 rxn	PH2010032
Locusta migratoria Whole Exome Panel NEW	Locusta migratoria	T3135XV1	21.3 Mb	24 rxn	PH2012915
				96 rxn	PH2012912

Plant Whole Exome Panels

Product Name	Ref. Genome	Panel No.	Target Size	Spec.	Catalog#
Wheat Whole Exome Panel	IWGSC V2.1	T1173XV2	1 3 2 . 6 Mb	24 rxn	PH2003295
				96 rxn	PH2003292
Barley Whole Exome Panel	MorexV3	T2151XV1	37.1 Mb	24 rxn	PH2002775
				96 rxn	PH2002772
Maize Whole Exome Panel	B73 V5	T2045XV1	43.2 Mb	24 rxn	PH2001655
				96 rxn	PH2001652

Product Name	Ref. Genome	Panel No.	Target Size	Spec.	Catalog#
Japonica rice Whole Exome Panel NEW	AGIS1.0	T3415XV1	39.6 Mb	24 rxn	PH2015665
				96 rxn	PH2015662
Southern Chinese Pine Whole Exome Panel	Pinus tabuliformis	T2041XV1	103.5 Mb	24 rxn	PH2001605
				96 rxn	PH2001602
Cotton Whole Exome Panel	TM-1-T2T	T2858XV1	86.4 Mb	24 rxn	PH2010065
				96 rxn	PH2010062
Chili Whole Exome Panel NEW	UCD10Xv1.1	T2938XV1	37.8 Mb	24 rxn	PH2010885
				96 rxn	PH2010882
Tobacco Whole Exome Panel NEW	Ntab-TN90	T2894XV1	72.1 Mb	24 rxn	PH2010405
				96 rxn	PH2010402
Soybean Whole Exome Panel NEW	Glycine_max_ v4.0	T2965XV1	61.2 Mb	24 rxn	PH2011175
				96 rxn	PH2011172
Alfalfa Whole Exome Panel NEW	M. sativa cultivar Zhongmu No. 1	T3023XV1	55.5 Mb	24 rxn	PH2011755
				96 rxn	PH2011752
Peanut Whole Exome Panel NEW	Tifrunner.gnm2. J5K5	T3018XV1	87.4 Mb	24 rxn	PH2011705
				96 rxn	PH2011702

Mitochondrial Series Products of Multi-species

Based on TargetSeq® hybridization capture sequencing technology, probes are designed for full-length of mitochondrial genome of multi-species to capture the full-length mitochondrial genome.

Recommended data size: 0.5 Gb.

Product Name	Design Info. (Species + Mt Sequence)	Panel NO.	Average mt length	Spec.	Catalog#
Chordata Mitochondrial Panel	Vertebrates and invertebrates. 7,865 mt sequence in total.	T2492XV1	16.0 kb	24 rxn	PH2006245
				96 rxn	PH2006242
Arthropoda Mitochondrial Panel	Insecta, Arachnida, crustacean, etc., 6,083 mt sequence in total.	T2493XV1	16.0 kb	24 rxn	PH2006255
				96 rxn	PH2006252
Mollusca Mitochondrial Panel	Bivalves, cephalopods, gastropods, etc. 870 mt sequence in total.	T2494XV1	16.0 kb	24 rxn	PH2006265
				96 rxn	PH2006262
Viridiplantae Mitochondrial Panel	Green algae phylum, Trichota phylum, etc. 688 mt sequence in all.	T2495XV1	380.0 kb	24 rxn	PH2006275
				96 rxn	PH2006272
Fungi Mitochondrial Panel	Ascomycota, basidiomycota, Zygomycota, etc. 891 mt sequence in total.	T2477XV1	62.0 kb	24 rxn	PH2006085
				96 rxn	PH2006082
Other Classifications Mitochondrial Panel	Other mitochondria, such as protists, algae, parasites. etc. 1,817 mt sequence in total.	T2496XV1	23.0 kb	24 rxn	PH2006285
				96 rxn	PH2006282
242 Mammals Mitochondrial Panel	Primates, Carnivores, Artiodactyla, etc., 242 mt sequence in total.	T2510XV1	16.0 kb	24 rxn	PH2006415
				96 rxn	PH2006412

Panels Related to Microbiology

Pathogen-related extraction kit NEW

Magnetic Beads Based Pathogen DNA / RNA Co-Extraction Kit

This kit is suitable for isolating DNA & RNA from biological fluid samples (alveolar lavage fluid, blood, sputum, cerebrospinal fluid, swab fluid, etc.) and microbial culture samples, and the extracted microbial nucleic acid contains the nucleic acid of the host, suitable for various downstream applications, such as PCR, Real-Time PCR, metagenomic library prep and DNA/RNA co-library prep, etc.

Product Name	Spec.	Catalog#
Magnetic Beads Based Pathogen DNA / RNA Co-Extraction Kit	20 rxn	E10028
	50 rxn	E10021

Magnetic Beads Based Pathogen DNA / RNA Co-Extraction Kit（Host Removal)

This kit can efficiently remove the host nucleic acids from various types of biological liquid samples and enrich & purify the microbial nucleic acids contained therein based on nano-magnetic bead nucleic acid extraction technology. It is compatible with nucleic acid co-extraction schemes without host removal and is suitable for a variety of downstream applications, such as PCR, Real-Time PCR and metagenomic library prep, etc.

Product Name	Spec.	Catalog#
Magnetic Bead Method Pathogenic DNA/RNA Extraction Kit	50 rxn	E20011
	200 rxn	E20012

Pathogen Library Prep & Capture Kit

IGT® Pathogen Library Prep & Capture Kit is a complete second generation library prep and hybrid elution kit for pathogen whole genome capture sequencing process, including a complete set of reagents related to library prep, , hybridization elution and capture, the application of hybrid premixed liquid greatly simplified the experimental process and suitable for second generation sequencing platform such as Illumina, MGI, Sail Medical, Zhenmai Bio and etc.

Product Name	Spec.	Catalog#
IGT® DNA Pathogen Microbial Library Prep & Capture Kit（Illumina）	16 rxn	C11361
IGT® RNA Pathogen Microbial Library Prep & Capture Kit（Illumina）	16 rxn	C11371
IGT® DNA Pathogen Microbial Library Prep & Capture Kit（MGI）	16 rxn	C11431
IGT® RNA Pathogen Microbial Library Prep & Capture Kit（MGI）	16 rxn	C11441

Pathogen DNA & RNA Co-library prep & capture Kit NEW

IGT® Pathogen Microbial DNA & RNA Co-library Prep & Capture Kit enables simultaneous library prep and capture of pathogen microbial DNA and RNA in a single workflow, providing more comprehensive and high-throughput pathogen nucleic acid analysis solutions for Illumina and MGI users.

Product Name	Spec.	Catalog#
IGT® Pathogen Microbial DNA & RNA Co-library Prep & Capture Kit（Illumina）	16 rxn	C11891
IGT® Pathogen Microbial DNA & RNA Co-library Prep & Capture Kit(MGI)	16 rxn	C11901

RIT Full-Length Capture Pre-defined Panel

Product Name	Panel NO.	Spec.	Catalog#
Influenza A/B/C Virus	T921XV1	16 rxn	PH2000051
		96 rxn	PH2000052
SARS-CoV-2	T1302XV1	16 rxn	PH2001721
		96 rxn	PH2001722
Pathogenic Coronavirus	T1303XV1	16 rxn	PH2001541
		96 rxn	PH2001542
Mycoplasma Pneumoniae	T964XV1	16 rxn	PH2000031
		96 rxn	PH2000032
Human Respiratory Syncytial Virus	T1202XV1	16 rxn	PH2000701
		96 rxn	PH2000702
Haemophilus Influenzae	T1186XV1	16 rxn	PH2003791
		96 rxn	PH2003792
Bordetella Pertussis	T1192XV1	16 rxn	PH2001121
		96 rxn	PH2001122
Streptococcus pyogenes	T1193XV1	16 rxn	PH2003471
		96 rxn	PH2003472
Human Metapneumovirus	T1206XV1	16 rxn	PH2001131
		96 rxn	PH2001132
Human Parainfluenza Virus	T1219XV1	16 rxn	PH2001381
		96 rxn	PH2001382
Human Mastadenovirus	T1211XV1	16 rxn	PH2001061
		96 rxn	PH2001062
Mycobacterium Tuberculosis	T2004XV1	16 rxn	PH2001181
		96 rxn	PH2001182
Rhinovirus	T2065XV1	16 rxn	PH2001881
		96 rxn	PH2001882
Chlamydia Psittaci	T2090XV1	16 rxn	PH2002161
		96 rxn	PH2002162
Yersinia Pestis	T2025XV1	16 rxn	PH2001451
		96 rxn	PH2001452
Human Alphaherpesvirus 3/Varicella-zoster Virus	T2291XV1	16 rxn	PH2004171
		96 rxn	PH2004172
Klebsiella Pneumoniae	T2235XV1	16 rxn	PH2003601
		96 rxn	PH2003602
Acinetobacter Baumannii	T2233XV1	16 rxn	PH2003581
		96 rxn	PH2003582
Streptococcus Pneumoniae	T2234XV1	16 rxn	PH2003591
		96 rxn	PH2003592
Chlamydia Pneumoniae NEW	T2447XV1	16 rxn	PH2005771
		96 rxn	PH2005772
Chlamydia Trachomatis NEW	T2476XV1	16 rxn	PH2006071
		96 rxn	PH2006072
Legionella Pneumophila NEW	T2613XV1	16 rxn	PH2007471
		96 rxn	PH2007472
Human Bocavirus NEW	T2619XV1	16 rxn	PH2007541
		96 rxn	PH2007542

Digestive Pathogens Whole Genome Capture Panels

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
Rotavirus Panel	T1201XV1	PH2002361	PH2002362
Enterovirus Panel	T2064XV1	PH2001871	PH2001872
Vibrio Cholerae Panel	T2024XV1	PH2001441	PH2001442
Salmonella Panel	T1293XV1	PT1014321	PT1014322

Immunodeficiency Related Pathogens Whole Genome Capture Panels

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
Monkeypox Virus	T2139XV1	PH2002641	PH2002642
HIV	T1135XV2	PH2000551	PH2000552

Tumor Related Pathogens Whole Genome Capture Panels

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
HBV Panel	T2015XV1	PH2001301	PH2001302
HPV Panel	T2005XV1	PH2001191	PH2001192
EBV Panel	T2273XV1	PH2003991	PH2003992
Hepacivirus Hominis	T2180XV1	PH2003051	PH2003052
Hepatitis A & E virus	T3013XV1	PH2011651	PH2011652

Arthropod Vector Related Pathegons Whole Genome Capture Panel

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
Dengue Virus	T2107XV1	PH2002321	PH2002322
Chikungunya Virus	T2125XV1	PH2002491	PH2002492
Yellow Fever Virus	T2124XV1	PH2002481	PH2002482
Zika Virus	T2112XV1	PH2002381	PH2002382
Severe Fever with Thrombocytopenia Syndrome Virus （SFTSV)	T2294XV1	PH2004201	PH2004202
Hantaviridae *NEW*	T2622XV1	PH2007571	PH2007572

Zoonosis Related Pathogen Whole Genome Capture Panel

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
Lyssavirus Panel	T2562XV1	PH2006931	PH2006932
Streptococcus Suis	T3189XV1	PH2013471	PH2013472

Animal Disease Related Pathegons Whole Genome Capture Panel

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
African Swine Fever Virus Panel	T1038XV1	PH2000121	PH2000122

Drug Resistance Gene Panel & Virulence Factors Panel

Product Name	Panel NO.	Catalog# 16 rxn	Catalog# 96 rxn
Drug Resistance Gene Panel	T2297XV2	PH2004231	PH2004232
Virulence Factors Panel *NEW*	T2550XV1	PH2006811	PH2006812

Multiple pathogens full-length capture Panel*NEW*

Product Name	Panel NO.	Pathogens can be identified	Catalog# 16 rxn	Catalog# 96 rxn
8 Common Respiratory RNA Viruses Panel	T2429XV2	8	PH2007631	PH2007632
Pathogens：Novel Coronavirus, Common Coronavirus, Rhinovirus, Respiratory Syncytial Virus, Influenza Virus, Metapneumovirus, Parainfluenza Virus, Enterovirus.				

Product Name	Panel NO.	Pathogens can be identified	Catalog# 16 rxn	Catalog# 96 rxn
6 Sewage Pathogens Panel	T2415XV1	6	PH2005441	PH2005442
Pathogens：Influenza Virus, Novel Coronavirus, Mycoplasma Pneumoniae, Norovirus, Enterovirus, Monkeypox Virus				

Product Name	Panel NO.	Pathogens can be identified	Catalog# 16 rxn	Catalog# 96 rxn
CDC monitoring 10 Pathogens Panel	T2298XV1	10	PH2004241	PH2004242
Pathogens：Astrovirus, Mumps Virus, Measles Virus, Rubella Virus, Varicella-zoster Virus, Bocavirus Virus, Zaru Virus, New Bunya Virus, Hantavirus, Japanese Encephalitis Virus				

Products for Identification of Infectious Pathogens

MultipSeq® RTI Pathogen Research Assay

Based on MultipSeq® multiplex amplicon sequencing technology, identification kits of 92 respiratory pathogens were developed, covering common clinical pathogens and Hospital-Acquired Infection(HAI), and the detection sensitivity is significantly improved. Compared with mNGS, there is a higher data utilization rate and lower detection cost.

Product Name	Panel NO.	Pathogens can be identified	Spec.	Catalog#
MultipSeq® RTI Pathogen Research Assay	A514XV2	92 RTI Pathogens	16 rxn	PA6005281
			96 rxn	PA6005282

Pathogens list(part):

Fungi (12 in total)			
Histoplasma Capsulatum	Pneumocystis Carinii	Aspergillus terreus	Aspergillus
Aspergillus Flavus	Aspergillus Niger	Aspergillus Fumigatus	Candida Albicans et al

435 tNGS Panel

Based on TargetSeq® hybridization capture sequencing technology, 435 identification panels of common pathogens were developed, covering the majority of clinical common infectious pathogens. As an effective assisted diagnostic means, 435 tNGS Panel provides useful supplement and confirmation for clinical diagnosis. Worked with a fast mature hybridization capture system SE50, it can meet the extremely fast TAT requirements reported in 16h*.

Product Name	Panel NO.	Pathogens can be identified	Spec.	Catalog#
435 tNGS Panel	T984XV3	435 Common Pathogens	24 rxn	PH2000745
			96 rxn	PH2000742

* Sequencing time was calculated due to official DNBSEQ-G99 SE100.

Pathogens list (part):

Fungi (62 in total)			
Aspergillus	Aspergillus Flavus	Aspergillus Niger	Aspergillus Fumigatus
Blastomyces dermatitidis	Coccidioides immitis	Coccidioides posadas	Histoplasma Capsulatum
Paracoccidioides brasiliensis	Candida Albicans	Candida dubliniensis	[Candida] glabrata complex et al

Becteria (296 in total)			
Streptococcus Pneumoniae	Streptococcus Salivarius	Staphylococcus Aureus	Staphylococcus Epidermidis
Streptococcus Sanguinis	Streptococcus Pyogenes	Vibrio Cholerae	Pseudomonas Aeruginosa
Enterococcus Faecalis	Enterococcus Faecium	Lichtheimia	Mycobacterium tuberculosis
Bartonella crustox	Bartonella dogi	Bartonella Elizabethkingia	Bartonella Grahamii
Mycobacterium africanum	Mycobacterium caprae	Mycobacterium microti	Mycobacterium asiaticum et al

Viruses (77 in total)			
Herpesvirus	Mastadenovirus	Enterovirus	Rhinovirus
Coronavirus	Human Orthopneumovirus	Human Metapneumovirus	Coxsackie Virus et al

PathoScope 1358 Panel *NEW*

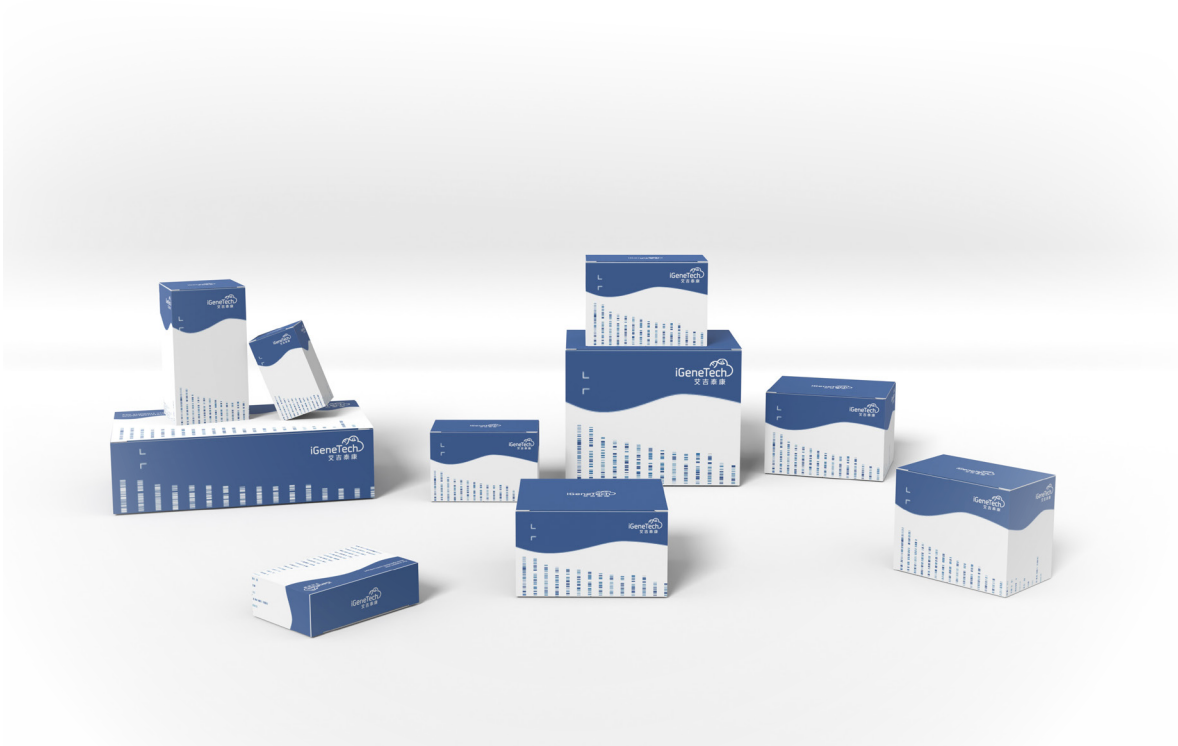
Based on TargetSeq® hybridization capture sequencing technology, 1358 pathogens identification panels were developed, covering the majority of common clinical infectious pathogens, 213 fungi, 811 becteria, 334 virus. As an effective assistant diagnostic method, PathoScope 1358 Panel provides useful supplement for clinical diagnosis. Worked with fast hybridization capture and SE50 sequencing, it can meet the extremely fast TAT requirements reported in 12h*.

Product Name	Panel NO.	Pathogens can be identified	Spec.	Catalog#
PathoScope 1358 Panel *NEW*	T2469XV1	1358 Common Pathogens	24 rxn	PH2013735
			96 rxn	PH2013732

* Worked with the GeneMind FASTAseq S series sequencers.

NGS Universal Kits

Catalog



IGT® Library Prep and Adapter Kits

IGT® Enzyme Plus Library Prep Kit

IGT® Enzyme Plus Library Prep Kit V3 is a universal enzymic DNA library prep kit. This kit has been optimized and upgraded from the previous version, integrates DNA fragmentation, end-repair and 3'end adding dA-tailing into one step, reducing erroneous repairs and connections, with a lower artifact rate. This Kit could be used for library prep for Illumina / MGI.

Product Name	Spec.	Catalog#
IGT® Enzyme Plus Library Prep Kit V3	16 rxn	C11111
	96 rxn	C11112

IGT® Fast Library Prep Kit

IGT® Fast Library Prep Kit v2.0 is a universal double-stranded DNA library prep kit for cfDNA and FFPE gDNA samples. The kit is based on T-A ligation principle with a high transformation efficiency, can meet the detection requirement of cfDNA low-frequency mutations matching MI technology.

Product Name	Spec.	Catalog#
IGT® Fast Library Prep Kit v2.0	16 rxn	C10021
	96 rxn	C10022

Long-Read Tagment DNA Library Prep Kit

IGT® Long-Read Tagment DNA Library Prep Kit is with Transposition enzyme method for third-generation whole genome library or target region hybridization capture sequencing. The kit could use 1 μg DNA as input and finish library prep within 4 h with optimized reaction system.

Product Name	Spec.	Catalog#
IGT® Long-Read Tagment DNA Library Prep Kit*	16 rxn	C10931

* Please work with NXT library-specific UDI adapter kits and blocking oligos.

RNA Library Prep Kit

IGT® Fast Stranded RNA Library Prep Kit v2.0 is for total RNA strand-specific library prep on Illumina and MGI, working together with Liquid-phase probe hybridization capture kits for RNA capture sequencing.

Product Name	Spec.	Catalog#
IGT® Fast Stranded RNA Library Prep Kit v2.0	16 rxn	C10031
	96 rxn	C10032

rRNA/Globin mRNA Removal Kit *NEW*

This product is primarily designed for RNA-seq, featuring an efficient blocking reagent specifically developed for human Globin and rRNA sequences. The Globin and rRNA blocking process can be completed in just 7 mins without additional manual intervention. Whether for disease marker mining in whole blood samples or transcriptomic diversity studies in FFPE samples, library prep can be accomplished in a "rapid, convenient and efficient" manner.

Product Name	Spec.	Catalog#
IGT® Human rRNA Pre-blocking Oligo *NEW*	16 rxn	C82071
	96 rxn	C82072
IGT® Human Globin & rRNA Pre-blocking Oligo *NEW*	16 rxn	C11791
	96 rxn	C11792

ssDNA Library Prep Kit

IGT® ssDNA Library Prep Kit is a universal single-stranded DNA library prep kit for cfDNA and FFPE gDNA samples. The kit allows adapter ligation to single strand DNA to increase utilization rate of original molecules as well as the library complexity, which has significant advantages in methyl and genomic library construction with low-starting sample.

Product Name	Spec.	Catalog#
IGT® ssDNA Library Prep Kit*	16 rxn	C10911
	96 rxn	C10912

* Please work with IGT® UDI Primer (for Illumina) and ssDNA library-specific blocking oligos.

Methyl Double-strand Library Prep Kit

IGT ® Methyl Fast Library Prep Kit v2.0 is a universal methyl library prep kit based on T-A ligation principle, by ligating corresponding methyl adapter and bisulfite treatment, Methyl library could be constructed for Illumina / MGI squencing platform.

Product Name	Spec.	Catalog#
IGT® Methyl Fast Library Prep Kit v2.0*	16 rxn	B30011
	96 rxn	B30012

* Please work with Methyl library-specific adapter kits and hyb & wash kits.

Adapter Kits for Illumina

IGT® Adapter & Primer(for Illumina) is a universal adapter reagent applies to Illumina, offering 96 types of 8nt UDI sequence & 768 types of 10nt UDI sequence, which can meet NGS polling requirements of single lane ultra-high data yield.

Product Name	Spec.	Catalog#
IGT® Adapter & UDI Primer 1-96 (for Illumina, plate)	96*1 rxn	C10042
IGT® Adapter & 10 nt UDI Primer 1-768 (for Illumina, plate)	768*1 rxn	C11282

Adapter Kits for MGI

IGT® Adapter & Primer(for MGI) is a universal adapter reagent applies to MGI, offering 384 types of UDI sequence, which can meet NGS polling requirements of single lane ultra-high data yield.

Product Name	Spec.	Catalog#
IGT® Adapter & UDI Primer 1-96 (for MGI, plate)	96*1 rxn	C10182
IGT® Adapter & UDI Primer 1-384 (for MGI, plate)	384*1 rxn	C11638

Universal Adapter Kit

IGT® Adapter & Universal 10nt UDI Primer is suitable for both Illumina and MGI (without special processing for MGI, use APP-A after library prep and then use APP-D kit).

Product Name	Spec.	Catalog#
IGT® Adapter & Universal 10nt UDI Primer 1-96	96*1 rxn	C11682
IGT® Adapter & Universal 10nt UDI Primer 1-384	384 *1 rxn	C11272

Long-Read NXT Library UDI Adapter Kit

IGT® UDI Primer 1-96 (20 μM each, for Long-Read NXT Library, tube) is a dual indexes, unique label (UDI) adapter reagent of NXT library suitable for NGS, providing 96 UDI sequences, which can meet the polling requirements of data yield on NGS platform.

Product Name	Spec.	Catalog#
IGT® UDI Primer 1-96 (20 μM each, for Long-Read NXT Library, plate)	96*1 rxn	C11002

Methyl Library UDI Adapter Kit

IGT® Methyl Adapter & Primer is a universal methylation adapter kit suitable for Illumina and MGI, providing a total of 96 Index UDI sequences, can meet NGS polling requirements of single lane ultra-high data yield.

Product Name	Spec.	Catalog#
IGT® Methyl Adapter & UDI Primer 1-96 (for Illumina, plate)	96*1 rxn	B30022
IGT® Methyl Adapter & UDI Primer 1-96 (for MGI, plate)	96*1 rxn	B30172

Purified Magnetic Beads

IGT® Pure Beads can be used in scenarios such as sample and library purification, fragment screening in NGS experiments. The magnetic beads have a stable performance and high efficiency in nucleic acid recovery.

Product Name	Spec.	Catalog#
IGT® Pure Beads	20 mL	C80661
	100 mL	C80662

TargetSeq® Hybridization Capture Kits

TargetSeq One® Hyb & Wash Kits v3.0

TargetSeq One® Hyb & Wash Kit v3.0 is developed on the hybridization capture workflow of IGT® TargetSeq One®, applicable to standard and customized DNA probes. This upgrade significantly simplifies the composition of reagents and the operation process, reducing the operation time by 1 h. In terms of product performance, the uniformity and capture efficiency have been significantly enhanced, reaching a brand-new height. This means that no matter when and where the test is conducted, the results are accurate and reliable, and the data is stable and consistent.

Product Name	Spec.	Catalog#
TargetSeq One® Hyb & Wash Kit v3.0 (for Illumina)	24 rxn	C11534
	96 rxn	C11532
TargetSeq One® Hyb & Wash Kit v3.0 (for MGI DI)	24 rxn	C11544
	96 rxn	C11542

TargetSeq One® Hyb & Wash Kits v2.0

TargetSeq One® Hyb & Wash Kit v2.0 is developed on the hybridization capture workflow of IGT® TargetSeq One®, applicable to standard and customized RNA/DNA probes. The kit is compatible with RNA/DNA probes from other manufacturers with a stable performance. There are 2 versions due to different adaption library.

Product Name	Spec.	Catalog#
TargetSeq One® Hyb & Wash Kit v2.0 (for Illumina)	24 rxn	C10334
	96 rxn	C10332
TargetSeq One® Hyb & Wash Kit v2.0 (for MGI DI)	24 rxn	C10354
	96 rxn	C10352

BisCap® Hyb & Wash Kit

TargetSeq One® BisCap® Hyb & Wash Kit is applicable to TargetSeq One® BisCap® methyl hybridization capture workflow for standard and customized BisCap® RNA/DNA probes. There are 3 versions due to different adaptation library.

Product Name	Spec.	Catalog#
TargetSeq One® BisCap® Hyb & Wash Kit with Eco Universal Blocking Oligo (for Illumina)	24 rxn	B30334
	96 rxn	B30332
TargetSeq One® BisCap® Hyb & Wash Kit with Eco Universal Blocking Oligo (for MGI DI)	24 rxn	B30354
	96 rxn	B30352
TargetSeq One® BisCap® Hyb & Wash Kit with Eco Universal Blocking Oligo(for Illumina ssDNA)	24 rxn	B30364
	96 rxn	B30362

Magnetic Beads for Capture

TargetSeq® Cap Beads & Nuclease-Free Water is a kit of Streptavidin magnetic beads and Nuclease-free water, applicable to TargetSeq® hybridization capture workflow.

Product Name	Spec.	Catalog#
TargetSeq® Cap Beads & Nuclease-Free Water	24 rxn	C10424
	5 mL each	C10422
	50 mL each	C10423

Universal Blocking Oligo

TargetSeq® Universal Blocking Oligo is applicable to TargetSeq® hybridization capture workflow, can block library adapters to improve the target reads capture ratio. iGeneTech offers two types of universal blocking oligo kits, among which TargetSeq® Eco Universal Blocking oligo can block libraries up to 6 μg, and 12 μg for TargetSeq® Universal Blocking Oligo. Please be noted that there are multiple versions which adapt to different library structures and cannot be shared.

Product Name	Spec.	Catalog#
TargetSeq® Eco Universal Blocking Oligo (for Illumina)	24 rxn	C80504
	96 rxn	C80502
TargetSeq® Eco Universal Blocking Oligo (for Illumina NXT)	24 rxn	C80514
	96 rxn	C80512
TargetSeq® Eco Universal Blocking Oligo (for Illumina ssDNA Library)	24 rxn	C80794
	96 rxn	C80792
TargetSeq® Eco Universal Blocking Oligo (for MGI DI)	24 rxn	C80534
	96 rxn	C80532
TargetSeq® Universal Blocking Oligo (for Illumina)	24 rxn	C80494
	96 rxn	C80492
TargetSeq® Universal Blocking Oligo (for MGI DI)	24 rxn	C80524
	96 rxn	C80522

MultipSeq® Multiplex Amplicon Library Prep Kits

MultipSeq® Multiplex Amplicon Library Prep Kits

MultipSeq® Library Prep Kit V2 series are applicable to MultipSeq® multiplex amplicon library prep on Illumina & MGI, including 2 versions matching one-tube & two-tube amplification. Ensure it's the right version matches corresponding MultipSeq® Primer Pool before use.

Product Name	Spec.	Catalog#
MultipSeq® Library Prep Kit V2 (100)	96 rxn	M61122
MultipSeq® Library Prep Kit V2 (200)	96 rxn	M61132

Indexed Primer for Illumina

IGT Indexed Primer (for Illumina) is an adapter kit suitable for MultipSeq® multiplex amplicon library prep on Illumina, containing 786 UDI adapter sequences, can meet the pooling requirements of ultra-high data yield per lane on high-throughput sequencing platforms. Please select the corresponding Indexed Primer for experiments based on the predefined or cutomized MultiSeq® Primer Pool of different sequencing platforms.

Product Name	Spec.	Catalog#
IGT® UDI Primer 1-96 (10 μM each, for Illumina, plate)	96*1 rxn	C80202
IGT® Universal 10nt UDI Primer 1-96 (10 μM each, plate)	96*1 rxn	C81252
IGT® Universal 10nt UDI Primer 1-384 (10 μM each, plate)	384*1 rxn	C11264
IGT® 10nt UDI Primer 1-768 (10 μM each, for Illumina, plate)	768*1 rxn	C11649

Indexed Primer for MGI

IGT Indexed Primer (for MGI) is an adapter kit suitable for MultipSeq® multiplex amplicon library prep on MGI, containing 384 UDI adapter sequences, can meet the pooling requirements of ultra-high data yield per lane on high-throughput sequencing platforms.

Product Name	Spec.	Catalog#
IGT® UDI Primer 1-96 (10 μM each, for MGI, plate)	96*1 rxn	C80332
IGT® UDI Primer 1-384 (10 μM each, for MGI, plate)	384*1 rxn	C11658

Extraction Kits

Product Name	Spec.	Catalog#
Magnetic Beads Based Large Volume Circulating Free DNA Extraction Kit	20 rxn	E10018
	50 rxn	E10011
Magnetic Beads Based Pathogen DNA/RNA Co-extraction Kit	20 rxn	E10028
	50 rxn	E10021
Magnetic Beads Based Pathogen DNA/RNA Co-Extraction Kit (Host Removal)	50 rxn	E20011
	200 rxn	E20012
Magnetic Beads Based Universal Nucleic Acid Extraction Kit	50 rxn	E10211
	200 rxn	E10212
Magnetic Beads Based FFPE DNA/RNA Co-Extraction Kit	50 rxn	E10061
	200 rxn	E10062
Magnetic Beads Based FFPE RNA Extraction Kit	50 rxn	E20031
	200 rxn	E20032
Magnetic Beads Based Tissue Nucleic Acid Co-Extraction Kit	50 rxn	E20041
	200 rxn	E20042
Magnetic Beads Based DNA/RNA Product Purification Kit	50 rxn	E10131
	200 rxn	E10132
Magnetic Beads Based Soil and Fecal Nucleic Acids Extraction Kit	50 rxn	E10141
	200 rxn	E10142
Magnetic Beads Based Blood Nucleic Acids Rapid Extraction Kit	50 rxn	E10151
	200 rxn	E10152
Magnetic Beads Based Formaldehyde Tissue Nucleic Acid Extraction Kit	50 rxn	E10161
	200 rxn	E10162
Magnetic Beads Based Viral Nucleic Acid Rapid Extraction Kit	50 rxn	E10171
	200 rxn	E10172
Magnetic Beads Based Blood RNA Extraction Kit	50 rxn	E20021

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