

DNA Purification

PCR

DNA Marker

DNA Analysis

Product Series

CONTENTS



DNA Purification

<i>EasyPure</i> [®] Genomic DNA Kit	1
<i>EasyPure</i> [®] Plant Genomic DNA Kit	1
<i>EasyPure</i> [®] Blood Genomic DNA Kit	1
<i>MagicPure</i> [®] Stool Genomic DNA Kit	1
<i>EasyPure</i> [®] Stool Genomic DNA Kit	1
<i>EasyPure</i> [®] Micro Genomic DNA Kit	1
<i>MagicPure</i> [®] FFPE Tissue Genomic DNA Kit	2
<i>EasyPure</i> [®] FFPE Tissue Genomic DNA Kit	2
<i>EasyPure</i> [®] HiPure Plasmid MiniPrep Kit	2

PCR

<i>TransTaq</i> [®] DNA Polymerase High Fidelity (HiFi)	3
<i>TransStart</i> [®] <i>TopTaq</i> DNA Polymerase	3
<i>PerfectStart</i> [™] <i>Taq</i> DNA Polymerase	4
<i>TransDirect</i> [®] Plant Tissue PCR Kit	4
<i>TransDirect</i> [®] Mouse Genotyping Kit	4

DNA Marker

DNA Marker	7
GelStain	8
Agarose	8

1 DNA Purification

EasyPure® Genomic DNA Kit

- ◆ Fast & high yield (up to 15 µg).
- ◆ Specific binding with DNA by silica-based column.
- ◆ Broad sample range from a variety of mammalian cells, tissues, *E.coli* and yeast.

DNA yield from 25 mg different mouse tissues

Tissue	Heart	Liver	Spleen	Lung	Kidney	Muscle
Yield	~5 µg	~10 µg	~12 µg	~5 µg	~10 µg	~2.5 µg

EasyPure® Plant Genomic DNA Kit

- ◆ Fast & high yield (up to 15 µg).
- ◆ Complete removal of pigment, polysaccharides and other impurities to improve binding efficiency of DNA.

DNA yield from different fresh plant leaves (100 mg)

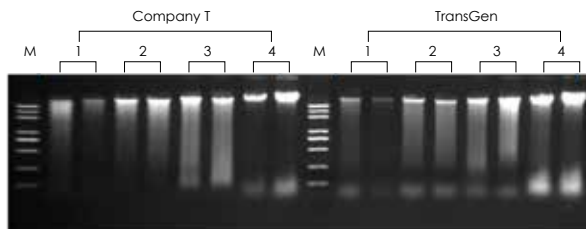
Material	Tobacco leaves	Wheat leaves	Sweet leaves	Pepper leaves	Rape leaves	Rice leaves	Soybean leaves
Yield	~10 µg	~7 µg	~9 µg	~6 µg	~5 µg	~8 µg	~7 µg

EasyPure® Blood Genomic DNA Kit

- ◆ Simple and fast within 30mins.
- ◆ High DNA yield up to 40 µg.

MagicPure® Stool Genomic DNA Kit

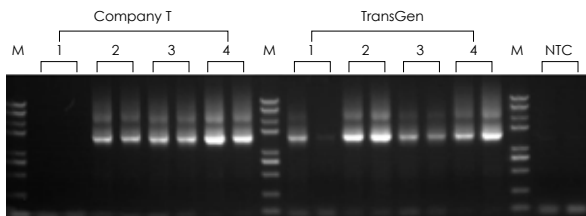
- ◆ Simple & Fast.
- ◆ High yield and purity, enabled by optimized buffer for stool samples and spin columns with specific adsorption for DNA, achieving effective removal of inhibitors in stool.



Stool gDNA of different species was isolated respectively, using *MagicPure*® Stool Genomic DNA Kit (EC801) from TransGen and a product from Company T.

M: *Trans2K*® Plus II DNA Marker

1: Mouse 2: bovine 3: goat 4: Human



MagicPure® Stool and Soil Genomic DNA Kit (EC801) from TransGen and a product from Company T were used to isolate gDNA from stool samples of different species respectively, from which 16s rRNA genes were amplified.

M: *Trans2K*® Plus II DNA Marker

1: Mouse 2: bovine 3: goat 4: Human

EasyPure® Stool Genomic DNA Kit

- ◆ Simple & Fast.
- ◆ High yield and purity, enabled by optimized buffer for stool samples and magnetic beads with specific adsorption for DNA, achieving effective removal of inhibitors in stool.

EasyPure® Micro Genomic DNA Kit

- ◆ Specific binding with DNA by silica-based column.
- ◆ Broad sample range from a variety of materials including blood, dried blood spots, serum/plasma, outwash, hair follicles, tissues, microdissected tissues.

MagicPure® FFPE Tissue Genomic DNA Kit

- ◆ Simple & Fast.
- ◆ High yield and purity, enabled by optimized buffer for paraffin-embedded tissue samples and magnetic beads with specific adsorption for DNA, achieving effective removal of inhibitors such as proteins and salts.

EasyPure® FFPE Tissue Genomic DNA Kit

- ◆ Excellent performance for formalin-fixed tissue, paraffin-embedded tissue sections.
- ◆ Superior lysis capability, rapid purification, high yield.
- ◆ High purity: DNA binds to silica-based membrane specifically, while contaminants and inhibitors such as proteins and salts flow through.

EasyPure® HiPure Plasmid MiniPrep Kit

- ◆ High yield (up to 40 µg) and high quality plasmid DNA from ≤20 ml (LB) of bacterial culture.
- ◆ Visible lysis and neutralization operation, thereby ensuring the quality of plasmid extraction.
- ◆ High purity with endotoxin removal on column.
- ◆ Suitable for transfection.

Publications with TransGen DNA Purification Series

- Guangtao Zhu et al. Rewiring of the fruit metabolome in tomato breeding. *Cell* 2018 (Genome Analysis Laboratory of the Ministry of Agriculture, Agricultural Genomics Institute at Shenzhen, Chinese Academy of Agricultural Sciences, Shenzhen, Guangdong)
application product: *EasyPure® Quick Gel Extraction Kit*, [IF=30.41].
- Jianmei Luo, et al. Characterization of a novel strain phylogenetically related to *Kocuria rhizophila* and its chemical modification to improve performance of microbial fuel cells. *Biosens Bioelectron* 2015 (Key Laboratory of Industrial Fermentation Microbiology (Tianjin University of Science & Technology), Ministry of Education, Tianjin Key Lab of Industrial Microbiology, College of Biotechnology, Tianjin University of Science and Technology, Tianjin)
application product: *EasyPure® Genomic DNA Kit*, [IF=7.6133].

Product Name	Cat. NO	Specifications	Price (USD)
<i>EasyPure®</i> Genomic DNA Kit (with RNase A)	EE101-01	50 rxns	\$72.89
	EE101-02	200 rxns	\$262.00
<i>EasyPure®</i> Genomic DNA Kit	EE101-11	50 rxns	\$61.22
	EE101-12	200 rxns	\$216.00
<i>EasyPure®</i> Plant Genomic DNA Kit (with RNase A)	EE111-01	50 rxns	\$65.60
	EE111-02	200 rxns	\$233.00
<i>EasyPure®</i> Plant Genomic DNA Kit	EE111-11	50 rxns	\$58.31
	EE111-12	200 rxns	\$210.00
<i>EasyPure®</i> Blood Genomic DNA Kit (with RNase A)	EE121-01	50 rxns	\$65.60
	EE121-02	200 rxns	\$233.00
<i>EasyPure®</i> Blood Genomic DNA Kit	EE121-11	50 rxns	\$58.31
	EE121-12	200 rxns	\$210.00
<i>MagicPure®</i> Stool Genomic DNA Kit (With Magnetic Stand)	EC601-01	50 rxns	\$190.00
<i>MagicPure®</i> Stool Genomic DNA Kit (Without Magnetic Stand)	EC601-11	50 rxns	\$160.00
<i>EasyPure®</i> Stool Genomic DNA kit	EE301-01	50 rxns	\$146.00
<i>EasyPure®</i> Micro Genomic DNA Kit	EE181-01	50 rxns	\$157.00
<i>MagicPure®</i> FFPE Tissue Genomic DNA Kit	EC701-01	50 rxns	\$350.00

Product Name	Cat. NO	Specifications	Price (USD)
EasyPure® FFPE Tissue Genomic DNA Kit	EE191-01	50 rxns	\$99.13
EasyPure® HiPure Plasmid MiniPrep Kit	EM111-01	50 rxns	\$75.80
MagicPure® Size Selection DNA Beads	EC401-01	1 ml	\$43.73
	EC401-02	5 ml	\$219.00
	EC401-03	60 ml	\$1,166.00
	EC401-04	450 ml	\$4,373.00
BloodZol	EE131-01	For 50 ml blood	\$51.02
	EE131-02	For 200 ml blood	\$175.00
PlantZol	EE141-01	100 ml	\$114.00
EasyPure® Marine Animal Genomic DNA Kit (with RNase A)	EE151-01	50 rxns	\$72.89
EasyPure® Marine Animal Genomic DNA Kit	EE151-11	50 rxns	\$61.22
EasyPure® Bacteria Genomic DNA Kit (with RNase A)	EE161-01	50 rxns	\$75.80
EasyPure® Bacteria Genomic DNA Kit	EE161-11	50 rxns	\$61.22
EasyPure® Food and Fodder Security Genomic DNA Kit	EE171-01	50 rxns	\$146.00
EasyPure® Buccal Swab Genomic DNA Kit	EE201-01	50 rxns	\$65.60
MagicPure® Blood Genomic DNA Kit (with Magnetic Stand)	EC101-01	50 rxns	\$131.00
MagicPure® Blood Genomic DNA Kit (without Magnetic Stand)	EC101-11	50 rxns	\$102.00
MagicPure® Cell-Free DNA Kit (with Magnetic Stand)	EC201-01	50 rxns	\$364.00
MagicPure® Cell-Free DNA Kit (without Magnetic Stand)	EC201-11	50 rxns	\$335.00
MagicPure® Stool and Soil Genomic DNA Kit	EC801-11	50 rxns	\$160.00
MagicPure® Mouse Tissue Genomic DNA Kit	EC111-11	50 rxns	\$117.00
EasyPure® Plasmid MiniPrep Kit	EM101-01	50 rxns	\$24.78
	EM101-02	200 rxns	\$87.46
EasyPure® HiPure Plasmid MaxiPrep Kit	EM121-01	10 rxns	\$117.00
EasyPure® PCR Purification Kit	EP101-01	50 rxns	\$30.61
	EP101-02	200 rxns	\$105.00
EasyPure® Quick Gel Extraction Kit	EG101-01	50 rxns	\$33.53
	EG101-02	200 rxns	\$117.00

2 PCR

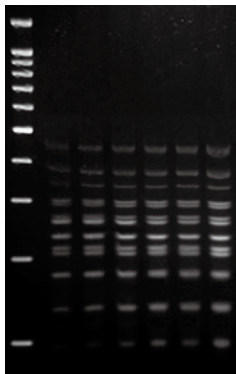
TransTaq® DNA Polymerase High Fidelity (HiFi)

- ◆ Double buffer system, specific amplification.
Buffer I is optimized for amplification of genomic DNA.
Buffer II is optimized for amplification of cDNA, λDNA and plasmid DNA.
 - ◆ Equipped with GC Enhancer for high GC/AT content templates, complex template amplification.
- Tips: Provide two types of double Buffer system 2×TransTaq® High Fidelity (HiFi) PCR SuperMix I, II (-dye).

TransStart® TopTaq DNA Polymerase

- ◆ Double-blocking "hot start enzyme" .
- ◆ Robust processivity, able to amplify various complex templates.
- ◆ High sensitivity and specificity.
- ◆ Core enzyme for qPCR.
- ◆ Applicable for multiplex PCR, SNP analysis.

M 1 2 3 4 5 6



Multiplex PCR (13-plex)

M: 100bp Plus DNA Ladder

Human Genomic DNA template

Lane 1: Tm, 49°C

Lane 2: Tm, 51°C

Lane 3: Tm, 53°C

Lane 4: Tm, 55°C

Lane 5: Tm, 57°C

Lane 6: Tm, 59°C

Gene	Size	Gene	Size
sY97	104 bp	sY82	264 bp
sY88	123 bp	sY127	274 bp
No.60	139 bp	sY134	303 bp
No.47	181 bp	sY143	311 bp
sY81	209 bp	No.43	357 bp
sY102	218 bp	No.3	408 bp
No.13	238 bp		

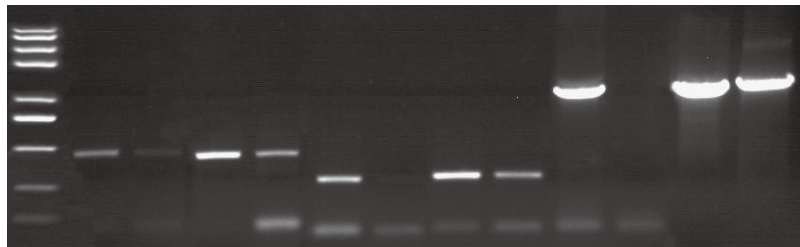
PerfectStart™ Taq DNA Polymerase

- ◆ Three kinds of monoclonal antibodies effectively block DNA polymerase activity preventing non-specific amplification at low temperature.
- ◆ Different from chemical modification, long denaturing step is not needed.
- ◆ Compared with TransStart® Taq DNA Polymerase and TransStart® TopTaq DNA Polymerase, PerfectStart™ Taq DNA Polymerase has higher amplification efficiency, specificity and sensitivity.

DMD, 440 bp
10 pg 100 pg
1 2 3 4

Numb, 440 bp
10 pg 100 pg
5 6 7 8

MYC, 1320 bp
50 pg 250 pg
9 10 11 12



Using TransGen and Company TH products to amplify human gDNA with different concentrations. The results showed that TransGen products were superior to Company TH in amplification sensitivity, amplification efficiency and amplification specificity.

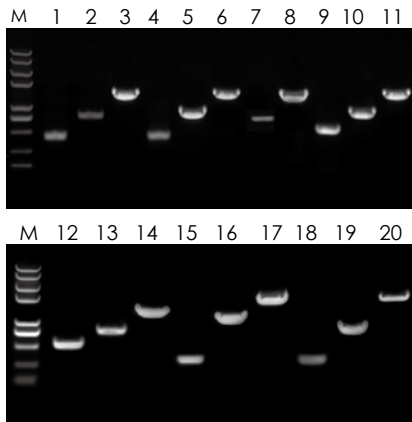
M: Trans2K® Plus II DNA Marker
Lane 1, 3, 5, 7, 9, 11: TransGen
Lane 2, 4, 6, 8, 10, 12: Company TH

TransDirect® PCR

2× TransDirect® PCR uses a proprietary formulated lysis reagent to release nucleic acids from a variety of fresh or frozen animal cells/tissues and plant tissues. Unpurified DNA is used as template for PCR using 2× TransDirect® PCR SuperMix which has extremely high resistance to PCR inhibitors found in animal tissues, plant tissues, and blood.

TransDirect® Plant Tissue PCR Kit

- ◆ Direct PCR amplification from lysate without purification generated by a unique lysis buffer.
- ◆ Suitable for high throughput applications.
- ◆ Not suitable for polysaccharide, polyphenol plant tissues.



M: Trans2K® Plus II DNA Marker

Lane 1: corn 0.4 kb	Lane 11: Arabidopsis 1.5 kb
Lane 2: corn 0.8 kb	Lane 12: tobacco 0.5 kb
Lane 3: corn 1.5 kb	Lane 13: tobacco 0.9 kb
Lane 4: wheat 0.4 kb	Lane 14: tobacco 1.5 kb
Lane 5: wheat 0.9 kb	Lane 15: cotton 0.3 kb
Lane 6: wheat 1.5 kb	Lane 16: cotton 1 kb
Lane 7: soybean 0.9 kb	Lane 17: cotton 1.6 kb
Lane 8: soybean 1.5 kb	Lane 18: rice 0.3 kb
Lane 9: Arabidopsis 0.5 kb	Lane 19: rice 0.9 kb
Lane 10: Arabidopsis 0.9 kb	Lane 20: rice 2.1 kb

TransDirect® Mouse Genotyping Kit

- ◆ Direct PCR amplification from crude lysate.
- ◆ Easy-to-use and suitable for high-throughput applications.
- ◆ Suitable for multiplex PCR with up to 5 pairs of primers.
- ◆ Suitable for PCR-based rapid mouse genotyping.

Publications with TransGen PCR Series

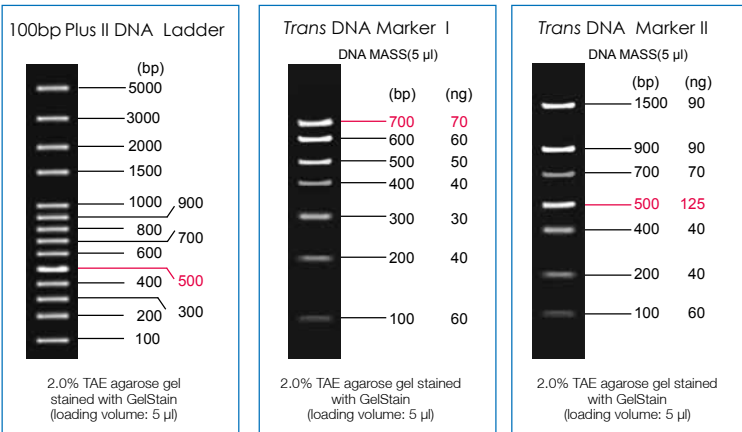
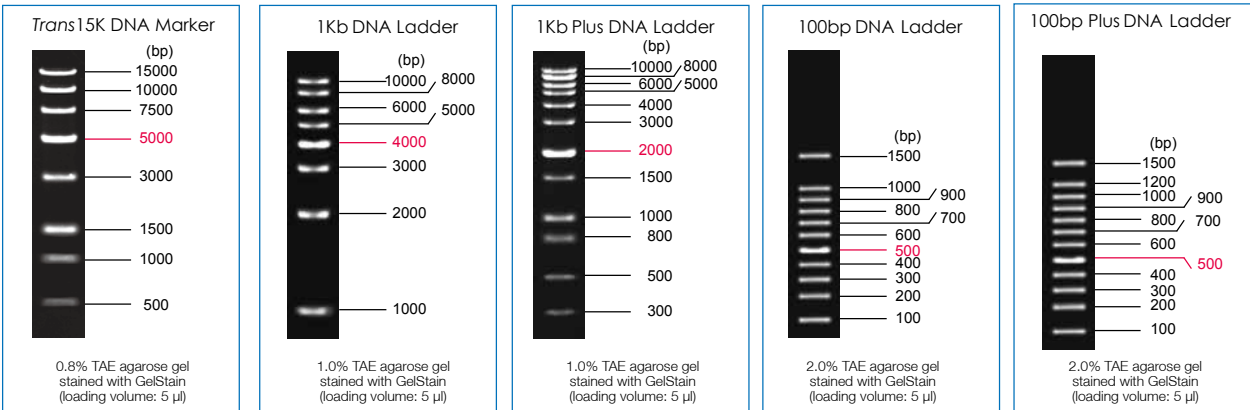
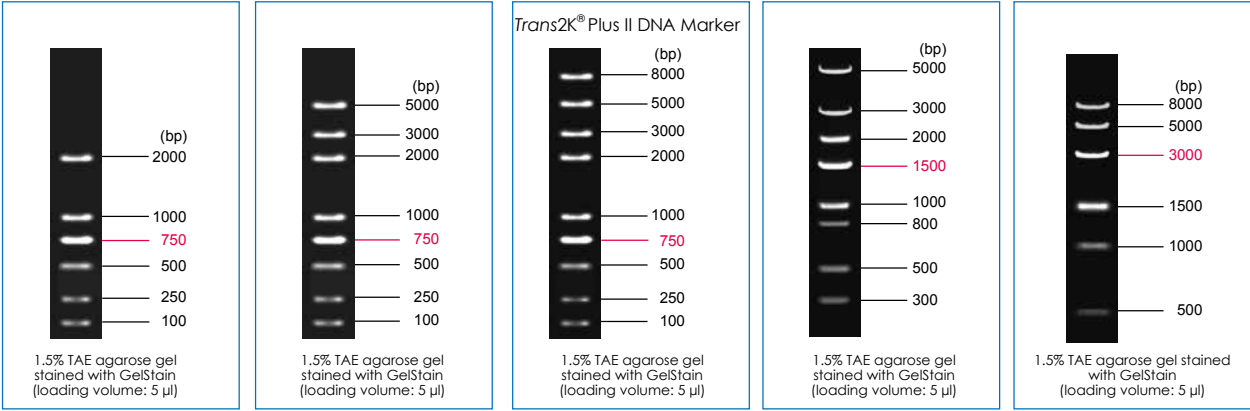
1. Teng Ma, et al. An AANAT/ASMT transgenic animal model constructed with CRISPR/Cas9 system serving as the mammary gland bioreactor to produce melatonin-enriched milk in sheep. **Journal of Pineal Research** 2017 (National Engineering Laboratory for Animal Breeding, Key Laboratory of Animal Genetics and Breeding of the Ministry of Agriculture, Beijing Key Laboratory for Animal Genetic Improvement, College of Animal Science and Technology, China Agricultural University, Beijing)
application product: *TransStart® FastPfu DNA Polymerase*, [IF=10.39].
2. Li P, et al. Aicardi-Goutières syndrome protein TREX1 suppresses L1 and maintains genome integrity through exonuclease-independent ORF1p depletion. **Nucleic Acids Research** 2017 (Institute of Virology and AIDS Research, First Hospital of Jilin University, Changchun, Jilin)
application product: *TransTaq® DNA Polymerase High Fidelity (HiFi)*, [IF=10.161].

Product Name	Cat. NO	Specifications	Price (USD)
TransTaq [®] DNA Polymerase High Fidelity (HiFi)	AP131-01	250 units	\$40.82
	AP131-02	500 units	\$75.80
	AP131-03	6×500 units	\$404.00
TransTaq [®] DNA Polymerase High Fidelity (HiFi)	AP131-01	250 units	\$40.82
	AP131-02	500 units	\$75.80
	AP131-03	6×500 units	\$404.00
TransStart [®] TopTaq DNA Polymerase	AP151-01	250 units	\$64.14
	AP151-02	500 units	\$121.00
	AP151-03	6×500 units	\$587.00
TransStart [®] TopTaq DNA Polymerase (with 2.5 mM dNTPs)	AP151-11	250 units	\$67.06
	AP151-12	500 units	\$127.00
	AP151-13	6×500 units	\$625.00
PerfectStart [™] Taq DNA Polymerase	AP401-01	250 units	\$93.29
	AP401-02	500 units	\$175.00
	AP401-03	6×500 units	\$840.00
PerfectStart [™] Taq DNA Polymerase (with 2.5 mM dNTPs)	AP401-11	250 units	\$96.21
	AP401-12	500 units	\$181.00
	AP401-13	6×500 units	\$878.00
TransDirect [®] Plant Tissue PCR Kit	AD301-01	100 rxns×20 µl system	\$117.00
	AD301-02	500 rxns×20 µl system	\$496.00
TransDirect [®] Mouse Genotyping Kit	AD501-01	100 rxns×20 µl system	\$146.00
	AD501-02	500 rxns×20 µl system	\$620.00
TransFast [®] Taq DNA Polymerase	AP101-01	500 units	\$26.24
	AP101-02	6×500 units	\$131.00
TransFast [®] Taq DNA Polymerase (with 2.5 mM dNTPs)	AP101-11	500 units	\$32.07
	AP101-12	6×500 units	\$166.00
EasyTaq [®] DNA Polymerase	AP111-01	500 units	\$20.00
	AP111-02	6×500 units	\$100.00
	AP111-03	4×2500 units	\$317.00
	AP111-04	10×5000 units	\$1,333.00
EasyTaq [®] DNA Polymerase (with 2.5 mM dNTPs)	AP111-11	500 units	\$27.00
	AP111-12	6×500 units	\$140.00
	AP111-13	4×2500 units	\$450.00
EasyTaq [®] DNA Polymerase for PAGE	AP112-01	2500 units	\$72.89
	AP112-02	4×2500 units	\$277.00
EasyTaq [®] DNA Polymerase for PAGE (with 2.5 mM dNTPs)	AP112-11	2500 units	\$102.00
	AP112-12	4×2500 units	\$394.00

Product Name	Cat. NO	Specifications	Price (USD)
TransTaq [®] -T DNA Polymerase	AP122-01	250 units	\$27.70
	AP122-02	500 units	\$52.48
	AP122-03	6×500 units	\$276.00
TransTaq [®] -T DNA Polymerase (with 2.5 mM dNTPs)	AP122-11	250 units	\$30.61
	AP122-12	500 units	\$58.31
	AP122-13	6×500 units	\$312.00
TransStart [®] Taq DNA Polymerase	AP141-01	250 units	\$52.48
	AP141-02	500 units	\$97.67
	AP141-03	6×500 units	\$496.00
TransStart [®] Taq DNA Polymerase (with 2.5 mM dNTPs)	AP141-11	250 units	\$55.39
	AP141-12	500 units	\$105.00
	AP141-13	6×500 units	\$534.00
EasyPfu DNA Polymerase	AP211-01	250 units	\$26.24
	AP211-02	500 units	\$49.56
	AP211-03	6×500 units	\$262.00
EasyPfu DNA Polymerase (with 2.5 mM dNTPs)	AP211-11	250 units	\$29.15
	AP211-12	500 units	\$55.39
	AP211-13	6×500 units	\$297.00
2 × EasyTaq [®] PCR SuperMix (-dye)	AS111-01	1 ml	\$15.00
	AS111-02	5×1 ml	\$63.00
	AS111-03	15×1 ml	\$168.00
2 × EasyTaq [®] PCR SuperMix (+dye)	AS111-11	1 ml	\$26.24
	AS111-12	5×1 ml	\$109.00
	AS111-13	15×1 ml	\$292.00
	AS111-14	6×80 ml	\$6,997.00
2 × EasyTaq [®] PCR SuperMix for PAGE (+dye)	AS112-11	1 ml	\$26.24
	AS112-12	5×1 ml	\$109.00
	AS112-13	15×1 ml	\$292.00
2 × TransTaq [®] -T PCR SuperMix (-dye)	AS122-01	1 ml	\$39.36
	AS122-02	5×1 ml	\$168.00
2 × TransTaq [®] -T PCR SuperMix (+dye)	AS122-11	1 ml	\$39.36
	AS122-12	5×1 ml	\$168.00
2 × TransTaq [®] High Fidelity (HiFi) PCR SuperMix I (-dye)	AS131-01	1 ml	\$40.82
	AS131-02	5×1 ml	\$175.00
2 × TransTaq [®] High Fidelity (HiFi) PCR SuperMix II (-dye)	AS131-21	1 ml	\$40.82
	AS131-22	5×1 ml	\$175.00
2 × EasyPfu PCR SuperMix (-dye)	AS211-01	1 ml	\$39.36
	AS211-02	5×1 ml	\$168.00
TransDirect [®] Animal Tissue PCR Kit	AD201-01	100 rxns×20 µl system	\$131.00
	AD201-02	500 rxns×20 µl system	\$561.00
TransDirect [®] Blood PCR Kit	AD401-01	100 rxns×20 µl system	\$87.46
	AD401-02	500 rxns×20 µl system	\$372.00
High Pure dNTPs (2.5 mM)	AD101-01	1 ml	\$8.75
	AD101-02	5×1 ml	\$39.36
High Pure dNTPs (10 mM)	AD101-11	1 ml	\$32.07
	AD101-12	5×1 ml	\$144.00

3 DNA Marker

- ◆ Trans DNA Marker are generated from restriction enzymes digested plasmids, better than PCR product mixing method.
- ◆ Clean background, clear band, precise quantification, and high stability.



Product Name	Cat. NO	Specifications	Price (USD)
Trans2k [®] DNA Marker	BM101-01	500 µl	\$18.95
	BM101-02	5 × 500 µl	\$80.17
Trans2k [®] Plus DNA Marker	BM111-01	500 µl	\$18.95
	BM111-02	5 × 500 µl	\$80.17
Trans2k [®] Plus II DNA Marker	BM121-01	500 µl	\$18.95
	BM121-02	5 × 500 µl	\$80.17
Trans5K DNA Marker	BM141-01	500 µl	\$18.95
	BM141-02	5 × 500 µl	\$80.17
Trans8K DNA Marker	BM151-01	500 µl	\$18.95
	BM151-02	5 × 500 µl	\$80.17
Trans15K DNA Marker	BM161-01	500 µl	\$23.32
	BM161-02	5 × 500 µl	\$99.13
1Kb DNA Ladder	BM201-01	500 µl	\$18.95
	BM201-02	5 × 500 µl	\$80.17
1Kb Plus DNA Ladder	BM211-01	500 µl	\$29.15
	BM211-02	5 × 500 µl	\$124.00
100bp DNA Ladder	BM301-01	500 µl	\$23.32
	BM301-02	5 × 500 µl	\$99.13
100bp Plus DNA Ladder	BM311-01	500 µl	\$23.32
	BM311-02	5 × 500 µl	\$99.13
100bp Plus II DNA Ladder	BM321-01	500 µl	\$29.15
	BM321-02	5 × 500 µl	\$124.00
Trans DNA Marker I	BM401-01	500 µl	\$18.95
	BM401-02	5 × 500 µl	\$80.17
Trans DNA Marker II	BM411-01	500 µl	\$18.95
	BM411-02	5 × 500 µl	\$80.17

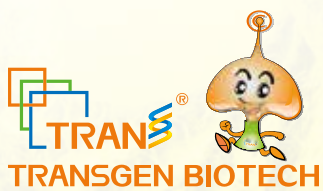
GelStain

GelStain is a sensitive, stable, and safe staining reagent for dsDNA, ssDNA, or RNA. GelStain is suitable for agarose and polyacrylamide gel electrophoresis. GelStain uses the same wavelength as ethidium bromide (EB) and it is more sensitive than EB.

Agarose

High purity agarose which is free of DNase, RNase, and protease. Staining with ethidium bromide or GelStain provides low background, strong electrophoretic separation performance, and clear bands. Agarose is suitable for electrophoresis of various DNA and RNA.

Product Name	Cat. NO	Specifications	Price (USD)
GelStain	GS101-01	500 µl	\$87.46
	GS101-02	1 ml	\$157.00
	GS101-03	5×1 ml	\$708.00
Agarose	GS201-01	100 g	\$43.73



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