

RNA Purification / RT / qPCR

# RNA Analysis

Product Series

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# 1 RNA Purification

## TransZol Up

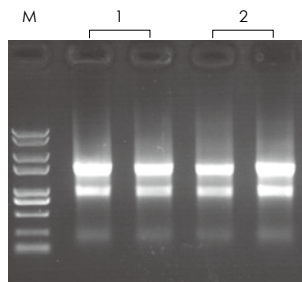
- Suitable for isolating RNA from a variety of species including animal, plant and bacteria.
- Superior lysis capability and higher RNA yield.
- The whole procedure can be completed in one hour.
- Pink solution for easy visualizing different phases.
- Unique dissolving solution for long-term RNA storage.

RNA yield from different samples

## TransZol Up Plus RNA Kit

*TransZol Up Plus RNA Kit* is an optimized version of *TransZol Up*. Compared with other total RNA extraction methods, *TransZol Up Plus RNA Kit* provides powerful lysis and easy column based purification.

- After lysis and centrifugation, the solution separates into an upper colorless aqueous phase (containing RNA), intermediate phase and a lower pink organic phase. RNA binds to silica-based spin column.
- Wide application: suitable for isolating RNA from a variety of species including human, animal, plant and bacteria. Small sample (50-100 mg tissue,  $5 \times 10^6$  cells, 200  $\mu$ l blood); Large sample ( $\geq 1$  g tissue or  $\geq 10^7$  cells), the maximum adsorption capacity of the spin column is 100  $\mu$ g.



M: *Trans2K<sup>®</sup> Plus II DNA Marker*  
 1: Human Blood RNA  
 2: HeLa Cell RNA

## EasyPure<sup>®</sup> miRNA Kit

- Isolate small RNA ( $\leq 200$  nt) from cells, tissues, fresh blood and virus.
- Powerful lysis capability, high RNA yield and high purity, wide application.

## EasyPure<sup>®</sup> RNA Kit

- Isolate total RNA from animal cells, animal tissues, bacteria and yeast
- RNA is free of DNA and protein contamination, and is suitable for RT-PCR, qRT-PCR and Northern Blot.

### Publications with TransGen RNA Extraction Series

1. Xiaoping Han, et al. Mapping the mouse cell atlas by microwell-seq xiaoping. *Cell* 2018 (Center for Stem Cell and Regenerative Medicine, Zhejiang University School of Medicine, Hangzhou)  
 application product: *EasyPure<sup>®</sup> RNA Kit*, [IF=30.41].
2. Feng Li, et al. NADP<sup>+</sup>-IDH mutations promote hypersuccinylation that impairs mitochondria respiration and induces apoptosis resistance. *Molecular Cell* 2015 (State Key Lab of Genetic Engineering and the Obstetrics & Gynecology Hospital of Fudan University)  
 application product: *TransZol Up*, [IF=13.958].

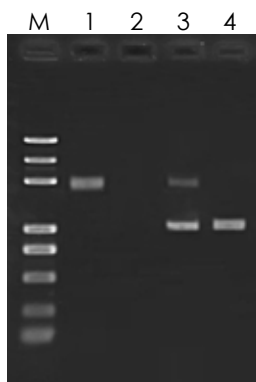
Product Name	Cat. NO	Specifications	Price (USD)
<i>TransZol Up</i>	ET111-01	100 ml	\$87.46
<i>TransZol Up Plus RNA Kit</i>	ER501-01	100 rxns	\$190.00
<i>EasyPure<sup>®</sup> miRNA Kit</i>	ER601-01	50 rxns	\$332.00

Product Name	Cat. NO	Specifications	Price (USD)
EasyPure® RNA Kit	ER101-01	50 rxns	\$172.00
MagicPure® Viral DNA/RNA Kit (with Magnetic Stand )	EC301-01	50 rxns	\$219.00
MagicPure® Viral DNA/RNA Kit (without Magnetic Stand )	EC301-11	50 rxns	\$190.00
TransZol	ET101-01	100 ml	\$72.89
TransZol Plant	ET121-01	100 ml	\$87.46
EasyPure® Viral DNA/ RNA Kit	ER201-01	50 rxns	\$114.00
EasyPure® Plant RNA Kit	ER301-01	50 rxns	\$157.00
EasyPure® Blood RNA Kit	ER401-01	50 rxns	\$172.00

## 2 RT

### TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix

- Simultaneous genomic DNA removal and cDNA synthesis in one tube to minimize RNA contamination.
- 15 minutes reaction for qPCR-ready cDNA templates; 30 minutes reaction for PCR-ready cDNA templates.
- cDNA up to 12 kb



M: Trans2K® Plus DNA Marker  
 PCR +/-gDNA remover  
 Lane 1: 200 ng Human Genomic DNA (-gDNA remover);  
 Lane 2: 200 ng Human Genomic DNA (+gDNA remover);  
 RT-PCR +/- gDNA remover  
 Lane 3: 100 ng Human total RNA (-gDNA remover);  
 Lane 4: 100 ng Human total RNA (+gDNA remover);  
 PCR product from cDNA template is 1 kb, from genomic DNA template is 2 kb

### TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal)

- Simultaneous genomic DNA removal and cDNA synthesis.
- The optimal ratio of oligo(dT)<sub>18</sub> primer to random primer(N<sub>9</sub>) for qPCR-ready cDNA.
- qPCR-ready cDNA in 15 minutes (unsuitable for PCR).
- cDNA up to 250 bp.

### TransScript® miRNA First-Strand cDNA Synthesis SuperMix

- Optimized enzyme and buffer system for high efficient cDNA synthesis.
- One-step Poly(A) tailing and cDNA synthesis.

## Publications with TransGen RT

1. Xiaoping Han, et al. Mapping the mouse cell atlas by microwell-seq xiaoping. **Cell** 2018 (Center for Stem Cell and Regenerative Medicine, Zhejiang University School of Medicine, Hangzhou)  
application product: *TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal)*, [IF=30.41].
2. Bei Liu, et al. Derivation of pluripotent stem cells with in vivo embryonic and extraembryonic potency. **Cell** 2017 (Department of Cell Biology, School of Basic Medical Sciences, Peking University Stem Cell Research Center, State Key Laboratory of Natural and Biomimetic Drugs, Peking University Health Science Center and the MOE Key Laboratory of Cell Proliferation and Differentiation, College of Life Sciences, Peking-Tsinghua Center for Life Sciences, Peking University, Beijing)  
application product: *TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix*, [IF=30.41].
3. Shan Li, et al. Modulating plant growth–metabolism coordination for sustainable agriculture. **Nature** 2018 (Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing)  
application product: *TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix*, [IF=41.58].

Product Name	Cat. NO	Specifications	Price (USD)
<i>TransScript® One-Step gDNA Removal and cDNA Synthesis SuperMix</i>	AT311-02	50 rxns×20 µl system	\$146.00
	AT311-03	100 rxns×20 µl system	\$262.00
	AT311-04	500 rxns×20 µl system	\$1,181.00
<i>EasyScript® All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal )</i>	AE341-02	100 rxns×20 µl system	\$233.00
<i>TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal )</i>	AT341-01	50 rxns×20 µl system	\$160.00
	AT341-02	100 rxns×20 µl system	\$289.00
	AT341-03	500 rxns×20 µl system	\$1,297.00
<i>TransScript® miRNA First-Strand cDNA Synthesis SuperMix</i>	AT351-01	20 rxns×20 µl system	\$321.00
<i>TransScript® Reverse Transcriptase</i>	AT101-02	10000 units	\$87.46
	AT101-03	5×10000 units	\$394.00
<i>TransScript® II Reverse Transcriptase</i>	AH101-02	10000 units	\$219.00
<i>EasyScript® First-Strand cDNA Synthesis SuperMix</i>	AE301-02	50 rxns×20 µl system	\$89.00
	AE301-03	100 rxns×20 µl system	\$160.00
<i>EasyScript® One-Step gDNA Removal and cDNA Synthesis SuperMix</i>	AE311-02	50 rxns×20 µl system	\$102.00
	AE311-03	100 rxns×20 µl system	\$184.00
	AE311-04	500 rxns×20 µl system	\$827.00
<i>TransScript® First-Strand cDNA Synthesis SuperMix</i>	AT301-02	50 rxns×20 µl system	\$124.00
	AT301-03	100 rxns×20 µl system	\$223.00
<i>TransScript® Fly First-Strand cDNA Synthesis SuperMix</i>	AF301-02	50 rxns×20 µl system	\$175.00
	AF301-03	100 rxns×20 µl system	\$315.00
<i>TransScript® -Uni One-Step gDNA Removal and cDNA Synthesis SuperMix</i>	AU311-02	50 rxns×20 µl system	\$335.00
	AU311-03	100 rxns×20 µl system	\$598.00
<i>TransScript® II First-Strand cDNA Synthesis SuperMix</i>	AH301-02	50 rxns×20 µl system	\$255.00
	AH301-03	100 rxns×20 µl system	\$459.00
<i>TransScript® II One-Step gDNA Removal and cDNA Synthesis SuperMix</i>	AH311-02	50 rxns×20 µl system	\$292.00
	AH311-03	100 rxns×20 µl system	\$525.00
<i>TransScript® All-in-One First-Strand cDNA Synthesis SuperMix for PCR</i>	AT321-01	50 rxns×20 µl system	\$175.00
<i>TransScript® II All-in-One First-Strand cDNA Synthesis SuperMix for PCR</i>	AH321-01	50 rxns×20 µl system	\$321.00
<i>TransScript® II All-in-One First-Strand cDNA Synthesis SuperMix for qPCR (One-Step gDNA Removal)</i>	AH341-01	50 rxns×20 µl system	\$306.00

Product Name	Cat. NO	Specifications	Price (USD)
TransScript® Two-Step RT-PCR SuperMix	AT401-01	RT system/PCR system	\$204.00
		50 rxns×20 µl/80 rxns×50 µl	
TransScript® II Two-Step RT-PCR SuperMix	AH401-01	RT system/PCR system	\$350.00
		50 rxns×20 µl/80 rxns×50 µl	
EasyScript® One-Step RT-PCR SuperMix (+dye)	AE411-02	200 rxns×20 µl system	\$200.00
TransScript® One-Step RT-PCR SuperMix (+dye)	AT411-02	200 rxns×20 µl system	\$252.00
TransScript® II One-Step RT-PCR SuperMix (+dye)	AH411-02	200 rxns×20 µl system	\$442.00
Ribonuclease Inhibitor	AI101-02	5×2000 units	\$144.00

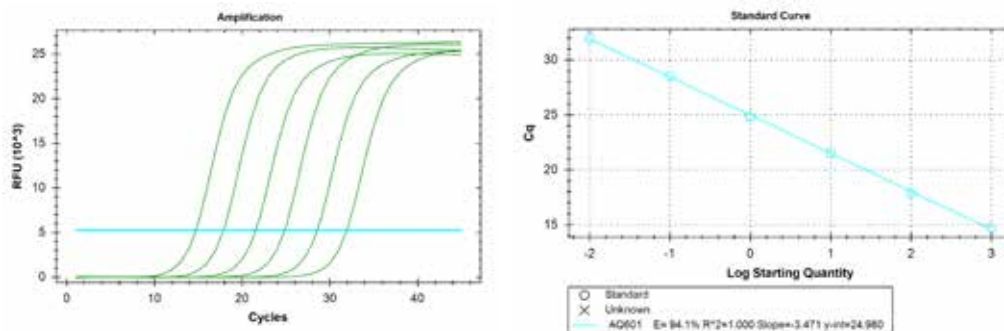
## 3 qPCR

### TransStart® Top Green qPCR SuperMix

- High efficiency: The highly active *TransStart® TopTaq* DNA Polymerase was obtained by mutation screening.
- High specificity: Double-blocking hot start technology with 3 kinds of specific proteins and Double cation ( $K^+$ ,  $NH_4^+$ ) buffer were perfectly combined.
- Wide application: Suitable for a wide range of template types; Passive reference dyes are provided for different qPCR instruments

### PerfectStart™ Green qPCR SuperMix

- High efficiency: efficient binding of *Taq* DNA Polymerase using 3 monoclonal antibodies
- High specificity: Double cation ( $K^+$ ,  $NH_4^+$ ) buffer enhances specificity and reduces primer-dimer formation.
- Wide application: Suitable for a wide range of template types; Passive reference dyes are provided for different qPCR instruments.

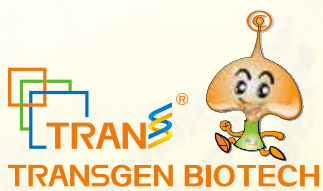


The amplification plot (former) and standard curve (latter) are derived from the amplification of a dilution series of plasmid DNA (10 ng to 0.1 pg, 10 times dilution).

## Publications with TransGen qPCR

- 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: *TransStart*<sup>®</sup> Top Green qPCR SuperMix, [IF= 10.161].
- Wei Y, et al. Identification, transcriptional and functional analysis of heat-shock protein 90s in banana (*Musa acuminata* L.) highlight their novel role in melatonin-mediated plant response to Fusarium wilt. **Journal of Pineal Research** 2016 (Hainan Key Laboratory for Sustainable Utilization of Tropical Bioresources, College of Agriculture, Hainan University, Haikou)  
application product: *TransStart*<sup>®</sup> Tip Green qPCR SuperMix, [IF=10.39].
- Shan Li, et al. Modulating plant growth–metabolism coordination for sustainable agriculture. **Nature** 2018 (Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing)  
application product: *TransStart*<sup>®</sup> Green qPCR SuperMix, [IF=41.58].

Product Name	Cat. NO	Specifications	Price (USD)
<i>TransStart</i> <sup>®</sup> Top Green qPCR SuperMix	AQ131-02	5×1 ml	\$262.00
	AQ131-03	15×1 ml	\$700.00
	AQ131-04	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Top Green qPCR SuperMix (+Dye I)	AQ132-12	5×1 ml	\$262.00
	AQ132-13	15×1 ml	\$700.00
	AQ132-14	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Top Green qPCR SuperMix (+Dye II)	AQ132-22	5×1 ml	\$262.00
	AQ132-23	15×1 ml	\$700.00
	AQ132-24	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Tip Green qPCR SuperMix	AQ141-02	5×1 ml	\$219.00
	AQ141-03	15×1 ml	\$700.00
	AQ141-04	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Tip Green qPCR SuperMix (+Dye I)	AQ142-12	5×1 ml	\$219.00
	AQ142-13	15×1 ml	\$700.00
	AQ142-14	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Tip Green qPCR SuperMix (+Dye II)	AQ142-22	5×1 ml	\$219.00
	AQ142-23	15×1 ml	\$700.00
	AQ142-24	25×1 ml	\$1,020.00
<i>TransStart</i> <sup>®</sup> Green qPCR SuperMix UDG	AQ111-02	5×1 ml	\$292.00
	AQ111-03	15×1 ml	\$787.00
<i>TransStart</i> <sup>®</sup> Probe qPCR SuperMix	AQ401-02	5×1 ml	\$233.00
	AQ401-03	15×1 ml	\$612.00
<i>TransStart</i> <sup>®</sup> Green qPCR SuperMix	AQ101-02	5×1 ml	\$233.00
	AQ101-03	15×1 ml	\$612.00
<i>TransScript</i> <sup>®</sup> Green Two-Step qRT-PCR SuperMix	AQ201-01	RT system/qPCR system	\$248.00
		50 rxns×20 µl/300 rxns×20 µl	
<i>TransScript</i> <sup>®</sup> Green miRNA Two-Step qRT-PCR SuperMix	AQ202-01	RT system/qPCR system	\$466.00
		20 rxns×20 µl/500 rxns×20 µl	
<i>TransScript</i> <sup>®</sup> II Green Two-Step qRT-PCR SuperMix	AQ301-01	RT system/qPCR system	\$394.00
		50 rxns×20 µl/300 rxns×20 µl	
<i>TransScript</i> <sup>®</sup> Green One-Step qRT-PCR SuperMix	AQ211-01	100 rxns×20 µl system	\$105.00
	AQ211-02	400 rxns×20 µl system	\$338.00
<i>TransScript</i> <sup>®</sup> II Green One-Step qRT-PCR SuperMix	AQ311-01	100 rxns×20 µl system	\$187.00
	AQ311-02	400 rxns×20 µl system	\$606.00
<i>TransScript</i> <sup>®</sup> Probe One-Step qRT-PCR SuperMix	AQ221-01	100 rxns×20 µl system	\$105.00
	AQ221-02	400 rxns×20 µl system	\$338.00
<i>TransScript</i> <sup>®</sup> II Probe One-Step qRT-PCR SuperMix	AQ321-01	100 rxns×20 µl system	\$187.00
	AQ321-02	400 rxns×20 µl system	\$606.00
<i>PerfectStart</i> <sup>™</sup> Green qPCR SuperMix	AQ601-01	1 ml	\$58.31
	AQ601-02	5×1 ml	\$219.00
	AQ601-03	15×1 ml	\$700.00
	AQ601-04	25×1 ml	\$1,020.00



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