



BiOMolDs®

Next Generation Sequencing Product Catalog

Comprehensive NGS Panels, Library Prep & Extraction Solutions

Human Genomics

Exome · Genetic
Methylation

Oncology Panels

Solid · Blood Tumor
HRD & Lymphoma

Immunology

HLA · TCR/BCR
Chimerism

Microbiology

1358 Pathogens
tNGS · PathoScope

11

Categories

100+

Panels

30+

Species

1358

Pathogens

1. AIExome® Human Exome Panel Series

Pre-defined target region probe products · TargetSeq® hybridization capture

AIExome® Human Exome Panel V5

Designed on GRCh38 + latest patch sequences. Covers ~34.7 Mb CDS regions with ultra-comprehensive protein coding coverage (RefSeq, CCDS, GENCODE). All 7,144 exomes <30 bp fully covered.

Recommended: 100× / 8 Gb

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

AIExome® Human Exome Panel V5 – Inherit

Built on V5 with ClinVar disease mutation sites, complete mitochondrial genome capture, and high-density SNP backbones (200 kb genome-wide / 10 kb ClinGen) for comprehensive SNP, InDel, and CNV detection.

Recommended: 100× / 11 Gb

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

AIExome® Human Exome Panel V5 – Tumor

Expanded from V5 with enhanced probe coverage of 641 tumor-related genes (mutation hotspots), introns of 38 hotspot fusion genes, 15 MSI loci, HLA 15 genes, HRD genomic backbone, and full-length mitochondria.

Recommended: 200× / 20 Gb · hotspot area >800×

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

AIExome® Human Exome Panel V3 – Research

Based on V3 with increased intron, UTR, non-coding probe coverage, full-length mitochondria, and high GC-region coverage (TERT promoter, CEBPA). Even exon coverage for PKD1, CHEK2, CYP21A2.

Recommended: 100× / 14 Gb

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

2. Genetic-related Products

Genotyping · DMD · Carrier Screening · Medical Exome

AIExome® Human Medical Exome

Covers CDS of 5,019 OMIM disease-related genes with special probes for SMN1/2, DMD, CYP2D6, CYP21A2, PKD1, HBA1/HBA2/HBB (thalassemia) and ClinVar pathogenic/drug-response variants.

Recommended: 100× / 4 Gb

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

Human 630K Genotyping Panel

NGS genotyping for 630,000 common human SNP loci via hybrid capture. Applicable to genetic disease, complex disease, pharmacogenomics, and East Asian population genetics.

Recommended: 30× / 4 Gb

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

LR-DMD Panel

Full-length probe design for the DMD gene (~2.2 Mb, Dystrophin) with probe density 0.2x. Combined with long-fragment sequencing detects large deletions/duplications, small nucleotide variants, and InDels.

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

Carrier Screening Panel

CDS regions of 216 genes per ACMG carrier screening and ASCO germline gene testing guidelines. Screens hereditary tumors, cardiovascular diseases, metabolic defects, and systemic genetic diseases.

Recommended: 150× / 0.5 Gb

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

3. Human Mitochondrial & Forensic Science Products

Human Mitochondrial Panel

Hybrid capture probes for full-length mitochondrial genome (16,569 bp). Can be added as a module to other panels.

Recommended: 5000× / 0.2 Gb

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

Human Mitochondrial Primer Pool (Illumina TS)

MultipSeq® amplicon sequencing primers for full-length mitochondrial genome (16,569 bp).

Recommended: 5000× / 0.2 Gb

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

186 Forensic STR Panel (Illumina TS)

MultipSeq® panels for 186 STR loci: 89 Y chromosomes, 66 autosomes, 31 X chromosomes, and gender recognition loci. China DNA database compatible.

Recommended: >=250 bp / 0.5 M Reads

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

4. Solid Tumor-related Products

Pan-Cancer · RNA Fusion · Mid Panel · NSCLC · BRCA · MRD

Pan-Cancer Panel V2

641 genes for solid tumor targeted therapy & susceptibility + 38 hotspot fusion intron regions + 15 MSI loci. Detects SNV, fusion, CNV, InDel, TMB, and MSI in a single assay.

Recommended: 500× / 3 Gb

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

Solid Tumor Fusion RNA Panel

Coding regions of 298 common fusion gene transcripts + UTR regions. RNA-level fusion, variation, and gene expression for tumor diagnosis, genotyping, and monitoring.

Recommended: 4 Gb data

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

Solid Tumor Mid Panel

122 coding regions + introns of 10 hotspot fusion genes + 19 classical MSI loci + 219 chemotherapy sites. Streamlined mid-size panel for diverse detection requirements.

Recommended: 1000× / 1.5 Gb

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

Core Genes Fusion RNA Panel

Transcript coding regions of 90 common tumor fusion genes + UTR regions. Detects fusions, variations, and gene expression at RNA level.

Recommended: 3 Gb data

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

NSCLC Panel V2

23 NCCN-recommended NSCLC treatment-related genes. Whole exon regions + hotspot fusion regions for BRAF, ALK, RET, ROS1, MET Exon 14 skipping. Detects mutation, fusion, CNV, InDel in one assay.

Recommended: 1000× / 1 Gb

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

BRCA1/2 Primer Pool V2

Exon regions of BRCA1/2 + ClinVar non-exon region loci. Detects point mutations and InDels for hereditary breast and ovarian cancer diagnosis, screening, and risk prediction.

Recommended: 2000× / 0.15 Gb

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

Tumor-informed MRD Research Kit v2.0

Complete MRD hybrid capture reagent set (capture reagent, blocking sequence, capture magnetic beads). Pairs with free customized MRD Panel for cost-effective, high-stability MRD detection.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
Tumor-informed MRD Research Kit v2.0 (Illumina)	—	—	24 rxn	C11594
Tumor-informed MRD Research Kit v2.0 (Illumina)	—	—	96 rxn	C11592

Cancer Reference Standards

Product Name	Form	Spec.	Catalog#
Cancer gDNA Reference Standard	gDNA	30 ng/uL, 1 ug/Tube	PCS500
RNA Fusion Mix 3.0	RNA	50 ng/uL, 1 ug/Tube	MD07361
Cancer FFPE Reference Standard (5% VAF)	FFPE	1 wax-sealed/tube	MD320
MRD ctDNA Reference Standard	cfDNA	20 ng/uL, 500 ng/tube	MD080719

5. Hematological Tumor Products

Leukemia · AML MRD · FLT3-ITD · BCR-ABL1 · TP53 · RNA Exome

Leukemia 383 Genes Panel

Full-length coding regions, hotspots, and important non-coding regions of 383 leukemia-related genes. Provides diagnostic classification, prognosis stratification, medication guidance, and dynamic monitoring.

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

AML MRD Panel (NEW)

Focuses on AML prognosis target regions (FLT3 ITD, NPM1, etc.). Molecular labeling + enzymatic digestion library prep for high-sensitivity MRD detection of SNV, InDel, and SV.

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

FLT3-ITD Primer Pool (Illumina TS)

Detects known and unknown ITD mutations on exons 14-15. Multiplex amplicon sequencing; intron 13 to exon 15 targeted. Improves sensitivity through random amplification.

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

BCR-ABL1 Primer Pool (Illumina TS)

Detects BCR-ABL1 kinase domain mutations associated with resistance to Imatinib, Nilotinib, and Dasatinib in CML patients. Recommended by ELN and NCCN guidelines.

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

TP53 Primer Pool (Illumina TS)

CDS regions of TP53 gene for efficient NGS-based mutation detection. Enables individual tumor genetic carriage assessment.

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

Hema Cancer Fusion RNA Panel

141 common fusion master genes (KMT2A, RARA, NUP98, etc.) in hematological tumors. Combinable with DNA mutation detection for dual DNA & RNA solution.

Recommended: 3 Gb data

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

RNA Exome

CDS of entire transcripts with fusion-related UTR regions and exon boundary edge probes. Removes rRNA and globin. Cancer gene fusion detection and rare disease research.

Product Name	Panel NO.	Target Size	Spec.	Catalog#
RNA Exome	T2582V1	46.3 Mb	24 rxn	PH2007125
RNA Exome	T2582V1	46.3 Mb	96 rxn	PH2007122

6. HRD & Homologous Recombinant Repair Products

HRD Panel · HRR Panel · HRD&HRR; V2 · Lymphoma Panels

HRD Panel

Based on Chinese population genetic background. Covers ~37,000 SNP sites genome-wide. Calculates genomic instability index (LOH, TAI, LST) to determine HRD status and screen platinum/PARP inhibitor candidates.

Recommended: 500x / 6 Gb

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

HRR Panel

Exons and splicing regions of 39 core genes (BRCA1/2 included) in the HRR pathway. Determines HRD status and screens platinum/PARP inhibitor candidates.

Recommended: 1000x / 0.5 Gb

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

HRD & HRR Panel V2

Combined HRR gene variation detection + HRD status determination. HRR:HRD effective depth ratio 4:1 (HRR 1200x / HRD 300x at 4 Gb). Greatly reduces co-detection sequencing cost.

Recommended: 4 Gb · HRR 1200x / HRD 300x

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

Lymphoma 255 Genes Panel

Full-length coding regions, hotspots, and splicing sites of 255 lymphoma-related genes. Compatible with cfDNA + UMI for high-depth/sensitivity MRD detection.

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

Lymphoma SV Panel

Replaces traditional FISH for structural variation detection. Covers IGH switch regions and MTC regions of MYC, BCL2, BCL6 for clinical targeted molecular typing and prognosis.

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

7. Immunology Products

HLA Genotyping · TCR/BCR Immune Repertoire · Chimerism Detection

HLA 6 Genes Panel

Per IMGT/HLA database. Full-length A, B, C (Class I) + whole exon DRB1, DQB1, DPB1 (Class II). 6-digit high-resolution typing for transplant matching, autoimmune disease research, pharmacogenomics.

Recommended: 1000× / 0.2 Gb

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

HLA 15 Genes Panel V2

Latest IMGT/HLA database. Full-length HLA-A, B, C, DRB3/4/5 + whole exon HLA-DRB1, DQB1, DPB1, DQA1, DPA1, DOA, DOB, DMA, DMB. 6-digit high-resolution typing.

Recommended: 1000× / 1 Gb

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

Chimerism SNP Panel (NEW)

500 high-MAF autosomal loci. Hybrid capture + UMI for chimerism detection post Allo-HSCT. Captures chimeric state, judges transplantation effect, identifies rejection/recurrence risk.

Recommended: 20,000× / 4 Gb

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

Human Immune Repertoire Products (MultipSeq®)

IMGT-based specific primers for V and J genes. CDR3 regions of TCR/BCR amplified and immune repertoire diversity assessed at RNA level. Recommended: 1 Gb/chain. Custom non-human species available.

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

8. Methylation Panels

BisCap® Technology · CGI · CpG Galaxy · MCED · OmniTrait · Mouse CGI

CGI Panel

BisCap® methylation capture + UCSC GRCh38. Covers 27,000 CpG islands and 13 published methylation markers. Methylation marker screening, multiple cancer early detection, and MRD detection.

Recommended: 100× / 10 Gb

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

CpG Galaxy Panel

BisCap® technology. 100.7 Mb target covering 3,080,000 CpG sites. CpG site screening for cancer detection, tumor molecular typing, and complex disease research.

Recommended: 100× / 20 Gb (fresh tissue DNA)

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

MCED Panel (Multi-Cancer Early Detection)

BisCap® 27.7 kb target. Covers methylation regions for colorectal, lung, gastric, pancreatic, prostate, liver, esophageal, and ovarian cancers. One blood draw for simultaneous multi-cancer detection.

Recommended: 0.5 Gb data

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

Mouse CGI Panel (NEW)

BisCap® + mouse reference genome mm10 (GRCm38). Covers 17,017 CpG Islands in 10.5 Mb. Epigenetics research in reproduction, embryonic development, aging, and disease.

Recommended: 100× / 2.5 Gb

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

OmniTrait Methylation Panel (NEW)

30.2 Mb covering 940,000 CpG sites. Alternative to traditional solid-phase microarrays for targeted methylation studies in reproduction, age, environmental exposure, autoimmune, and metabolic diseases.

Recommended: 100× / 15 Gb (fresh tissue DNA)

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

9. Products Related to Animals & Plants

~30 species · Animal Exome · Plant Exome · Mitochondrial Series

Based on TargetSeq® hybridization capture sequencing technology and IGT® Oligo Pools synthesis platform. Provides standardized and customized genomic solutions for agricultural breeding, gene function research, and population genetic analysis.

Animal Whole Exome Panels

Product Name	Ref. Genome	Panel NO.	Target Size	Catalog# (24/96 rxn)
Mouse Whole Exome Panel	mm39	T2171XV1	38.4 Mb	PH2002985 / PH2002982
Rat Whole Exome Panel	GRCr8	T2223XV1	38.3 Mb	PH2003485 / PH2003482
Dog Whole Exome Panel	canFam4	T2172XV1	36.0 Mb	PH2002995 / PH2002992
Cat Whole Exome Panel NEW	F.catus_Fca126_mat1.0	T2343XV1	36.1 Mb	PH2004665 / PH2004662
Pig Whole Exome Panel	Sscrofa11.1	T2238XV1	35.8 Mb	PH2003635 / PH2003632
Domestic Cattle Whole Exome Panel	ARS-UCD2.0	T2319XV1	36.9 Mb	PH2004455 / PH2004452
Sheep Whole Exome Panel	ARS-UI_Ramb_v3.0	T2342XV1	36.9 Mb	PH2004655 / PH2004652
Horse Whole Exome Panel NEW	TB-T2T	T2442XV1	38.1 Mb	PH2005715 / PH2005712
Rabbit Whole Exome Panel NEW	mOryCun1.1	T2441XV1	37.8 Mb	PH2005705 / PH2005702
Sika Deer Whole Exome Panel NEW	Cervus nippon	T2958XV1	34.6 Mb	PH2011095 / PH2011092
Chicken Whole Exome Panel	GRCg7b	T2318XV1	32.1 Mb	PH2004445 / PH2004442
Duck Whole Exome Panel NEW	IASCAAS_PekinDuck_T2T	T3019XV1	32.7 Mb	PH2011715 / PH2011712
Locusta migratoria Whole Exome Panel NEW	Locusta migratoria	T3135XV1	21.3 Mb	PH2012915 / PH2012912

Plant Whole Exome Panels

Product Name	Ref. Genome	Panel NO.	Target Size	Catalog# (24/96 rxn)
Wheat Whole Exome Panel	IWGSC V2.1	T1173XV2	132.6 Mb	PH2003295 / PH2003292
Barley Whole Exome Panel	MorexV3	T2151XV1	37.1 Mb	PH2002775 / PH2002772
Maize Whole Exome Panel	B73 V5	T2045XV1	43.2 Mb	PH2001655 / PH2001652
Japonica Rice Whole Exome Panel NEW	AGIS1.0	T3415XV1	39.6 Mb	PH2015665 / PH2015662
Cotton Whole Exome Panel	TM-1-T2T	T2858XV1	86.4 Mb	PH2010065 / PH2010062
Chili Whole Exome Panel NEW	UCD10Xv1.1	T2938XV1	37.8 Mb	PH2010885 / PH2010882
Tobacco Whole Exome Panel NEW	Ntab-TN90	T2894XV1	72.1 Mb	PH2010405 / PH2010402
Soybean Whole Exome Panel NEW	Glycine_max_v4.0	T2965XV1	61.2 Mb	PH2011175 / PH2011172
Alfalfa Whole Exome Panel NEW	M. sativa Zhongmu No.1	T3023XV1	55.5 Mb	PH2011755 / PH2011752
Peanut Whole Exome Panel NEW	Tifrunner.gnm2.J5K5	T3018XV1	87.4 Mb	PH2011705 / PH2011702

Mitochondrial Series — Multi-species

Product Name	Coverage	Panel NO.	Avg mt len	Catalog# (24/96 rxn)
Chordata Mitochondrial Panel	Vertebrates & invertebrates (7,865 mt seq.)	T2492XV1	16.0 kb	PH2006245 / PH2006242
Arthropoda Mitochondrial Panel	Insecta, Arachnida, crustacean (6,083 mt seq.)	T2493XV1	16.0 kb	PH2006255 / PH2006252
Mollusca Mitochondrial Panel	Bivalves, cephalopods, gastropods (870 mt seq.)	T2494XV1	16.0 kb	PH2006265 / PH2006262
Viridiplantae Mitochondrial Panel	Green algae, Trichota (688 mt seq.)	T2495XV1	380.0 kb	PH2006275 / PH2006272
Fungi Mitochondrial Panel	Ascomycota, basidiomycota (891 mt seq.)	T2477XV1	62.0 kb	PH2006085 / PH2006082
242 Mammals Mitochondrial Panel	Primates, Carnivores, Artiodactyla (242 mt seq.)	T2510XV1	16.0 kb	PH2006415 / PH2006412

10. Panels Related to Microbiology

Pathogen Extraction · Library Prep · RIT Capture · tNGS · PathoScope 1358

Pathogen Extraction & Library Prep Kits

Product Name	Spec.	Catalog#
Magnetic Beads Based Pathogen DNA/RNA Co-Extraction Kit	20 rxn	E10028
Magnetic Beads Based Pathogen DNA/RNA Co-Extraction Kit	50 rxn	E10021
Magnetic Beads Based Pathogen DNA/RNA Co-Extraction Kit (Host Removal)	50 rxn	E20011
Magnetic Beads Based Pathogen DNA/RNA Co-Extraction Kit (Host Removal)	200 rxn	E20012
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
IGT® Pathogen DNA & RNA Co-library Prep & Capture Kit (Illumina) NEW	16 rxn	C11891
IGT® Pathogen DNA & RNA Co-library Prep & Capture Kit (MGI) NEW	16 rxn	C11901

RIT Full-Length Capture Pre-defined Panels

Pathogen	Panel NO.	Catalog# (16/96 rxn)
Influenza A/B/C Virus	T921XV1	PH2000051 / PH2000052
SARS-CoV-2	T1302XV1	PH2001721 / PH2001722
Pathogenic Coronavirus	T1303XV1	PH2001541 / PH2001542
Mycoplasma Pneumoniae	T964XV1	PH2000031 / PH2000032
Human Respiratory Syncytial Virus	T1202XV1	PH2000701 / PH2000702
Haemophilus Influenzae	T1186XV1	PH2003791 / PH2003792
Bordetella Pertussis	T1192XV1	PH2001121 / PH2001122
Human Metapneumovirus	T1206XV1	PH2001131 / PH2001132
Human Parainfluenza Virus	T1219XV1	PH2001381 / PH2001382
Mycobacterium Tuberculosis	T2004XV1	PH2001181 / PH2001182
Rhinovirus	T2065XV1	PH2001881 / PH2001882
Klebsiella Pneumoniae	T2235XV1	PH2003601 / PH2003602
Acinetobacter Baumannii	T2233XV1	PH2003581 / PH2003582
Streptococcus Pneumoniae	T2234XV1	PH2003591 / PH2003592
Chlamydia Pneumoniae NEW	T2447XV1	PH2005771 / PH2005772
Chlamydia Trachomatis NEW	T2476XV1	PH2006071 / PH2006072
Legionella Pneumophila NEW	T2613XV1	PH2007471 / PH2007472
Human Bocavirus NEW	T2619XV1	PH2007541 / PH2007542
Monkeypox Virus	T2139XV1	PH2002641 / PH2002642

Pathogen	Panel NO.	Catalog# (16/96 rxn)
HIV	T1135XV2	PH2000551 / PH2000552
HBV Panel	T2015XV1	PH2001301 / PH2001302
HPV Panel	T2005XV1	PH2001191 / PH2001192
EBV Panel	T2273XV1	PH2003991 / PH2003992
Dengue Virus	T2107XV1	PH2002321 / PH2002322
Zika Virus	T2112XV1	PH2002381 / PH2002382
Drug Resistance Gene Panel	T2297XV2	PH2004231 / PH2004232
Virulence Factors Panel NEW	T2550XV1	PH2006811 / PH2006812
African Swine Fever Virus Panel	T1038XV1	PH2000121 / PH2000122

Multiplex Pathogen Identification Panels

Product Name	Panel NO.	Pathogens	Spec.	Catalog#
8 Common Respiratory RNA Viruses Panel	T2429XV2	8	16/96 rxn	PH2007631 / PH2007632
6 Sewage Pathogens Panel	T2415XV1	6	16/96 rxn	PH2005441 / PH2005442
CDC Monitoring 10 Pathogens Panel	T2298XV1	10	16/96 rxn	PH2004241 / PH2004242
MultipSeq® RTI Pathogen Research Assay	A514XV2	92	16/96 rxn	PA6005281 / PA6005282
435 tNGS Panel	T984XV3	435	24/96 rxn	PH2000745 / PH2000742
PathoScope 1358 Panel NEW	T2469XV1	1358	24/96 rxn	PH2013735 / PH2013732

11. NGS Universal Kits

Library Prep · Adapters · Hybridization Capture · MultipSeq® · Extraction

IGT® Library Prep Kits

Product Name	Spec.	Catalog#
IGT® Enzyme Plus Library Prep Kit V3 (Illumina/MGI)	16 / 96 rxn	C11111 / C11112
IGT® Fast Library Prep Kit v2.0 (cfDNA/FFPE)	16 / 96 rxn	C10021 / C10022
IGT® Long-Read Tagment DNA Library Prep Kit	16 rxn	C10931
IGT® Fast Stranded RNA Library Prep Kit v2.0	16 / 96 rxn	C10031 / C10032
IGT® ssDNA Library Prep Kit (cfDNA/FFPE)	16 / 96 rxn	C10911 / C10912
IGT® Methyl Fast Library Prep Kit v2.0	16 / 96 rxn	B30011 / B30012
IGT® Human rRNA Pre-blocking Oligo NEW	16 / 96 rxn	C82071 / C82072
IGT® Human Globin & rRNA Pre-blocking Oligo NEW	16 / 96 rxn	C11791 / C11792

Adapter Kits

Product Name	Spec.	Catalog#
IGT® Adapter & UDI Primer 1-96 (Illumina, plate)	96x1 rxn	C10042
IGT® Adapter & 10nt UDI Primer 1-768 (Illumina, plate)	768x1 rxn	C11282
IGT® Adapter & UDI Primer 1-96 (MGI, plate)	96x1 rxn	C10182
IGT® Adapter & UDI Primer 1-384 (MGI, plate)	384x1 rxn	C11638
IGT® UMI Adapter & UDI Primer 1-96 (Illumina)	96x1 rxn	C10092
IGT® UMI Adapter & UDI Primer 1-96 (MGI)	96x1 rxn	C10232
IGT® Methyl Adapter & UDI Primer 1-96 (Illumina)	96x1 rxn	B30022
IGT® Methyl Adapter & UDI Primer 1-96 (MGI)	96x1 rxn	B30172
IGT® Pure Beads (purification)	20 mL / 100 mL	C80661 / C80662

TargetSeq® Hybridization Capture Kits

Product Name	Spec.	Catalog#
TargetSeq One® Hyb & Wash Kit v3.0 (Illumina)	24 / 96 rxn	C11534 / C11532
TargetSeq One® Hyb & Wash Kit v3.0 (MGI DI)	24 / 96 rxn	C11544 / C11542
TargetSeq One® Hyb & Wash Kit v2.0 (Illumina)	24 / 96 rxn	C10334 / C10332
TargetSeq One® Hyb & Wash Kit v2.0 (MGI DI)	24 / 96 rxn	C10354 / C10352
BisCap® Hyb & Wash Kit with Eco Blocking Oligo (Illumina)	24 / 96 rxn	B30334 / B30332
BisCap® Hyb & Wash Kit with Eco Blocking Oligo (MGI DI)	24 / 96 rxn	B30354 / B30352
TargetSeq® Cap Beads & Nuclease-Free Water	24 rxn	C10424
TargetSeq® Eco Universal Blocking Oligo (Illumina)	24 / 96 rxn	C80504 / C80502
TargetSeq® Eco Universal Blocking Oligo (MGI DI)	24 / 96 rxn	C80534 / C80532

Extraction Kits

Product Name	Spec.	Catalog#
Large Volume Circulating Free DNA Extraction Kit	20 / 50 rxn	E10018 / E10011
Universal Nucleic Acid Extraction Kit	50 / 200 rxn	E10211 / E10212
FFPE DNA/RNA Co-Extraction Kit	50 / 200 rxn	E10061 / E10062
FFPE RNA Extraction Kit	50 / 200 rxn	E20031 / E20032
Tissue Nucleic Acid Co-Extraction Kit	50 / 200 rxn	E20041 / E20042
DNA/RNA Product Purification Kit	50 / 200 rxn	E10131 / E10132
Soil and Fecal Nucleic Acids Extraction Kit	50 / 200 rxn	E10141 / E10142
Blood Nucleic Acids Rapid Extraction Kit	50 / 200 rxn	E10151 / E10152
Viral Nucleic Acid Rapid Extraction Kit	50 / 200 rxn	E10171 / E10172
Blood RNA Extraction Kit	50 rxn	E20021

Contact & Ordering

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