PCR protocol

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RBRC 09815 Strain name B6-PcdhgC3<c.2400_2401del>PcdhgC4<c.2405_2418del, c.2422C>A>

Primer	primer_name	primer_seq	length		
1	primerC3F	GTGGAAGCGGTCTAGGGACCTCTAC	25		Depositor's primer
2	wt	GGGGCGCTCTCTGCACCCAATA	22		RIKEN BRC
3	del2	GGGGCGCTCTCTGCACCCAATC	22		RIKEN BRC
4	primerC4R	CCCCCACTGAGTTCTGATCTATAGGCTTG	29		Depositor's primer
5	wt	CACCTATGGCTGGGGAGCCCG	21		RIKEN BRC
6	del14	CACCTATGGCTGGGGAGCTGTCA	23		RIKEN BRC

Reaction Components

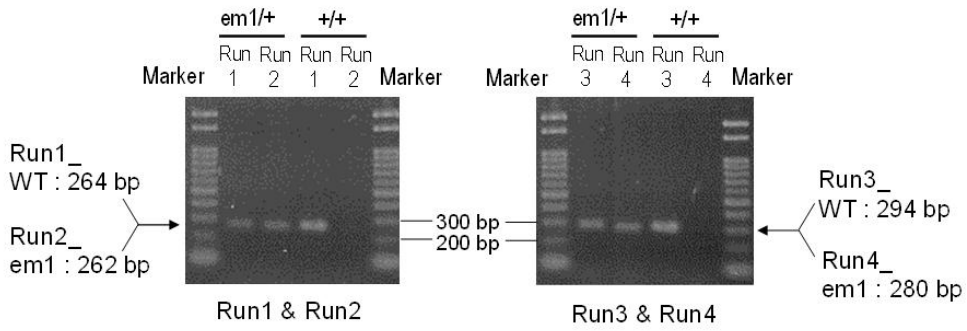
Enzyme: QIAGEN Multiplex PCR Kit (Cat. No. 206143)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.0	2.0	2.0	2.0
Master Mix	2 X	5.0	5.0	5.0	5.0
primer 1	10 pmol/μl	1.0	1.0	0	0
primer 2	10 pmol/μl	1.0	0	0	0
primer 3	10 pmol/μl	0	1.0	0	0
primer 4	10 pmol/μl	0	0	1.0	1.0
primer 5	10 pmol/μl	0	0	1.0	0
primer 6	10 pmol/μl	0	0	0	1.0
DNA		1.0	1.0	1.0	1.0
	total	10	10	10	10

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30	*
3	65	90	*
4	72	60	* *Repeat for 25 cycles

Separated PCR



Marker
Gene Ladder 100 (Wako, Cat. 316-06951)

Gel
2% agarose in 1 X TAE (100 V, 30 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	264 bp	WT
primer 1	primer 3	262 bp	em1
primer 4	primer 5	294 bp	WT
primer 4	primer 6	280 bp	em1

Comment