## TrueMark<sup>™</sup> Prostate Protein Assay

Sample Dilutions Plate

Proceed to set up Plate 2 binding reactions

## Catalog Number A46360

Pub. No. MAN0019000 Rev. A.0

Note: For safety and biohazard guidelines, see the "Safety" appendix in the *TrueMark*<sup>™</sup> *Prostate Protein Assay User Guide* (Pub. No. MAN0017766). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

This Quick Reference is intended as a benchtop reference for experienced users of the TrueMark<sup>™</sup> Prostate Protein Assay. For detailed instructions, supplemental procedures, and troubleshooting, see the *TrueMark<sup>™</sup> Prostate Protein Assay User Guide* (Pub. No. MAN0017766).

## Assay procedure: Day 1

Prepare the Sample Stocks Plate





Plate 1 (samples + Probes + Calibrators)

>16 hours, 4°C (binding reaction)



Fig. 1 Biomek<sup>™</sup> FX<sup>P</sup> deck setup for Binding Reaction Setup Method-Plate 1

- TL1 AP96 P20 Tips
- P1 AP96 P20 Tips
- P4 Span-8 P250 Tips
- P5 Span-8 P250 Tips
- P6 1.0-mL deep-well plate
- P7 Sample Buffer (quarter reservoir in frame, liquid on the left)
- P8 Span-8 P1000 Tips
- **P9** Fast 96-well plate on 96-well base
- **P10** 2-mL rack (2 × Probe Buffer, PSP94 Buffer)
- P11 Empty Sample Dilutions Plate (Fast 96-well plate) on 96-well base

- Pelt384\_1 Empty Plate 1 (384-well EnduraPlate<sup>™</sup>)
- Pelt96\_1 Fast 96-well plate
- PeltFlat\_1 0.5-mL rack (Probes A and B, Calibrators for KLK2, PSP94)
  - **P12** Sample Stocks Plate on 96-well base
  - W Liquid waste
  - TR1 Tip waste
  - P13 Span-8 P20 Tips
  - **P14** Span-8 P20 Tips
  - **P15** Span-8 P20 Tips

## Set up, then run the Plate 2 binding reactions on the Biomek<sup>™</sup> FX<sup>P</sup> instrument



## Assay procedure: Day 2

# Set up, then run Ligation Reaction Setup Method on the Biomek<sup>™</sup> FX<sup>P</sup> instrument Perform this procedure for Plate 1, then repeat for Plate 2.





Fig. 3 Biomek<sup>™</sup> FX<sup>P</sup> deck setup for Ligation Reaction Setup Method

- TL1 AP96 P20 Tips
- P5 AP96 P20 Tips
- P6 AP96 P20 Tips
- P7 AP96 P20 Tips
- P9 Ligation-qPCR Master Mix (quarter reservoir in frame, liquid on the left)

Pelt384\_1 Plate 1/Plate 2

**Pelt96\_1** Fast 96-well plate

PeltFlat\_1 0.5-mL rack (D1-DNA Ligase; D2-Master Mix Additive)

- P13 Span-8 P1000 Tips
- P14 Span-8 P250 Tips
- P15 Span-8 P20 Tips

## Run the ligation reaction on the ProFlex<sup>™</sup> thermal cycler

Perform this procedure for Plate 1, then repeat for Plate 2.

- 1. Ensure that the heated cover setting is off.
- 2. Place the plate in the ProFlex<sup>™</sup> thermal cycler, next to an empty 384-well EnduraPlate<sup>™</sup>.
- 3. Apply a compression pad over each plate, close the cover, then run the following program.

Temperature	Time
25°C	25 minutes
95°C	5 minutes
4°C	∞

- 4. Remove the plate from the thermal cycler, then place on ice or at 4°C for 5 minutes to ensure that the entire plate equilibrates to 4°C.
- 5. Tap the plate firmly on a benchtop 5–10 times to mix, centrifuge at  $1,400 \times g$  for 1 minute, then proceed to the next section.

#### Run the real-time PCR on the QuantStudio<sup>™</sup> 12K Flex Instrument

- 1. In the QuantStudio<sup>™</sup> 12K Flex Software, in the Experiment pane, click Create.
- 2. In the Experiment Properties screen, enter the experiment name, then select the experiment properties.

Property	Setting
Block	384-well
Experiment type	Standard Curve
Reagents	TaqMan <sup>™</sup> Reagents
Instrument run	Fast

- 3. Click Import > Import Plate Setup, navigate to, then select the plate setup file.
- 4. Click Start Import.
- 5. In the Assign screen, ensure that the assays and samples have been assigned to the appropriate wells.
- 6. In the **Run Method** screen, enter the thermal cycling parameters.
  - Reaction volume per well-20 μL

Stage	Temperature	Time
Hold	95°C	20 seconds
PCR (40 cycles)	95°C	1 second
	60°C	20 seconds

- 7. Save the experiment (EDS file), then load the plate into the instrument.
- 8. Start the run.
- 9. After the run is complete, click Analysis.
- 10. In the Analysis screen, click Analysis Settings, ensure the following default Ct settings are selected, then click Analyze > Save.
  - Baseline—Auto
  - Threshold 0.2
- 11. In Experiment Menu, click Export, then select the format, data, and location for export.
  - Data format—QuantStudio 12K Flex
  - File type-\*.txt
  - Data-select the checkboxes in the Sample Setup and Results tabs.
- 12. Click Start Export.

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Life Technologies Corporation | 6055 Sunol Blvd | Pleasanton, CA 94566

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Revision	Date	Description
A.0	27 February 2020	New document for new product launch.

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