PCR protocol

RBRC 00063 **Strain name** BALB/c-Reln$^{rl\text{-}Orl}$/+

Primer	primer_name	primer_seq	length		
1	DF1	CGACTGCTCTGTCTTCAGTCACGAG	25	common	Hum. Mol. Genet., 5, 989-993 (1996).
2	LCB317 (CR1)	CACCCTCTCACCTGTTCAGACTAATT	26	mutant	Depositor's primer
3	DR1	CTCGAGTGAGGTCCAGTGGCTT	22	wild	Hum. Mol. Genet., 5, 989-993 (1996).

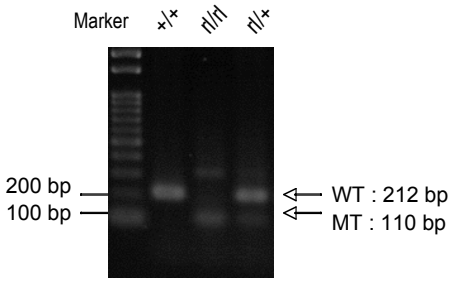
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		12.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq		0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	60	*	*Repeat for 35 cycles
5	72	300		



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 3	212 bp	WT
primer 1	primer 2	110 bp	mutant

Comment