

PCR protocol

RBRC 03451 Strain name pOCT-GFP/BR Tg

Primer	primer_name	primer_seq	length	
1		CCTAGAGCACAGCCCCATAG	20	Depositor's primer
2	Vasa 5'-RFP	GCTTCAAGTAGTCGGGGATG	20	
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20	JAX Genotyping Protocol
4	oIMR0015	CAAATGTTGCTTGTCTGGTG	20	JAX Genotyping Protocol
5		CTAGGTGAGCCGTCTTTCCA	20	Depositor's primer
6	OCGOFD43	ACCTCTACAAATGTGGTATG	20	Depositor's primer
7	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
8	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

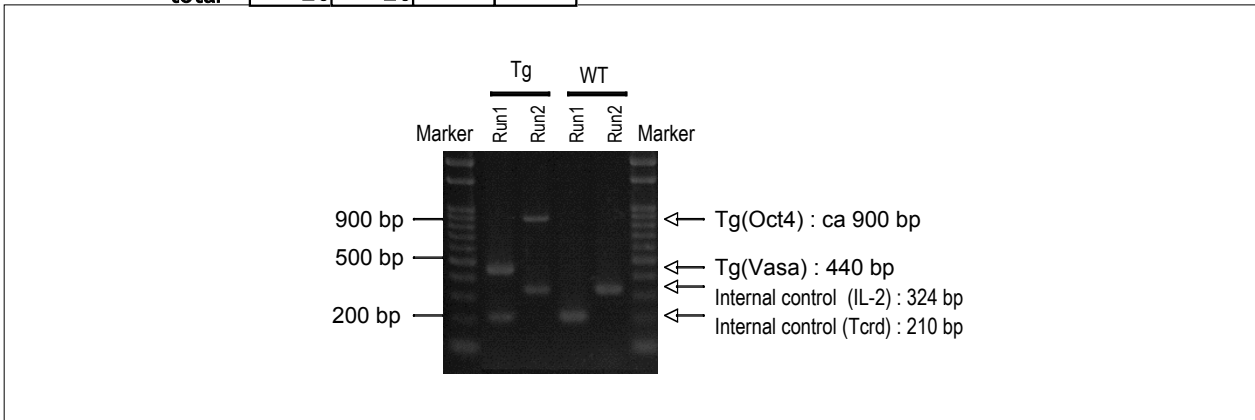
Reaction Components

Enzyme	TaKaRa Ex Taq (Cat. No. RR001A)
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Reaction Conditions

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		11.3	11.3		
PCR buffer	10 X	2.0	2.0		
dNTP	2.5 mM	1.6	1.6		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	1.0	0		
primer 4	10 pmol/μl	1.0	0		
primer 5	10 pmol/μl	0	1.0		
primer 6	10 pmol/μl	0	1.0		
primer 7	10 pmol/μl	0	1.0		
primer 8	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	5U/μl	0.1	0.1		
total		20	20		



Marker	Gene Ladder 100 (Wako, Cat. 316-06951)
Gel	2% agarose in 1 X TAE (100 V, 30 min)

PCR products		product_size	product
primer_set			
primer 1	primer 2	440 bp	Tg (Vasa-RFP)
primer 3	primer 4	210 bp	Internal control (Tcrd)
primer 5	primer 6	ca 900 bp	Tg (Oct4-GFP)
primer 7	primer 8	324 bp	Internal control (IL-2)

Comment