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℃5分→(94℃30秒、54℃30秒、72℃30秒)×30サイクル→72℃5分	695	*V.harveyi, V. campbellii, V. parahaemolyticus*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	CGTCTCGAACAAGGCG				
	VP 1155272 F/VP 1155272 R (Kim et al. 2015)	VP 1155272 F	AGCTTATTGGCGGTTTCTGTCGG	94℃5分→(94℃30秒、60℃30秒、72℃30秒)×25サイクル→72℃10分	297	*V.parahaemolyticus, V. cholerae, V. vulnificus, V, alginolyticus, Vibrio mimicus, Vibrio* 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℃5分→(96℃40秒、57℃40秒、72℃60秒)×35サイクル→72℃10分	368	*V.parahaemolyticus, V. vulnificus, Chryseobacterium meningosepticum, Edwardsiella tarda, Aeromonas hydrophila*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.flaE-79F/Vp.flaE-934R (Tarr et al., 2007)	Vp.flaE-79F	GCAGCTGATCAAAACGTTGAGT	93℃15分→(92℃40秒、57℃1分、72℃1.5分)×35サイクル→72℃7分	897	*V. cholerae, V. parahaemolyticus, V. vulnificus, V. mimicus, Vibrio* 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.flaE-934R	ATTATCGATCGTGCCACTCAC				
リアルタイムPCR	V. parahaemolyticus (Uchiyama et al. 2012)	Vt-Forward	CCTTGGATTCCACGCGTTATT	50℃2分→95℃10分→(95℃15秒、58℃60秒)×40サイクル	情報無	TaqMan Gene Expression Master Mix (Applied Biosystems)を使用。*V. fischeri, V. parahaemolyticus, V. harveyi*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	ATCTGACGGAACTGAGATTCCG				
		Vt-Probe	NED- ATTTGCGTACTGCTGTTTA -BHQ-MGB				
	V. parahaemolyticus (Liu et al. 2016)	toxrtF	CAATGACGCCTCTACTAATGA	95℃30秒→(95℃5秒、60℃31秒)×40サイクル	情報無	SYBR®Premix Ex TaqTM II (TaKaRa)を使用。	―
		toxrtR	CACCAATCTGACGGAACTGA				

文献

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