

# TwistAmp® fpg Quick Guide

Part Number: TAFPG02Guide | Revision A

## Basic Information

### RPA

- 1) Primers must be 30-35 bases
- 2) Works best at constant temperature (37-39°C)
- 3) Amplicons of 80-400bp are preferred
- 4) TwistAmp® fpg Probe required - see overleaf

### PCR

- 1) Primers typically 18-25 bases
- 2) Thermal cycling required
- 3) Amplicons of 50bp upwards are typical/optimal

### Set-up (single-plex)<sup>1</sup>

- 1) Prepare reaction mix in 1.5ml tube:

Primer A (10µM)	2.1 µl
Primer B (10µM)	2.1 µl
TwistAmp® fpg Probe (10µM)	0.6 µl
Rehydration Buffer	29.5 µl
Template and dH <sub>2</sub> O	13.2 µl
(Total Volume)	47.5 µl

Vortex and spin briefly
- 2) Add reaction mix to freeze-dried reaction. Pipette to mix.
- 3) Add 2.5 µl of 280mM MgAc (supplied) and mix well to start reaction.

**WARNING: RPA REACTIONS START AT ROOM TEMPERATURE AS SOON AS MAGNESIUM IS ADDED.**

- 4) Place strip in Twista® and start run: 37-39°C, 20 minutes.
- 4b) For low template copy number, remove strip after 4 minutes, vortex & spin briefly, replace in Twista®.

**WARNING: IF TUBES ARE OPENED AFTER AMPLIFICATION THERE IS A GREAT RISK OF CONTAMINATION OF WORK SURFACES WITH AMPLICON! ENSURE THAT APPROPRIATE AVOIDANCE MEASURES ARE TAKEN!**

**WARNING: SWITCH OFF HEATED LIDS BEFORE STARTING REACTIONS!**

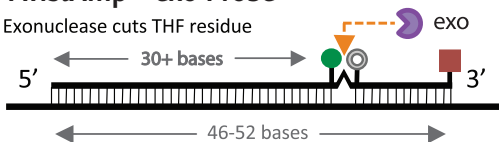
<sup>1</sup> See manual for multiplexing

# RPA uses TwistDx's proprietary probe systems

*RPA does NOT use PCR probe systems*

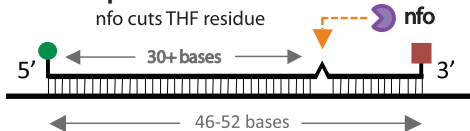
## TwistAmp® exo Probe

Exonuclease cuts THF residue



## TwistAmp® LF Probe

nfo cuts THF residue

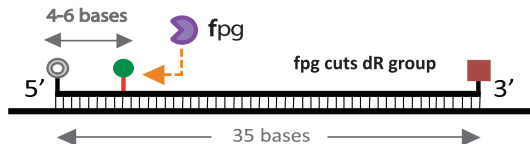


## TwistAmp® fpg probe

4-6 bases

fpg

fpg cuts dR group



*refer to manual for  
details of probe design*