

## HelixCript™ Easy cDNA Synthesis Kit [All-in-One]

### Kit Contents

HelixCript™ Easy cDNA Synthesis Kit [All-in-One]		
Cat. No.	ECDNA50 (50rxns)	ECDNA100 (100rxns)
Oligo d(T) <sub>20</sub>	0.05ml	0.1ml
Random Hexamers	0.05ml	0.1ml
Easy 5x RT Reaction Mix	0.2ml	0.4ml
Easy RT Enzyme Mix	0.05ml	0.1ml
RNase-free Water	1.0ml	1.0ml
Instructions for Use	1ea	1ea

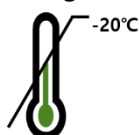
### Description

**HelixCript™ Easy cDNA Synthesis Kit [All-in-One]** is the mixed type of HelixCript™ 1<sup>st</sup>-Strand cDNA Synthesis Kit for easy preparation of RT reaction mixture. HelixCript™ *Thermo* Reverse Transcriptase and RNase Inhibitor are mixed as RT Enzyme Mix. 5X RT Reaction Mix contain the dNTP mix and DTT. This mixed formulation is designed to save time and reduce the error and contamination opportunities. HelixCript™ Easy cDNA Synthesis Kit [All-in-One] provides the simple and fast preparation of RT reaction mixture for the efficient synthesis of first strand cDNA.

### Application

Generation of first-strand cDNA for subsequent PCR or Real-time PCR  
cDNA library construction

#### Storage



Store below -20°C

#### Shelf life



12 months

### Quality Control

Each lot of **HelixCript™ Easy cDNA Synthesis Kit [All-in-One]** was tested against predetermined specifications to ensure consistent product quality.

## Protocol

### 1. Recommended amounts of RNA template and primers for first-strand cDNA synthesis.

- 1) RNAs : Total RNA : 10 ng ~ 5 µg  
Poly(A)<sup>+</sup> RNA : 1 ng ~ 500 ng
- 2) Primers : Oligo-d(T)<sub>20</sub> : 0.5 µg or 50 pmoles  
Random Hexamer : 50 pmoles  
Gene-Specific Primer : 15 ~ 20 pmoles

### 2. Mix following components in a tube.

Components	Volumes (µl)
RNA Template	Xµl
Oligo-d(T) <sub>20</sub> , Random Hexamer, or Gene-Specific Primers	1µl
RNase-free Water	Yµl
<b>Total</b>	<b>15µl</b>

### 3. Incubate at 65°C for 5 minutes and immediately place on ice.

### 4. Add following components into the mixture.

Additional components	Volume (µl)
Easy 5x RT Reaction Mix	4µl
Easy RT Enzyme Mix	1µl

### 5. Incubate the reaction mixture at 50°C for 30 ~ 50 minutes for gene-specific primer.

When oligo-d(T) or random hexamer is used in reaction, perform 10 min at 42°C, followed by 30 ~ 50 min at 50°C.

### 6. Inactivate the reaction by heating at 70°C for 10 min.

### 7. Synthesized cDNA is immediately used for PCR or store at -20°C.

## Products

Cat. No.	Products	Size
<b>ECDNA50</b>	HelixCript™ Easy cDNA Synthesis Kit [All-in-One]	50rxns
<b>ECDNA100</b>	HelixCript™ Easy cDNA Synthesis Kit [All-in-One]	100rxns