

# Replicator<sup>TM</sup>

RNAi Kit



Maximal yield  
- minimal effort

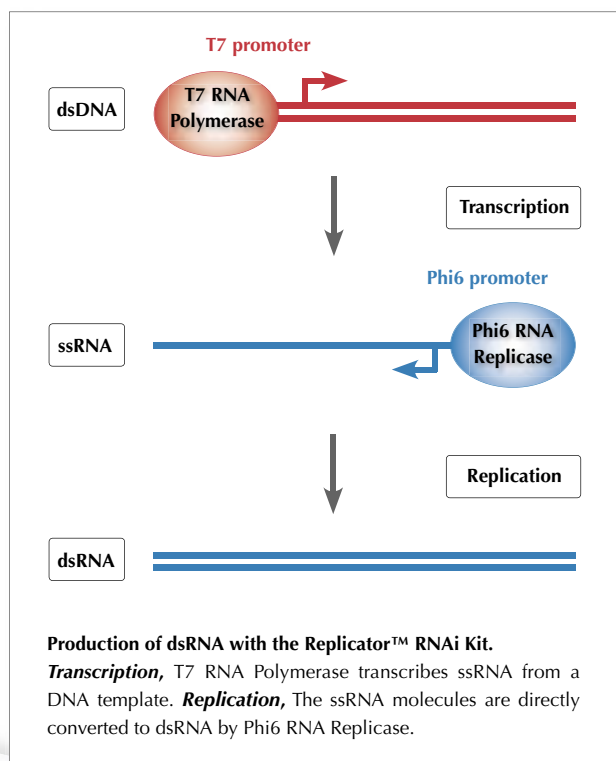
# Replicator™

## RNAi Kit

### Efficient system for producing large quantities of dsRNA

Finzymes' Replicator™ RNAi Kit\* is a highly efficient and specific tool for generating double-stranded RNA for gene silencing experiments. The kit utilizes a new technology where dsRNA is produced by combined *in vitro* transcription and replication reactions. Both reactions take place in a single incubation step. The suitable DNA template is created by PCR amplification. This step is carried out using Finzymes' Phusion™ High-Fidelity DNA Polymerase to ensure the highest possible fidelity. The unique RNA-dependent RNA polymerase in this system, Phi6 RNA Replicase, is also available separately.

\* patent pending

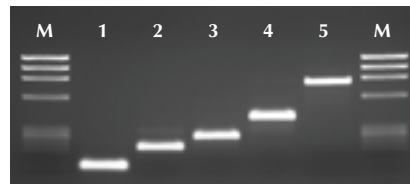


### Applications

- Production of double-stranded RNA in milligram quantities for gene silencing experiments based on the RNAi mechanism
- Production of a dsRNA marker fragment with a specific size

### Advantages

- No RNA hybridization step in the reaction protocol
- RNA produced with the Replicator™ RNAi Kit is perfectly duplexed
- No smeared product resulting from RNA secondary structure formation or misannealing on agarose gels
- Even large dsRNA fragments up to 20 kb, which are out of reach for competing systems, can be amplified



**Production of various gene-specific dsRNA fragments with the Replicator™ RNAi Kit.** PCR-amplified fragments of various sizes were used as template DNA: 150 bp of lambda DNA (lane 1), 210 bp of Furin gene (2), 281 bp of Erk1/2 kinase gene (3), 430 bp of Caspase-3 gene (4) and 864 bp of lambda DNA (5). 0.1 µl from each reaction mixture was loaded on an agarose gel.

### Ordering Information

RNA-related products	
F-610	Replicator™ RNAi Kit (40 reactions in 50 µl volume)
F-611S/L	Phi6 RNA Replicase, 60 / 300 U (1 U / µl)

Phi6 RNA Replicase and the method in the Replicator™ RNAi Kit are covered by a patent pending. Replicator and Phusion are trademarks of Finzymes Oy. PCR license notice: These products are sold under licensing arrangements of Finzymes Oy with F. Hoffman-La Roche Ltd. The purchase of these products is accompanied by a limited license to use them in the Polymerase Chain Reaction (PCR) process in conjunction with a thermal cycler whose use in the automated performance of the PCR process is covered by the up-front fee, either by payment to Applied Biosystems or as purchased, i.e. an authorized thermal cycler. The quality system of Finzymes Oy is certified according to standard SFS-EN ISO9001:2000.

 **FINNZYMES**  
TOOLS FOR MOLECULAR BIOLOGY  
FINNZYMES OY  
Keilaranta 16 A, 02150 Espoo, Finland  
Tel. +358 9 584 121  
Fax +358 9 5841 2200  
fz@finnzymes.fi, www.finnzymes.com