

PCR protocol

RBRC 01773

Strain name RECS1 knockout mouse line26

Primer	primer_name	primer_seq	length
1	KSP3'	CGACGGTATCGATAAGCTTG	20
2	KO12	ACAGAGTTTGGTGCATACTCGTC	23
3	AS89	GATGGTGACAGAGATGGATA	20
4	S8	CGATTCCCATGGAACATCAT	20

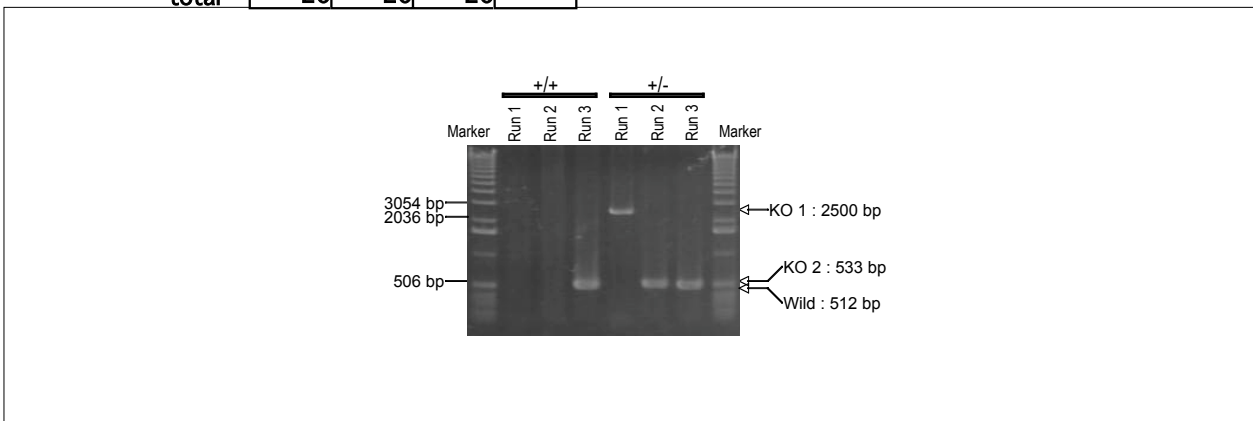
Reaction Components

Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	55	30*	
4	72	120*	*Repeat for 30 cycles
5	72	300	

Conc	Run 1	Run 2	Run 3	Run 4
H2O	4.8	4.8	4.8	
PCR buffer	2 X GC I	10.0	10.0	10.0
dNTP	2.5 mM	2.0	2.0	2.0
primer 1	10 pmol/μl	1.0	1.0	0
primer 2	10 pmol/μl	1.0	0	0
primer 3	10 pmol/μl	0	1.0	1.0
primer 4	10 pmol/μl	0	0	1.0
DNA		1.0	1.0	1.0
Taq		0.2	0.2	0.2
total	20	20	20	



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)
Gel
1% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set	product_size	product
primer 1 primer 2	2500 bp	KO
primer 1 primer 3	533 bp	KO
primer 3 primer 4	512 bp	WT

Comment