Kit is GeneAll

GeneAll®

Innovative Life Science System

2012 Selection Guide

GeneAll

GeneAll® Innovative Life Science System

With the advance in molecular biological techniques, researchers have preferred the commercial ready-made kits to lab-made reagents in order to concentrate effort on doing research itself rather than making reagents. We always integrate the latest developments in technology and methods.

1 Plasmid DNA Purification System

- Hybrid-Q™ Plasmid Rapidprep
- Exprep™ Plasmid SV mini / Midi
- Exfection™ Plasmid LE mini / Midi
- Exfection™ Plasmid EF Midi

2 Fragment DNA Purification System

- Expin™ Gel SV
- Expin™ PCR SV
- Expin™ CleanUp SV
- Expin™ Combo GP

3 Genomic DNA Purification System

- Exgene™ Tissue SV (plus!) mini / Midi / MAXI
- Exgene™ Blood SV mini / Midi / MAXI
- Exgene™ Clinic SV mini / Midi / MAXI
- Exgene™ Cell SV mini / MAXI
- Exgene™ Plant SV mini / Midi / MAXI
- Exgene™ GMO SV
- Exgene™ Genomic DNA micro
- DirEx™
- GenEx™ B / C / T

4 RNA Purification System

- Hybrid-R™
- Hybrid-R™ Blood RNA
- Hybrid-R™ miRNA
- RiboEx™
- RiboEx™ LS
- Riboclear™ (plus!)
- Ribospin™
- Ribospin™ Plant
- Ribospin™ vRD (plus!)
- Allspin™

5 PCR Amplification System

- AmpONE™ Taq DNA Polymerase
- AmpONE™ α-Taq DNA Polymerase
- AmpONE™ Pfu DNA Polymerase
- AmpONE™ HS-Taq DNA Polymerase
- AmpONE™ Clean Taq DNA Polymerase
- AmpONE™ Clean α-Taq DNA Polymerase
- AmpONE™ Taq / α-Taq / HS-Taq Premix
- AmpMaster™ Taq / α-Taq / HS-Taq mix

All columns in GeneAll® RNA related products are provided as individual packs (blister packs) to minimize the contamination.

Plasmid DNA Purification System

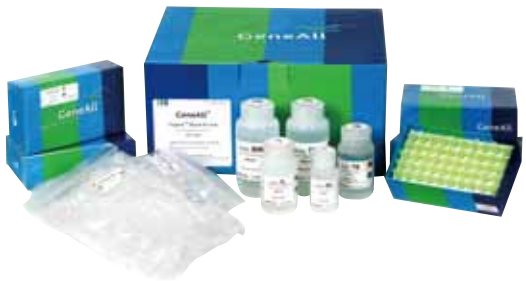
	Hybrid-Q™ Plasmid Rapidprep*	Exprep™ Plasmid SV mini	Exfection™ Plasmid LE mini (Low Endotoxin)	Exprep™ Plasmid SV Midi	Exfection™ Plasmid LE Midi (Low Endotoxin)	Exfection™ Plasmid EF Midi (Endotoxin Free)**
	Small Scale			Large Scale		
Specifications						
Format	Spin	Spin/Vacuum	Spin/Vacuum	Spin/Vacuum	Spin/Vacuum	Spin
Recommended sample volume	2 ~ 5 ml	5 ml	5 ml	50 ml	50 ml	100 ml
Maximum sample volume	10 ml	10 ml	10 ml	100 ml	100 ml	150 ml
Clearing of lysate	EzClear™	Centrifuge	Centrifuge	EzClear™	EzClear™	EzClear™
Preparation time	< 10 min	< 23 min	< 30 min	< 50 min	< 50 min	< 70 min
Maximum loading volume	600 μℓ	800 μℓ	800 μℓ	15 ml	15 ml	15 ml
Binding capacity	30 μg	30 μg	30 μg	300 μg	300 μg	300 μg
The level of endotoxin	-	-	< 10 EU/μg	-	< 10 EU/μg	< 0.1 EU/μg
Recovery	85 ~ 95 %	85 ~ 95 %	80 ~ 95 %	80 ~ 95 %	85 ~ 95 %	75 ~ 90 %
Minimum elution volume	40 μℓ	50 μℓ	50 μℓ	500 μℓ	500 μℓ	500 μℓ
Applications						
Endotoxin free	-	-	-	-	-	■
Cell transfection	□	□	■	□	■	■
in vitro Transcription	■	■	■	■	■	■
Cloning	■	■	■	■	■	■
Automatic sequencing	■	■	■	■	■	■
PCR	■	■	■	■	■	■
Restriction digestion	■	■	■	■	■	■
Transformation	■	■	■	■	■	■
Cat.No.	100-150 100-102	101-150 101-102	111-150 111-102	101-226 101-250 101-201	111-226 111-201	121-220 121-201

■ Recommended / □ Suitable but not optimized

* Hybrid-Q™ Plasmid Rapidprep provides the alternative protocols upon plasmid copy number, host strain, culture medium, and culture volume.

** Exfection™ EF kit is suitable for the transfection of primary or sensitive cells.

• GeneAll® SV Midi/MAXI kits require the centrifuge which has a swing-bucket rotor and ability of 4,000 xg at least.



For more information about products, visit www.geneall.com

Genomic DNA Purification System

Specifications

	Exgene™ Tissue SV (plus!)*	Exgene™ Blood SV	Exgene™ Cell SV	Exgene™ Clinic SV	Exgene™ Genomic DNA micro	Exgene™ Plant SV	GenEx™ B / C / T**	DirEx™
Format	Spin/Vacuum	Spin/Vacuum	Spin/Vacuum	Spin/Vacuum	Spin	Spin/Vacuum	Solution	Solution
Scale	mini Midi MAXI	mini Midi MAXI	mini MAXI	mini Midi MAXI	mini	mini Midi MAXI	Sx Lx	50 ml
Starting sample	25 mg 100 mg 250 mg	300 µℓ 2 ml 10 ml	5 x 10^6 cells 1 x 10^8 cells	25 mg 100 mg 250 mg	#	100 mg 400 mg 1000 mg	#	#
Typical yield	5 ~ 50 µg 20 ~ 150 µg 80 ~ 400 µg	4 ~ 20 µg 20 ~ 80 µg 80 ~ 400 µg	10 ~ 50 µg 80 ~ 500 µg	5 ~ 50 µg 20 ~ 150 µg 80 ~ 400 µg	#	4 ~ 40 µg 10 ~ 150 µg 40 ~ 300 µg	#	#
Preparation time	25 ~ 220 min 40 ~ 250 min 40 ~ 250 min	20 ~ 30 min 40 ~ 55 min 40 ~ 55 min	30 ~ 120 min 60 ~ 240 min	25 ~ 220 min 40 ~ 250 min 40 ~ 250 min	25 ~ 220 min	< 40 min < 1 hour < 1 hour	25 ~ 90 min 25 ~ 90 min	< 65 min

Sample Type

							B	C	T	
Animal tissue	○		○	○	○				○	○
Body fluid		○	○	○	○			○	○	△
Bone					○					
Buccal swab	△	○	○	○	○			○	○	○
Buffy coat		○	○	○	△		△			
Callus						○				
Cultured cells	○	○	○	○	△			○	○	○
DNA virus		○	○	○	△				△	
Dried blood spot	△		○	○	○				△	
Fixed tissue	△		○	○	△				△	
Forensic sample					○					
Fungi						○				
Gram(-) bacteria	○		○	○	△			○	○	△
Gram(+) bacteria			○					△	△	
Hair	△	○	○	○	○				△	○
Insect / worm	○		△	△	△				○	△
Mammalian whole blood	○*	○	○	○	○		○			○
Nail					○					
Nucleated blood	△	○	○	○	△			△	△	△
Paraffin block	○		○	○	△				○	
Plant cells						○				
Plant tissue						○				
Rodent tails	○		○	○	△				○	
Saliva		○	○	○	○				△	
Sperm		○	○	○	○				△	
Urine	△		△	△	○				△	
Yeast			○					△	△	

Cat.No.								
	104(9)-101 104(9)-152 104(9)-226 104(9)-201 104(9)-310 104(9)-326	105-101 105-152 105-226 105-201 105-310 105-326	106-101 106-152 106-310 106-326	108-101 108-152 108-226 108-201 108-310 108-326	118-050	117-101 117-152 117-226 117-201 117-310 117-326	220-101 220-105 220-301 221-101 221-105 221-301 222-101 222-105 222-301	250-050

○ Recommended / △ Suitable but not optimized and required additional protocol

* Exgene™ Tissue plus! provides the additional methods for the purification of total DNA from mammalian whole blood.

** GenEx™ B / C / T provides convenient, scalable purification method in the specially formulated buffer systems. # Typical yield depends on the type and size of sample.

Fragment DNA Purification System

	Expin™ PCR SV	Expin™ Gel SV	Expin™ CleanUp SV	Expin™ Combo GP*
Specifications				
Format	Spin / Vacuum	Spin / Vacuum	Spin / Vacuum	Spin / Vacuum
Starting material	100 μℓ PCR reactions	200 mg Gel slice	50 μℓ Enzyme reactions	100 μℓ PCR reactions 200 mg Gel slice
Fragment DNA size	100 bp ~ 10 kb	80 bp ~ 10 kb	40 bp ~ 10 kb	80 bp ~ 10 kb
Recovery	90 ~ 95 %	70 ~ 85 %	80 ~ 95 %	70 ~ 95 %
Maximum binding capacity	10 μg	10 μg	10 μg	10 μg
Preparation time	< 5 min	< 15 min	< 5 min	< 5 min ~ 15 min
Applications				
PCR cleanup	■	-	□	■
Gel extraction	-	■	-	■
Nucleotide removal	□	□	■	□
Cat.No.	103-150 103-102	102-150 102-102	113-150 113-102	112-150 112-102

■ Recommended / □ Suitable but not optimized

* Expin™ Combo GP kit is the combined product of Expin™ Gel SV and Expin™ PCR SV.

PCR Amplification System

	AmpONE™ Taq DNA Polymerase	AmpONE™ α-Taq DNA Polymerase	AmpONE™ Pfu DNA Polymerase	AmpONE™ HS-Taq DNA Polymerase
Applications				
Standard PCR (<3 kb)	+++	+++	+	++
Hot start PCR	-	-	-	+++
Multiplex PCR	+	+++	+	++
Nested PCR	+	++	+	+
Amplification product size	< 5 kb	< 20 kb	< 5 kb	< 5 kb
HQ-buffer*	○	○	○	○
Cat.No.	501-025 501-050 501-100	502-025 502-050 502-100	503-025 503-050 503-100	531-025 531-050 531-100

- GeneAll® AmpONE™ Premix and Master mix are available.
- GeneAll® AmpONE™ Premix and Master mix are made from AmpONE™ Taq / α-Taq / HS-Taq DNA polymerase which contain all reaction components required for PCR, such as reaction buffer, dNTP, gel loading dye, stabilizer and sediment.
- GeneAll® AmpONE™ Premix is lyophilized form and GeneAll® AmpMaster™ mix is 2-fold concentrated form.

* A novel additive that enables efficient amplification of GC-rich template or long size amplification.

RNA Purification System

	Hybrid-R™	Hybrid-R™ Blood RNA	Hybrid-R™ miRNA	RiboEx™	RiboEx™ LS	Ribospin™	Ribospin™ vRD (plus!)*	Ribospin™ Plant	Riboclear™ (plus!)***	Allspin™**
Specifications										
Format	Spin	Spin	Spin	Solution	Solution	Spin	Spin	Spin	Spin	Spin
Recommended sample volume	100 mg 1 x 10^7 cells	250 µℓ	100 mg 1 x 10^7 cells	100 mg 1 x 10^7 cells	100 mg 250 µℓ	25 mg 1 x 10^6 cells	300 µℓ	100 mg	100 µℓ	30 mg 1 x 10^7 cells
Preparation time	30 min	30 min	30 min	50 ~ 65 min	50 ~ 65 min	15 min	20 min	25 min	6 min	30 min
Max. loading volume	700 µℓ	700 µℓ	700 µℓ	-	-	750 µℓ	800 µℓ	700 µℓ	800 µℓ	700 µℓ
Min. elution volume	30 µℓ	30 µℓ	30 µℓ	-	-	40 µℓ	30 µℓ	30 µℓ	30 µℓ	30 ~ 50 µℓ
Binding capacity	500 µg	100 µg	100 µg	-	-	100 µg	100 µg	100 µg	100 µg	100 µg
Sample Type										
Animal cells	○	-	○	○	○	○	-	-	-	○
Animal tissues	○	-	○	○	△	○	-	-	-	○
Plant tissues	-	-	-	○	△	-	-	○	-	-
Bacteria	○	-	○	○	○	○	-	-	-	-
Yeast	○	-	○	○	○	-	-	-	-	-
Whole blood	-	○	-	-	○	-	-	-	-	-
Buffy coat	○	○	○	○	○	○	-	-	-	○
Various liquid sample	△	△	-	-	○	-	△	-	-	-
Viral sample	-	-	-	-	-	-	○	-	-	-
RNA cleanup/ concentration	-	-	-	-	-	-	-	-	○	-
Cat.No.	305-101	315-150	325-150	301-001 301-002	302-001 302-002	304-150	302-150 (312-150)	307-150	303-150 (313-150)	306-150

○ Recommended / △ Suitable but not optimized

* Ribospin™ vRD *plus!* provides carrier RNA for purification of nucleic acid from very small amounts of sample.

** Allspin™ provides the method for the purification of total DNA and total RNA from tissues and cultured cells.

*** Riboclear™ *plus!* provides DNase for removal of DNA.

Bridging the World

GeneAll

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