

# illustra™

## TempliPhi™ Sequence Resolver Kit

Codes: 28-9035-29  
28-9035-30  
28-9035-31

### Description

**Warning: For research use only.** Not recommended or intended for diagnosis of disease in humans or animals. Do not use internally or externally in humans or animals. illustra TempliPhi Sequence Resolver Kit uses the highly processive, strand-displacing Phi29 DNA polymerase and modified nucleotides to amplify circular templates for subsequent sequencing. The formulation is designed to help resolve sequencing problems associated with repeats, sequencing stops, and compressions due to high GC content. Product amplified using the TempliPhi Sequence resolver kit does not form the same secondary structure artifacts and provide greatly improved results with Phred20 scores greater than 800bp.

### Legal

GE, imagination at work and GE Monogram are trademarks of General Electric Company.

illustra and TempliPhi are trademarks of General Electric Company or one of its subsidiaries.

For use only as licensed by Qiagen GmbH. and GE Healthcare. The Phi 29 DNA polymerase may not be re-sold or used except in conjunction with the other components of this kit. See US patent numbers 5,854,033, 6,124,120, 6,143,495, 6,323,009, 5,198,543, 5,576,204, and their equivalents in other countries.

GE Healthcare reserves the right, subject to any regulatory approval, if required, to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

All goods and services are sold subject to the terms and conditions of sale of the company within GE Healthcare which supplies them. A copy of these terms and conditions is available on request. Contact your local GE Healthcare representative for the most current information.

© 2013 General Electric Company - All rights reserved  
First published May 2013

For your local office contact information, visit  
<http://www.gelifsciences.com/contact>

GE Healthcare UK Limited  
Amersham Place  
Little Chalfont, Buckinghamshire,  
HP7 9NA, UK

<http://www.gelifsciences.com>



## Short Protocol

The steps outlined below describe a general protocol to amplify sequencing templates. **This protocol is a starting point for optimizing the reaction in your laboratory.**

**NOTE:** The short protocol is appropriate for researchers who have optimized their TempliPhi Sequence Resolver Kit reactions. First-time users must review the Full Protocol, which can be downloaded from <http://www.gelifesciences.com>

The full protocol can also be obtained by e-mail or fax by contacting your local GE Technical Support Group.

- 1. Heat denaturation of template in sample buffer**
  - a. Mix 1  $\mu$ l of template with 4  $\mu$ l of sample buffer
  - b. Heat to 95°C for 3 minutes.
  - c. Cool to 4°C on ice.
- 2. Preparation of amplification reaction**
  - a. For each amplification reaction, combine 4.5  $\mu$ l of reaction buffer with 0.5  $\mu$ l of enzyme
  - b. Mix on ice.
  - c. Add this to the cooled sample.
- 3. Incubation**

Incubate the sample at 10°C for 16–18 hours.
- 4. Post-amplification heat inactivation**

Heat the sample to 65°C for 10 minutes.  
Cool to 4°C.
- 5. Sequencing**

Use 2  $\mu$ l of amplification product per 20  $\mu$ l sequencing reaction.



imagination at work