

BioD REAGENTS CATALOG

6th Edition



PARTNERS



고품질, 고성능 PCR reagents

- Real-Time PCR
- cDNA Synthesis
- Endpoint PCR
- Isothermal Amplification
- Next Generation Sequencing



분자생물학 관련 최신 시약 공급 및 전문 실험대행 서비스

- Oligo / Gene Synthesis / Custom Cloning
- Peptide Synthesis / Antibody Development
- DNA / RNA FISH Probes
- Sequencing / NGS
- PCR / Real-Time PCR / Digital PCR Services



다양한 생명과학 분야 연구개발 솔루션

- Gene Synthesis
- mRNA Synthesis
- Custom Peptide Service
- CRISPR sgRNA Services
- Antibody Services



재조합 및 효소 등 분자 진단 시약

- Restriction Enzymes
- PCR Related Products
- Gene Expression Related Products
- NGS Related Products
- Molecular Diagnostics Related Products



분자 진단 및 유전체 분석 서비스

- Whole Genome Sequencing (WGS)
- Transcriptome Sequencing (RNA-seq)
- Human Exome Sequencing (WES)
- Metagenome Sequencing
- Custom Panel



고품질 Oligo 합성 서비스

- Custom DNA Oligos
- Custom RNA Oligos
- Double Quenched Probes
- siRNA / RNAi / dsRNA
- MGB / LNA / ZNA Primers and Probes



DNA 합성 및 NGS응용 서비스

- Variant Libraries
- NGS Target Solution
- Synthetic Viral Controls
- Antibody Discovery Services

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HiQ Protein Marker
Claro ECL Solution
RENEW Stripping Buffer

Real-Time PCR & cDNA Synthesis

qPCR BIO Selection Table	DNA Kits								RNA Kits						
	qPCR BIO SYGreen Mix SYGreen Blue Mix H-ROX	qPCR BIO SYGreen Mix SYGreen Blue Mix Lo-ROX	qPCR BIO SYGreen Mix SYGreen Blue Mix Separate-ROX	qPCR BIO SYGreen Mix with Fluorescein	qPCR BIO Probe Mix Probe Blue Mix H-ROX	qPCR BIO Probe Mix Probe Blue Mix Lo-ROX	qPCR BIO Probe Mix Probe Blue Mix Separate-ROX	qPCR BIO Probe Mix No-ROX	qPCR BIO HRM Mix	qPCR BIO SYGreen 1-Step Detect 1-Step Go H-ROX	qPCR BIO SYGreen 1-Step Detect 1-Step Go Lo-ROX	qPCR BIO Probe 1-Step Go 1-Step Virus Detect H-ROX	qPCR BIO Probe 1-Step Go 1-Step Virus Detect Lo-ROX	qPCR BIO Probe 1-Step Go 1-Step Virus Detect No-ROX	qPCR BIO Probe 1-Step Go 1-Step Virus Detect Separate-ROX
Agilent (Stratagene)															
AriaMX, AriaDX		●	●			●	●		●		●		●		●
MX3000P®, MX3005P®, MX4000P®		●	●			●	●			●		●		●	
Analytik Jena															
qTOWER, qTOWER 2x		●	●				●	●		●				●	●
BMS															
Mic		●	●				●	●	●		●			●	●
Bio-Rad®															
CFX96™, CFX384™, CFX WConnect™		●	●				●	●	●		●			●	●
Chromo4™, MiniOpticon™, Opticon™, Opticon™ 2		●	●				●	●		●				●	●
iCycler®, iQ™ 5, MyiQ™				●			●	●						●	●
BJS															
Xpress®		●	●				●	●		●				●	●
Cepheid®															
SmartCycler®		●	●				●	●		●				●	●
Eppendorf															
Mastercycler® ep realplex, ep realplex 2S		●	●				●	●	●		●			●	●
Fluidigm															
BioMark™		●	●			●	●			●		●			●
Hain Lifescience															
FluoroCycler® 96		●	●				●	●		●				●	●
IT-IS Life Science															
MyGo Pro, MyGo Mini		●	●				●	●		●				●	●
PCRmax															
Eco™		●	●				●	●	●		●			●	●
Qiagen (Corbett)															
Rotor-Gene™ 3000, Rotor-Gene™ 6000, Rotor-Gene™ Q		●	●				●	●	◇		●			●	●
Roche															
LightCycler® 480, LightCycler® 96, Nano		●	●				●	●	●		●			●	●
Takara															
Thermal Cycler Dice® (TP800)		●	●				●	●		●				●	●
Techne															
PrimeQ, Quantica®		●	●				●	●		●				●	●
Thermo Fisher (Including Applied Biosystems and Life Technologies)															
5700, 7000, 7300, StepOne™, StepOne™ plus	●		●		●		●		◇	●		●			●
7500, 7500 FAST, QuantStudio™ 3, 5, 6, 7, 12k Flex, ViiA7™		●	●			●	●		◇		●		●		●
7700, 7900, 7900HT, 7900HT FAST	●		●		●		●		◇	●		●			●
Piko Real®		●	●				●	●			●			●	●

*qPCR BIO HRM Mix works with the following instruments: Thermo Fisher: StepOne™, StepOne™ plus, 7500 FAST, QuantStudio™ 6, 7, 12k Flex, ViiA7™, 7900HT FAST only Qiagen (Corbett): Rotor-Gene™ 6000, Rotor-Gene™ Q only

qPCR BIO SyGreen Blue Mix

범용적인 qPCR Master Mix의 Best Seller!

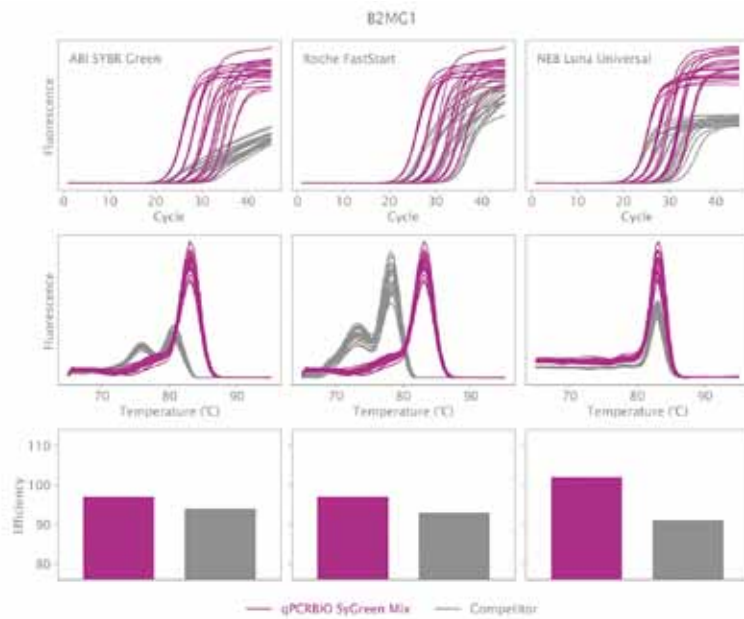
Features

- 최적화된 buffer 조성으로 높은 검출의 민감도 보장
- Fast cycling 조건 가능
- 눈으로 쉽게 볼 수 있는 blue mix 타입
- 모든 qPCR 장비에 호환 가능



Applications

- Absolute quantification
- Relative gene expression analysis
- High-throughput qPCR from genomic, cDNA and viral sequences
- Detection of extremely low copy number targets
- Crude sample PCR



Amplification of beta-2 microglobulin using qPCR BIO syGreen mix (purple curves). Amplification curves are shown in the top panel of set a and set b, melt curves are shown in the middle panel and the efficiencies of amplification are shown in the bottom panel. It shows earlier Ct, cleaner melt peaks and better efficiency compared to each of the competitor mixes.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB20.15-05	qPCR BIO SyGreen Blue Mix Lo-ROX	500rxn × 20μl
PB20.16-05	qPCR BIO SyGreen Blue Mix Hi-ROX	500rxn × 20μl
PB20.17-05	qPCR BIO SyGreen Blue Mix Separate-ROX	500rxn × 20μl

qPCRBIO SyGreen 1-Step Go Mix

단일 Tube에서 cDNA합성과 qPCR을 한 번에!

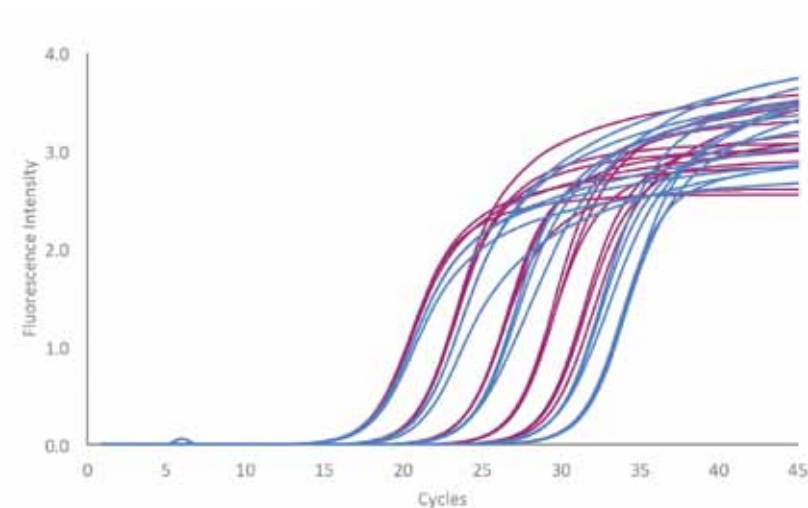
Features

- 필요한 모든 시약이 포함된 premix 타입으로 사용이 간편
- 역전사 반응 10분 내로 완료
- 2종류의 역전사용 primer로 qPCR에 최적인 cDNA를 합성



Applications

- Absolute quantification
- Relative gene expression analysis
- Detection of extremely low copy number targets



Comparison of qPCRBIO syGreen 1-step go (purple) against competitor bioline (blue).

Shows amplification traces of the ACTG1 gene from a dilution series of total RNA extracted from mouse liver. qPCRBIO syGreen 1-step go had equal performance at high RNA concentrations and superior performance at lower RNA concentrations, displaying linear spacing between amplification curves, earlier amplification by 3-4 cycles, and lower prevalence of primer dimer.

More Info



Order Information

Cat. No.	Product Name	Pack Size	Template amount
PB25.31-01	qPCRBIO SyGreen 1-Step Go Lo-ROX	100rxn × 20µl	10pg~100ng total RNA
PB25.32-01	qPCRBIO SyGreen 1-Step Go Hi-ROX	100rxn × 20µl	10pg~100ng total RNA
PB25.11-01	qPCRBIO SyGreen 1-Step Detect Lo-ROX	100rxn × 20µl	1pg~10ng total RNA
PB25.12-01	qPCRBIO SyGreen 1-Step Detect Hi-ROX	100rxn × 20µl	1pg~10ng total RNA

qPCR BIO Probe Mix

우수한 민감도로 Multiplex에 적합한 TaqMan Probe Mix

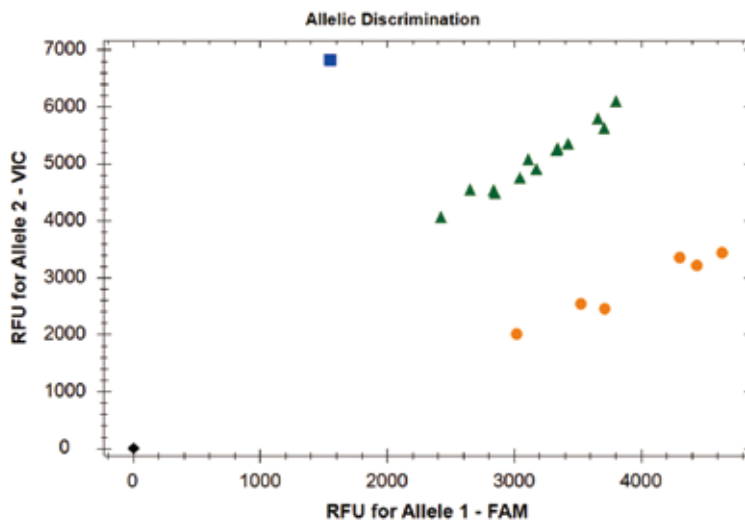
Features

- Fast cycling 조건 및 Multiplex PCR에 최적화
- 높은 민감도와 특이도
- GC 및 AT가 풍부한 시퀀스에서도 효율적인 증폭
- 최적화된 buffer 조성으로 높은 검출의 민감도 보장



Applications

- Absolute quantification
- Relative gene expression analysis
- TaqMan, scorpions and molecular beacon probes
- Detection of extremely low copy number targets
- Genotyping & allelic discrimination



Allelic discrimination for genotyping.

TaqMan[®] probes designed for SNP rs1726866 in codon 262 of the Taste 2 Receptor Member 38 (TAS2R38) gene were used in duplex reaction (VIC probe for T allele, FAM probe for C allele) to screen for this polymorphism in a population of 20 subjects, starting from extracted genomic DNA.

More Info



Order Information

*가시성을 높인 blue mix 발매

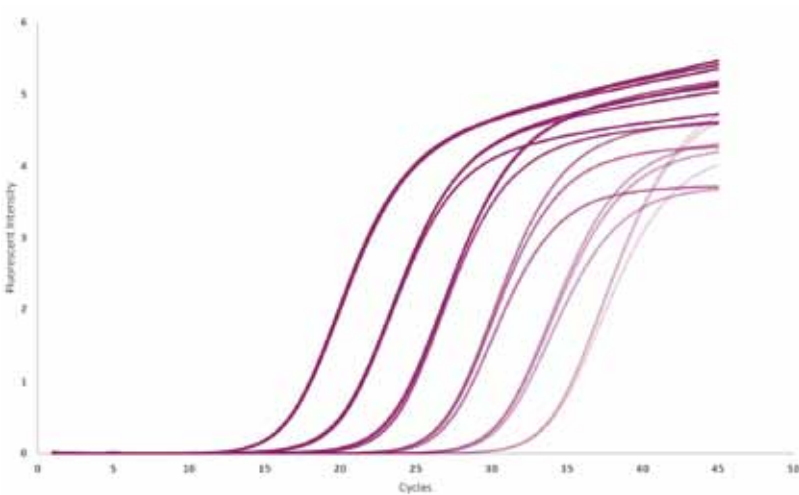
Cat. No.	Product Name	Pack Size
PB20.21-05	qPCR BIO Probe Mix Lo-ROX	500rxn × 20μl
PB20.22-05	qPCR BIO Probe Mix Hi-ROX	500rxn × 20μl
PB20.24-05	qPCR BIO Probe Mix Separate-ROX	500rxn × 20μl

qPCR BIO Probe 1-Step Go

단일 Tube에서 cDNA 합성과 qPCR을 한 번에!

Features

- 전사 반응에 필요한 모든 시약이 포함된 premix 타입으로 사용이 간편
- 역전사 반응 10분으로 완료
- 열에 안정한 modified MMLV RTase
- 2종류의 역전사용 primer로 qPCR에 최적인 cDNA를 합성



High efficiency and broad dynamic range.

It shows TaqMan[®] probe amplification traces of mouse gene ACTB using mouse liver total RNA as template in triplicate. Template concentrations are 10x serial dilutions ranging from 10pg to 1µg total RNA per 20µl reaction.

Applications

- COVID-19 detection tests
- Diagnostic real-time PCR
- Absolute quantification
- Relative gene expression analysis
- TaqMan[®], Scorpions[®] and molecular beacon probes
- Detection of extremely low copy number targets
- Multiplex or singleplex

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB25.41-01	qPCR BIO Probe 1-Step Go Lo-ROX	100rxn × 20µl
PB25.42-01	qPCR BIO Probe 1-Step Go Hi-ROX	100rxn × 20µl
PB25.44-01	qPCR BIO Probe 1-Step Go Separate-ROX	100rxn × 20µl

qPCR BIO Probe 1-Step Virus Detect

RNA Virus 진단에 최적화된 Probe 1-Step Kit

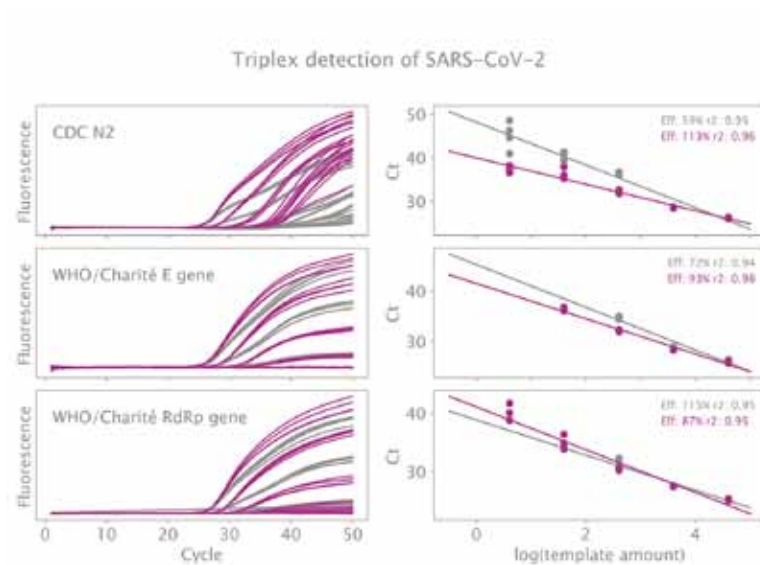
Features

- SARS-CoV-2 및 RNA virus 진단에 최적화
- 최대 55°C의 온도 조절 가능한 UltraScript RTase 포함
- 4x mix 형태, High-multiplexed assays



Applications

- SARS-CoV-2 detection and research
- Diagnostic real-time PCR
- Detection of extremely low copy number targets
- High throughput assays
- Singleplex and multiplex
- TaqMan®, Scorpions® and molecular beacon probes



Triplex detection of SARS-CoV-2 nucleic acid using CDC and WHO/Charité recommended sequences:
qPCR BIO probe 1-Step virus detect (purple) can reliably and sensitively detect SARS-CoV-2 in triplex reactions, giving earlier or equal Ct and increased sensitivity at lower template dilutions compared to the competitor kit.

More info



Order Information

Cat. No.	Product Name	Pack Size
PB25.54-01	qPCR BIO Probe 1-step Virus Detect, Separate-ROX	200rxn × 20µl
PB25.54-03	qPCR BIO Probe 1-step Virus Detect, Separate-ROX	600rxn × 20µl

qPCRBIO HRM Mix

정확한 SNP Genotyping을 위한 HRM Analysis

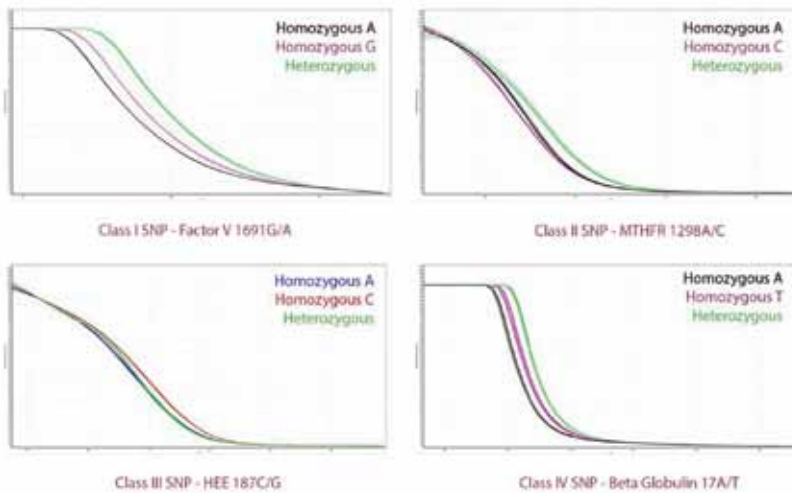
Features

- 아주 작은 sequence 차이를 빠르고 정확하게 감지
- 3세대 dye인 SyGreen II 포함
- HRM 기능을 갖춘 모든 instrument와 호환 가능



Applications

- SNP genotyping
- Gene scanning
- CpG methylation analysis



HRM analysis of class I, II, III and IV single nucleotide polymorphisms.

In each case, three samples of human genomic DNA were amplified using qPCRBIO HRM Mix with primers specific for a fragment of gene containing the SNPs.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB20.31-01	qPCRBIO HRM Mix	100rxn × 20μl
PB20.31-05	qPCRBIO HRM Mix	500rxn × 20μl

RiboShield RNase Inhibitor

RNA를 RNase로부터 안정적으로 보호

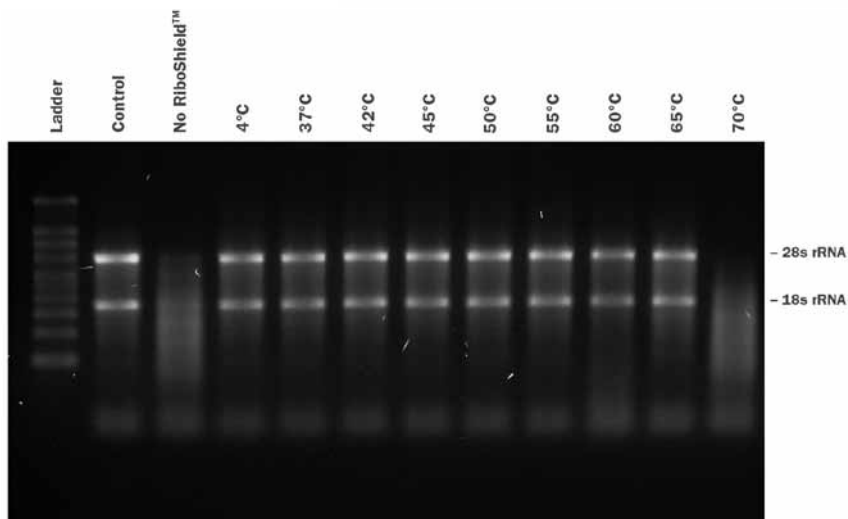
Features

- RNase A, B, C 및 진핵생물 RNase를 억제
- 최소 30분 동안 65°C까지 안정적임
- Ribonuclease & phosphatase free



Applications

- cDNA synthesis
- 1-step RT-PCR
- 1-step RT-qPCR
- RNA purification
- RNA sequencing
- In vitro transcription and translation



Stable at high temperatures.

RiboShield RNase Inhibitor was incubated at the indicated temperatures for 30 minutes. 40U of the inhibitor were then added to 1µg RNA and 5pg RNase A in 5x UltraScript buffer and incubated at 37°C for 30 minutes. Samples were then loaded on a 1% agarose gel. RiboShield™ RNase Inhibitor can inhibit RNase A at temperatures up to 65°C for at least 30 minutes.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB30.23-02	Riboshield RNase Inhibitor	1 × 62.5µl (2,500units)
PB30.23-10	Riboshield RNase Inhibitor	4 × 62.5µl (10,000units)

UltraScript 2.0 cDNA Synthesis Kit

편리한 단일 Tube 타입의 고성능 cDNA합성

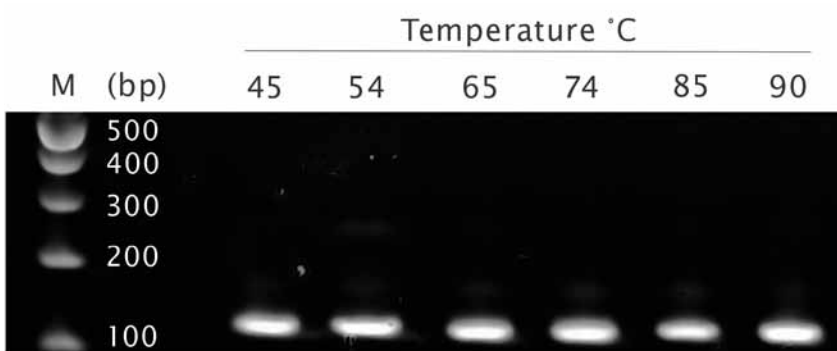
Features

- 10~30분 이내의 빠르고 간편한 합성
- 55~65°C에서 작동하는 고내열성 역전사 효소로 안정적인 합성
- 20pg의 RNA로도 높은 cDNA 수율 확보
- Oligo(dT), random hexamer를 포함한 5x mix 형태로 제공



Applications

- cDNA synthesis for PCR analysis, cloning, cDNA library preparation and next generation sequencing
- Viral RNA targets
- miRNA targets
- Efficient synthesis from total RNA or poly(A)+ RNA



Highly thermostable reverse transcriptase.

UltraScript 2.0 Reverse Transcriptase gives similar amounts of product across a wide range of temperatures in endpoint RT-PCR. Mouse reference RNA was reverse transcribed using UltraScript 2.0 Reverse Transcriptase. G-Act cDNA was amplified using qPCRBIO SyGreen Mix and visualised on EtBr 1% agarose gel.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB30.31-10	UltraScript 2.0 cDNA Synthesis Kit	100rxn × 20µl
PB30.33-01	UltraScript 2.0 Reverse Transcriptase	2 × 25µl (10,000units)

Lyophilized and Air-Dried Assays

Lyo-Ready Probe 1-Step Kit

동결건조에 적합한 Glycerol Free, Probe 1-step 시약

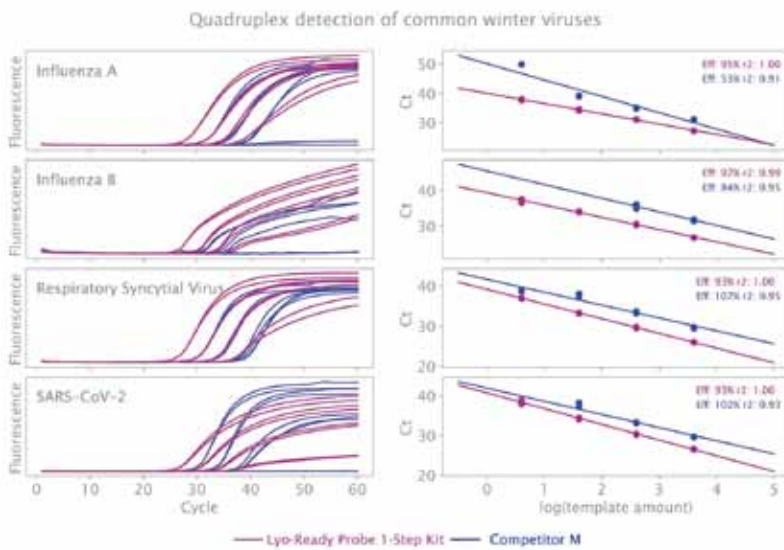
Features

- Glycerol-free 4x qPCR Mix 타입
- Bead 및 cake type에 안정적인 동결건조를 위해 첨가제 혼합되어 있음
- 별도의 고농도 UltraScript RTase 제공



Applications

- Development of lyophilised molecular diagnostic tests
- Detection of extremely low copy number targets
- Compatible with TaqMan®, Scorpions® and molecular beacon probes



Better performance after lyophilization in a multiplex setup compared to a competitor mix.

Multiplex amplification of common winter viruses (Influenza A, Influenza B, Respiratory Syncytial Virus, and SARS-CoV-2). Lyo-Ready Probe 1-Step Kit shows a better efficiency and sensitivity after lyophilization compared to Competitor M.

More info



Order Information

Cat. No.	Product Name	Pack Size
PB90.02-10	Lyo-Ready Probe Mix	2000rxn × 20µl
PB90.14-10	Lyo-Ready Probe 1-Step Kit	2000rxn × 20µl

Air-Dryable Probe 1-Step Mix

활성 손실 없이 간단하고 빠른 공기건조, Probe 1-Step 시약

Features

- 쉬운 reaction set up
(dry전에 primers & probes만 첨가하여 사용)
- 80~90분의 drying 시간
- Dry 전과 후의 성능 차이 없음
- 실온 보관 및 배송 가능



Applications

- Diagnostic probe-based qPCR & RT-qPCR
- DNA & RNA detection
- TaqMan®, Scorpions® and molecular beacon probe qPCR
- Multiplex and singleplex qPCR setup



Reliable performance after air-drying in a multiplex setup.

Multiplex amplification of Influenza A, Influenza B, Respiratory Syncytial Virus, and SARS-CoV-2 using Air-Dryable Probe 1-Step Mix before (blue bars) or after drying (purple bars).

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB90.31-10	Air-Dryable Probe Mix	2000rxn × 20µl
PB90.21-10	Air-Dryable Probe 1-Step Kit	2000rxn × 20µl

Endpoint PCR

PCRBIO Enzyme Selection Guide	Endpoint polymerases							Endpoint kits	
	PCRBIO Taq DNA Polymerase	PCRBIO HS Taq DNA Polymerase	PCRBIO Classic Taq	PCRBIO Ultra Polymerase	PCRBIO HIFI Polymerase	PCRBIO VeriFi Polymerase	PCRBIO HS VeriFi Polymerase	PCRBIO Rapid Extract PCR kit	PCRBIO 1-Step Go RT-PCR kit
Properties									
Amplicon length	< 6kb	< 6kb	< 6kb	< 6kb	< 10kb	< 20kb	< 20kb	< 6kb	< 6kb
Fidelity vs Taq	× 1	× 1	× 1	× 3	× 50	× 100	× 100	× 1	× 1
3' 5' exonuclease (proofreading) activity				◇	◇	◇	◇		
Hot start		◇		◇			◇	◇	◇
High fidelity				◇	◇	◇	◇		
Sensitivity	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
Specificity	●●●●	●●●	●●	●●●	●●●●	●●●●	●●●●	●●●	●●●
Stability at room temperature	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●
Available Formats									
Ready mix	◇	◇		◇		◇	◇	◇	
Direct loading	◇	◇		◇		◇	◇	◇	
Applications									
Routine PCR	◇	◇	◇	◇				◇	
Long PCR				◇	◇	◇	◇		
High-throughput		◇		◇			◇	◇	
Multiplex PCR		◇		◇			◇		
High fidelity PCR					◇	◇	◇		
PCR from solid tissue		◇		◇			◇	◇	
GC-rich templates		◇		◇	◇	◇	◇		
Genotyping	◇	◇	◇					◇	◇
Bisulphite PCR		◇		◇			◇		
Methylated DNA	◇	◇	◇	◇	◇	◇	◇	◇	◇
TA cloning	◇	◇	◇	◇				◇	◇
Blunt end cloning					◇	◇	◇		
Colony PCR		◇		◇			◇		
Crude sample PCR		◇		◇			◇	◇	
Site directed mutagenesis					◇	◇	◇		
Next generation sequencing					◇	◇	◇		

◇ = Suitable for application
● = Relative activity

PCRBIO Taq DNA Polymerase & Mix Red

범용적으로 다양한 PCR을 위한 Enzyme

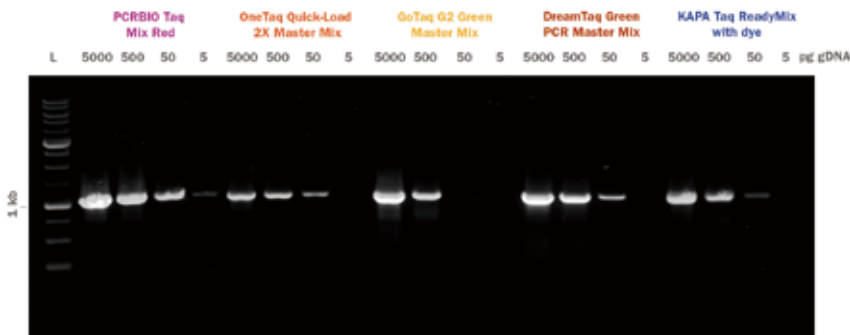
Features

- Fast PCR 조건에서 높은 수율
- TA cloning, genotyping PCR에 적합
- Amplification size: <6kb



Applications

- Routine application PCR
- TA cloning
- High-throughput PCR
- Methylated DNA
- Crude sample PCR



PCRBIO Taq Mix Red outperforms competitors at amplifying a 1kb fragment.

A PCR amplification of a 1kb fragment (GAPDH gene) was carried out using a 1 in 10 serial dilution of mouse genomic DNA (5000, 500, 50, 5pg) with PCRBIO Taq Mix Red and matching Taq mixes from competitors NEB (orange), Promega (yellow), Thermo (red) and Kapa Biosystems (blue).

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.11-05	PCRBIO Taq DNA Polymerase	1 × 100µl (500units)
PB10.12-02	PCRBIO Taq Mix	5 × 1ml
PB10.13-02	PCRBIO Taq Mix Red	5 × 1ml
PB10.13-96	PCRBIO Taq PreMix	96rxn

PCRBIO Hot Start Taq DNA Polymerase & Mixes

Target에 대한 특이성을 높인 Hot Start Enzyme

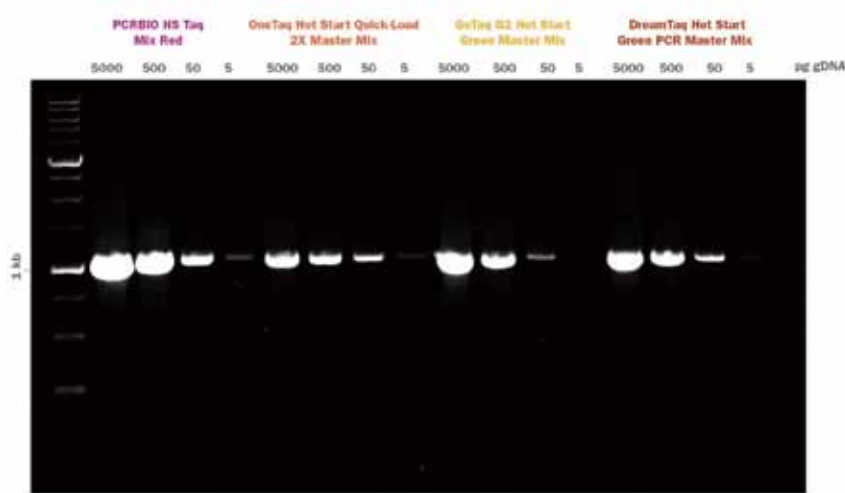
Features

- Fast PCR 조건에서 높은 수율
- Low copy number templates PCR이 가능한 hot start
- Amplification size: < 6kb



Applications

- Genotyping
- Inhibitor tolerant PCR direct from bacterial culture, blood and urine
- Colony PCR
- 'Difficult' PCR - GC and AT-rich DNA



Sensitive amplification down to 5pg of target template.

PCR amplification of a 1 kb fragment (GAPDH gene) was carried out using a 1 in 10 serial dilution of mouse genomic DNA (5000, 500, 50 and 5pg) with PCR BIO HS Taq DNA Polymerase (purple) and matching hot start Taq polymerases from competitors.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.21-02	PCRBIO HS Taq DNA Polymerase	1 × 50µl (250units)
PB10.22-02	PCRBIO HS Taq Mix	5 × 1ml
PB10.23-02	PCRBIO HS Taq Mix Red	5 × 1ml
PB10.23-96	PCRBIO HS Taq PreMix	96rxn

VeriFi Polymerase & Mixes

신장속도, 수율, 감도까지 Up! 완벽한 High Fidelity Enzyme

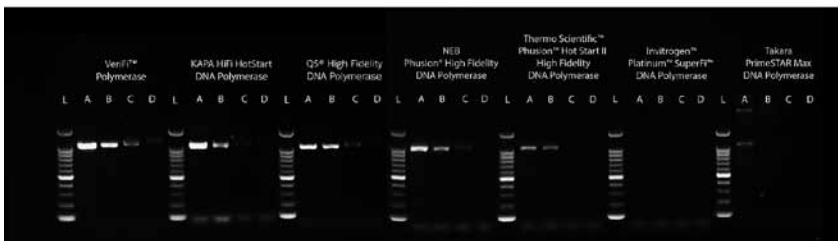
Features

- 일반 taq DNA polymerase 보다 100배 높은 fidelity
- Long & difficult target에서 높은 효율
- 최대 20kb 이상, kb 당 10초의 속도로 빠른 증폭
- GC/AT rich template에서도 높은 증폭 효율



Applications

- High fidelity PCR
- Next generation sequencing
- Long range PCR
- Site-directed mutagenesis
- Cloning



Amplification of targets with high sensitivity and specificity compared to leading competitors. Amplification of a 1.0 kb fragment of the GAPDH gene with different starting template amounts of mouse genomic DNA. A: 20 ng, B: 3.2 ng, C: 0.5 ng, D: 0.08 ng. GC content is 51%. L: PCRBIOLadder IV.

More info



Order Information

Cat. No.	Product Name	Pack Size
PB10.42-01	VeriFi Polymerase	1 × 50µl (100units)
PB10.43-01	VeriFi Mix	100rxn × 50µl
PB10.47401	VeriFi Mix Red	100rxn × 50µl

VeriFi Hot Start Polymerase & Mixes

Multiplex PCR을 위한 AptaLock Hot Start Fidelity Enzyme

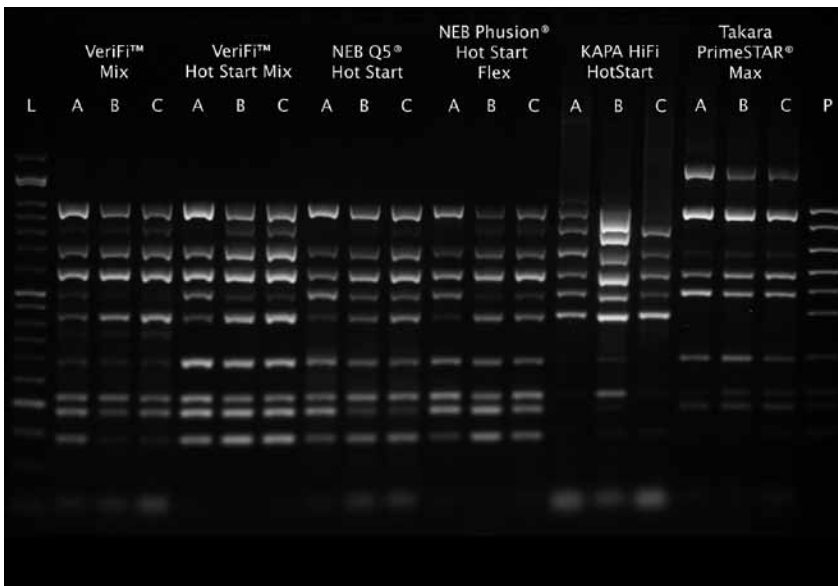
Features

- PCRBio VeriFi Polymerase의 hot start version
- 일반 Taq DNA Polymerase 보다 100배 높은 fidelity
- Proofreading 기능과 AptaLock hot start 기술을 더해 효과적인 PCR 가능
- 24시간 동안 안정한 reaction mix



Applications

- High fidelity PCR
- Next generation sequencing
- Long PCR
- Multiplex and high throughput PCR
- Site-directed mutagenesis
- Cloning



Superior performance in multiplex reactions.

10-plex PCR using lambda phage genome (6 targets) and mouse genome (4 targets) at different annealing temperatures (A: 63.0°C, B: 61.5°C, C: 60.5°C). The starting template amount is 1pg lambda DNA and 1ng mouse gDNA. Amplicon lengths are between 139bp and 962bp.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.45-01	PCRBio HS VeriFi Polymerase	1 × 50µl (100units)
PB10.46-01	PCRBio HS VeriFi Mix	100rxn × 50µl
PB10.47-01	PCRBio HS VeriFi Mix Red	100rxn × 50µl

PCRBIO 1-Step Go RT-PCR Kit

단일 튜브 cDNA 합성 및 PCR을 위한 Kit

Features

- 2x mix로 사용자 편의성
- 넓은 온도 범위: 45~55°C
- 낮은 copy에서도 증폭 가능한 높은 민감도
- GC/AT rich template에서도 높은 증폭 효율



Applications

- Gene expression analysis
- Transcription analysis
- Gene cloning
- Multiplex RT-PCR

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.53-05	PCRBIO 1-Step Go RT-PCR Kit	50rxn × 50µl
PB10.53-10	PCRBIO 1-Step Go RT-PCR Kit	100rxn × 50µl

PCRBIO dNTP Mix

PCR에 사용되는 고순도(>99%) dNTP Mix

Features

- Ultra-pure
- Stable
- Versatile



Applications

- Standard PCR
- Real-time PCR
- High fidelity PCR
- 1-Step PCR
- Isothermal amplification
- DNA sequencing

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.71-10	PCRBIO dNTP Mix 10mM Each (40mM Total)	1 × 1ml
PB10.72-10	PCRBIO dNTP Mix 25mM Each (100mM Total)	1 × 1ml

DNA Extraction

PCRBIO Rapid Extract Kits

Mouse Tail과 같은 조직 시료를 오직 Lysis만으로 15분안에 추출

Features

- 15분 이내에 DNA 추출 가능
- Sample types: mouse tail clip & ear punch, animal tissue, hair follicle, buccal swab, FFPE tissue
- Taq Mix Red를 통한 direct gel loading
- 복잡한 templates에서도 추출 가능



Applications

- Genotyping
- Transgene detection
- Knockout analysis
- Sequencing



a. Mouse tail DNA rapid extraction comparison

PCRBIO Rapid Extract PCR Kit was used to extract DNA from 3mg of mouse tail clipping following the standard 15 min protocol. amplify a 1kb fragment of mouse GAPDH gene. Row 1 shows results from PCRBIO.



b. Mouse ear DNA rapid extraction and 2.5kb amplification using supplied PCR reagent

PCRBIO Rapid Extract PCR Kit was used to extract DNA from 3mg of mouse ear clipping following the standard 15 min protocol. amplify a 2.5kb fragment of the mouse Calnexin gene. Row 1 shows results from PCRBIO.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB10.24-08	PCRBIO Rapid Extract PCR Kit	80rxn × 50µl
PB15.11-08	PCRBIO Rapid Extract Lysis Kit	80rxn × 50µl

Isothermal Amplification

IsoFast Bst Polymerase & Mix

Whole Genome Amplification에 적합한 등온증폭시약

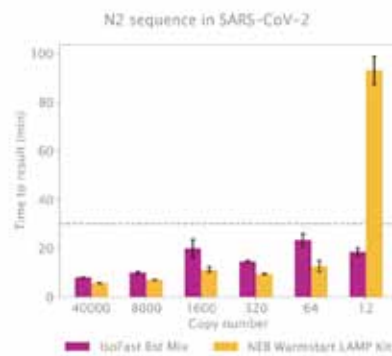
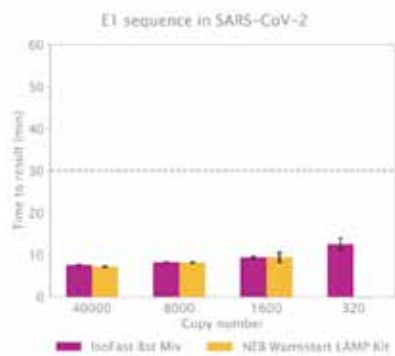
Features

- 빠른 증폭 효율을 위해 설계
- 65°C 30분의 protocol (최적의 활동 온도)
- 편리한 mix type 및 fluorescent dye 제공
- Glycerol-free enzyme



Applications

- LAMP 분자진단
- 현장진단 (POCT) 키트 제조
- 동식물 질병 진단
- 식품시험
- 바이러스 검사: TB, West Nile, Ebola, SARS-CoV-2



Rapid detection of SARS-CoV-2 E1 and N2 sequence.

Isothermal amplification of E1 and N2 targets in SARS-CoV-2 RNA using IsoFast Bst 1-Step Mix and compared to results obtained with NEB kit.

More info



Order Information

Cat. No.	Product Name	Pack Size
PB80.10-01	Isofast Bst Polymerase	1 × 200µl (1,600units)
PB80.12-01	Isofast Bst Mix	100rxn × 25µl
PB80.21-01	Isofast Bst 1-Step Mix	100rxn × 25µl

IsoFast Hot Start Bst Polymerase & Mixs

분자진단 및 현장진단에 최적화된 최신 등온증폭시약

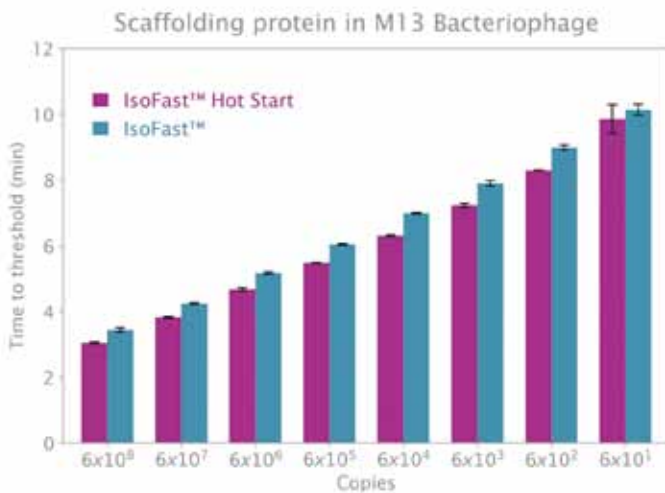
Features

- 초고감도 표적 검출을 위한 AptaLock™ hot start 기술
- 빠른 중합 시간: 10분 이내 결과 도출
- 냉온 및 상온 설정 모두에 이상적
- Colourimetric assay에 사용 가능



Applications

- Colourimetric Isothermal amplification
- Colourimetric LAMP
- Positive/negative DNA testing
- Rapid target screening
- Point-of-care testing



Improved speed with IsoFast Hot Start Bst Polymerase:

Isothermal amplification of the M13 bacteriophage target sequence in the scaffolding protein gene from the M13 bacteriophage genome using IsoFast Hot Start Bst Mix and IsoFast Bst Mix. IsoFast Hot Start Bst Mix shows faster amplification when compared to IsoFast Bst Mix.

More info



Order Information

Cat. No.	Product Name	Pack Size
PB80.40-01	IsoFast Hot Start Bst Polymerase	1 × 200μL (1,600units)
PB80.41-01	IsoFast Hot Start Bst Polymerase with Dye	100rxn × 25μL
PB80.42-01	IsoFast Hot Start Bst Mix	100rxn × 25μL

Next Generation Sequencing

VeriFi Library Amplification Mix

NGS Library Amplification 키트

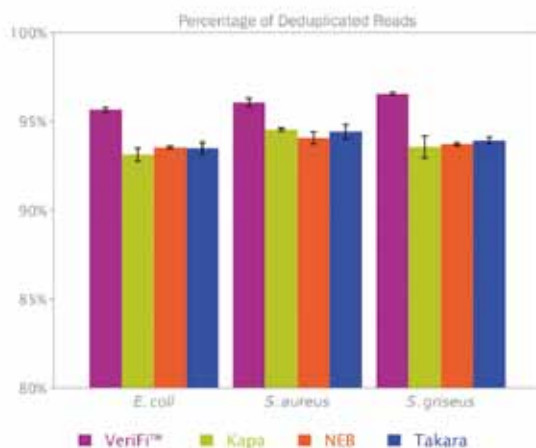
Features

- GC bias, 높은 GC/AT 타겟에 이상적임
- AptaLock™ 핫 스타트 기술로 감도와 특수성 극대화
- Taq DNA 중합효소 대비 100배 높은 충실도
- 상온설정



Applications

- NGS library amplification
- Whole genome sequencing
- RNA-Seq
- Multiplex and high throughput
- PCR
- GC/AT rich target sequencing
- Metagenomic studies



Higher number of unique reads per dataset.

The number of uniquely mapped reads for three microbial genomes with different average GC content (E. coli ~50% GC, S. aureus ~30% GC, and S. griseus ~70% GC) shown as a percentage of total reads in four sequencing datasets. NGS library amplification with VeriFi Library Amplification Mix leads to a higher number of unique reads per dataset after read deduplication compared to leading competitors.

More Info



Order Information

Cat. No.	Product Name	Pack Size
PB72.10-01	VeriFi Library Amplification Mix	50rxn × 50µl
PB72.10-05	VeriFi Library Amplification Mix	250rxn × 50µl

Lab Essentials

HiQ Agarose

DNA 전기영동 Agarose

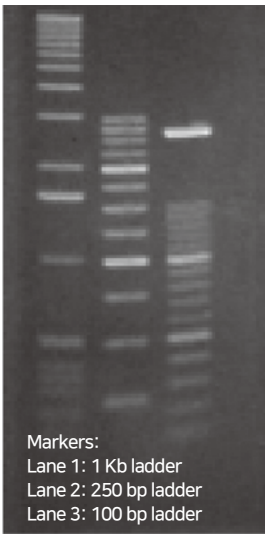
Features

- 순도가 높아 낮은 농도에서도 강한 gel을 만듦
- 500bp~20kb까지 일반적인 size 분리에 적합
- 강도가 높아 crack 발생이 적음
- 뛰어난 투명성과 낮은 background로 선명한 밴드의 가시성 확보



Applications

- Separating DNA/RNA sample of different sizes
- Checking the quality and purity of DNA samples
- Isolating specific DNA fragments
- Verifying successful RNA extraction or purification
- Diagnostic testing



ASH Content	≤ 0.45%
Sulfate	≤ 0.1%
Clarity	≤ 4 NTU
Gel Strength	≥ 1000g/cm ² (1%) ≥ 2200g/cm ² (1.5%)
Gelling Temperature	36 ± 1.5°C
Melting Temperature	88 ± 1.5°C
DNase/RNase	Negative
Separations of Nucleic Acid	250bp ~ 23Kb

More Info



Order Information

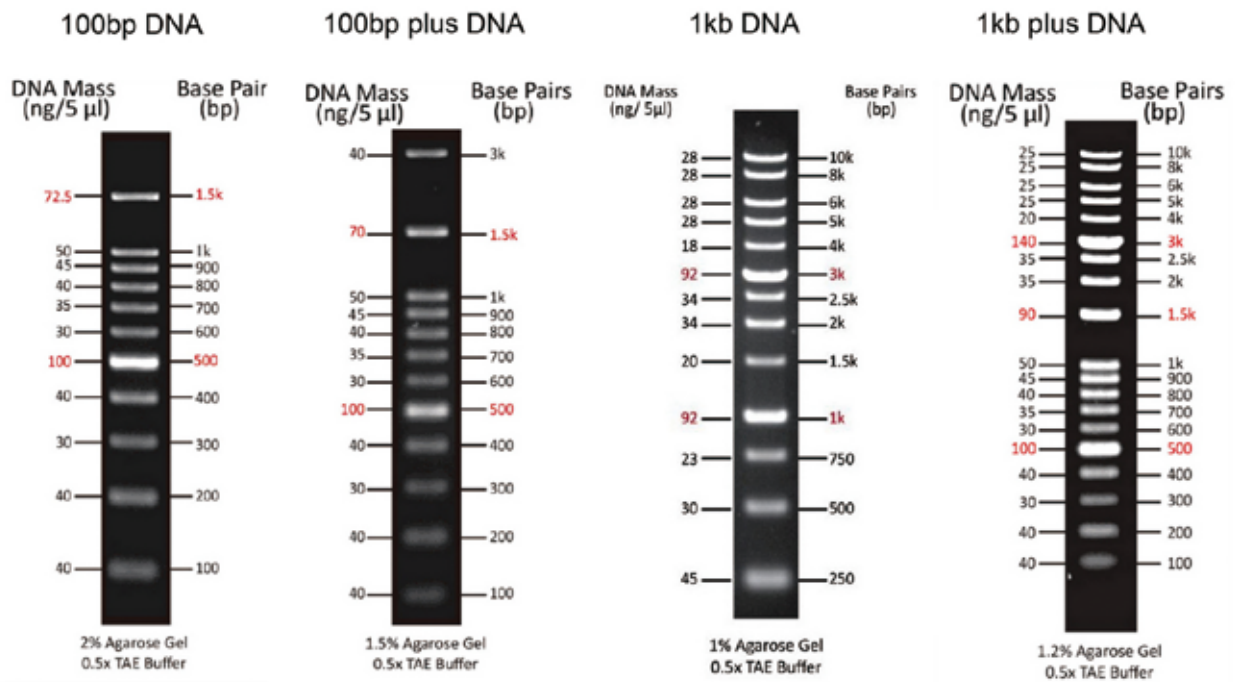
Cat. No.	Product Name	Pack Size
A0024	HiQ Agarose	1 × 500g
A0025	HiQ Agarose	5 × 500g

HiQ DNA Marker

선명하고 안정적인 DNA size marker

Features

- 깔끔하게 분리되는 band
- 상온에서 6개월 이상 안정
- Loading dye 포함된 read-to-use 제품



Order Information

Cat. No.	Product Name	Pack Size
A0008	HiQ 100bp DNA Marker	1 × 500μl
A0010	HiQ 100bp Plus DNA Marker	1 × 500μl
A0012	HiQ 1Kb DNA Marker	1 × 500μl
A0014	HiQ 1Kb Plus DNA Marker	1 × 500μl

HiQ DNA Marker goRed Mix

Fluorescent Staining & Loading Dyes가 포함된 DNA Marker

Features

- 넓은 size range로 다양한 size의 DNA를 정확하게 구별
- 깔끔하게 분리되는 band
- Fluorescent staining & loading dyes가 포함된 Ready-to-use



Order Information

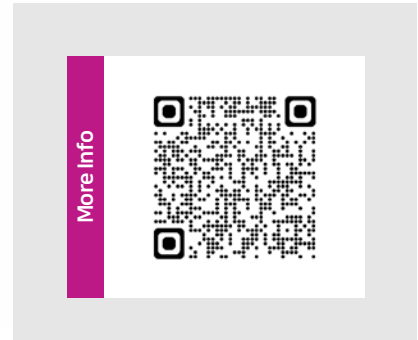
Cat. No.	Product Name	Pack Size
A0016	HiQ 100bp DNA Ladder(goRed Mixed)	1 × 600µl
A0018	HiQ 100bp Plus DNA Ladder(goRed Mixed)	1 × 600µl
A0020	HiQ 1Kb DNA Ladder(goRed Mixed)	1 × 600µl
A0022	HiQ 1Kb Plus DNA Ladder(goRed Mixed)	1 × 600µl

HiQ BlueMango Staining Solution (20,000x)

안정적인 EtBr 대체 핵산염색시약

Features

- 인체에 무해한 형광 염료가 포함되어 안전하게 사용
- EtBr 사용법과 동일하게 pre-staining, de-staining 가능
- 발암성이 없는 안전한 폐기 물질
- UV Imaging이나 LED system(420 or 480nm)에서 확인



Order Information

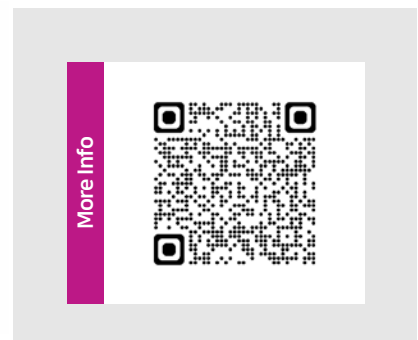
Cat. No.	Product Name	Pack Size
A0003	HiQ BlueMango Staining Solution (20,000x)	2 × 500µl
A0004	HiQ BlueMango Staining Solution (20,000x)	10 × 500µl

HiQ goRed DNA Loading Dye(6x)

안전한 EtBr대체 핵산염색 Dye

Features

- 인체에 무해한 형광 염료가 포함되어 안전하게 사용
- DNA loading dye처럼 사용(DNA에 goRed를 5:1 비율로 mix)
- 발암성이 없는 안전한 폐기 물질
- UV imaging system(300 or 312nm)에서 확인



Order Information

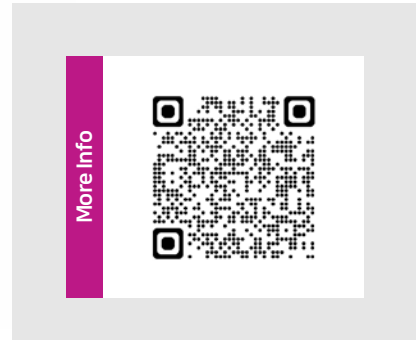
Cat. No.	Product Name	Pack Size
A0005	HiQ goRed DNA Loading Dye (6X)	1 × 1ml
A0006	HiQ goRed DNA Loading Dye (6X)	5 × 1ml

HiQ Gel Loading Buffer(6x)

3-Color Sample Loading Dye

Features

- Agarose 및 polyacrylamide gels 전기영동 시 DNA 샘플 확인용
- 3개의 염료 함유: Xylene Cyanol FF, Bromophenol Blue, Orange G
- 2% TAE agarose: 800bp, 150bp, 30bp
- 1% TAE agarose: 4,000bp, 500bp, 50bp



Order Information

Cat. No.	Product Name	Pack Size
A0007	HiQ Gel Loading Buffer (6X)	1 × 500µl

Western Blot Reagents

SurePAGE Bis-Tris Gel

뛰어난 해상도의 단백질 전기영동 Gel

Features

- Large well volume으로 80 μ l까지 수월한 loading
- 일관성 있는 고해상도 밴드
- 최대 20분 이내로 빠른 gel running 시간
- 모든 종류의 gel tank와 호환



More Info



Order Information

Acrylamide %	Wells No.	Well volume	Quantity	Cat. No.
4-12%	10, 12, 15	80, 60, 40 μ l	10gels	M00652, M00653, M00654
4-20%	10, 12, 15	80, 60, 40 μ l	10gels	M00655, M00656, M00657
8-16%	10, 12, 15	80, 60, 40 μ l	10gels	M00658, M00659, M00660
8%	10, 12, 15	80, 60, 40 μ l	10gels	M00661, M00662, M00663
10%	10, 12, 15	80, 60, 40 μ l	10gels	M00664, M00665, M00666
12%	10, 12, 15	80, 60, 40 μ l	10gels	M00667, M00668, M00669

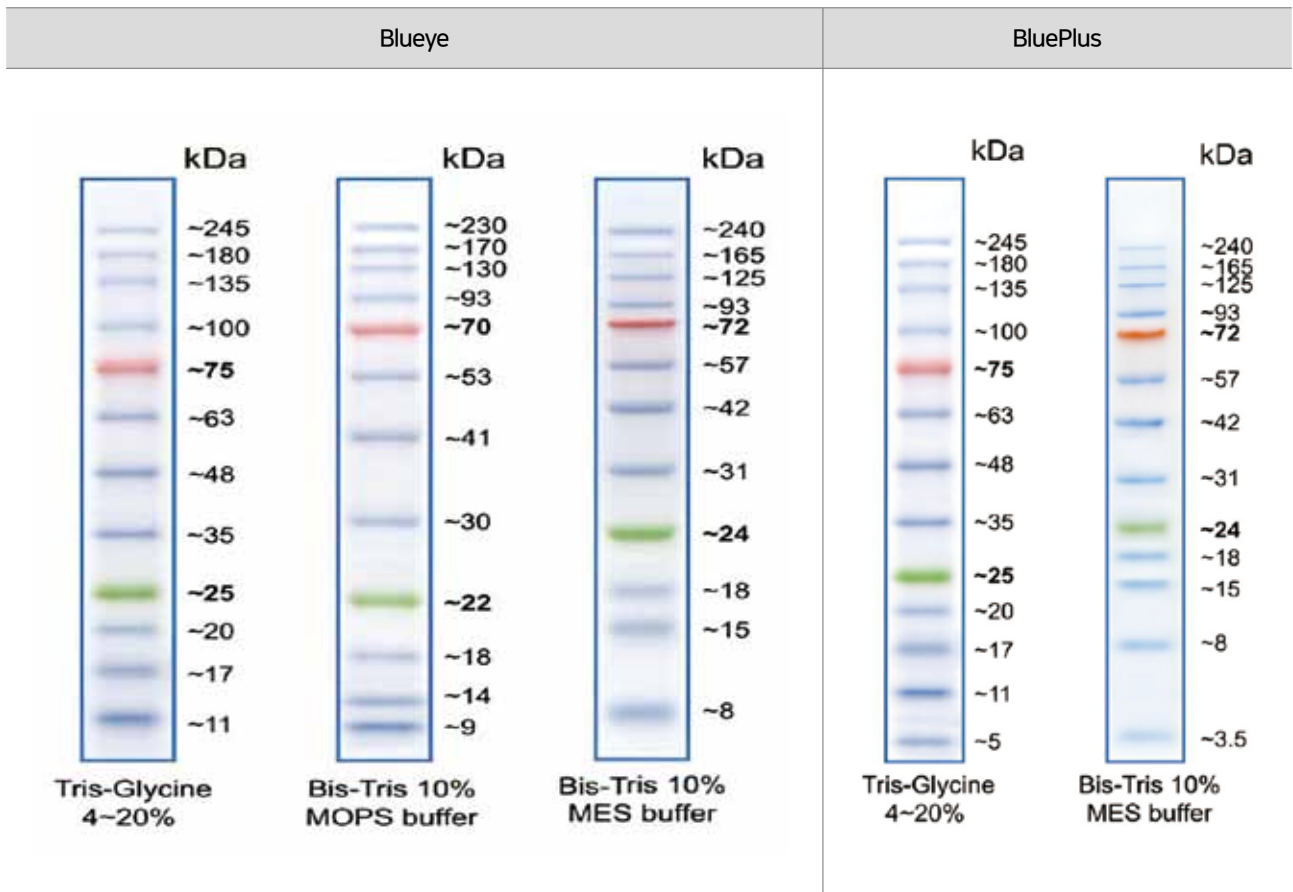


HiQ Protein Marker

3가지 컬러로 깔끔한 Band 구별

Features

- Size별 3개 color로 보여 구별이 용이
- 폭넓은 kDa (3.5~245kDa) 로 size에 따라 용도에 맞는 선택
- Glycine, MOPS, MES Buffer의 SDS-PAGE Buffer System에 적용 가능
- Loading dye가 포함되어 있어 바로 사용 가능



Order Information

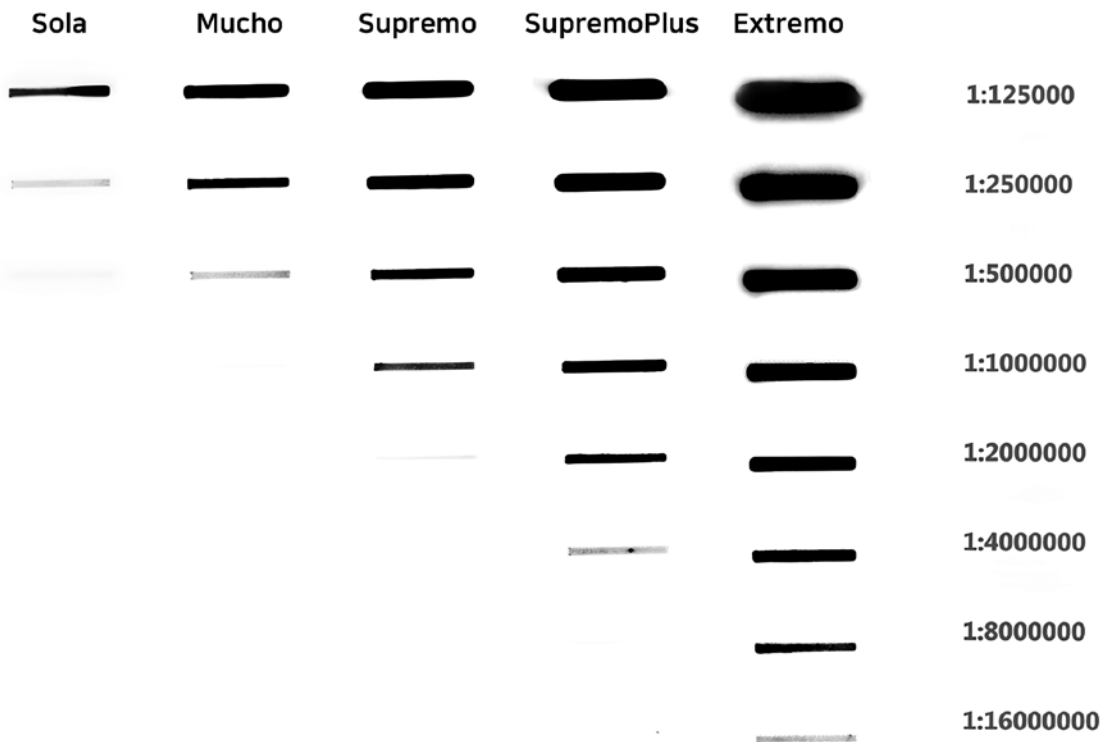
Cat. No.	Product Name	Pack Size
A0026	HiQ Blueye Protein Marker, 10 to 245kDa	1 × 500µl
A0028	HiQ Blueplus Protein Marker, 3.5 to 245kDa	1 × 500µl

Claro ECL Solution

Western Blot Detection Kit

Features

- 고감도로 낮은 antibody 농도에서도 높은 감광을 지님
- Long duration time: exposure time별 반복 측정 가능
- 2개의 시약 혼합 후 24시간 안정
- 다양한 sensitivity: 실험 조건에 맞게 sensitivity level을 선택하여 사용



Order Information

Cat. No.	Product Name	Pack Size
A0030	Claro Sola ECL Solution, Low Picogram	2 × 125ml
A0031	Claro Mucho ECL Solution, Mid Femtogram	2 × 125ml
A0032	Claro Supremo ECL Solution, Mid to Low Femtogram	2 × 50ml
A0033	Claro SupremoPlus ECL Solution, Low Femtogram	2 × 50ml
A0074	Claro Extremo ECL Solution, Trace amount	2 × 50ml

RENEW

Stripping Buffer Solution

Features

- Effective: 대부분의 1/2차 항체를 짧은 시간 내에 제거
- Gentle: 표적 단백질을 손상시키지 않음
- Saves time: 실험과정을 다시 수행할 필요가 없음
- Safe: 냄새 없는 무독성 버퍼



More Info



Order Information

Cat. No.	Product Name	Pack Size
SBS069, 0500	RENEW Stripping Buffer	2 × 250ml

GENE SYNTHESIS by GenScript

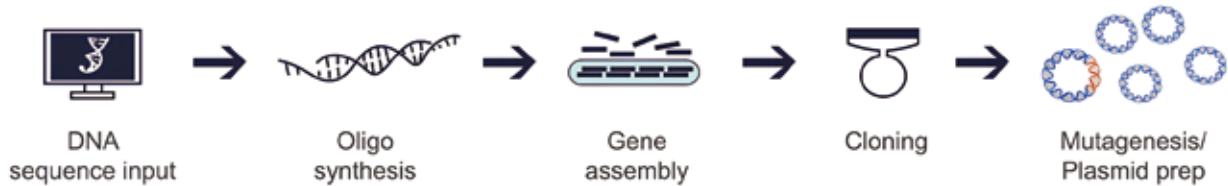
탁월한 사용자 맞춤성을 제공하는 진스크립트 유전자 합성 서비스

진스크립트의 최신 유전자 합성 서비스는 처음부터 연구자의 다양한 downstream application을 염두에 두고 설계되어 탁월한 품질과 빠른 합성 시간을 보장합니다.

Features

- 무료 codon optimization
- 비교할 수 없는 생산 능력-최대 200K bp
- 100%의 서열 정확도 보장
- 신속한 생산 및 배송-싱가포르에서 합성

One Stop Solution



Service Details

Sequence Input	Length: Up to 200,000 bp Format: Nucleotide or amino acid sequences
Cloning Options	Vectors: Choose from GenScript clone / expression vectors, or your vectors Cloning Methods: Choose from restriction cloning, or seamless cloning
Plasmid DNA Options	Quantity: Choose from 10µg to 2g Supercoil: Choose from predominantly supercoil, ≥ 80%, or ≥ 90% supercoil Endotoxin Level: Choose from ≤ 0.1 / ≤ 0.01 / ≤ 0.005 EU/µg, or not guarantee

Delivery Specifications

- 4 µg of lyophilized plasmid containing your gene insert
- Sequence chromatograms covering your gene (electronic)
- Construct map for the plasmid (electronic)
- Quality assurance certificate

Inquiry & Order: oligo@bio-d.co.kr

More Info



(주)바이오디

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