

1st PhileKorea, Inc. (주)필코리아테크놀로지

# CONTENTS

## NEW ENGLAND BioLabs

NEBNext NGS Library Preparation Kits and Reagents .....	6
Nucleic Acid Purification, PCR / qPCR Amplification & Cloning .....	11

## 대용량 유전자 발현량 분석 시스템

nanoString nCounter Analysis System .....	12
nanoString GeoMx™ Digital Spatial Profiler .....	15

## NGS Sequencer

The GenapSys™ Sequencing Platform .....	18
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## CRISPR : Genome Editing

SYNTHEGO : CRISPR Kit & Genome Engineering Service .....	20
--	----

## Nucleic Acid Extraction System

세포 및 조직 파쇄기 : taco™ Prep Bead Beater .....	22
Magnetic Bead 추출 시스템 : taco™ Nucleic Acid Automatic Extraction System .....	22
Large Sample Volume 추출 시스템 : iColumn LV System .....	23
컬럼방식 자동화 핵산추출기기 시리즈 .....	24
eCube Extraction Kit .....	26

## Automated Electrophoresis System

Qsep Bio-Fragment Analyzer .....	27
----------------------------------	----

## UV / Vis Spectrophotometer & Fluorometer

DeNovix Spectrophotometers & Fluorometers .....	28
Fluorescence Quantification Assays .....	29

## Protein Assay

INSTANT NanoBiosensors INB-D200 .....	30
Absorbance 96 세계 극소형 정밀 ELISA 리더 .....	31

## PCR & qPCR System

Block Cycling System : Super Cyclor .....	32
An Intelligent Liquid Handling System : Myra .....	33
qPCR Cyclor : MIC, Magnetic Induction Cyclor .....	34
qPCR Cyclor : Azure Cielo™ Real-Time PCR .....	35
Insulated Isothermal PCR (iiPCR) : POCKIT™ Series .....	36
Primer, Probe and Custom Oligo 합성 : LGC BIOSEARCHTECH .....	37
PCR & qPCR Reagent : PKT & NEB Products .....	38

## Imaging Workstation

ENDURO™ Gel Documentation System	37
Azure 200 Gel Documentation System	37
Azure's Imaging Systems	40
Sapphire™ Biomolecular Imager THE NEXT GENERATION OF LASER-BASED IMAGING	41

## Western Blot Related Products

Azure Aqua™ Vertical Gel Running System	42
Protein Electrophoresis & Blotting System : Cavoy Products	43
Automated Western Blot Development : BlotCycler™ Touch	43
Western Blot Detection Reagent : Advansta	44

## Cell Culture Kit

저산소 세포 배양 키트	45
ICCP (Interactive Co-Culture Plate)	46

## Automated Cell Counter

Image Based Cell Counter : CellDrop	47
Coulter Principle Mini Cell Counter : Moxi Z	48
Coulter Principle Flow Cytometer : Moxi Go 532 & Moxi Go II	48

## 특화 시약 및 장비

DNA Methylation Assays : METHYLDTECT	49
Cloning, In vitro Transcription, Array, Competent Cells and Transposon : Lucigen Epicentre	51
Plant Specific Product : Phyto Technology	55

## Lab Instrument

Mini-EP Mini Electrophoresis System	56
Tube Roller : CO-02 / CO-02S	56
EcoMate Multi-Well Plate Centrifuge	57
Mini Centrifuge : Cubee	57
Mini Vortex : MTV-1	57

## Myriad Genetics

Molecular Diagnostic Tests	58
Genetic Cancer Tests	59

## qPCR Related Software

tatabiocenter	60
---------------	----

## 서비스

Novogene NGS Service	61
나노스트링 및 qPCR 서비스	62



# NEB 한국공식대리점 (주) 필코리아테크놀로지

## OEM & Customized Solutions

Life science product & technology developing with Customized Solutions Team



Collaborative R&D

### Collaborative R&D

When working with NEB, you will have access to our array of resources, including a cross-functional team of scientists who have the know-how to optimize your product, and a knowledgeable support team with over 20 years of expertise in customizing reagents for our partners. As an example, NEB scientists collaborated with the Center for Disease Control (CDC) to develop a Zika assay based on reverse transcription loop-mediated isothermal amplification (RT-LAMP).



Product Design & Packaging

### Product Design & Packaging

NEB's team of Project Managers and Support Staff will work with you to help transition your product from concept and idea to deliverable. We offer product customization to meet your specific needs, including formulations with user-defined concentrations, multiple enzyme mixes or product without additives, such as BSA or glycerol. We can also customize quality controls, volumes, packaging and offer private labeling.



Quality & Specifications

### Quality & Specifications

With ISO 13485:2003 and ISO 9001:2008 certified facilities, NEB delivers industry-leading product purity and lot-to-lot consistency. Our ISO 13485 certification closely aligns NEB's quality systems with the principles used by GMP manufacturers. Further, NEB's QA/QC program exceeds the requirements we have based on ISO 9001 and 13485 quality management standards. Our Quality Control group is constantly improving the stringency and range of NEB's quality controls.



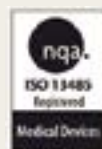
Supply Chain Optimization

### Supply Chain Optimization & Vendor-Managed Inventory

When you collaborate with NEB, you are getting much more than a high quality product in a tube. Over 45 years of experience in the design and manufacture of reagents and a uniquely collaborative work ethic are all part of doing business with us. We are agile, and can respond quickly to your needs now, and as you scale your business. Once your technology is ready, we can engage with your manufacturing and operations teams to help you build a robust supply chain of our materials.

NEB Solutions 팀은 고객과 협력하여 다음과 같은 작업을 수행합니다.

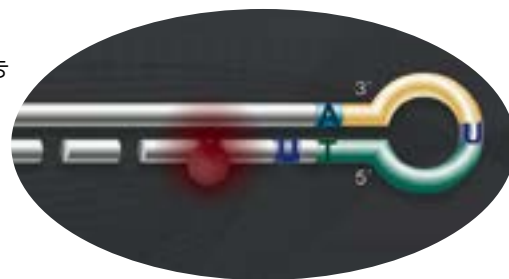
- 주요 원재료의 유효성 확인
- 고객 맞춤형 제품 사양 개발, QC / QA 분석 및 완벽한 제품보증
- 워크 플로우 요구 사항을 충족시키는 바코드 제품 (1-D 및 2-D)
- ISO 13485 : 2003 인증 기관으로 분자 진단 제조 요구 사항 충족
- 규정 준수 요구 사항 지원



# NEBNext NGS Library Preparation Kits and Reagents

## Product Features

- Stem-loop structure adaptor technology로 high yield library 제작 가능
- Lower amount를 이용한 high quality의 library 제작 가능
- 최소한의 handling 및 fast workflow : 2~3 hrs
- Library 제작 단계에 따른 reagent 개별 구매 가능



## Product List

### DNA Library Prep

#### 1) For Illumina Prep Kit

Cat. No	Product	Size
E7645	NEBNext® Ultra II DNA Library Prep Kit for Illumina	96 / 24 rxns
E7103	NEBNext® Ultra II DNA Library Prep with Sample Purification Beads	96 / 24 rxns
E7805	NEBNext® Ultra II FS DNA Library Prep Kit for Illumina	96 / 24 rxns
E6177	NEBNext® Ultra II FS DNA Library Prep with Sample Purification Beads	96 / 24 rxns
E2612	NEBNext® Microbiome DNA Enrichment Kit	24 / 6 rxns

#### 2) For Ion Torrent Prep Kit

E6270L	NEBNext® Fast DNA Library Prep Set for Ion Torrent	50 rxns
E6285L	NEBNext® Fast DNA Fragmentation and Library Prep Set for Ion Torrent	50 rxns

#### 3) For Methyl-seq

E7120	NEBNext® Enzymatic Methyl-seq Kit	96 / 24 rxns
E7140	NEBNext® Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs)	96 / 24 rxns

### RNA Library Prep

#### 1) rRNA Depletion / mRNA Enrichment

Cat. No	Product	Size
E6310	NEBNext® rRNA Depletion Kit (Human / Mouse / Rat)	96 / 24 / 6 rxns
E6350	NEBNext® rRNA Depletion Kit (Human / Mouse / Rat) with RNA Sample Purification Beads	96 / 24 / 6 rxns
E7750	NEBNext® Globin & rRNA Depletion Kit	96 / 24 / 6 rxns
E7755	NEBNext® Globin & rRNA Depletion Kit (Human / Mouse / Rat) with RNA Sample Purification Beads	96 / 24 / 6 rxns
E7850	NEBNext® rRNA Depletion Kit (Bacteria)	96 / 24 / 6 rxns
E7860	NEBNext® rRNA Depletion Kit (Bacteria) with RNA Sample Purification Beads	96 / 24 / 6 rxns
E7490	NEBNext® Poly(A) mRNA Magnetic Isolation Module	96 / 24 rxns

#### 2) Directional RNA Library Prep Kit

E7760	NEBNext® Ultra II Directional RNA Library Prep Kit for Illumina	96 / 24 rxns
E7765	NEBNext® Ultra II Directional RNA Library Prep with Sample Purification Beads	96 / 24 rxns
E7420	NEBNext® Ultra Directional RNA Library Prep Kit for Illumina	96 / 24 rxns

#### 3) Non-directional RNA Library Prep Kit

E7770	NEBNext® Ultra II RNA Library Prep Kit for Illumina	96 / 24 rxns
E7775	NEBNext® Ultra II RNA Library Prep with Sample Purification Beads	96 / 24 rxns
E7530	NEBNext® Ultra RNA Library Prep Kit for Illumina	96 / 24 rxns

#### 4) Small RNA Library Prep

E7300	NEBNext® Multiplex Small RNA Library Prep Set for Illumina (Set 1)	96 / 24 rxns
E7580	NEBNext® Multiplex Small RNA Library Prep Set for Illumina (Set 2)	96 / 24 rxns
E7560	NEBNext® Multiplex Small RNA Library Prep Kit for Illumina (Index Primers 1-48)	96 rxns
E7330	NEBNext® Small RNA Library Prep Set for Illumina (Multiplex Compatible)	96 / 24 rxns

#### 5) Single Cell/Low Input RNA Library Prep Kit

E6420	NEBNext® Single Cell / Low Input RNA Library Prep Kit for Illumina	96 / 24 rxns
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# NEBNext NGS Library Preparation Kits and Reagents

## Target Enrichment

Cat. No	Product	Size
E7000	NEBNext® Direct Cancer HotSpot Panel	96 / 24 / 8 rxns
E6627	NEBNext® Direct BRCA1 / BRCA2 Panel	96 / 24 / 8 rxns
E6631	NEBNext® Direct Custom Ready Panels	96 / 24 / 8 rxns

\* 상세 내용 7-8 페이지 참조

## Modules & Enzymes

### 1) for DNA

Cat. No	Product	Size
M6630	NEBNext® FFPE DNA Repair Mix	96 / 24 rxns
E7125	NEBNext® Enzymatic Methyl-seq Conversion Module	96 / 24 rxns
E7810	NEBNext® Ultra II FS DNA Module	96 / 24 rxns
E7546	NEBNext® Ultra II End Repair / dA-Tailing Module	96 / 24 rxns
E7595	NEBNext® Ultra II Ligation Module	96 / 24 rxns
M0544	NEBNext® Ultra II Q5 Master Mix	250 / 50 rxns
E7442	NEBNext® Ultra End Repair / dA-Tailing Module	96 / 24 rxns
E7445	NEBNext® Ultra Ligation Module	96 / 24 rxns
E6050	NEBNext® End Repair Module	100 / 20 rxns
E6053	NEBNext® dA-Tailing Module	100 / 20 rxns
E6056	NEBNext® Quick Ligation Module	100 / 20 rxns
M0543	NEBNext® Q5 Hot Start HiFi PCR Master Mix	250 / 50 rxns
M0541	NEBNext® High-Fidelity 2X PCR Master Mix	250 / 50 rxns
M0597	NEBNext® Q5U Master Mix	250 / 50 rxns
M0348	NEBNext® dsDNA Fragmentase	250 / 50 rxns
B0349S	NEBNext® dsDNA Fragmentase Reaction Buffer v2	6 ml

### 2) for RNA

E6150S	NEBNext® Magnesium RNA Fragmentation Module	200 rxns
E7771	NEBNext® Ultra II RNA First Strand Synthesis Module	96 / 24 rxns
E7550	NEBNext® Ultra II Directional RNA Second Strand Synthesis Module	96 / 24 rxns
E6111	NEBNext® Ultra II Non-directional RNA Second Strand Synthesis Module	100 / 20 rxns
E7525	NEBNext® RNA First Strand Synthesis Module	96 / 24 rxns
E6421	NEBNext® Single Cell / Low Input cDNA Synthesis and Amplification Module	96 / 24 rxns
E5530S	NEBNext® Single Cell Lysis Module	96 rxns

## Adaptors & Primers

Cat. No	Product	Size
E6609	NEBNext® Multiplex Oligos for Illumina (96 Index Primers)	384 / 96 rxns
E6440	NEBNext® Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs)	384 / 96 rxns
E6442	NEBNext® Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 2)	384 / 96 rxns
E7600S	NEBNext® Multiplex Oligos for Illumina (Dual Index Primers Set 1)	96 rxns
E7780S	NEBNext® Multiplex Oligos for Illumina (Dual Index Primers Set 2)	96 rxns
E7335	NEBNext® Multiplex Oligos for Illumina (Index Primers Set 1)	96 / 24 rxns
E7500	NEBNext® Multiplex Oligos for Illumina (Index Primers Set 2)	96 / 24 rxns
E7710	NEBNext® Multiplex Oligos for Illumina (Index Primers Set 3)	96 / 24 rxns
E7730	NEBNext® Multiplex Oligos for Illumina (Index Primers Set 4)	96 / 24 rxns
E7535	NEBNext® Multiplex Oligos for Illumina (Methylated Adaptor, Index Primers Set 1)	96 / 24 rxns
B1430S	NEBNext® Adaptor Dilution Buffer	9.6 ml

## Library quantitation

Cat. No	Product	Size
E7630	NEBNext® Library Quant Kit for Illumina	500 / 100 rxns
B6118S	NEBNext® Library Dilution Buffer	7.5 ml

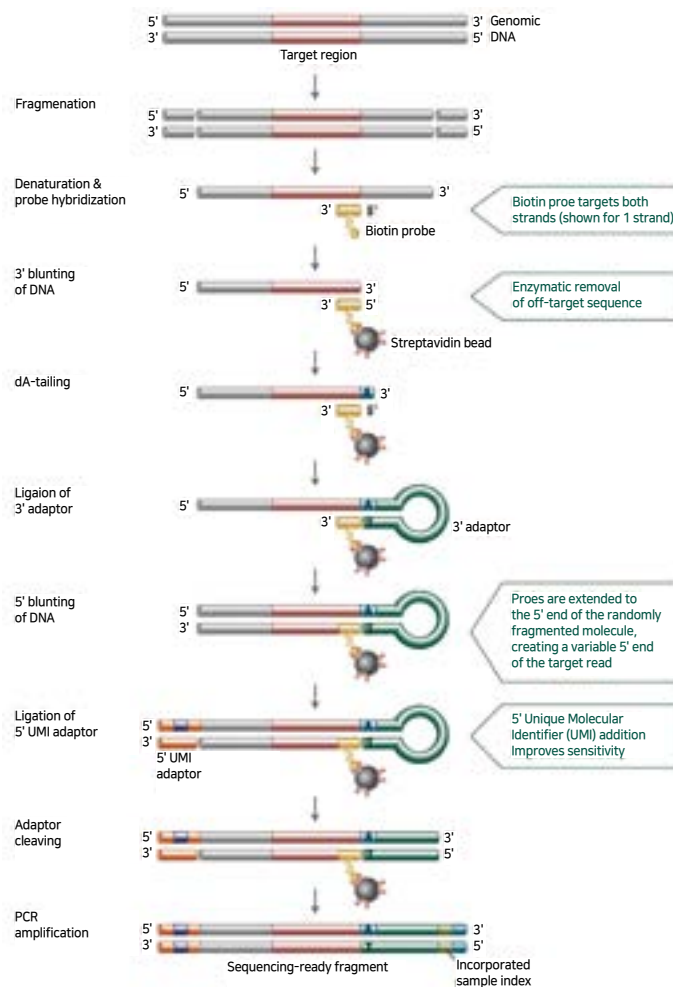
## Magnetic separation

Cat. No	Product	Size
S1515S	NEBNext® Magnetic Separation Rack	24 tubes

# NEBNext NGS Library Preparation Kits and Reagents

## ● Product Features : NEBNext Target Enrichment

- Hybridization-based enrichment 방식을 이용하여 target specificity 증가
- 기존의 Hybridization 방식과 달리 pre-hybridization 방식을 이용한 Direct enrichment library kit
- NEB 만의 특별한 enzymatic removal 방식을 이용하여 Off-target 비율을 최소화
- NEB 만의 특별한 coverage profile을 이용하여 coverage uniformity를 최대화
- Single target 부터 > 1.5 Mb 이상의 target territory에 대해 bait 제작 가능
- Pre-made panel kit 뿐 아니라 Pre-designed custom ready panel, custom design panel 제작 가능
- Unique Molecular Identifier (UMI)를 이용하여 민감도 향상
- 1 day workflow



< NEBNext Direct Workflow >

## ● NEBNext Direct Cancer HotSpot Panel Gene List

ABL1	EGFR	GNAQ	KRAS	PTPN11
AKT1	ERBB2	GNAS	MET	RB1
ALK	ERBB4	HNF1A	MLH1	RET
APC	EZH2	HRAS	MPL	SMAD4
ATM	FBXW7	IDH1	NOTCH1	SMARCB1
BRAF	FGFR1	IDH2	NPM1	SMO
CDH1	FGFR2	JAK2	NRAS	SRC
CDKN2A	FGFR3	JAK3	PDGFRA	STK11
CSF1R	FLT3	KDR	PIK3CA	TP53
CTNNB1	GNA11	KIT	PTEN	VHL

# NEBNext NGS Library Preparation Kits and Reagents

## NEBNext Direct Custom Ready Panel Gene List

A	BCL10	CD82	DES	ETV4	GAA	HSP90AA1	MPZ	OTC	PRPF8	RPS7	SOX2	TP53
AARS	BCL11B	CD83	DHX29	ETV5	GABRA6	HSPB1	MRE11A	<b>P</b>	PRPS1	RPTOR	SOX9	TP63
ABCC9	BCL2	CDC73	DICER1	ETV6	GADD45B	<b>K</b>	MSH2	PAG1	PRSS1	RSP02	SPEN	TPM1
ABL1	BCL2L1	CDH1	DIS3L2	EWSR1	GALNT12	KMT2C	MSH3	PAK3	PRSS8	RUNX1	SPINK1	TPM2
ABL2	BCL2L2	CDH2	DKC1	EXO1	GAN	KMT2D	MSH6	PALB2	PRX	RUNX1T1	SPOP	TPM3
ACD	BCL6	CDH4	DMD	EXOSC6	GARS	KRAS	MSR1	PALLD	PTCH1	RYR1	SPRED1	TRAF2
ACTA1	BCL7A	CDK12	DNAJB2	EXT1	GATA1	<b>L</b>	MTM1	PARK2	PTCH2	RYR2	SPTA1	TRAF3
ACTA2	BCOR	CDK4	DNAJB6	EXT2	GATA2	LAMA2	MTMR2	PASK	PTEN	<b>S</b>	SPTLC2	TRAF5
ACTB	BCORL1	CDK6	DNM2	EZH2	GATA3	LAMA4	MTOR	PAX5	PTPN1	S1PR2	SRC	TRIM32
ACTC1	BICD2	CDK8	DNMT1	<b>F</b>	GATA4	LAMP2	MUC16	PBRM1	PTPN11	SBDS	SRCAP	TRPV4
ACTN2	BIN1	CDKN1A	DNMT3A	FAF1	GATA6	LARGE	MUTYH	PBX1	PTPN2	SBF2	SRSF2	TRPV5
ACVR1B	BIRC3	CDKN1B	DNMT3B	FAM134B	GATAD1	LDB1	MXI1	PC	PTPN6	SCN1B	STAG2	TSC1
ADA	BIRC6	CDKN1C	DOCK8	FAM175A	GDAP1	LDB3	MYBPC3	PCBP1	PTPRC	SCN3B	STAT3	TSC2
AIP	BLM	CDKN2A	DOT1L	FAM46C	GDNF	LDLR	MYC	PCL0	PTPRD	SCN4A	STAT4	TSHR
AK2	BMPR1A	CDKN2B	DPM1	FANCA	GID4	LEF1	MYCL	PCSK9	PTPRO	SCN4B	STAT5A	TTR
AKAP9	BRAF	CDKN2C	DPM2	FANCB	GJB1	LIG4	MYCN	PDCD1	PYGM	SCN5A	STAT5B	TUSC3
AKT1	BRCA1	CEBPA	DPM3	FANCC	GLA	LITAF	MYD88	PDCD11	<b>Q &amp; R</b>	SCN9A	STAT6	TYK2
AKT2	BRCA2	CEP112	DPYD	FANCD2	GLI1	LMNA	MYH10	PDCD1LG2	QKI	SDHA	STIM1	TYR
AKT3	BRD2	CEP57	DSC2	FANCE	GMPPB	LMO1	MYH11	PDGFRA	RAB35	SDHAF2	STK11	TYRP1
ALK	BRD3	CFL2	DSG2	FANCF	GNA11	LRP1B	MYH7	PDGRB	RAB7A	SDHB	STXBP5	<b>U</b>
ALMS1	BRD4	CFTR	DSP	FANCG	GNA12	LRRFIP2	MYL2	PDK1	RAC1	SDHC	SUFU	U2AF2
AMER1	BRIP1	CHD1	DTNA	FANCI	GNA13	LRRK2	MYL3	PDLIM3	RAC2	SDHD	SUZ12	UBA1
ANK2	BRSK1	CHD2	DTX1	FANCL	GNAQ	LRSAM1	MYLK	PEX2	RAD21	SEPN1	SYK	UGT1A1
ANKRD1	BSCL2	CHD4	DUSP2	FANCM	GNAS	LTN1	MYLK2	PHF21A	RAD50	SERP2	SYNE1	UTP6
ANO5	BTG1	CHEK1	DUSP9	FAS	GNB1	LYN	MYO18A	PHF6	RAD51	SET	<b>T</b>	<b>V</b>
APC	BTG2	CHEK2	DVL3	FBN1	GNF	LZTR1	MYOT	PHIP	RAD51C	SETBP1	TAF1	VCL
APH1A	BTK	CHKB	DYNC1H1	FBXO11	GPC3	<b>M</b>	MYO22	PHKA1	RAD51D	SETD2	TANC2	VCP
APOA4	BTLA	CIC	<b>E</b>	FBXO31	GPD1L	MAF	MYPN	PHOX2B	RAF1	SF3A1	TAZ	VHL
APOA5	BTNL2	CIITA	EBF1	FBXO7	GPR124	MAFB	<b>N</b>	PICK1	RAG1	SF3B1	TBL1XR1	VRK1
APOB	BUB1B	CKS1B	ECT2L	FBXW7	GREM1	MAGED1	NBN	PIGA	RANGRF	SGCA	TBX1	<b>W</b>
APOC2	<b>C</b>	CLCN1	EED	FGD4	GRIN2A	MAG1	NCOR2	PIK3C2B	RARA	SGCB	TBX3	WAS
AR	CACNA1C	CNTN1	EGFR	FGF10	GRM3	MAG2	NCSTN	PIK3CB	RARB	SGCD	TCAP	WDR90
ARAF	CACNA1S	COL3A1	EGLN1	FGF14	GRM8	MALT1	NEBL	PIK3CG	RASAL1	SGCG	TCF12	WHSC1
ARFRP1	CACNA2D1	COL6A1	EGR2	FGF19	GSK3B	MAP2K1	NEFL	PIK3R1	RASGEF1A	SGK1	TCF3	WISP3
ARHGAP26	CACNB2	COL6A3	ELAC1	FGF23	GTSE1	MAP2K4	NEXN	PIK3R2	RASSF1	SH2B3	TCL1A	WNK1
ARID1A	CAD	CORO1A	ELAC2	FGF3	<b>H</b>	MAP3K1	NF1	PIM1	RB1	SH3TC2	TERC	WRN
ARID1B	CALR	CPS1	ELP2	FGF4	H3F3A	MAP3K14	NF2	PKHD1	RBM10	SHOC2	TERF2IP	WT1
ARID2	CALR3	CREBBP	EMD	FGF6	H3F3B	MAP3K6	NFE2L2	PKP2	RECQL4	SIL1	TERT	<b>X</b>
ASIP	CAPN3	CRKL	EMSY	FGFR1	HCN4	MAP3K7	NFIB	PLCG2	REEP1	SLC12A6	TERTP	XBP1
ASMTL	CARD11	CRLF2	ENG	FGFR2	HDAC1	MAPK1	NFKBIA	PLEC	RELN	SLC52A2	TET2	XPA
ASXL1	CASQ2	CRYAB	EP300	FGFR3	HDAC4	MAX	NGF	PLEKHG5	RET	SLIT2	TFG	XPC
ATL1	CASR	CSF1R	EP400	FGFR4	HDAC7	MC1R	NHEJ1	PLN	RFFL	SLTM	TGFBR1	XPO1
ATM	CAV3	CSF3R	EPCAM	FH	HGF	MCL1	NHP2	PMS1	RFX7	SLX4	TGFBR2	XRCC2
ATP2A1	CBFB	CSRP3	EPHA3	FHIT	HINT1	MDH2	NKX2-1	PMS2	RHBDF2	SMAD2	TINF2	XRCC3
ATP7A	CBL	CTCF	EPHA5	FHL1	HIST1H1C	MDM2	NOD1	PNP	RHEB	SMAD3	TLL2	<b>Y</b>
ATP7B	CBS	CTNNA1	EPHA7	FIG4	HIST1H1D	MDM4	NOP10	POLD1	RHOA	SMAD4	TMEM127	YARS
ATR	CCND1	CTNNB1	EPHB1	FKRP	HIST1H1E	MED12	NOTCH1	POLE	RICTOR	SMARCA1	TMEM30A	YLPM1
ATRX	CCND2	CTRC	ERBB2	FKTN	HIST1H2AC	MEF2B	NOTCH2	POLH	RINT1	SMARCA4	TMEM43	YTHDC1
AURKA	CCND3	CUL1	ERBB3	FLCN	HIST1H2AG	MEF2C	NOTCH3	POMGNT1	RIT1	SMARCB1	TMEM5	YY1AP1
AURKB	CCNE1	CUL3	ERBB4	FLNC	HIST1H2AL	MEGF10	NPM1	POMT1	RNASEL	SMARCE1	TMPO	<b>Z</b>
AXIN1	CCT6B	CUX1	ERCC1	FLT1	HIST1H2AM	MEN1	NRAS	POMT2	RNF2	SMC1A	TMPRSS2	ZAP70
AXIN2	CD22	CXCR4	ERCC2	FLT3	HIST1H2BC	MET	NSD1	POT1	RNF38	SMC3	TNFAIP3	ZBTB2
AXL	CD247	CYLD	ERCC3	FLT4	HIST1H2BJ	MFN2	NT5C2	PPM1D	RNF43	SMO	TNFRSF11A	ZBTB33
<b>B</b>	CD274	<b>D</b>	ERCC4	FOXL2	HIST1H2BK	MGA	NTHL1	PPP2R1A	ROS1	SMOX	TNFRSF14	ZFHX3
B2M	CD36	DAG1	ERCC5	FOXN1	HIST1H2BO	MIB1	NTRK1	PRDM1	RPL11	SNCAIP	TNFRSF17	ZMYM3
B3GALNT2	CD3D	DAXX	ERG	FOXO1	HIST1H3B	MITF	NTRK2	PREX2	RPL26	SNTA1	TNNC1	ZNF217
B3GNT1	CD3E	DCLRE1C	ERRF1	FOXP1	HNF1A	MK167	NTRK3	PRF1	RPL35A	SOCS1	TNNT1	ZNF24
BAG3	CD58	DDB2	ESR1	FRS2	HNF1B	MLH1	NUP93	PRKAG2	RPL5	SOCS2	TNNT2	ZNF318
BAI3	CD70	DDR2	ETNK1	FUBP1	HOXB13	MLH3	NUP98	PRKAR1A	RPS19	SOCS3	TNPO3	ZNF703
BAP1	CD79A	DDX3X	ETS1	FZR1	HRAS	MORC3	<b>O</b>	PRKCI	RPS24	SOS1	TOP1	ZNRF3
BARD1	CD79B	DDX41	ETV1	<b>G</b>	HSD3B1	MPL	ORAI1	PRPF40B	RPS26	SOX10	TOP2A	ZRSR2



# Nucleic Acid Purification, PCR/qPCR Amplification & Cloning

## Monarch Nucleic Acid Purification Kits\*

Cat. No	Product	Size
T2010	Monarch® Total RNA Miniprep Kit	50 rxns
S1550	Magnetic mRNA Isolation Kit	25 rxns
T2030	Monarch® RNA Cleanup Kit (10 µg)	10 / 100 rxns
T2040	Monarch® RNA Cleanup Kit (50 µg)	10 / 100 rxns
T2050	Monarch® RNA Cleanup Kit (500 µg)	10 / 100 rxns
T3010	Monarch® Genomic DNA Purification Kit	50 / 150 rxns
T1020	Monarch® DNA Gel Extraction Kit	50 / 250 rxns
T1010	Monarch® Plasmid Miniprep Kit	50 / 250 rxns
T1030	Monarch® PCR & DNA Cleanup Kit (5 µg)	50 / 250 rxns

\* 각 제품별 소모품 별도 구매 가능

## Luna qPCR & RT-qPCR Products\*\*

Cat. No	Product	Size
E3010	LunaScript RT SuperMix Kit	25 / 100 rxns
M3003	Luna® Universal qPCR Master Mix	200 / 500 / 1,000 / 2,500 rxns
M3005	Luna® Universal One-Step RT-qPCR Kit	200 / 500 / 1,000 / 2,500 rxns
M3004	Luna® Universal Probe qPCR Master Mix	200 / 500 / 1,000 / 2,500 rxns
E3006	Luna® Universal Probe One-Step RT-qPCR Kit	200 / 500 / 1,000 / 2,500 rxns
E3030S	Luna® Cell Ready One-Step RT-qPCR Kit	100 rxns
E3031S	Luna® Cell Ready Probe One-Step RT-qPCR Kit	100 rxns
E3032S	Luna® Cell Ready Lysis Module	100 rxns

\*\* Bulk 제품 상담

## PCR & Amplification Products

Cat. No	Product	Size
M0492	Q5 High-Fidelity 2X Master Mix	100 / 500 rxns
M0491	Q5 High-Fidelity DNA Polymerase	100 / 500 rxns
E0555	Q5 High-Fidelity PCR Kit	50 / 200 rxns
M0480	OneTaq DNA Polymerase (5,000 units/ml)	200 / 1,000 / 5,000 units
M0482	OneTaq 2X Master Mix with Standard Buffer	100 / 500 rxns
M0486	OneTaq Quick-Load 2X Master Mix with Standard Buffer	100 / 500 rxns
E5310S	OneTaq RT-PCR Kit	30 rxns
E5315S	OneTaq One-Step RT-PCR Kit	30 rxns
E6560	ProtoScript II First Strand cDNA Synthesis Kit	30 / 150 rxns
M0368	ProtoScript II Reverse Transcriptase (200,000 units/ml)	4,000 / 10,000 / 40,000 units
E1700	WarmStart® LAMP Kit (DNA & RNA)	100 / 500 rxns
M0380	WarmStart® RTx Reverse Transcriptase	50 / 250 rxns

## Assembly Cloning

Cat. No	Product	Size
E2621	NEBuilder HiFi DNA Assembly Master Mix	10 / 50 / 250 rxns
E2611	Gibson Assembly Master Mix	10 / 50 rxns
E1601	NEB Golden Gate Assembly Mix	20 / 100 rxns
E0546S	BioBrick Assembly Kit	50 rxns

## PCR Cloning

Cat. No	Product	Size
E1202S	NEB PCR Cloning Kit	20 rxns
E0554S	Q5 Site-Directed Mutagenesis Kit	10 rxns

# nanoString nCounter Analysis System

## Product Features

- No Amplification
- No Enzyme bias
- Intact / degradation 된 total RNA 사용 가능
- 높은 Multiplex 효율
- 1~800 개 유전자 동시 분석
- 다양한 application
- mRNA / miRNA / Single cell / CNV assay / Protein
- 다양한 Sample type 및 Species에 적용 가능
- Cell, Tissue, Blood, FFPE tissue
- Human, Animal, Plant, Microbial
- Easy to use
- 초간단 Workflow, 재현성 높은 결과 도출
- DNA, RNA & Protein을 동시에 800 개 까지 Profiling

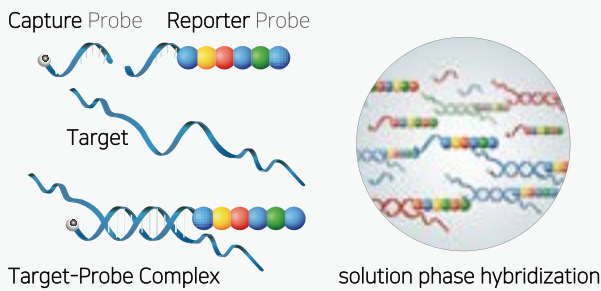
nanoString

Faster than qPCR, simpler than NGS



## Target molecule과 Gene-specified color-coded barcode의 hybridization을 통한 Direct Count

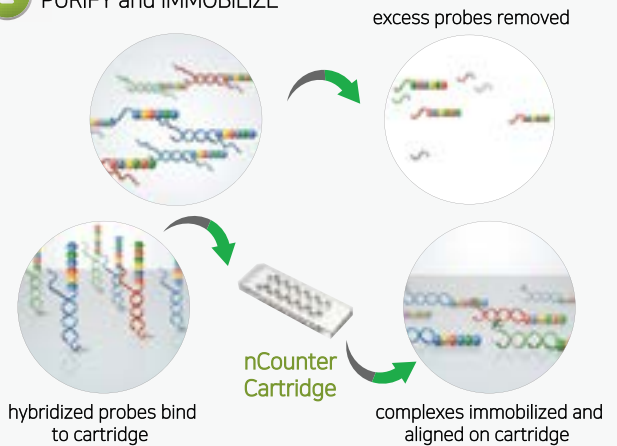
### 1 HYBRIDIZE



#### Hybridization

Barcoded probes hybridize directly to a target molecule in solution. The Reporter Probe carries the signal and the Capture Probe allows the complex to be immobilized for data collection.

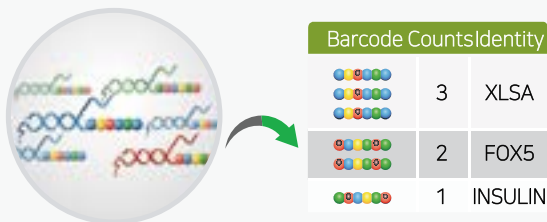
### 2 PURIFY and IMMOBILIZE



#### Sample Processing

After hybridization, samples are transferred to the Prep Station where excess probes are removed and probe/target complexes are bound, immobilized and aligned on the nCounter Cartridge.

### 3 COUNT



#### Digital Data Acquisition

Sample cartridges are placed in the Digital Analyzer for data collection. Barcodes are counted and tabulated for each target molecule.

# nanoString nCounter Analysis System

## Specifications



nCounter SPRINT



nCounter MAX / FLEX

Level of multiplexing	Up to 800 targets	
Amount of starting material (Dependent on assay and sample type)	RNA : 1 ng~50 ng	
	DNA : 5 ng~300 ng	
	Protein : 250 ng~2.5 µg	
Sample types supported	Total RNA, cell lysates in GITC, FFPE-derived total RNA, and PAXgene-lysed whole blood	
Fold change sensitivity	> 1.5-fold (if > 5 copies per cell)	
	> 2-fold (if > 1 copy per cell)	
Spike correlation	$R^2 \geq 0.95$	
Linear dynamic range	$6 \times 10$ total counts	
Throughput	12 lanes per 6 hours	12 lanes per 2.5 hours for Prep Station
		12 samples per 2.7 hours for Digital Analyzer

## Application

### Gene Expression

Analyze up to 800 genes simultaneously in purified RNA, cell lysates, or FFPE tissue.



### Single Cell Analysis

Obtain single cell sensitivity with reverse transcription and limited amplification.



### RNA:Protein Profiling

Measure RNA and protein simultaneously for true multi-omic data.



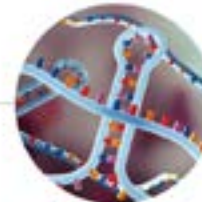
### miRNA Expression

Profile miRBase high confidence and published clinical miRNAs.



### miRGE Expression

Profile miRNA and mRNA expression simultaneously with one CodeSet.



### Copy Number Variation

Quantify multi-allelic CNVs with minimal hands-on time.



### ChIP-String Assays

Skip the hassle of library prep and amplification when analyzing ChIP'd material.



### Fusion Gene Analysis

Find breakpoint locations and specific junction sequences.



# nanoString nCounter Analysis System

## nCOUNTER PANEL SPECIFICATIONS

GENE EXPRESSION PANELS	NO. OF GENES
PanCancer Immune Profiling Panel	770
PanCancer Pathways Panel	770
PanCancer Progression Panel	770
PanCancer Mouse Immune Profiling	770
PanCancer Mouse Pathways Panel	770
PanCancer IO 360™	770
Human Immunology V2	594
Human Kinase V2	536
Human Inflammation V2	255
Mouse Immunology Kit V1	561
Mouse Inflammation V2	254
Human Cancer Reference	233
Human Breast Cancer ER V1	202
Human Stem Cell	199
Human Reference	18

miRNA TARGETED DISCOVERY PANELS	NO. OF GENES
Human v3 miRNA Assay	800
Mouse v1.5 miRNA Assay	600
Rat v1.5 miRNA Assay	over 400

CNV PANEL	NO. OF GENES
Cancer CN v2 Assay	87
"Human Karyotype Panel - Accurate monitoring of gross chromosomal abnormalities"	for all 24 human chromosomes

## nCOUNTER® VANTAGE 3D™ ASSAYS

RNA PANELS	NO. OF GENES
nCounter Vantage RNA Adaptive Immunity	192
nCounter Vantage RNA Innate Immunity	192
nCounter Vantage RNA Cellular Profiling	192
nCounter Vantage RNA Cancer Metabolism	192
nCounter Vantage RNA-DNA Damage and Repair	192
nCounter Vantage RNA Wnt Pathways CSO	192
nCounter Vantage RNA Cellular Signalling	192
nCounter Vantage Lung Gene Fusion Panel	63
nCounter Vantage Leukemia Gene Fusion Panel	42

PROTEIN PANELS	NO. OF GENES
Protein Immune Cell Profiling for cell suspensions	30
Protein Solid Tumor for Lysates	28
Protein Solid Tumor for FFPE	26
RNA:Protein Immune Cell Profiling for cell suspensions	770 gene / 30 protein
RNA:Protein Solid Tumor for Lysates	770 gene / 28 protein
RNA:Protein Solid Tumor for FFPE	770 gene / 26 protein

SNV PANELS	
SNV Fusion Lung Assay	
DNA SNV Solid Tumor Panel	

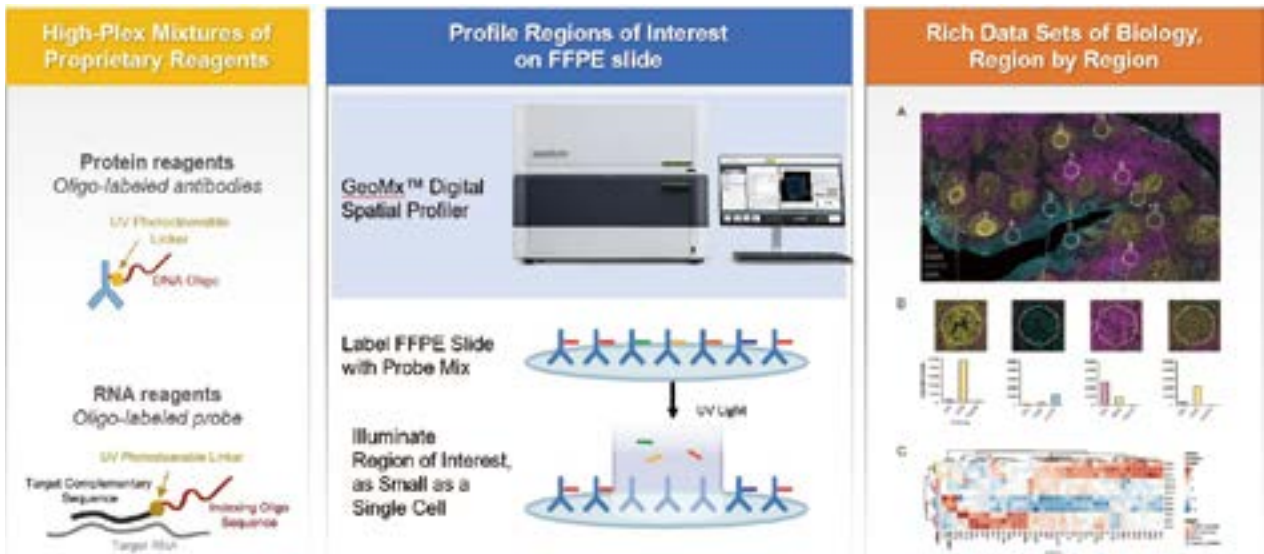
# nanoString GeoMx™ Digital Spatial Profiler

## ● Product Features

- Digital Spatial 분석
- FFPE tissue, Fresh Frozen tissue 사용 가능
- RNA, Protein 발현량 분석 가능
- 1 Slide 당 12 혹은 24 ROI (Region of Interest) 지정 가능
- TMA (Tumor Micro Array) Slide의 경우 최대 96 ROI 지정 가능
- 높은 Multiplex 효율 (RNA: up to 84 or 1,833 genes, Protein: up to 96)
- nCounter System 혹은 NGS 시스템을 이용한 결과 도출
- NGS 시스템과의 연동으로 Whole Transcriptome 분석 가능
- Custom 방식을 통한 유전자, Protein 추가 가능



## ● nCounter Barcoding 기술을 이용한 RNA, Protein의 Digital Spatial 분석



## ● Locate Your Regions of Interest

### Geometric Profiling

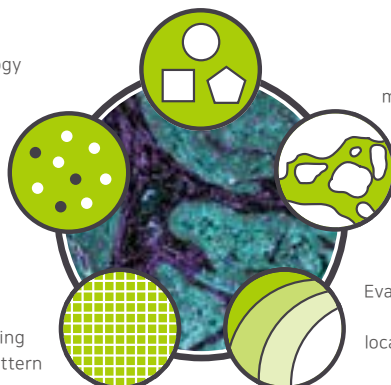
Assess tissue heterogeneity and profile standardized geometric shapes across distinct tissue regions

### Rare Cell Profiling

Cell type-specific morphology markers guide profiling, revealing the function of distinct cell populations

### Gridded Profiling

Perform deep spatial mapping using a tunable gridding pattern



### Segment Profiling

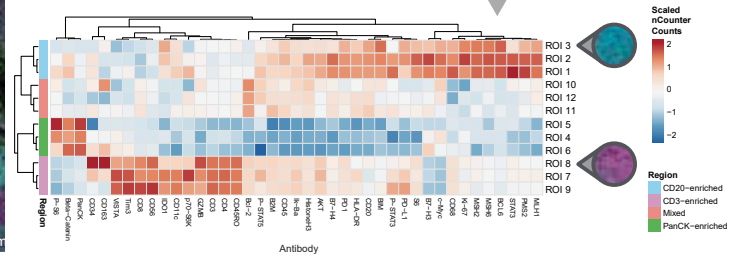
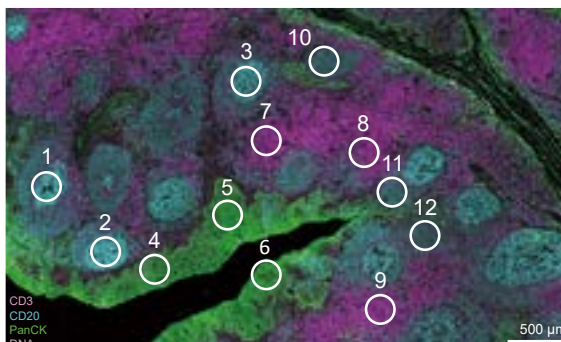
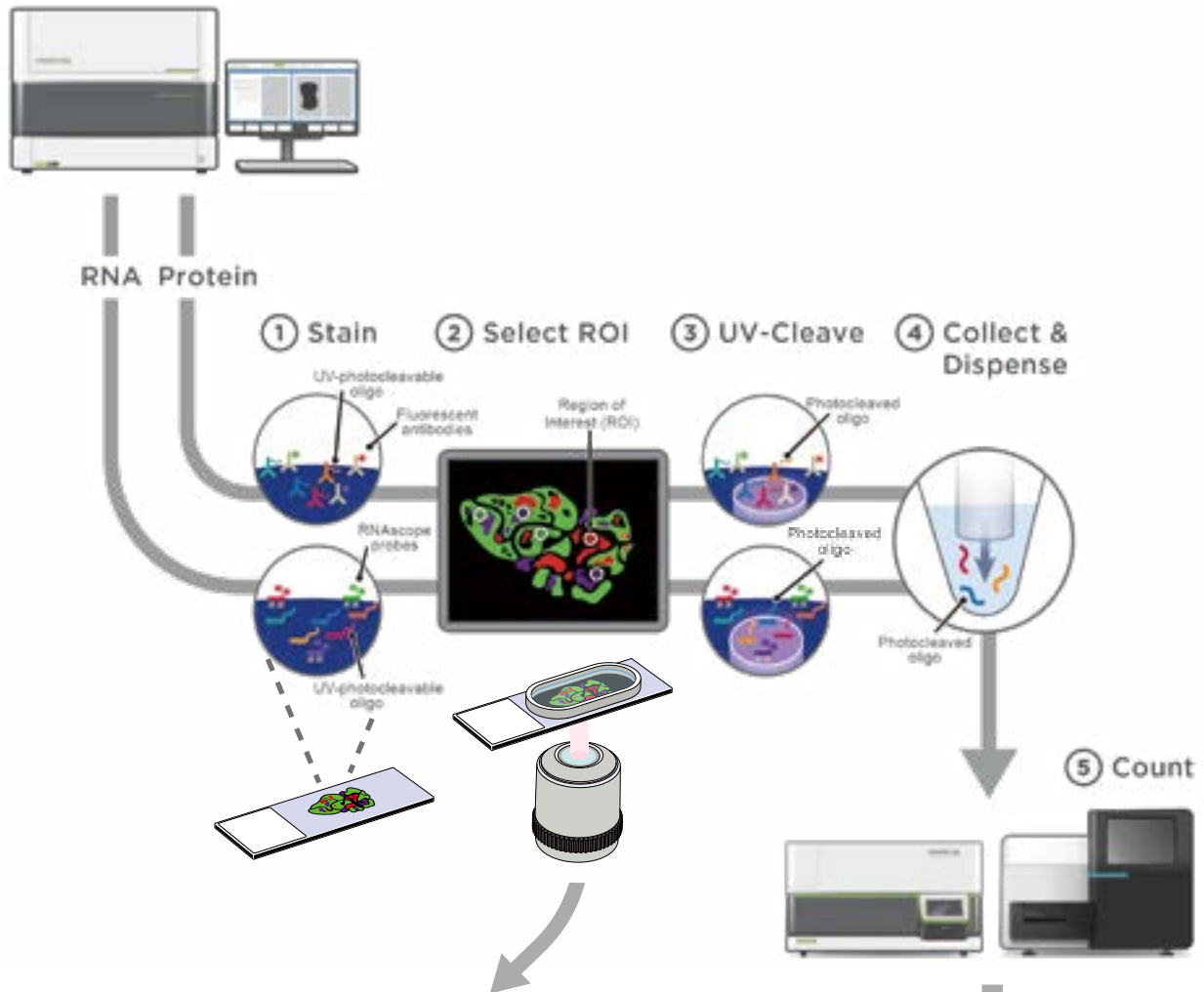
Maximize cellularity using morphology markers to identify and profile distinct biological compartments within an ROI

### Contour Profiling

Evaluate how proximity affects biological response and the local microenvironment around a central structure using a radiating ROI

# nanoString GeoMx™ Digital Spatial Profiler

## ● The DSP Workflow



- Process:** Apply high-plex oligo-labeled antibody cocktail + morphology markers
- View:** Use visible wavelength low-plex imaging to establish tissue "geography."  
Select regions-of-interest (ROIs) for high-plex profiling
- Profile:** UV-release oligo tags at selected ROIs
- Plate:** Store released tags in microtiter plate, index, and hybridize to barcodes
- Digitally count** up to 1 million data points per ROI
- Analyze** the data with nSolve™ Advanced Analysis Software

# nanoString GeoMx™ Digital Spatial Profiler

## ● Protein Assays for nCounter

> 140 targets for cancer and immunology

> 75 targets for neuroscience

**Human Protein Core**

Module 1, Module 2, Module 3, Module 4, Module 5, Module 6, Custom

Immune Cell Profiling Panel

IO Drug Target Panel

Immune Activation Status Panel

Immune Cell Typing Panel

Pan-Tumor Panel

MAPK Signaling Panel

PI3K / AKT Signaling Panel

Cell Death Panel

Neural Cell Profiling Panel

AD Pathology Panel

PD Pathology Panel

Alzheimer's Pathology Extended Panel

Autophagy Panel

Glial Cell Subtyping Panel

Plus > 6,000 antibodies for custom conjugation from Abcam

## ● Immune Oncology RNA Assay for nCounter

Core Panel Genes					Housekeeping Genes	
AKT1	CD47	FOXP3	IL6	PECAM1	OAZ1	SDHA
ARG1	CD68	GZMB	ITGAM	PSMB10	POLR2A	UBB
B2M	CD74	HAVCR2	ITGAV	PTEN	RAB7A	
Negative Controls						
BATF3	CD86	HIF1A	ITGAX	PTPRC	Neg Probe 1	Neg Probe 4
BCL2	CD8A	HLA-DQ	ITGB2	STAT1	Neg Probe 2	Neg Probe 5
CCL5	CMKLR1	HLA-DRB	ITGB8	STAT2	Neg Probe 3	Neg Probe 6
CCND1	CSF1R	HLA-E	KRT	STAT3		
CD27	CTLA4	ICAM1	LAG3	TBX21	Custom RNA Probes	
CD274	CTNNB1	ICOSLG	LY6E	TIGIT	Custom 1	Custom 7
CD276	CXCL10	IDO1	MKI67	TNF	Custom 2	Custom 8
CD3E	CXCL9	IFNAR1	MS4A1	TNFRSF9	Custom 3	Custom 9
CD4	CXCR6	IFNG	NKG7	VEGFA	Custom 4	Custom 10
CD40	DKK2	IFNGR1	pan-melanocyte	VSIR	Custom 5	H3F3A
CD40LG	EPCAM	IL12B	PDCD1		Custom 6	Neg Custom
CD44	FAS	IL15	PDCD1LG2			

## ● RNA Assay for NGS

· Cancer Transcriptome Atlas : > 1,800 genes

# The GenapSys™ Sequencing Platform

## Product Features

- Fast, Cost effective
- 매우 높은 정확도: > 80% bases > Q30
- 샘플 및 application에 따른 다양한 data output 도출 가능
- CMOS chip technology  
(Complementary Metal Oxide Semiconductor)  
: No Cross-talk or Signal bleeding
- Compact design : Simple fluidic, no moving part
- Easy to use
- 10~13 M reads, 1.2~2 Gb high quality output,  
> 150 bp read length



GenapSys Sequencer GenapSys Sequencing Prep System

## Streamlined, Automated Workflow Using the GenapSys Platform



## Specifications

Parameter	GenapSys Sequencer (P / N 1001500)	GenapSys Sequencing Prep System (P / N 1002470)
Dimensions (W x D x H, cm)	19 x 30 x 14 (7.5 in. x 11.75 in. x 5.5 in.)	28.5 x 41.1 x 32.8 (11.2 in. x 16.2 in. x 12.9 in.)
Weight	4.3 kgs (9.5 lbs.)	14.6 kgs (32.1 lbs.)
Instrument control computer (external)	Operating System : Windows 10 PRO Processor : x64-based with 2.0 GHz clock or faster RAM : At least 8 Gb Hard Drive : At least 200 G Graphics Card : Compatible with DirectX 9 or later with WDDM 1.0 driver Display : At least 1600 x 900 Compatible Browser : Google Chrome	NA
Operating environment	Temperature : 19 °C to 25 °C (22 °C ± 3 °C) Humidity : Non condensing 30~75% relative humidity Altitude : Less than 2000 m (6500 ft) Air Quality : Pollution degree rating of II Heat Output : 852 BTU/hr @ 250 W For Indoor Use Only	Temperature : 19 °C to 25 °C (22 °C ± 3 °C) Humidity : Non condensing 30~75% relative humidity Altitude : Less than 2000 m (6500 ft) Air Quality : Pollution degree rating of II Heat Output : 852 BTU/hr @ 250 W For Indoor Use Only
Instrument configuration	RFID tracking for consumables	RFID tracking for consumables



# The GenapSys™ Sequencing Platform

## Application

### 1. 16 M Chip with an initial output of 1.2-2.0 Gb

- Targeted resequencing
  - Amplicon based
  - Hybridization capture based
  - Long-range PCR
- Small genome sequencing
- Gene editing validation
- 16S rRNA-sequencing
- Targeted mRNA sequencing
- Small RNA sequencing
- Targeted single cell assay sequencing

### 2. 144 M Chip (available 2020)

- Highly multiplexed targeted panels
- Exomes
- Transcriptomes
- Single cell gene expression

## Chip Output Specifications

Product	Average Read Length	Reads	Output (Gb)	Accuracy	Run Time (Hours)
16 M Chip	> 150 bp	10~13 M	1.2~2.0	> 80% bases > Q30	~24 (read length dependent)

- 144 M Chip 출시 예정

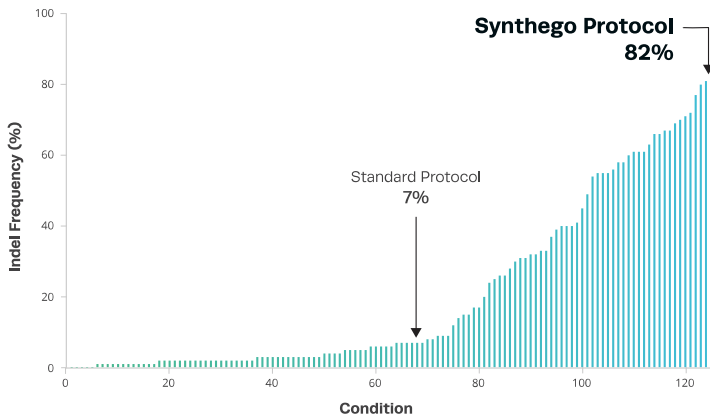
## Order Information

Product	Cat No.	Description
GenapSys™ Sequencer	1001500	Sequencer and accessories. Comes with a standard 1-year warranty that includes depot repair, all parts and labor.
GenapSys™ Sequencer Prep System	1002470	System for automated clonal amplification and enrichment for the GenapSys Sequencer.
G3 Sequencing Kit	1001977	Kitted reagents and consumables for a single sequencing run. Includes a single ready-to-use sequencing cartridge and one G3 sequencing chip.
G3 Amplification Kit	1001996	Kitted reagents and consumables for a single run of automated amplification on the Sequencing Prep System.

# SYNTHEGO : CRISPR Kit & Genome Engineering Service

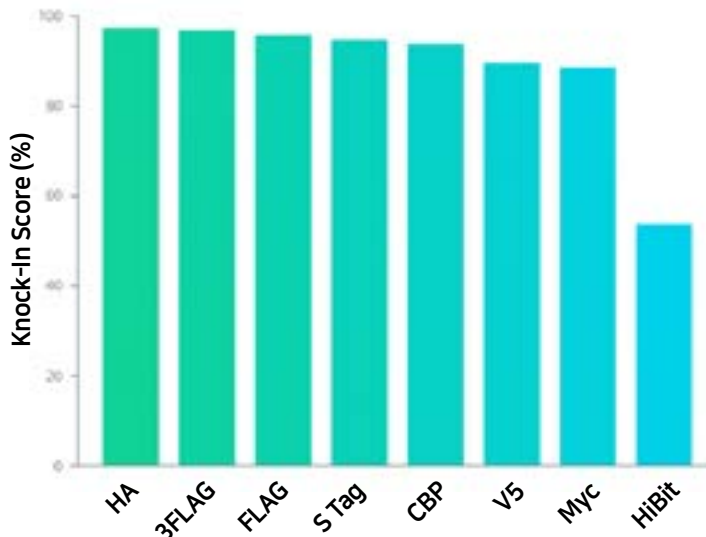
## Product Features

- Full Stack Genome Engineering Approach  
: Design → Edit → Analyze 전 단계에 대한 서비스 제공
- High-efficiency, High-quality Genome editing
- Full Automation Process
- Money-back guarantee program 고객만족 서비스
- 생산 단계에 대한 지속적인 monitoring 및 feedback 제공



## 200 Ways We Optimize CRISPR

Difficult-to-transfect cell lines are conquered with Synthego's cell line transfection optimization. In this example, THP-1 cells which typically edit at less than 7%, our 200 point transfection optimization identified a condition to achieve 82% editing efficiency. We guarantee at least a 50% reduction in protein levels, and commonly see knockout efficiencies of 75% or greater.



## Synthego Achieves Unbelievable Knock-In Efficiency in iPS Cells

A variety of small tags were inserted at the N-terminus of the GAPDH locus using HDR, utilizing RNP transfection. Knock-in efficiency was determined using PCR, Sanger sequencing, and ICE analysis.

# SYNTHEGO : CRISPR Kit & Genome Engineering Service

## ● CRISPRevolution Kits

- The synthetic guide RNA product line

Synthetic sgRNA	Advanced RNA
<ul style="list-style-type: none"> <li>· Synthetic single guide RNAs (sgRNAs)</li> <li>· 최대 97%의 edit efficiency 제공</li> <li>· 모든 cell type에 적용 가능</li> <li>· 1.5~100+ nmol 다양한 scale 제공</li> <li>· Chemical Modification 가능</li> <li>· Fast &amp; easy : No annealing purification</li> </ul>	<ul style="list-style-type: none"> <li>· SpCas9, Cpf1, C2c2, S.aureus Cas9 등 다양한 CRISPR nuclease 맞춤형 guide RNA 합성</li> <li>· Guide RNA의 secondary structure 변형가능</li> <li>· 고순도 최고의 quality 제품</li> <li>· Chemical Modifications 가능</li> <li>· 20~103 nt sgRNA</li> </ul>
Gene Knockout Kit v2	Screening Libraries*
<ul style="list-style-type: none"> <li>· Human gene knockout 보장하는 sgRNAs</li> <li>· 최대 3개의 Multi-guide Strategy</li> <li>· Target specific 3 sgRNAs gene</li> <li>· Chemical Modifications를 통한 세포 내 degradation 및 immune response 방지</li> <li>· Transfection Optimization Kit 별매</li> </ul>	<ul style="list-style-type: none"> <li>· 많은 수의 genes를 한 번에 screening할 수 있는 panel 제품</li> <li>· Well 당 하나의 target gene sgRNA를 포함한 multiwell plate</li> <li>· Gene 당 3 개의 Multi-guide Strategy 적용</li> <li>· Genotype에서 phenotype으로 연결 분석</li> <li>· 30+ pre-designed libraries panel</li> <li>· Primary cell을 포함한 any human cell type 적용가능</li> </ul>

\*Screening Library List

Complete Druggable Library	Nuclear Hormone Receptors Library
Power Supply a Complete Kinase Library	Tyrosine Kinases Library
Deubiquitinating Enzymes Library	Ubiquitin Ligases Activity (E1, E2, E3) Library
DNA Repair Pathway Library	Whole Human Genome Library
G-Protein Coupled Receptors Library	~외 30여 종의 Screening Library 가능

## ● Engineered Cell Service : Gene Knockout / in Service

Knockout Cell Pool	Knockout Cell Clone	Advanced Cells
Edited & unedited cells가 혼합된 cell pool	Edited cell만을 엄선한 Knockout cell clone	Gene tag 삽입, SNP / codon change, 어려운 cell line의 editing 등 무한한 cell edit
75% 이상의 gene knockout 보장	100% sequence verified in hundreds of human cell lines	빠르고 효율성 높은 knock-in 포함 edited cells 제공
200 pt transfection optimization process	200 pt transfection optimization process	200 pt transfection optimization process
700 개 이상의 Human / Mouse 세포주 활용 2 vials of Knockout Cell Pools 2 vials of Wild Type Cells	700 개 이상의 Human / Mouse 세포주 활용 2 vials KO Cell Clones 2 vials of Wild Type Cells	700 개 이상의 Human / Mouse 세포주 활용 Progress report every step of the way

## ● iPS Cell Service

- High-efficiency, High-quality Genome editing of iPS cells
- Knockouts / Single Nucleotide Variants (SNV) / tags
- Homozygous / heterozygous 형질의 clone / pool format 세포주
- 자동화된 genome editing process를 통한 교정 효율 및 교정 신뢰성 향상

# 세포 및 조직 파쇄기 : taco™ Prep Bead Beater

## Product Features

- 한 번의 버튼으로 손쉽게 작동
- 다양한 샘플에 적용 가능
- 1~16 개 샘플까지 동시에
- 회당 13 초 작동, 효과적 파쇄를 위한 횟수 설정 가능

GeneReach



## Specification & Related Products

Dimensions (mm)	30 x 25 x 24, 11 kgs
Power Supply	100~240 V, 50 / 60 Hz, AC
Sample Capacity	16
Cycle duration	13 sec/cycle or 40 sec/cycle
Sample Type	All Biological samples

A-PSBT	tacoPrep Pre-loaded Steel Bead Tubes (100 pc/package)
A-PSB	tacoPrep Steel Beads (200 g/package)
A-PST	tacoPrep Beating Tubes (500 pc/package)

# Magnetic Bead 추출 시스템 : taco™ Nucleic Acid Automatic Extraction System

## Product Features

- Magnetic bead 방식을 이용한 Complete Extraction
- DNA / RNA 동시 추출 가능
- Cell, Tissue, Blood 등 다양한 샘플 적용 가능
- One Touch 방식의 쉬운 사용법
- UV lamp를 이용한 교차 오염 방지



## Specification & Related Products

Product	Taco Nucleic Acid Automatic Extraction System	Taco mini Automatic Nucleic Acid Extraction System
Reaction time	50 mins	30 mins
Throughput	1~24 samples	1~8 samples
Decontamination	UV light	Available UV light
Dimensions (W x D x H, cm)	42 x 30 x 38	26 x 26.5 x 30
Weight	23.4 kgs	5 kgs

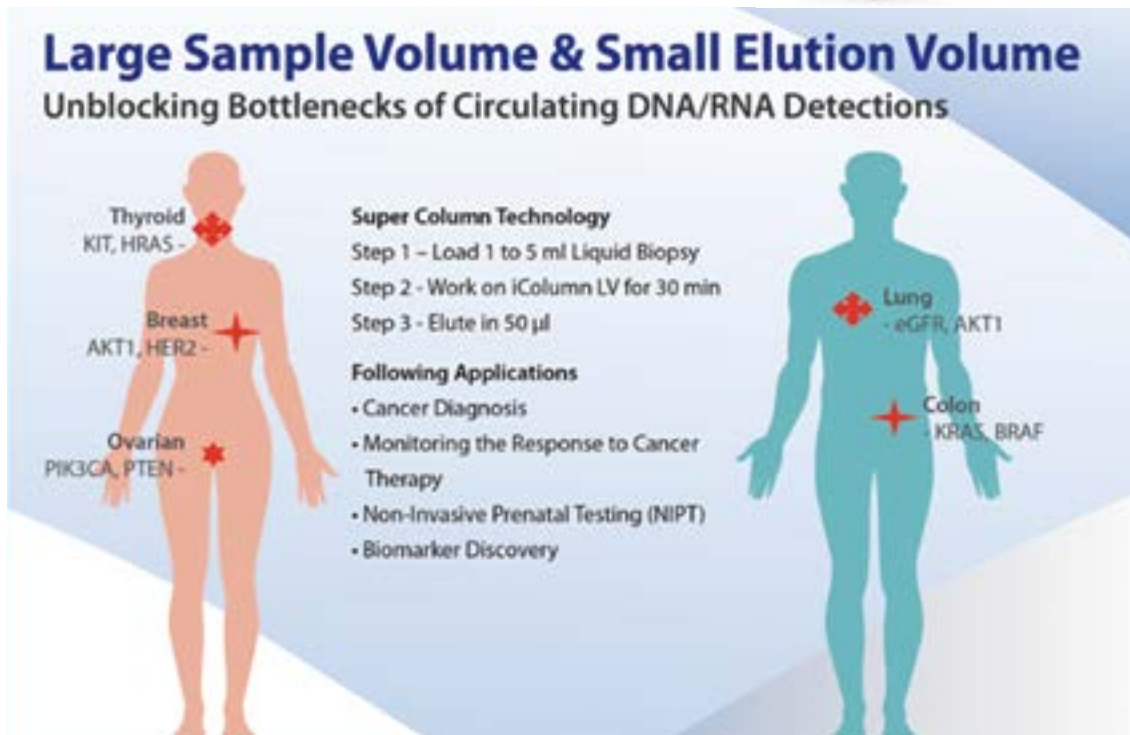
atc-drna	taco DNA / RNA Extraction Kit (320 rxns)
atc-dna	taco Total DNA Extraction Kit (320 rxns)
atc-plant	taco Plant DNA / RNA Extraction Kit (320 rxns)
atc-Preloaded_drna	taco Preloaded DNA / RNA Extraction Set (48 rxns/set)
atc-Preloaded_dna	taco Preloaded Total DNA Extraction Set (48r xns/set)

# Large Sample Volume 추출 시스템 : iColumn LV System

## Product Features

- Plasma Sample 최대 5 ml 이용하여 cfDNA 추출
- Trinity Technology를 이용한 자동화 핵산 추출
- 1~16 개 samples 추출가능
- Elution volume 50  $\mu$ l
- Large volume Sample의 prep으로 극미량의 DNA를 추출

AccuBioMed



## iColumn LV 8/16 Purification System

Dimensions (W x D x H, mm)	440 x 720 x 640 (8)	740 x 720 x 640 (16)
Net weight	60 kgs (8)	85 kgs (16)
Throughput	1~8 samples	1~16 samples
Light Source	LED white light x 1, UV light	
Heat Block	RT~100 °C x 1, RT ~70 °C x 1	
Interface	WVGA(16:9) 7" TFT LCD, Touch Screen	
Processing time	60~90 mins (depend on sample type and method)	
Sample volume	1~5 ml	
Elution volume	50 $\mu$ l	

## iColumn LV 8/16 Purification System

D11096-LV3	AccuPure Circulating DNA Mini Kit - LV3 (96) : Sample 3 ml 용
D11096-LV5	AccuPure Circulating DNA Mini Kit - LV5 (96) : Sample 5 ml 용

# 컬럼방식 자동화 핵산추출기기 시리즈

## Product Features



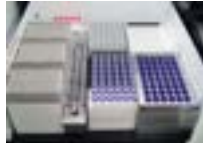
- Column 방식의 핵산 추출 장비
- DNA / RNA 개별 추출 가능
- 다양한 Sample Type 적용 가능  
(Cell, Tissue, FFPE, Liquid Biopsy etc.)



# LabTurbo


## Specification & Related Products

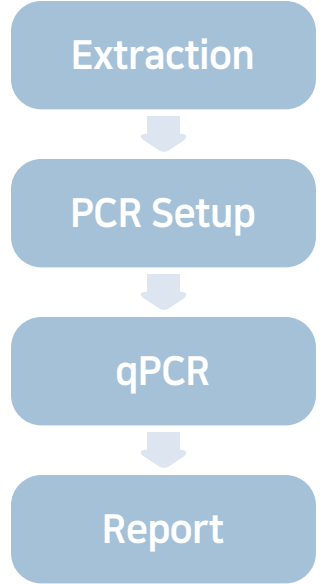


Product (Cat. No)	LabTurbo 24C (C2420)	LabTurbo 48C (C4820)	LabTurbo 96XC (C96XC20)
Throughput	1~24 samples	1~48 samples	1~96 samples
Processing time	165 samples/8 hrs	240 samples/8 hrs	480 samples/8 hrs
Pipette	6 channel	6 channel	12 channel
Block format	6 x 4 wells	6 x 8 wells	6 x 16 wells
Tip Rack	2 racks	3 racks	4 racks
Dimensions (W x D x H, mm)	660 x 550 x 820	660 x 550 x 1,600	1,350 x 850 x 1,750
Component	<p>All-in-Unibody Robotic workstation</p> <ul style="list-style-type: none"> <li>· Span multi-channel pipette (10~1000 µl)</li> <li>· Thermoblock (RT~80 °C),</li> <li>· Lysate-wash Vacuum Manifold</li> <li>· Auto-reagent vending system</li> </ul> <div style="display: flex; justify-content: space-around;">   </div> <p>&lt;24C / 48C&gt; &lt;96XC&gt;</p> <ul style="list-style-type: none"> <li>· Enzyme rack</li> <li>· HCCEB heating block</li> <li>· Elution vacuum manifold</li> </ul>		
	<ul style="list-style-type: none"> <li>· 96 tip rack</li> <li>· Tip reuse rack</li> <li>· Tip discard rack</li> <li>· Ultrasonic Fluid sensor</li> <li>· Vacuum pump system</li> <li>· Waste system</li> <li>· Built-in touch screen</li> <li>· LabTurbo software</li> <li>· Operational manual</li> </ul> <div style="text-align: center;">  <p>&lt;LabTurbo 48C Worktable&gt;</p> </div>		




# 컬럼방식 자동화 핵산추출기기 시리즈

## ● LabTurbo All-in-one System 샘플로딩 후 핵산추출 및 qPCR 자동진행

Product (Cat. No)	LabTurbo 24 AIO (A2420)
Throughput	1~24 samples
Processing time	24 samples/2.8 hrs
Pipette	6 channels
Block format	6 x 4 wells
Tip Rack	2
Dimensions (W x D x H, mm)	1,070 x 650 x 960
Component	 <p>&lt;LabTurbo 24 AIO Worktable&gt;</p>



## ● 핵산추출키트

Product (Cat. No)	Features	Component
LabTurbo 24C (C2420)	Whole blood, Buffy coat, Cell Culture, Bacteria Culture, Blood Cells, Saliva, Urine, Animal tissue, Plant tissue	· 6-strip sample / elution tubes and cap 
LabTurbo Virus kit (480 preps)	Serum, Plasma, Cell free body fluid, Buccal swab, Vaginal swab, Pharyngeal swab, Stool, FFPE tissue	· 6-strip sample / elution tubes and cap 
LabTurbo cirDNA kit (480 preps)	Serum; Plasma : Circulating Nucleic Acids	· Lysis buffer, elution buffer, wash buffer · Proteinase K 
LabTurbo RNA kit (480 preps)	Buffy coat, Cells, Animal tissue, Plant tissue	
LabTurbo Forensic DNA kit (480 preps)	Forensic samples : Oral swab, blood swab, cigarette butt, straw, rubber glove, bloodstain, mask, FTA card, chewing gum, hair root, tape	
LabTurbo Stool DNA kit (480 preps)	Stool	

# eCube Extraction Kit

## Product Features

- 가장 보편적 형태의 silica-based membrane kit
- Midi / Maxi-ion-exchange
- 다양한 종류의 제품 중 원하는 용도에 맞게 선별 가능
- 합리적인 가격 / 보장된 성능
- Easy, Efficient, Economic



※ 대량 구매시 특별가격 공급 (5kit 이상)

Cat. No	Product	Size
<b>Plasmid Prep kit</b>		
EP11200	eCube Plasmid DNA Mini Kit	200 preps
EP12050	eCube Plasmid DNA Midi Kit	50 preps
EP13020	eCube Plasmid DNA Maxi Kit	20 preps
<b>Clean up kit</b>		
EP21200	eCube Gel Purification Kit	200 preps
EP22200	eCube PCR Purification Kit	200 preps
EP23200	eCube Gel & PCR Purification Kit	200 preps
<b>Blood, Tissue DNA Prep kit</b>		
EP31200	eCube Blood DNA Mini Kit	200 preps
EP31024	eCube Blood DNA Maxi Kit	24 preps
EP32200	eCube Tissue DNA Mini Kit	200 preps
<b>Plant, Stool, Soil DNA Prep kit</b>		
EP33200	eCube Plant DNA Mini Kit	200 preps
EP34200	eCube Stool DNA Mini Kit	200 prep
EP35200	eCube Soil DNA Mini Kit	200 prep
<b>RNA Kit</b>		
EP51200	eCube Blood RNA Mini Kit	200 preps
EP52200	eCube Tissue RNA Mini Kit	200 preps
EP53200	eCube Plant RNA Mini Kit	200 preps
EP55100	eCube miRNA Isolation Kit	100 preps
EP56200	eCube Tri RNA Clean-up Kit	200 preps
EP57100	E-zol RNA Reagent	Volume : 100 ml
EP58100	E-RNA Stabilization Solution	Volume : 100 ml
<b>Viral Kit</b>		
EP61200	eCube Viral Nucleic Acid Mini Kit	200 preps



# Qsep Bio-Fragment Analyzer

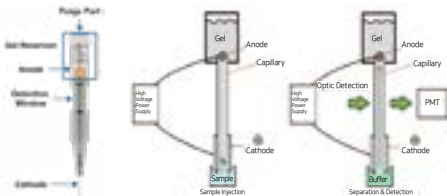
## Product Features

- 빠른 분석 시간 : 2~7 분
- High Resolution (1~4 bp 분석 가능)
- Cost Effective
- High Sensitivity (< 0.1 ng/μℓ)
- No Cross Contamination

BiOptic Inc.



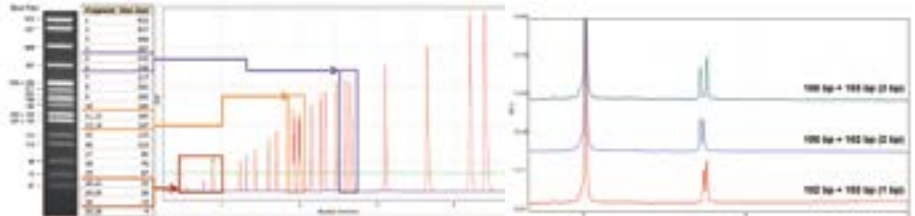
## Qsep disposable Cartridge



- 다양한 종류의 disposable Cartridge (DNA, RNA 용도)
- 실험목적에 따라 Cartridge of precast gel 선택 가능
- 안전하고 간편한 ready-to-use gel capillary column-RFID Tag 부착으로 기기 장착 시 잔여 사용 횟수 / 유효기간 확인

## Qsep의 Q-Analyzer software

- 자동 DNA fragment sizing (검출시간 및 크기)
- 분석 결과를 실시간 확인 가능
- 데이터 분석, 저장 용이



Specification	Qsep 1	Qsep 100	Qsep 100Advance	Qsep 400
LED Light Source	525 nm	525 nm	480 nm	525 nm
Fluorescence Detection	590 nm~	590 nm~	530 nm~	590 nm~
Separation Voltage	1~8 kV	1~15 kV	1~15 kV	1~15 kV
Connection	Wi-Fi & Cable	USB	USB	USB
Power Source	AC 100~240 V	AC 100~240 V	AC 100~240 V	AC 100~240 V
Maximum Power	30 W	30 W	30 W	60 W
System Weight	5.5 kgs	15 kgs	15 kgs	26 kgs
Dimensions (cm)	24 x 21 x 30	38 x 30 x 40	38 x 30 x 40	54 x 40 x 36
System Type	1 Channel Portable System	1 Channel Standard System	1 Channel Standard System	4 Channel System
Automated Sampling	1~8 samples	1~96 samples	1~96 samples	4~96 samples
Rapid Analysis	2~7 mins/sample	2~7 mins/sample	2~7 mins/sample	2~7 mins/4 samples

# DeNovix Spectrophotometers & Fluorometers

## Product Features

- 하나의 장비로 spectrophotometer 와 fluorometer 가능
- 190~840 nm full wavelength 2 초 이내 측정 가능
- Pathlength 0.5 mm로 정확성 및 뛰어난 재현성
- Multi-channel fluorescence (4 channel)
- Android interface 장착으로 PC 설치 불필요
- 다양한 export 형식 (network, WiFi, USB 이용 가능)
- Smart pathlength 기술로 recalibration 불필요
- 무상 서비스 2 년

DeNovix®



## Specification

### · Microvolume mode

Minimum Sample Size	0.5 µl
Pathlength	0.5 mm (auto ranging to 0.02 mm)
Light Source	Pulsed Xenon flash lamp
Detector Type	2048 element CCD
Wavelength Range	190~840 nm
Wavelength Accuracy	0.5 nm
Spectral Resolution	1.5 nm (FWHM at Hg 253.7 nm)
Absorbance Precision	0.015 AU (1 cm), or 1%
Absorbance Accuracy	1.5% at 0.75 AU at 260 nm
Detection limit	0.04 mg/ml BSA; 0.75 ng/µl dsDNA

### · Cuvette mode

Beam height	8.5 mm
Heating	37~45 °C ± 0.5 °C
Pathlength	10, 5, 2, 1, 0.5, 0.2, 0.125 mm
Absorbance Range	0.0008~1.5 AU (1 cm)
Detection limit	0.002 mg/ml BSA 0.04 ng/µl dsDNA (1 cm)
Maximum Concentration	75 ng/µl dsDNA

### · Fluorometer mode

Light Sources	Blue LED (~470 nm), Green LED (~525 nm), Red LED (~635 nm), UV LED (~375 nm)
Tube type	0.5 ml Real Time thin-wall PCR tube (polypropylene)

## Related Product

Model	Product
DS-11 FX +	Microvolume Spectrophotometer / Fluorometer with Cuvette mode
DS-11 FX	Microvolume Spectrophotometer / Fluorometer
DS-11+	Microvolume Spectrophotometer with Cuvette mode
DS-11	Microvolume Spectrophotometer
DS-C	Cuvette Spectrophotometer
QFX	Fluorometer
FX Module	Fluorometer accessory for DS-11 / DS-11+

Model			
DS-11 FX +	✓	✓	✓
DS-11 FX	✓		✓
DS-11 +	✓	✓	
DS-11	✓		
QFX Fluorometer			✓

### DeNovix Fluorescence Quantification Assays

KIT-DSDNA-BROAD-2-EVAL	DeNovix dsDNA Broad Range Evaluation Kit. 50 assays
KIT-DSDNA-HIGH-2-EVAL	DeNovix dsDNA High Sensitivity Assay Evaluation Kit. 50 assays
KIT-DSDNA-ULTRA-2-EVAL	DeNovix dsDNA Ultra High Sensitivity Assay Evaluation Kit. 50 assays
KIT-DSDNA-BROAD-1	DeNovix dsDNA Broad Range Kit. 250 assays
KIT-DSDNA-HIGH-1	DeNovix dsDNA High Sensitivity Assay Kit. 250 assays
KIT-DSDNA-ULTRA-1	DeNovix dsDNA Ultra High Sensitivity Assay Kit. 250 assays
KIT-DSDNA-BROAD-2	DeNovix dsDNA Broad Range Kit. 1000 assays
KIT-DSDNA-HIGH-2	DeNovix dsDNA High Sensitivity Assay Kit. 1000 assays
KIT-DSDNA-ULTRA-2	DeNovix dsDNA Ultra High Sensitivity Assay Kit. 1000 assays

# Fluorescence Quantification Assays

## Product Features

- Widest Dynamic Range
- dsDNA 0.5 pg/μl~4000 ng/μl
- RNA 250 pg/μl~1000 ng/μl
- dsDNA 20X Greater Sensitivity than Qubit®
- One RNA kit replaces full Qubit® Range
- Integrated into EasyApps® Software
- Simple Mix-and-Measure Assay

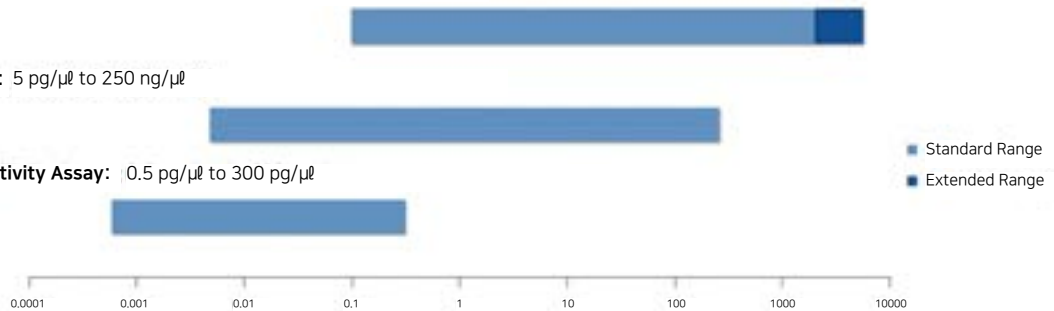


## DeNovix dsDNA Assays Range

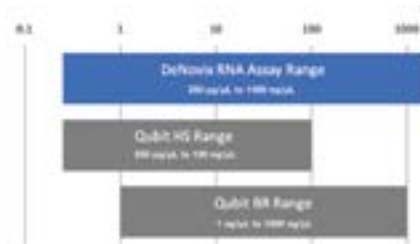
**Broad Range:** 0.1 ng/μl to 2000 ng/μl (extended to 4000 ng/μl)

**High Sensitivity:** 5 pg/μl to 250 ng/μl

**Ultra High Sensitivity Assay:** 0.5 pg/μl to 300 pg/μl



## DeNovix RNA Assays Range



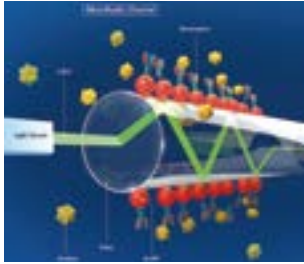
## Qubit에서도 사용 가능한 DeNovix Fluorescence Quantification Assays

Model	Broad Range Assay	High Sensitivity Assay	Ultra High Sensitivity Assay
DS-11 FX	0.1 ng/μl to 2000 ng/μl (extended to 4000 ng/μl)	5 pg/μl to 250 ng/μl	0.5 pg/μl to 300 pg/μl
QFX	0.1 ng/μl to 2000 ng/μl (extended to 4000 ng/μl)	5 pg/μl to 250 ng/μl	0.5 pg/μl to 300 pg/μl
Qubit 2.0	NA	5 pg/μl to 250 ng/μl	0.5 pg/μl to 300 pg/μl
Qubit 3.0	NA	5 pg/μl to 250 ng/μl	0.5 pg/μl to 300 pg/μl

# INSTANT NanoBiosensors INB-D200

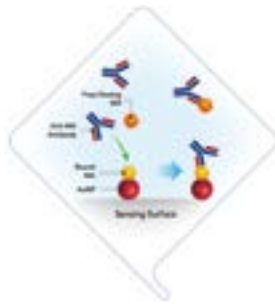
## Product Features

- Gold nanoparticle (AuNPs)와 Optical waveguides를 결합하여 민감하고 신뢰할 수 있는 분자 검출
- 광섬유 내에서 광이 전파될 때 Total Internal Reflection (TIR)은 AuNP가 Particle Plasmon Resonance (PPR) 현상을 유도

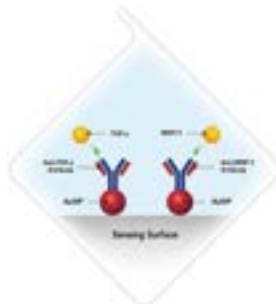


Fiber Optic Particle Plasmon Resonance (FOPPR™) Technology

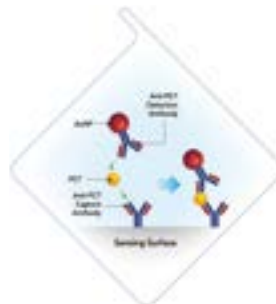
## Application



Quantitation :  
Direct Detection Assays



Quantitation :  
Enhancement Assays



Quantitation :  
Competition Assays



Binding Kinetics and  
Affinity Assays

## Product Specifications of Sensor Chip NanoAu-MM

Core Technology	FOPPR™
Signal Obtained	Affinity, Specificity, Quantitation, Qualification
Sample Type	Protein, Antigen, Plasma, Serum, and others
Analysis Temperature	Room Temperature
Molecular Weight Range	> 10 kDa
Signal Noise	< 0.015% (RSD)
Sensitivity	~ pg/ml
Analysis Time	5~15 mins
Sample Volume	80 µl
Recording Mode of Binding Signal	Static (without syringe pump)
Sensing Type	Label-free and real-time detection
Sensing Channel	Two individual sensing channels
Special Design	Slider door for Biochip protection

## Product Specifications of Biomarker Analyzer: INB-D200

Application	For interaction analysis in INB-D200
Surface	Carboxyl group covalently attached to nano gold surface
Chip Cell Volume	20 µl
Sample Volume	100 µl

# Absorbance 96 세계 극소형 정밀 ELISA 리더

## Product Features

- 직관적 소프트웨어
- 기계적 동작부품 없어 유지 보수 불필요
- 가장 짧은 측정 시간 : 2 초 미만
- 저전력 동작 : 컴퓨터 USB 5 V 2.5 W



SLAS  
랩자동화검사학회  
신제품 상 수상

# byonoy



## Specification

### General

Detection Method	Absorbance
Detection Mode	Endpoint, Kinetic
Microplate Types	96-well microplates
Software	Byonoy software for external computer control
Power	Through USB connection 5 V
Power Consumption	2.5 W
Dimensions ( W x L x H, cm)	9.6 x 15.4 x 5.5
Weight	0.9 kgs

### Measurement

Light Source	4 x LED
Detector	96 x Photodiodes
Wavelength Selection	405, 450, 492, 620nm (FWHM10 nm) 주문시 원하는 파장으로 4채널 변경 가능
Photometric Range	0.0~4.0 OD
Linearity	≤ 1.0% (0.0~2.0 OD) ≤ 1.5% (2.0~3.0 OD)
Accuracy	≤ 1.0% + 0.010 (0.0~2.0 OD) ≤ 1.5% + 0.010 (2.0~3.0 OD)
Reproducibility	≤ 0.5% + 0.005 (0.0~2.0 OD) ≤ 1.0% + 0.010 (2.0~3.0 OD)
Resolution	0.001 OD
Read time	Down to 2 sec at single wavelength
Data Output	USB 2.0 interface with PC

## Order Information

Model	Channel
ABS96-STD-01	405, 450, 492, 620 nm
ABS96-STD-02	492, 560, 605, 650 nm
ABS96-STD-03	405, 450, 540, 630 nm
ABS96-CUSTOM	4 채널 선택 (400~650 nm)

# Block Cycling System : Super Cycler

## Product Features



- 96 wells PCR 장비
- 균일성 및 재현성이 높은 PCR
- 6개의 peltier와 3개의 control zone으로 high performance 구현
- 최대 24 °C의 온도 차를 설정할 수 있는 Gradient 기능
- Touch down PCR, Long PCR 등 다양한 PCR 기능
- 사용의 편리성
  - 마법사 모드로 간단하게 PCR program 입력
  - USB stick으로 program 이동
  - Touch 형식 color screen 지원
  - Quick start 기능



## Specification

Temperature Range	4 °C~99 °C
Temperature Accuracy	± 0.5 °C over full range
Temperature Uniformity	± 0.3 °C, 30 seconds after target (range 40~90 °C)
Temperature Resolution	0.1 °C increments
Heating / Cooling Rate	5 °C/sec
Well Configuration	0.2 ml tubes with flat or domed caps
Thermal Gradient	Programmable 0.24 °C across block width(12 wells)
Reaction Volume	5~60 µl
Heated Lid Temperature	Controllable 60~115 °C
Dimensions (W x D x H, mm)	180 x 285 x 190
Weight	5.5 kgs

## Related Products

제품번호	제품명	사이즈
M0492	Q5 High-Fidelity 2X Master Mix	100 / 500 rxns
M0491	Q5 High-Fidelity DNA Polymerase	100 / 500 rxns
M0494	Q5 Hot Start High-Fidelity 2X Master Mix	100 / 500 rxns
M0493	Q5 Hot Start High-Fidelity DNA Polymerase	100 / 500 rxns
M0480	OneTaq DNA Polymerase (5,000 units/ml)	200 / 1000 / 5,000 units
M0482	OneTaq 2X Master Mix with Standard Buffer	100 / 500 rxns
M0484	OneTaq Hot Start 2X Master Mix with Standard Buffer	100 / 500 rxns
M0486	OneTaq Quick-Load 2X Master Mix with Standard Buffer	100 / 500 rxns
M0488	OneTaq Hot Start Quick-Load 2X Master Mix with Standard Buffer	100 / 500 rxns
M0509	OneTaq Quick-Load DNA Polymerase (5,000 units/ml)	100 / 500 / 2500 units
E5310S	OneTaq RT-PCR Kit	30 rxns
E5315S	OneTaq One-Step RT-PCR Kit	30 rxns
E6560	ProtoScript II First Strand cDNA Synthesis Kit	30 / 150 rxns
M0368	ProtoScript II Reverse Transcriptase (200,000 units/ml)	4000 / 10000 / 40,000 units
M0253	M-MuLV Reverse Transcriptase (200,000 units/ml)	10000 / 50,000 units
E1700	WarmStart® LAMP Kit (DNA & RNA)	100 / 500 rxns
M1800	WarmStart® Colorimetric LAMP 2X Master Mix (DNA & RNA)	100 / 500 rxns
M0380	WarmStart® RTx Reverse Transcriptase	50 / 250 rxns

# An Intelligent Liquid Handling System : Myra

## Product Features



### Simplicity

- 48 - 96 - 384 plate / strip 모든 제품 완벽 지원
- One click calibration
- Easy to Use Software

### Size

- 타사 제품대비 절반 크기
- 9 kgs의 가볍지만 clean한 환경 제공
- UV LED light 및 HEPA filter 시스템

### Performance

- 정밀한 경로제어 : 정밀한 위치 보정 및 error 감지
- Pipette의 뛰어난 균일성 및 정확도
- Calibration 된 pipette head의 쉬운 교체
- Integrated Vision System  
: Robot arm에 내장된 CCD camera로 쉬운 calibration



## Specification

Dimensions (W x L x H, mm)	360 x 460 x 310
Position control	Closed loop, 100 µm resolution
Level detection	Pressure sensing
Dispense modes	Single and multi
Volume range	1~50 µl
Tips per rack	384
Precision	1 µl : 5% CV
	2 µl : 2.5% CV
	5~50 µl : 1% CV
Accuracy	1 µl : 10%
	2 µl : 5%
	5~50 µl : 1%
UV decontamination	70 mW 280 nm UV LED
HEPA air filtration	99.98% at 0.3 µm



# qPCR Cycler : MIC Magnetic Induction Cycler

## Product Features



- Magnetic Induction Technology를 이용한 열효율 극대화
- Channel 별 독립된 high intensity LED 및 photodetector
- 고정된 optic module로 calibration 및 align 불필요
- Rotor 방식의 sample 회전으로 acquisition time 1초 소요
- 예열 시간이 필요없어 낭비하는 시간 없음



- 회전형의 알루미늄 로터로 정적 / 동적 온도균일성 제공
- 온도 정확성 accuracy of  $\pm 0.25$  °C
- Well 간 온도 균일성 uniformity of  $\pm 0.05$  °C
- HRM을 이용한 class 4 SNP genotyping을 쉽게 분류 (0.1 °C 미만 melt temperature resolutions 가능)



- Bluetooth 또는 USB 다중연결 가능 (최대 10대)
- 48 - 96 - 192 - 480 까지 확장성 용이
- 개별 데이터의 통합 분석 가능 (최대 480 samples)
- 오픈형 소프트웨어 (Freeware)



- 손안에 들어오는 작은 qPCR machine
- 가로 x 세로 x 높이 / 무게 : 15cm x 15cm x 13cm / 2.1kgs
- 0.1 ml qPCR 튜브를 이용하여 total volume 5~30  $\mu$ l 가능
- 4-strip tube의 개별 rack 포장으로 multi pipette 분주가능



## Specification

Electrical	AC Input	100~240 VAC, 50 / 60 Hz		
	Temperature Accuracy	$\pm 0.25$ °C		
Thermal Performance	Temperature Uniformity	$\pm 0.05$ °C		
	Ramp Rates	Heating: 4 °C/sec		
		Cooling: 3 °C/sec		
Optical	Detectors	High sensitivity photodiode per channel		
	Excitation Sources	High energy light emitting diode per channel		
	Channels	MIC-2	MIC-4	
		Green	Green	
		Yellow	Yellow	
		-	Orange	
-		Red		
Reaction Vessels	Acquisition Time	1 s		
	Samples per Instrument	48		
	Reaction Volume Range	5~30 $\mu$ l		

## Application

- Relative Quantification
- Absolute Quantification
- High Resolution Melting
- Genotyping (CNV / SNP)



# qPCR Cycler : Azure Cielo™ Real-Time PCR

## ● Product Features

- Throughput : 96 well sample
- High Multiplex : 3 / 6 channel
- Detection : 고감도 센서로 High Sensitivity 결과 획득 가능
- 16 wells 단위로 형광 detection
- 10.2" 터치 스크린 & 내장형 소프트웨어



## ● Specification

	Product	Azure Cielo 3	Azure Cielo 6
Thermal Performance	Temperature Uniformity	± 0.2 °C	
	Temperature Accuracy	± 0.1 °C	
	Ramp rate	6.0 °C/sec; 4 °C/sec (Average)	
Optical	Excitation source	LED	
	Detection channels	3	6
	SYBR / EvaGreen / FAM	v	v
	HEX / VIC / JOE / CAL Fluor 540	v	v
	CAL Fluor Orange 560		v
	ROX / TAMRA		v
	TEX 615 / Quasar 670 / CAL Fluor Red 610		v
	Cy5 / LIZ / Mustang Purple	v	v
	Cy5.5 / Quasar 705		v
Physical	Sample capacity (wells)	96	
	Reaction volume	10~150 µl	
	Connectivity	USB, Wi-Fi, LAN, Ethernet	

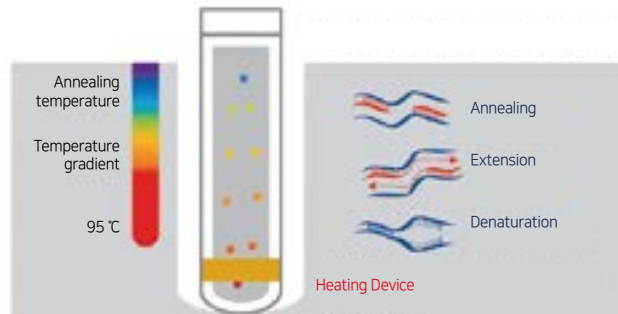
## ● Application

- Relative Quantification
- High Resolution Melting
- Absolute Quantification
- Genotyping

# Insulated Isothermal PCR (iiPCR) : POKKIT™ Series

## Product Features

- 튜브 바닥에 단일 열원을 사용
- 열 대류에 의해 생성된 온도 구배를 이용한 PCR
- 정성 및 정량 검사 가능 (Optical channels 내장)
- PCR과 동일한 민감성 및 특이성
- 반응 소요시간의 단축
- 다양한 pathogen detection kit  
 Aquaculture : Shrimp Fish  
 Livestock : Poultry Swine Bovine Ruminant  
 Companion : Canine Feline  
 Food etc.



## Specification

	POCKIT™ Nucleic Acid Analyzer	POCKIT™ Central Nucleic Acid Analyzer
Fluorescent Wavelength	520 nm, 550 nm	
Sensitivity	Up to 10 copies per reaction	
Throughput	1~8 samples per run	
PCR Reaction Time	Approx. 1 hour	Approx. 85 minutes
Display	3.5 inch touch panel LCD	LCD touch control panel
Dimensions(W x D x H, mm) & Weight	280 x 250 x 85 2.1 kgs	310 x 480 x 400 21 kgs
Power Source	100~120 / 200~240 V AC, 50 / 60 Hz, 2A	
Data Storage	SD / SDHC memory card	8 Gb of internal storage



	POCKIT™ Micro Nucleic Acid Analyzer	POCKIT™ Micro Plus Nucleic Acid Analyzer	POCKIT™ Micro Duo Nucleic Acid Analyzer
Fluorescent Wavelength	520 nm	520 nm	520 nm, 550 nm
Sensitivity	Up to 10copies per reaction		
Throughput	1~4 samples per run		
PCR Reaction Time	Approx. 30 minutes	Approx. 45 minutes	Approx. 45 minutes
Dimensions (W x D x H, mm) & Weight	152 x 63 x 50 380 g	152 x 63 x 50 380 g	160 x 78 x 55 430 g
Power Source	Li-ion polymer battery		
Certification	-	CE-IVD	CE-IVD

# Primer, Probe and Custom Oligo 합성 : LGC BIOSEARCHTECH

## ● Dual-Labeled BHQ Probes

- Dual-Labeled BHQ Probes
  - : 5' Fluorophore - 3' Black Hole Quencher probe
  - : BIOSEARCHTECHNOLOGIES 고유의 BHQ quencher
  - : 일반적인 디자인의 hybridization probe
- Molecular Beacons
- Scorpions Primers

## ● BHQplus Probes

- Shorter probe 디자인에 적합한 probe (15~25 bases)
- Modified pdU / pdC 사용하여 Tm값 증가
- SNP genotyping에 특화

## ● BHQnova™ Probes

- Double-quencher로 긴 길이의 probes에 적합 (> 25 bases)
- Background는 낮추고, signal-to-noise ratio는 증가
- SNP / CNV genotyping, qPCR

## ● Custom Oligonucleotides

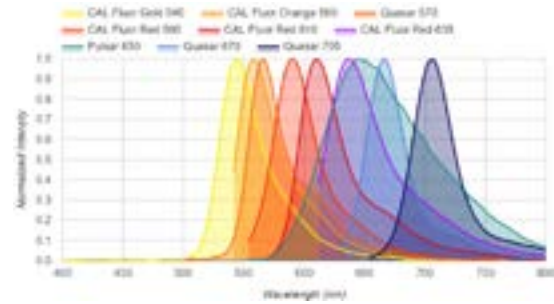
- customized oligo
- 5', 3'- end 및 internal modifications
- 받고 싶은 양 (delivery scale) 선택 가능
- Oligos in Plates 가능

## ● Stellaris RNA FISH Probes

- in situ RNA detection : RNA visualization method
- 고정화된 세포에서 target RNA의 검출, 위치확인, 정량화
- Multi target RNA 검출 가능
- ShipReady Probe Sets : Reference gene control용
- DesignReady Probe Sets : 연구용으로 제품화된 set
- Custom Probe Sets : My target genes에 대한 디자인 및 주문
- RNA FISH Buffers : Stellaris RNA FISH Probes최적화

## ● Other Chemicals

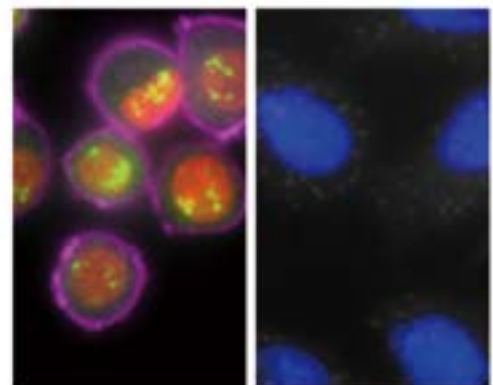
- Amidites
- Carboxylic Acid, Succinimidyl Esters, & Amines
- Controlled Pore Glass (CPG)
- Synthesis & Purification Accessories



Biosearchtech Technologies' Proprietary Dyes

### Modification 종류

[BHQ-1]	[rG] : RNA base	[T(Quasar 570)]
[BHQ-2]	[rU] : RNA base	[T(Quasar 670)]
[dSpacer]	[T(CAL Fluor Red 590)]	[*] Phosphorothioate bond
[d-Uridine]	[T(CAL Fluor Red 610)]	[Spacer 9]
[I]	[T(TAMRA)]	[T(CAL Fluor Red 635)]
[MeOA]	[T(BHQ-2)]	[T(Dabsyl)]
[MeOC]	[T(Biotin)]	[T(DIG)]
[MeOG]	[T(C6-Amino)]	[Spacer 18]
[MeOU]	[T(CAL Fluor Orange 560)]	[Spacer 3]
[T(BHQ-1)]	[T(FAM)]	[Spacer 6]
[rA] : RNA base	[T(JOE)]	
[rC] : RNA base	[T(Methylene Blue)]	



# PCR & qPCR Reagent : PKT & NEB Products

## Product Features

- 우수한 performance, 높은 재현성
- 합리적인 가격 / 보장된 성능



PKT QuantiSpeed Products

Cat. No	Product	Size
QS105	QuantiSpeed SYBR No-Rox Kit	5 / 10 ml
QS115	QuantiSpeed SYBR Low-Rox Kit	5 / 10 ml
QS125	QuantiSpeed SYBR Hi-Rox Kit	5 / 10 ml
QS755	QuantiSpeed Probe No-Rox Kit	5 / 10 ml
QS745	QuantiSpeed Probe Low-Rox Kit	5 / 10 ml
QS735	QuantiSpeed Probe Hi-Rox Kit	5 / 10 ml
QS815	QuantiSpeed HRM Kit	5 / 10 ml
QS915	QuantiSpeed Genotyping No-Rox Kit	5 / 10 ml
QS925	QuantiSpeed Genotyping Low-Rox Kit	5 / 10 ml
QS935	QuantiSpeed Genotyping Hi-Rox Kit	5 / 10 ml
QS155	QuantiSpeed SYBR Low-Rox One-Step Kit	5 ml
QS165	QuantiSpeed SYBR Hi-Rox One-Step Kit	5 ml
QS785	QuantiSpeed Probe No-Rox One-Step Kit	5 ml
QS775	QuantiSpeed Probe Low-Rox One-Step Kit	5 ml
QS765	QuantiSpeed Probe Hi-Rox One-Step Kit	5 ml

## NEB Luna<sup>®</sup> qPCR & RT-qPCR Products

- 우수한 performance, 높은 재현성
- 합리적인 가격 / 보장된 성능



Cat. No	Product	Size
E3010	LunaScript™ RT SuperMix Kit	25 / 100 rxns
M3003	Luna <sup>®</sup> Universal qPCR Master Mix	200 / 500 / 1,000 / 2,500 rxns
E3005	Luna <sup>®</sup> Universal One-Step RT-qPCR Kit	200 / 500 / 1,000 / 2,500 rxns
M3004	Luna <sup>®</sup> Universal Probe qPCR Master Mix	200 / 500 / 1,000 / 2,500 rxns
E3006	Luna <sup>®</sup> Universal Probe One-Step RT-qPCR Kit	200 / 500 / 1,000 / 2,500 rxns
E3007E	Luna <sup>®</sup> Probe One-Step RT-qPCR Kit (No ROX)	2,500 rxns
E3032S	Luna <sup>®</sup> Cell Ready Lysis Module	100 rxns
E3030S	Luna <sup>®</sup> Cell Ready One-Step RT-qPCR Kit	100 rxns
E3031S	Luna <sup>®</sup> Cell Ready Probe One-Step RT-qPCR Kit	100 rxns

Bulk 제품 상담

# ENDURO™ Gel Documentation System

## Product Features

- 저렴한 가격의 Gel doc 전용 장비
- 넓은 field of view : 20 cm x 24 cm
- Capture software에서 annotation 지원
- 간편한 설정과 사용편의성

## Specification

Camera	5 MP (2592 x 1944), scientific grade sensor
Lens	8 mm, F 1.4 hands free lens
Cabinet	Built in UV transilluminator with safety cut-off switch
Dimensions (cm)	34.6 x 31.1 x 68.6
Weight	21.4 kgs

Cat. No	Product
GDS-1302	ENDURO™ GDS with a 302nm UV transilluminator
GDS-1365	ENDURO™ GDS with a 365nm UV transilluminator
GDS-12018*	Clear Gel Tray
GDS-12019*	White Light Conversion Tray
GDS-12020	Blue Light Conversion Tray

\* GDST 공용 제품



# Azure 200 Gel Documentation System

## Product Features

- 캐비닛 타입 젤 도큐멘테이션 장비
- PC를 내장한 compact한 디자인
- 302 / 365 nm UV dual wavelength
- Blue LED(470 nm) 및 Epi-white

## Specification

Image Resolution	5.4 MP
Image Bit Depth	16 bit
Trans White Light	Yes
UV 302 nm & 365 nm	Yes
EPI Blue	Yes
EPI White	Yes
Standard Filter	Compatible with : Ethidium Bromide, SYBR® Safe, Coomassie Blue, Stain-Free™ and others
Filter Wheel	3 position filter slider
Computer	Tablet computer : Option to control system through external PC



# Azure's Imaging Systems

## Product Features

- 캐비닛 타입 젤, 케미 도큐멘테이션 장비
- 사양에 따라 Gel, Chemi, RGB, NIR 가능
- 상위 사양으로 업그레이드 가능
- 캐비닛 장비 중 유일하게 Laser-NIR을 장착
- 다양한 application 가능
- F0.95, Real 9.1 M pixel & 16 bit CCD (< Azure 300~)



## Specification

	200	280	300	400	500	600
Image Resolution	5.4 MP	6.1 MP	9.1 MP			
Cooling	-	-50 °C regulated cooling				
Image Bit Depth	16 bit					
Trans White Light	Yes					
UV 302 nm & 365 nm	Yes					
EPI Blue	Yes					
EPI White	Yes					
Visible Fluorescent Westerns				Yes		Yes
NIR Westerns P P					Yes	Yes
Standard Filter	Compatible with : Ethidium Bromide, SYBR® Safe, Coomassie Blue, Stain-Free™ and others					
Filter Wheel	7 position filter slider	3 position filter slider	7 position motorized filter wheel			
Computer	Tablet computer : Option to control system through external PC					
Upgradeability	Yes	No	Yes	Yes	Yes	
Analysis Software	Yes					

## Compatible Dyes

Alexa Fluor® 488 546 555 633 647 680	Ethidium Bromide
Chemiluminescence	GelStar®
Coomassie Blue	IRDye® 650 680LT 680RD 700DX 750 800CW 800RS
Coomassie Fluor™ Orange	Qdot® 525 565 585 605 655 705 755
Cy2 Cy3 Cy5	Silver Stain
Deep Purple™	SYBR® Green Gold Safe
DyLight® 488 550 633 650 680 755 800	SYPRO Orange Red Ruby Tangerine
ECL Plex™	OTHER DYES ARE ALSO POSSIBLE. COMPATIBLE DYES DEPEND ON YOUR SYSTEM CONFIGURATION

# Sapphire™ Biomolecular Imager

## THE NEXT GENERATION OF LASER-BASED IMAGING

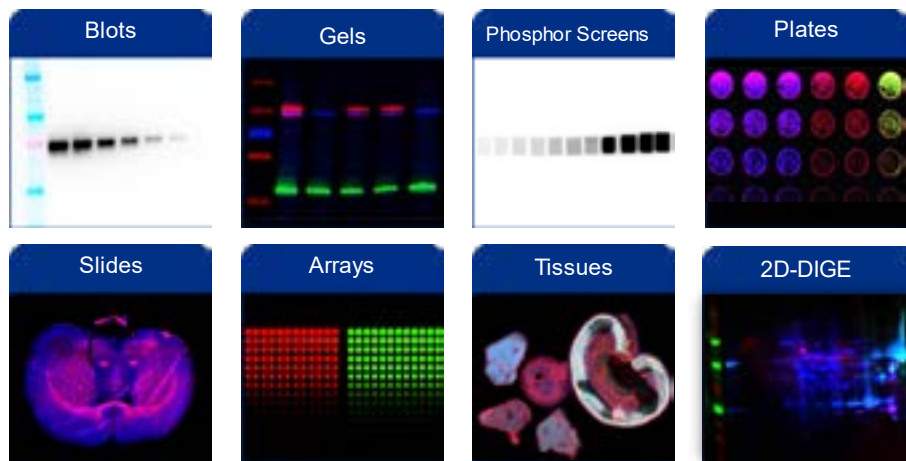


### Product Features

- 레이저 스캐닝 이미지 시스템
- 4 가지 레이저 타입으로 RGB, NIR 가능
- 10 μm의 초 고해상도의 이미지
- 넓은 Dynamic range
- Chemiluminescent, Phosphor imaging module 옵션



< 다양한 어플리케이션 예 >



### Specification

	Sapphire NIR	Sapphire RGB	Sapphire RGBNIR	Sapphire PI
Part number	IS1000	IS1001	IS1002	IS1006
laser excitation wavelengths (nm)	658,784	488,520,658	488,520,658,784	658
Bit depth	16bit			
Scanning area	25 cm x 25 cm			
Resolution	10~1,000 micron			
Detector	APD	APD, PMT	APD, PMT	PMT
Scanning speed	50 cm/s			
Dimensions (W x H x D, cm)	75 x 45 x 70			
Weight	63.5 kgs			
Computer	Windows 10 laptop			
Chemiluminescent Upgrade	Optional			
Phosphor image Module	Optional			NA
Q-Module (520 nm laser)	Optional	NA		

# Azure Aqua™ Vertical Gel Running System



## Product Features

- Quad Mini-Cell :  
1~4 개의 Gel을 (10 cm x 8 cm) 동시에 영동 가능, 타이트한 밀봉으로 빠르고 쉬운 전기영동.
- Transfer Cell :  
2 개의 카세트로 트랜스퍼 가능. 카세트와 electrode의 색깔로 트랜스퍼 방향을 쉽게 구분 가능.
- Power Supply :  
4 개의 출력단자, 등 전압, 등 전류, 등 전력모드 (최대 600 V, 1.2 A, 500 W)

## Specification



Product Part number	Quad Mini-Cell AC4200	Transfer Cell AC4201	Power Supply AC4202
Product description	4-gel cell includes 5 1 mm-gel combs (10 and 15 wells), 5 spacer plates (1.5 mm optional), 10 short glass plates, 4 casting stands, 4 casting frames, 5 gel shovels, electrode assembly, tank, lid with power cables, and mini-cell buffer dam. Compatible with mini gels cassette dimensions 10 x 8 cm.	Transfer cell includes 2 gel transfer cassette holders, 6 sponges, 2 cooling units, electrode assembly, tank, and top lid with wire.	Power supply includes output range of 5~600 V, 1~1200 mA, 1~500 W, LCD readable voltage, current, power, and 4 connections for electrophoresis and transfer.
Unit dimensions (W X L X H, cm)	13.5 x 17.5 x 19	13.5 x 17.5 x 19	24 x 30.5 x 10
Weight	1,000 g	820 g	2,540 g
Recommended power supply	Azure Aqua Power Supply 600 V	Azure Aqua Power Supply 600 V	NA
Number of gels	1~4 precast (most major brands) or handcast gels	2 precast or handcast gels	NA
Tank buffer volume	2 gels : 540 ml 4 gels : 1,100 ml	1,100 ml	NA
Maximum gel size (cm)	6.7 x 8.6	7.5 x 10	NA
Typical run times	30~45 minutes at 200 V	1 hour at 55 V	NA
Gel cassette size (W x L, cm)	10 x 8	NA	NA
Number of cassettes	NA	2	NA
Blotting area	NA	7.5 cm x 10 cm	NA
Output specifications	NA	NA	600 V, 1.2 A, 500 W
Safety features	NA	NA	Automatic monitoring of over-voltage, no load, overload, and short circuit
Type of output	NA	NA	4 output terminals with constant voltage, current, and power



# Protein Electrophoresis & Blotting System : Cavoy Products

## ● Mini P-4 Vertical

- VE-8001 Mini P-4 Vertical Electrophoresis 4-gel System (4-gels, 1.0 mm or 0.75 mm or 1.5 mm)
- VE-8002 Mini P-4 Vertical Electrophoresis 2-gel System (2-gels, 0.75 mm or 1 mm or 1.5 mm)



## ● Mini P-4 Vertical

- TE-3030 Mini-TBC Electrophoretic Transfer cell includes : Mini P-4 cell lid with cables, buffer tank, Mini-TBC transfer module, holder cassettes(2-gel), fiber pads(4-gel), cooling units
- TE-3035 Mini-TBC trans blot module includes : transfer module, holder cassettes(2-gel), fiber pads(4-gel), cooling units



## ● Mini P-4 Vertical

Cat. No	Product
VE-1100	Short Plate, 5 ea/set
VE-1101	Spacer Plate, 0.75 mm, 5 ea/set
VE-1102	Spacer Plate, 1.0 mm, 5 ea/set
VE-1103	Spacer Plate, 1.5 mm, 5 ea/set
VE-1200	Comb, 0.75 mm, 10-well, 5 ea/set
VE-1201	Comb, 1.0 mm, 10-well, 5 ea/set
VE-1202	Comb, 1.5 mm, 10-well, 5 ea/set
VE-1203	Comb, 0.75 mm, 15-well, 5 ea/set
VE-1204	Comb, 1.0 mm, 15-well, 5 ea/set
VE-1205	Comb, 1.5 mm, 15-well, 5 ea/set

# Automated Western Blot Development : BlotCycler™ Touch

## ● Product Features

- Western blot membrane 자동 washing 장치
- 다양한 membrane 사용 가능 (mini, midi 4에서 6장 까지)
- 사용하던 실험 조건 그대로 사용
- 최대 6가지 각기 다른 primary, secondary antibody 사용 가능
- 사용한 primary antibody는 자동으로 회수
- 야간 시간 활용하여 blotting 시간을 자유롭게 조절

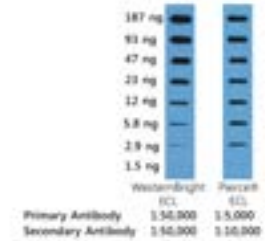


# Western Blot Detection Reagent : Advansta

## WesternBright™ ECL&Spray

- 더 강한 신호 세기
  - 더 높은 민감도
  - 적은 양의 protein 감지
  - antibody Conserving (10배 이상 희석)
- ※ Recommended for X-ray film

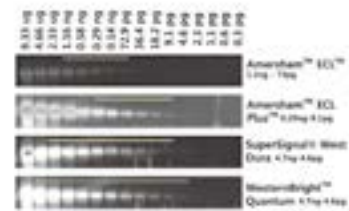
K-12045-D50	500 ml
K-12049-D50	500 ml



## WesternBright™ Quantum

- 더 높은 민감도
  - 정확한 정량 분석
  - 매우 낮은 background signal
  - 오래 가는 신호 세기
- ※ Recommended for CCD imaging

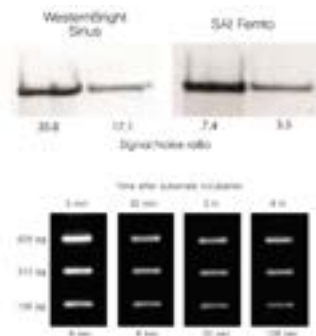
K-12042-D10	100 ml
K-12042-D20	200 ml



## WesternBright™ Sirius

- Advansta HRP substrate 중 가장 높은 민감도
  - 오래 가는 신호 세기
  - 매우 낮은 background signal
  - 정량적인 신호 세기
- ※ Recommended for CCD imaging

K-12043-D10	100 ml
K-12043-D20	200 ml



## WesternBright™ ChemiPen

- 실험의 정확도 향상 Improve accuracy
- 실험한 날짜 또는 ID를 영구적으로 blot에 표시
- HRP substrate stability 확인
- X-ray film과 CCD imagers 모두에 사용 가능

R-07055-001	EA
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## WesternBright™ Visio

- 전기영동 중에 즉시 protein band 확인 가능
- 높은 민감도 (최소 10~20 ng까지 detection)
- reducing gel과 non-reducing gel 모두 사용 가능
- downstream mass spectrometry에 적용 가능

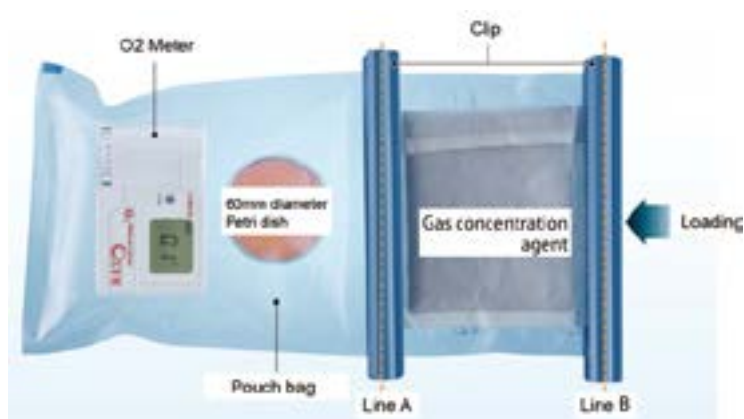
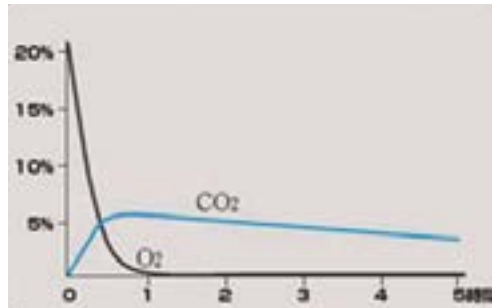
K-12043-D10	100 ml
K-12043-D20	200 ml



# 저산소 세포 배양 키트

## Product Features

- CO<sub>2</sub> 인큐베이터, 산소, 질소, 혼합가스 봄베 없이도 배양실험이 가능
- 비닐주머니 내 산소농도를 0.1~15%로 조절하여 배양가능
- 사용하기 쉽다.
- 저렴한 초기 비용 및 운용비용
- O<sub>2</sub>농도를 자유롭게 설정 가능
- 다양한 O<sub>2</sub>농도 실험이 가능
- 현미경으로 저산소 상태의 세포관찰이 가능.
- 저산소 상태로 방사선 조사가 가능
- 가설검증이 쉽다.



- 비닐주머니에 순서대로 O<sub>2</sub>미터, 배양용기, O<sub>2</sub>제거제 / CO<sub>2</sub>생성제를 넣고 B선을 클립으로 집는다.
- O<sub>2</sub>미터를 보고 원하는 산소농도로 떨어지면 A선을 클립으로 집는다.
- 비닐주머니의 배양온도를 유지하기 위해 인큐베이터에 넣는다.

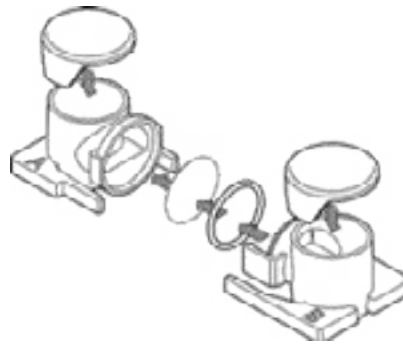
## Specification

Product	Cat. No	Component
nBIONIX-1	NBX-1	소형 저산소키트 구성
		비닐주머니 (W155 x L330) 20장
		O <sub>2</sub> 제거제 / CO <sub>2</sub> 생성제 20개
		클립 17 L 3개
		O <sub>2</sub> 미터 1개
nBIONIX-2	NBX-2	중형 저산소키트 구성
		비닐주머니 (W220 x L300) 20장
		O <sub>2</sub> 제거제 / CO <sub>2</sub> 생성제 20개
		클립 24 L 3개
		O <sub>2</sub> 미터 1개
nBIONIX-3	NBX-3	대형 저산소키트 구성
		비닐주머니 (W250 x L400) 20장
		O <sub>2</sub> 제거제 / CO <sub>2</sub> 생성제 20개
		클립 28 L 3개
		O <sub>2</sub> 미터 1개
소모품	NBX-1s	비닐주머니 (대형, 30장)
	NBX-2s	비닐주머니 (중형, 30장)
	NBX-3s	비닐주머니 (소형, 40장)
	NBX-ax	O <sub>2</sub> 제거제 / CO <sub>2</sub> 생성제 (20장)

# ICCP (Interactive Co-Culture Plate)

## Product Features

- 일본 가나자와 의과대학의 Takeo Shimasaki 교수 : 개발 및 특허출원
- 세포에서 분비된 인자가 용기 사이 필터를 통과하는 수평이동형 indirect co-culture 배양용기
- 배양 중 양쪽 용기 모두 용기밀면 세포관찰용이함.
- 두 용기 모두 같은 재질 사용으로 다른 용기 재질 사용으로 인한 영향을 최소화함.
- 가운데 필터를 원하는 사양(구멍크기 및 밀도)을 구하여 끼울 수 있음.
- 세포밀도가 높은 경우에도 분비인자의 용기간 이동을 방해하지 않음.
- 수직형 용기에 비해 높은 exosome 이동밀도



## Specification

Product	Cat. No	Component
ICCP (Interactive Co-Culture Plate)	2501-02AB	박스 당 10x 버블팩  버블팩 구성품 Well A (PS) 2 EA Well B (PS) 2 EA Docking plate (PS) 1 EA Cap (PP) 4 EA Lid cover (LDPE) 4 EA O-ring (VMQ) 1 EA
		2501-02AB_1
ICCP Filter 0.6 $\mu$ m 감마멸균필터	2525-06	1 통당 50 개 필터 구경 13 mm 재질 polycarbonate pore size 0.6 $\mu$ m 감마멸균완료
ICCP Filter 0.03 $\mu$ m 감마멸균필터	2525-003	1 통당 50 개 필터 구경 13 mm 재질 polycarbonate pore size 0.03 $\mu$ m 감마멸균완료
ICCP Filter 0.6 & 0.03 $\mu$ m 세트 감마멸균필터	2525-06003	2525-06 ICCP Filter 0.6um 감마멸균필터 1 EA 2525-003 ICCP Filter 0.03um 감마멸균필터 1 EA
ICCP Adapter	2596-01	4 개 ICCP를 넣을 수 있는 어댑터 (4 개 ICCP 포함)



# Image Based Cell Counter : CellDrop

## Product Features

- 빠르고 정확한 Image Based 방식의 재현성 높은 자동 계수 장비
- Slides 없이 cell count
- 최초의 DirectPipett™ Technology를 이용한 cell counter
- Three-Channel Image Overlay
- Cell Gating and Cell Size Histograms
- 정확하고 재현성 높은 결과 획득
- HD Edge Detection
- Powerful Data Reporting

## Specification

Dynamic Range	1 x 10 <sup>3</sup> to 4 x 10 <sup>7</sup> cells/ml
Sample Volume	3 µl (high density) 10 µl (standard) 40 µl (low density)
Measure Speed	Brightfield : 3초 AO/PI : 8.5초
Brightfield Illumination	LED 530 nm
Fluorescence Illumination	LED 470 nm
Emission Filter	AO 530 nm ± 15 nm PI 620 nm ± 15 nm
Camera	FL-Basler acA2040-55 µm BF Basler daA2500-14 µm
Display	High Definition 1280 x 800 7" color display
Detector	FL-Sony IMX265 BF-Semiconductor MT9P031
Connectivity	Wi-Fi, Ethernet, HDMI, 3USB port
Internal Storage	60 GB
Warranty	2 years

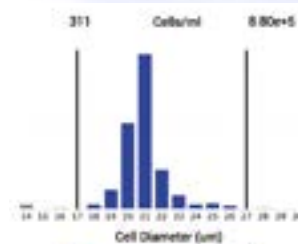
## Products List

Model	Feature
Cell Drop FL	Automated cell counter Dual Fluorescence + Brightfield
Cell Drop BF	Automated cell counter Brightfield Only

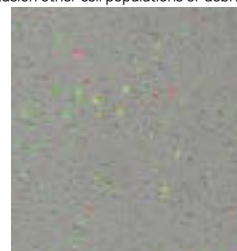


EasyApps software comes preinstalled with cell counting and viability apps for AO / PI, Brightfield, Trypan Blue, GFP, Yeast as well as powerful tools for creating custom applications.

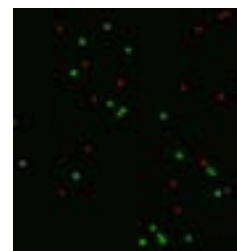
DeNovix



Cell Size Histograms enable simple size gating and exclusion other cell populations or debris



PBMCs: discriminate between live / dead and non-nucleated cells.



Accurate High Definition Edge Detection with regular and irregular cells, even at high density.



Advanced Declustering Algorithms embedded in EasyApps software improve accuracy and reproducibility even with the most challenging cells.

# Coulter Principle Mini Cell Counter : Moxi Z

## Product Features

- Coulter Principle을 이용한 정확하고 재현성 높은 Cell Counter
- MPI (Moxi Population Index) 값을 이용한 Cell healthy 체크
- Clean bench에서 간단하게 사용 가능



## Specification

	Moxi Z
Cassette Type	Type M / Type S
Applications	Cell Counting / Cell Size / Cell Health
Data Output Formats	.csv format (Orflo MoxiChart or Microsoft Excel)
Sample Volume	75 µl
Weight	0.68 kgs

## Related Products

	Type M Cassette	Type S Cassette
Dynamic range	4~34 µm	3~26 µm
Cell Volume / Size	34~20,580 fL (4~25 µm)	14~4,200 fL (3~20 µm)
Measurement time	10 seconds	15 seconds

# Coulter Principle Flow Cytometer : Moxi Go 532 & Moxi Go II



## Specification

	Moxi Go532	Moxi Go II
Detection Channels	1 color, 1 size, 1 forward extinction	2 color, 1 size, 1 forward extinction
Excitation Wavelength	532 nm	488 nm
Number of PMT's	1	2
Optical Detection Region	580/37 nm (e.g. PE, PI)	525/45 nm (e.g. FITC, GFP) and 561 nm/LP (e.g. PE, RFP)
Display	800 x 480 color touchscreen	
Data Output Format	FCS 3.1, screen shots (.bmp), CSV	
Pre-Programmed Tests	Gold Standard Cell Count and Viability / Apoptosis	Multiplexed Bead ELISA In Cell Westerns / In Cell Protein Quant RFP / Gold Standard Cell Count & Viability Mito Potential / ROS / Phagocytosis
Cassette Type S+	Dynamic range : 3~26 µm Cell Volume/Size : 14~9,202 fL (3~16 µm)	
Measurement time	10 seconds	
Open Platform	580/37 nm (PI, PE, DS Red, Nile Red, Rhodamine Red, Sun Coast Yellow)	561 nm/LP (PI, PE, DS Red, Sytox Orange, 7 AAD, Nile Red, Rhodamine Red, Sun Coast Yellow, PE/Cy5), 525/45 nm (FITC, GFP, Alexa Fluor 488nm, Calcein)

# DNA Methylation Assays : METHYLDTECT

## Product Features

- HRM qPCR 방식을 이용한 Methylation Assay
- Pre-made Methylation PCR Kit 제공 : 814개 qPCR Kit
- Customizing 가능



## Product Features



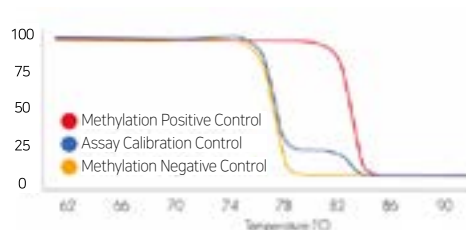
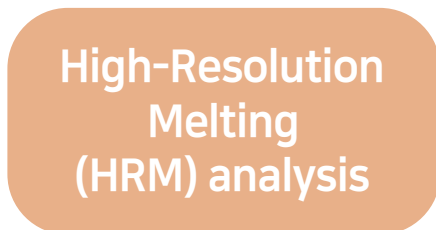
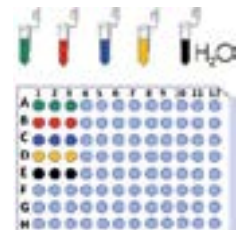
NEB사 Monarch® Genomic DNA Purification Kit (T3010)



NEB사 EpiMark Bisulfite Conversion Kit (E3318S)



- Bisulfite modified biological sample
- Assay Calibration Control
- Methylation Negative Control
- No template Control



# DNA Methylation Assays : METHYLDTECT

## MethylDetect Assay list

	Assay by	Genes No.
Pathway	Apoptosis	22
	Cell cycle	20
	Cytokine Production	22
	DNA Repair	22
	Homeobox Genes (HOX)	93
	Inflammatory Response and Autoimmunity	93
	Mental Disorders	22
	Notch Signaling Pathway	23
	Polycomb Genes PcG	22
	Stem Cell Transcription Factors	91
	Stress Response and Toxicity	92
	T Helper Cell Differentiation	23
	T-Cell and B-Cell Activation	20
	TGF-beta Signaling Pathway	22
	Tumor Suppressor Genes (TSG)	73
WNT Signaling	22	
Uncategorized	ADAM23, LTBR, LTB4R, IL13RA1, HOXA11, HOXA13	
Cancer type	Breast Cancer	92
	Colon Cancer	90
	Gastric Cancer	91
	Leukemia and Lymphoma	89
	Liver Cancer	86
	Lung Cancer	88
	Melanoma	88
	Prostate Cancer	81

## Customer Tailored Services

- designed to meet your needs in methylation studies
- We design and develop MS-HRM assays targeting your gene of interest from your biomarker discovery studies. The assay can be used on standard equipment in your laboratory
- We can also test your samples with the developed assay at our facilities



# Cloning, In vitro Transcription, Array, Competent Cells and Transposon : Lucigen Epicentre

## Product Features

- Application별 특화된 kit, Enzyme 제공
- : Array, Cloning Kits & Vectors, Competents Cell, Extraction Kits & Purification Kits, Transposon, IVT, PCR & Amplification, Enzymes

**BIOSEARCH™**  
TECHNOLOGIES  
GENOMIC ANALYSIS BY LGC

**Lucigen™**  
Simplifying Genomics

## Product List

**epicentre**  
EPIDEMOLOGIE - EPIDEMOLOGY

Array

Cat. No	Product	Size (UOM)
BU6105H	BIOTIN-16-UTP	500 nmoles

Cloning Kits & Vectors

Cat. No	Product	Size (UOM)
AIS107F	COPYCONTROL™ FOSMID AUTOINDUCTION SOLUTION	50 ml
CCFOS059	COPYCONTROL™ HTP FOSMID LIBRARY PRODUCTION KIT	10 rxns
CCFOS110	COPYCONTROL™ FOSMID LIBRARY PRODUCTION KIT	10 rxns
ER0720	END-IT™ DNA END-REPAIR KIT	20 rxns
ER81050	END-IT™ DNA END-REPAIR KIT	50 rxns
LK0750H	FAST-LINK™ DNA LIGATION KIT	50 rxns
LK6201H	FAST-LINK™ DNA LIGATION KIT	100 rxns
MP5105	MAXPLAX™ LAMBDA PACKAGING EXTRACTS	5 extracts
MP5110	MAXPLAX™ LAMBDA PACKAGING EXTRACTS	10 extracts
MP5120	MAXPLAX™ LAMBDA PACKAGING EXTRACTS	20 extracts

Competents Cells

Cat. No	Product	Size (UOM)
C300C105	TRANSFORMAX™ EPI300™ CHEMICALLY COMPETENT E. COLI	10 rxns
C400CH10	COPYCUTTER™ EPI400™ CHEMICALLY COMPETENT E. COLI	10 rxns
C400EL10	COPYCUTTER™ EPI400™ ELECTROCOMPETENT E. COLI	10 rxns
CC02810	TRANSFORMAX™ EC100™ CHEMICALLY COMPETENT E. COLI	10 rxns
CCIS125	COPYCONTROL™ INDUCTION SOLUTION	25 ml
CIS40025	COPYCUTTER™ INDUCTION SOLUTION	25 ml
EC02T110	TRANSFORMAX™ EPI300™-T1R ELECTROCOMPETENT E. COLI	20 rxns
EC10010	TRANSFORMAX™ EC100™ ELECTROCOMPETENT E. COLI	20 rxns
EC300110	TRANSFORMAX™ EPI300™ ELECTROCOMPETENT E. COLI	20 rxns
EC300150	TRANSFORMAX™ EPI300™ ELECTROCOMPETENT E. COLI	100 rxns

Extraction Kits & Purification Kits

Cat. No	Product	Size (UOM)
FMAX046	FosmidMAX™ DNA Purification Kit	1 Kit
MB711400	MasterPure™ DNA Purification Kit for Blood, Version II	400 ml of Whole Blood
MC85200	MasterPure™ Complete DNA & RNA Purification Kit	200 Purif
MC89010	MasterPure™ Complete DNA & RNA Purification Kit	10 Purif
MGP04100	MasterPure™ Gram Positive DNA Purification Kit	100 Purif
MPY03100	MasterPure™ Yeast RNA Purification Kit	100 Purif
MPY80200	MasterPure™ Yeast DNA Purification Kit	200 Purif
QE09050	QuickExtract™ DNA Extraction Solution 1.0	50 ml
QE0905T	QuickExtract™ DNA Extraction Solution 1.0	5 ml
QEF81050	QuickExtract™ FFPE DNA Extraction Kit	50 ml
QEP70750	QuickExtract™ Plant DNA Extraction Solution	50 ml
QER090150	QuickExtract™ RNA Extraction Kit	50 ml
R1804M	Ready-Lyse™ Lysozyme Solution	4,000,000 U
R1810M	Ready-Lyse™ Lysozyme Solution	10,000,000 U

Transposon

Cat. No	Product	Size (UOM)
EC6P095H	TRANSFORMAX™ EC100D™ PIR-116 ELECTROCOMPETENT E. COLI	10 rxns
ECP09500	TRANSFORMAX™ EC100D™ PIR+ ELECTROCOMPETENT E. COLI	10 rxns
EZI011RK	EZ-TN5™ <R6KFORI / KAN-2> INSERTION KIT	10 rxns
EZI03T7	EZ-TN5™ <T7 / KAN-2> PROMOTER INSERTION KIT	10 rxns
EZI912D	EZ-TN5™ <DHFR-1> INSERTION KIT	10 rxns
EZI921T	EZ-TN5™ <TET-1> INSERTION KIT	10 rxns
EZI982K	EZ-TN5™ <KAN-2> INSERTION KIT	10 rxns
TNP92110	EZ-TN5 TRANSPOSASE	10 Units
TSM08KR	EZ-TN5™ <R6KFORI / KAN-2>TNP TRANSPOSOME™ KIT	10 rxns
TSM99K2	EZ-TN5™ <KAN-2>TNP TRANSPOSOME™ KIT	10 rxns
TY0261H	TYPEONE™ RESTRICTION INHIBITOR	100 µg

## IVT

Cat. No	Product	Size (UOM)
AS3107	AMPLISCRIBE™ T7 HIGH YIELD TRANSCRIPTION KIT	50 rxns
ASB71110	AMPLISCRIBE™ T7-FLASH™ BIOTIN-RNA TRANSCRIPTION KIT	10 rxns
ASF3257	AMPLISCRIBE™ T7-FLASH™ TRANSCRIPTION KIT	25 rxns
ASF3507	AMPLISCRIBE™ T7-FLASH™ TRANSCRIPTION KIT	50 rxns
DS010910	DURASCRIBE T7 TRANSCRIPTION KIT	10 rxns
DS010925	DURASCRIBE T7 TRANSCRIPTION KIT	25 rxns
R2F110C	2'-FLUORINE-DCTP (2'-F-DCTP)	1 µmole
R2F110U	2'-FLUORINE-DUTP (2'-F-DUTP)	1 µmole
RN02825	RIBONUCLEOSIDE-5'-TRIPHOSPHATE (NTP) SOLUTIONS	25 µmole each

## PCR &amp; Amplification

Cat. No	Product	Size (UOM)
MB060124	MESSAGEBOOSTER™ CDNA SYNTHESIS KIT FOR QPCR	24 rxns
MBCL90310	MESSAGEBOOSTER™ CDNA SYNTHESIS FROM CELL LYSATES KIT	10 rxns
MM070150	MMLV REVERSE TRANSCRIPTASE 1ST-STRAND CDNA SYNTHESIS KIT	50 rxns
D08104	2'-dNTP (All 4 Mixed)	10 µmole @ 2.5 mM ea.
D59104	2'-dNTP (All 4 mixed)	10 µmole @ 25 mM ea.
FS9901K	FailSafe™ PCR System	1,000 U
FS99060	FailSafe™ PCR PreMix Selection Kit	1 Kit
FS99100	FailSafe™ PCR System	100 U
FS99250	FailSafe™ PCR System	250 U
ME81210	MasterAmp™ 10X PCR Enhancer	10 ml
MHF9220	MasterAmp™ Extra-Long PCR Kit	50 rxns
MO7201	MasterAmp™ PCR Optimization Kit	60 temp
TTH72250	MasterAmp™ Tth DNA Polymerase	250 U @ 5 U/µl
UG131K	Uracil N-Glycosylase	1,000 U
W7350ML	Sterile Nuclease-Free Water	50 ml

Enzymes

Cat. No	Product	Size (UOM)
A8101	Ampligase DNA Ligase Kit	1,000 U @ 5 U/μℓ
CL4111K	CircLigase™ ssDNA Ligase	1,000 U
CL4115K	CircLigase™ ssDNA Ligase	5,000 U
CL9021K	CircLigase™ II ssDNA Ligase	1,000 U
CL9025K	CircLigase™ II ssDNA Ligase	5,000 U
D7P9205K	T7 R&DNA™ Polymerase	5,000 U @ 50 U/μℓ
D9905K	RNase-Free DNase I	5,000 U @ 1 U/μℓ
D9910K	RNase-Free DNase I	10,000 U @ 1 U/μℓ
DB0715K	Baseline-ZERO™ DNase	5,000 U
E3101K	Plasmid-Safe™ ATP-Dependent DNase	1,000 U @ 10 U/μℓ
E3110K	Plasmid-Safe™ ATP-Dependent DNase	10,000 U @ 10 U/μℓ
EN510250	Exonuclease VII	250 U @ 10 U/μℓ
ERT12910K	EPISCRIP™ RNASE H- REVERSE TRANSCRIPTASE	10,000 U
ERT12925K	EPISCRIP™ RNASE H- REVERSE TRANSCRIPTASE	25,000 U
EX4425K	Exonuclease III	25,000 U @ 200 U/μℓ
H39500	Hybridase™ Thermostable RNase H	500 U @ 5 U/μℓ
KL11101K	Exo-Minus Klenow DNA Polymerase (D355A, E357A)	1,000 U @ 10 U/μℓ
LR2D11310K	T4 RNA Ligase 2, Deletion Mutant	10,000 U @ 200 U/μℓ
LR2D1132K	T4 RNA Ligase 2, Deletion Mutant	2,000 U @ 200 U/μℓ
MRNA092	RNase A	2 ml
N6901K	RNase I	1,000 U
OC7850K	OmniCleave™ Endonuclease	50,000 U
P0503K	T4 Polynucleotide Kinase, Cloned	3,000 U
PAP5104H	Poly(A) Polymerase Tailing Kit	50 rxns
RA02825	ATP SOLUTION	25 μmole
RG90910K	RIBOGUARD™ RNASE INHIBITOR	10,000 U
RG90925	RIBOGUARD™ RNASE INHIBITOR	2,500 U
RJ411250	Rec J Exonuclease	250 U @ 10 U/μℓ
RNR07250	Ribonuclease R (RNase R)	250 U
RP8092H	RNA 5' Polyphosphatase	200 U
RT80125K	MMLV HIGH PERFORMANCE REVERSE TRANSCRIPTASE	25,000 U
TER51020	Terminator™ 5'-Phosphate-Dependent Exonuclease	40 U @ 1 U/μℓ
X40520K	Exonuclease I	20,000 U

# Plant Specific Product : Phyto Technology

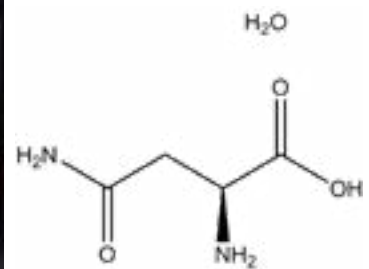
## Product Features

- 식물연구 특화 시약 및 용기(vessels)
- 다양한 application을 위한 배지 및 영양소
- 합리적 가격과 높은 재 구매율
- 홈페이지 [www.phytotechlab.com](http://www.phytotechlab.com) (미국)



## Applications

- Plant Tissue Culture Media
  - : Deficient Salts & Media
  - : Murashige & Skoog Based
  - : Vitamin Formulations
  - : Orchid Media
  - : Complete Media
  - : General Media
  - : Woody Plant Media
  - : PhytoReady Prepared Media
  - : Macro & Micronutrients
- Biochemicals
  - : Amino Acids
  - : Antimicrobials
  - : Buffers
  - : Carbohydrates
  - : Gelling Agents
  - : Plant Defense
  - : Plant Growth Regulators
  - : Vitamins
- Molecular Biology
  - : Molecular Media & Sterile Solutions
  - : Molecular Biology Kits & Reagents
  - : Other Molecular Biology
- Microbiology Media & Reagents
- Phytopathology Media & Reagents
- Phycology Media & Reagents
- Seed Testing
  - : Antimicrobials & Selection Agents
  - : Dyes, Stains & Reagents
  - : Seed Testing Media
- Equipment
  - : Culture Vessels
  - : Petri Dishes
  - : Sterilization Equipment
  - : Storage Supplies
  - : Tissue Preparation Equipment
  - : Weigh & Measure Equipment
  - : Other Equipment



PRODUCT# M5630 STORAGE TEMP. 2 to 6 °C

### DECONSTRUCTED MS MEDIA KIT

**KIT CONTENTS:**  
 Deconstructed MS Group I  
 Deconstructed MS Group II  
 Deconstructed MS Group III  
 Deconstructed MS Group IV  
 Deconstructed MS Group V  
 Debris free-EDTA Solution

PhytoTechnology Laboratories® [www.phytotechlab.com](http://www.phytotechlab.com)

### CULTUREJARS™

- Exclusively manufactured by PhytoTechnology Laboratories
- High quality, clear glass and polycarbonate
- Compatible with PhytoCaps

### PHYTOREADY™

- Prepared, gelled media
- Plant Growth Regulator Matrix: 30 prepared tubes with 16 different PGR combinations
- MS Multiplication Medium: Tubes prepared with gelled MS media

# Mini-EP Mini Electrophoresis System

## Product Features

- 외형 치수 (W x D x H, mm) : 190 x 130 x 60
- 전기영동조 치수 (W x D x H, mm) : 110 x 121 x 43
- 전기영동조 부피 : 230 ml
- Input Power : AC 100~120 V (50~60 Hz)
- Output Power : DC35 V / DC50 V / DC100 V
- Max Power : 40 W
- Timer : 0~99 mins



## Applications

- Comb 치수 (width x thickness x no.)
  - 3 mm x 1 mm x 22
  - 5.6 mm x 1 mm x 12
  - 3 mm x 1 mm x 18
  - 5.6 mm x 1 mm x 10
- Gel 외형치수 (W x D, mm) : 126 x 126 - 1 pcs
- Gel Migration Board (W x D, mm) : 110 x 60 - 2 pcs  
54 x 60 - 4 pcs
- Transformer for AC 200~240 V : AC 220 V (input)  
AC 110 V (output)

# Tube Roller : CO-02 / CO-02S



## Technical Parameters

Model	CO-02	CO-02S
Speed Range	10 rpm~80 rpm	10 rpm~80 rpm
Operation Mode	rolling and fluctuation	rolling
Amplitude	25 mm	-
Roller Quantity	6	6
Roller Length	280 mm	280 mm
Max. Load	4 kgs	4 kgs
Time Range	1 min~99 hrs 59 mins or continuous	1 min~99 hrs 59 mins or continuous
Voltage	AC 100~230 V, 50 / 60 Hz	AC 100~230 V, 50 / 60 Hz
Power	25 W	25 W
Fuse	250 V, 1 A, Φ5x20	250V, 1 A, Φ5x20
Dimensions (W x D x H, mm)	450 x 260 x 120	450 x 260 x 120
Net Weight	3.7 kgs	3.7 kgs

## EcoMate Multi-Well Plate Centrifuge

08010-00 Ecomate Multi-well Plate Centrifuge :  
Plate 전용 spin down 원심분리기

- Skirted, non-skirted 등 모든 표준 PCR Plates 사용 가능
- Capacity : 2 PCR Plates (96 wells, 384 wells)
- Max. rotational Speed : 2500 RPM
- Relative centrifuge force (RCF) : 500 x g
- Weight : 3 kgs



## Mini Centrifuge : Cubee

AQBD Cubee Mini Centrifuge :  
Rotor 교체 없이 모든 종류의 tubes 사용 가능한 소형 원심분리기

- Tubes capacity : 1.5 ml x 8, 0.5 ml x 8, 0.2 ml x 16 [8strip pcr tube]
- Speed range : 4700 RPM
- Max. RCF : 1000 x g
- Weight : 1.8 kgs
- Size (cm) : 18.3 x 15.1 x 15.3
- \* Optional accessory : 12-Strip Rotor



## Mini vortex : MTV-1

### ○ Specification

- Working style : Continuous / Short-spin
- Shaking movement : Orbital, 3 mm
- Speed Range : 800~2500 rpm
- Dimension (W x L x H, mm) : 74 x 91 x 84
- Voltage : DC6 V (4 pcs 1.5 V double A battery)
- Weight : 0.35 kgs



# Molecular Diagnostic Tests

## EndoPredict \_ 2<sup>nd</sup> Generation Breast Cancer Prognostic Kit



- ER+, HER2- 인 초기 유방암 진단 된 환자의 치료 옵션에 하나로 사용
- One Test \_ Three Clinical Answer
  1. Risk at 10 years
  2. Chemotherapy benefit (Chemotherapy에 따른 benefit 정보 제공)
  3. Risk between 5 and 15 years (Early / Late 전이 위험도 예측)
- 명확한 Risk Group 분류 (Low Risk / High Risk)  
기존 prognostic test와 달리 gene expression signature (12 genes)에 환자 개인의 tumor size 및 lymph node 전이 정보를 결합한 EPcline Score를 통해 intermediate risk group 없이 Low / High risk group 으로 명확한 분류
- Lymph node 전이 환자에도 적용이 가능 :  
3개 까지의 lymph node에 전이된 환자에 대해서도 검사 가능
- Recommendation by Guidelines for Endopredict : NCCN, ESMO, ASCO, St.Gallen, AJCC, NIC..

## Prolaris \_ Predicting 10yr Outcomes in Prostate Cancer



- Prolaris test 전립선 환자의 수술 전 Biopsy 샘플 및 수술 후 조직 모두를 이용해 46개의 cell cycle progression 유전자의 발현양과 clinicopathologic parameter (PSA, Gleason score) 결합하여 얻어진 결과지를 제공
- 암 발생후 10년 동안의 사망률 및 재발률 제공
- Only test validated in ALL NCCN risk groups
- Only test validated in ALL Gleason score
- Prolaris Score 및 Risk Assessment 정보 제공
- Recommendation by Guidelines for Prolaris :NCCN



# Genetic Cancer Tests

## ○ MyRisk \_ Hereditary Cancer Test



· 35개의 유전자를 통해 8개의 암종 (유방암, 대장암, 난소암, 자궁내막암, 위암, 췌장암, 피부암, 전립선)에 대한 위험도를 유전자 검사를 통해 확인하는 검사입니다

Myriad myRisk™ Gene List

GENES	BREAST	OVARIAN	COLORECTAL	UTERINE	MELANOMA	GASTRIC	PANCREATIC	PROSTATE	OTHER
BRCA1	●	●					●	●	
BRCA2	●	●			●		●	●	
MLH1, MSH2, MSH6, PMS2, EPCAM		●	●	●		●	●	●	●
APC			●			●	●		●
MUTYH Biallelic			●						●
MUTYH Monoallelic			●						●
NTHL1 Biallelic			●						
MSH3 Biallelic			●						
CDK4, CDKN2A (p16INK4a), (p14ARF)					●		●		
TP53	●	●	●	●	●	●	●	●	●
PTEN	●		●	●	●				●
STK11	●	●	●	●		●	●		●
CDH1	●		●			●			●
DMPK1A, SMAD4			●			●	●		●
PALB2, ATM	●						●		
NBN	●							●	
CHEK2	●		●						
BARD1	●	●							
BRIP1, RAD51C, RAD51D									
POLD1, POLE, GREM1, AXIN2, RNF43, GALNTI2, RPS20			●						
HOXB13								●	

## ○ MyRisk 검사 방법

담당의와 상의 후  
수술이나 시술 없이 채혈

Myriad 미국 본사에서  
검사 진행

2~3주 후 결과 전달

## ○ Myriad Products

Hereditary  
Breast Cancer



Hereditary  
Ovarian Cancer



Hereditary  
Endometrial Cancer



Hereditary  
Pancreatic Cancer





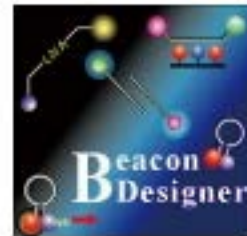
## ● qPCR Analysis Software

- Get the most out of your qPCR data with the market leading GenEx™ Enterprise software
- Basic data editing and management
- Advanced data analysis
- Webinar for Software



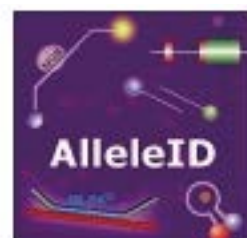
## ● Primer and Probe Design Software

- Automate Your Real Time PCR Primer and Probe Design
- Specific and Efficient Design :  
How Beacon Designer™ Makes it Possible?
- Design Options Available
  - SYBR Green Assay Design
  - HRMA Assay Design
- Dual Labeled Probe Design
  - TaqMan Probes
  - Molecular Beacons
  - Scorpions
  - FRET Probes
- Multiplex Real Time PCR Assay Design



## ● Software for Bacterial Identification, Pathogen Detection or Species Identification

- Assay Design for Bacterial Identification and More..
- Species Identification Assays / Cross Species Assays / Allele Identification Assays
- Sophisticated Algorithms for Assay Success
- Extensive Support for Real Time or Quantitative PCR Assays & SNP / Expression Microarrays
- Design Luminex xMAP Assays
- Multiplex Ligation-dependent Probe Amplification (MLPA) Assays for Copy Number and Mutation Detection



# Novogene NGS Service

## Product Features

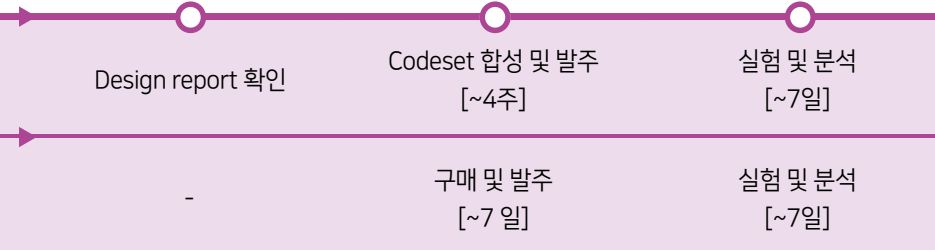
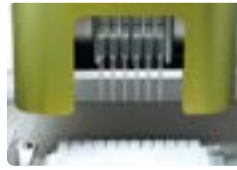
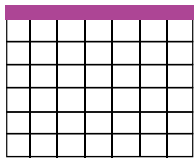
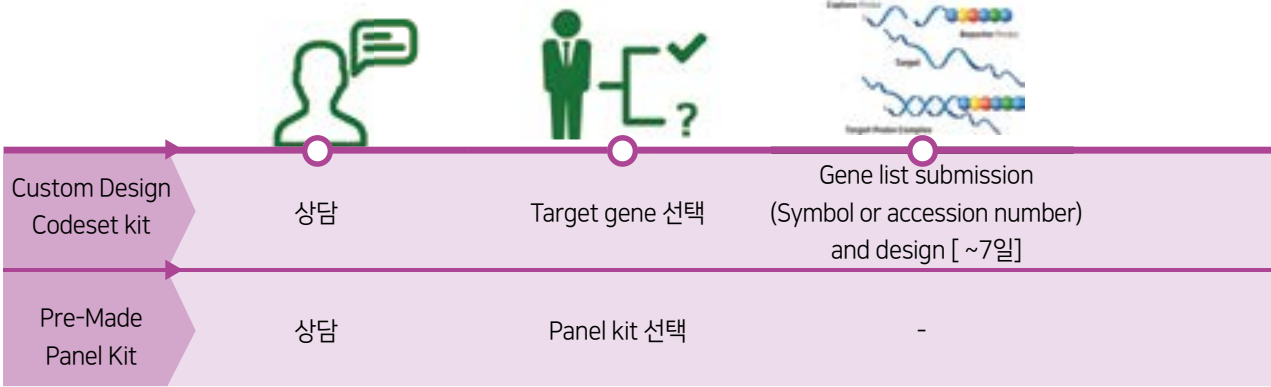
- Worldwide NGS Service Provider
- 다양한 NGS System을 이용한 서비스 제공
- High Quality / NGS data 제공 : Guarantee a Q30 score  $\geq$  80%
- 빠른 Update
  - : 최신의 Databases / 분석 Software
  - : Publication-ready Data 제공
- Reasonable Price, TAT



## Provide NGS Service

Genome Sequencing		Transcriptome Sequencing	
<ul style="list-style-type: none"> <li>· Whole Genome Sequencing                             <ul style="list-style-type: none"> <li>- Human Whole Genome Sequencing</li> <li>- Animal &amp; Plant Whole Genome Sequencing</li> <li>- Microbial Whole Genome Sequencing</li> </ul> </li> <li>· Target Capture Sequencing                             <ul style="list-style-type: none"> <li>- Human Whole Exome Sequencing</li> <li>- Whole Exome Sequencing</li> <li>- CLIA / CAP Whole Exome Sequencing</li> <li>- Target Region Sequencing</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>· Eukaryote                             <ul style="list-style-type: none"> <li>- mRNA Sequencing</li> <li>- Non-coding RNA Sequencing</li> <li>- Long non-coding RNA Sequencing</li> <li>- Small RNA Sequencing</li> <li>- Circular RNA Sequencing</li> <li>- Whole Transcriptome Sequencing</li> <li>- Isoform Sequencing (Full-length Transcript Sequencing)</li> </ul> </li> <li>· Prokaryote</li> </ul>		
Epigenomics		Metagenomics	
<ul style="list-style-type: none"> <li>· Whole Genome Bisulfite Sequencing (Gene Methylation)</li> <li>· Reduced Representation Bisulfite Sequencing (RRBS-Gene Methylation)</li> <li>· ChIP-Seq</li> <li>· RIP-Seq</li> </ul>	<ul style="list-style-type: none"> <li>· 18S / ITS Amplicon Metagenomic Sequencing</li> <li>· E16Shotgun Metagenomic Sequencing</li> </ul>	<ul style="list-style-type: none"> <li>· Including the Illumina, Pacbio and Oxford nanopore platform, Novogene is able to provide pre-made library sequencing service at highly competitive and cost-effective prices.</li> </ul>	
		Pre-made Library Sequencing	

# 나노스트링 서비스



## Sample requirement

	amount
mRNA	~100 ng (20 ng/μl)
miRNA	~100 ng (25 ng/μl)
gDNA	200~500 ng
Cell	~10,000 cells

## Protein assay

Cell	150,000 cells (500,000 cells for PBMC cell)
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# qPCR 서비스

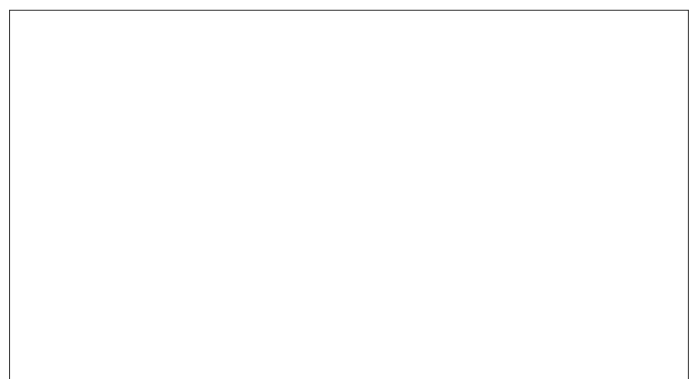


Gene Expression 서비스	<b>qPCR</b> cDNA 상태로 실험 의뢰, SYBR Green 혹은 probe를 사용하여 real-time PCR을 수행하는 경우 (probe / primer 디자인 및 합성 가능)
	<b>cDNA service</b> Real-time PCR을 위한 cDNA 합성을 의뢰하는 경우
	<b>RNA prep. service</b> Real-time PCR을 위한 샘플의 RNA 추출을 의뢰하는 경우
PKT 서비스	<b>Customized service</b> 고객의 요구와 편의에 따른 맞춤 서비스 (담당자와의 실험에 관한 상세한 상담 후, 진행)

## Complete

핵산(DNA/RNA) 추출부터 primer / probe 디자인 및 합성, Real-time PCR 까지 full service

## 대리점 정보



## (주)필코리아테크놀로지

- 서울 금천구 가산디지털1로 168 우림라이온스밸리 A-606B  
TEL. 02-2105-7020
- 대전 유성구 테크노2로 199 (용산동, 미건테크노월드 1차 201호)  
TEL. 042-862-9636