

# Template for PCR pathogen Detection

## Positive Control Template VP1

**Code No. S031**                      **Size:**                      **5 ng**  
**Conc.:**                      **100 pg/ $\mu$ l**

\* 2 years from date of receipt under proper storage conditions.

### Detectable Gene:

This product contains positive control template for PCR detection of pathogenic genes. For the detection of thermostable direct hemolysin (*tdh*) gene of *Vibrio parahaemolyticus*, use in conjunction with Primer Set VPD-1&2 (Cat. #S001), and for the detection of thermostable direct hemolysin-related hemolysin (*trh1*) gene of *Vibrio parahaemolyticus*, use in conjunction with Primer Set VPS-1&2 (Cat. #S002).

### Amplified Fragment:

with Primer Set VPD (Cat. #S001): 688 bp  
with Primer Set VPS (Cat. #S002): 688 bp

### Form:

Supplied in TE buffer.  
10 mM Tris-HCl, pH 8.0  
1 mM EDTA

**Storage:**                      -20°C

### Application Example:

1. Reaction mixture for PCR (total 50  $\mu$ l)

<i>TaKaRa Taq</i> <sup>™</sup> (5 U/ $\mu$ l)	0.25 $\mu$ l
10X PCR buffer* <sup>1</sup>	5 $\mu$ l
dNTP Mixture* <sup>2</sup> (2.5 mM each)	4 $\mu$ l
Primer 1	0.5 $\mu$ l
Primer 2	0.5 $\mu$ l
Positive Control Template	0.5 $\mu$ l
Sterile purified water	39.25 $\mu$ l
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Total	50 $\mu$ l

(Reaction mixture shall be prepared on ice.)

\*<sup>1</sup> Supplied with Primer Set.

\*<sup>2</sup> Supplied with *TaKaRa Taq* (Cat. #R001A).

2. PCR Condition

94°C	1 min	} 35 cycles
55°C	1 min*	
(60°C	1 min)	
72°C	1 min	

\* 55°C for VPD-1&2, 60°C for VPS-1&2

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### Note

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