

Vibrio parahaemolyticus

区分	手法名 (文献)	プライマー		反応温度条件	増幅産物 bp	備考	推奨度
		名称	配列(5'-3')				
PCR	Vp-tlh1/Vp-tlh2 (Haldar et al., 2010)	Vp-tlh1	GATTTGGCGAACGAGAAC	94°C5分→(94°C30秒、54°C30秒、72°C30秒)×30サイクル→72°C5分	695	<i>V.harveyi</i> , <i>V. campbellii</i> , <i>V. parahaemolyticus</i> のそれぞれの特異プライマー(Haldar et al., 2010)を用いたMultiplex PCRが可能。	—
		Vp-tlh2	CGTCTCGAACCAAGGCG				
	VP 1155272 F/VP 1155272 R (Kim et al. 2015)	VP 1155272 F	AGCTTATTGGCGGTTTCTGTCTGG	94°C5分→(94°C30秒、60°C30秒、72°C30秒)×25サイクル→72°C10分	297	<i>V.parahaemolyticus</i> , <i>V. cholerae</i> , <i>V. vulnificus</i> , <i>V. alginolyticus</i> , <i>Vibrio mimicus</i> , <i>Vibrio</i> sp.のそれぞれの特異プライマー(Kim et al., 2015)を用いたMultiplex PCRが可能。	—
		VP 1155272 R	CKCAAGACCAAGAAAAGCCGTC				
	toxR-F/toxR-R (Tsai et al. 2012)	toxR-F	GTCTTCTGACGCAATCGTTG	96°C5分→(96°C40秒、57°C40秒、72°C60秒)×35サイクル→72°C10分	368	<i>V.parahaemolyticus</i> , <i>V. vulnificus</i> , <i>Chryseobacterium meningosepticum</i> , <i>Edwardsiella tarda</i> , <i>Aeromonas hydrophila</i> のそれぞれの特異プライマー(Tsai et al., 2012)を用いたMultiplex PCRが可能。	—
toxR-R		ATACGAGTGGTTGCTGTCATG					
Vp.fluE-79F/Vp.fluE-934R (Tarr et al., 2007)	Vp.fluE-79F	GCAGCTGATCAAAACGTTGAGT	93°C15分→(92°C40秒、57°C1分、72°C1.5分)×35サイクル→72°C7分	897	<i>V. cholerae</i> , <i>V. parahaemolyticus</i> , <i>V. vulnificus</i> , <i>V. mimicus</i> , <i>Vibrio</i> sp.のそれぞれの特異プライマー(Tarr et al., 2007)を用いたMultiplex PCRが可能。	—	
	Vp.fluE-934R	ATTATCGATCGTGCCACTCAC					
リアルタイムPCR	<i>V. parahaemolyticus</i> (Uchiyama et al. 2012)	Vt-Forward	CCTTGGATTCCACGCGTTATT	50°C2分→95°C10分→(95°C15秒、58°C60秒)×40サイクル	情報無	TaqMan Gene Expression Master Mix (Applied Biosystems)を使用。 <i>V. fischeri</i> , <i>V. parahaemolyticus</i> , <i>V. harveyi</i> のそれぞれの特異プライマー(Uchiyama et al., 2012)を用いたMultiplex PCRが可能。	—
		Vt-Reverse	ATCTGACGGAAGTCTGAGATTCCG				
		Vt-Probe	NED- ATTTGCGTACTGCTGTTTA -BHQ-MGB				
	<i>V. parahaemolyticus</i> (Liu et al. 2016)	toxrtF	CAATGACGCCTCTACTAATGA	95°C30秒→(95°C5秒、60°C31秒)×40サイクル	情報無	SYBR®Premix Ex Taq™ II (TaKaRa)を使用。	—
toxrtR		CACCAATCTGACGGAAGTGA					

文献

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