PCR protocol

Sheet ID PS_06337
Release date : 5/10/2016
Print date : 5/10/2016

RBRC 01252 Strain name FLP66 mouse

Primer	primer_name	primer_seq	length		
1	Ef1	GGTTTGCCGCCAGAACACAG	20		Development, 122, 1703-1709 (1996).
2	FlpP2	GCACGCTTATCGCTCCAATTTCCCACAAC	29		Biochem. Biophys. Res. Commun., 293, 953
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

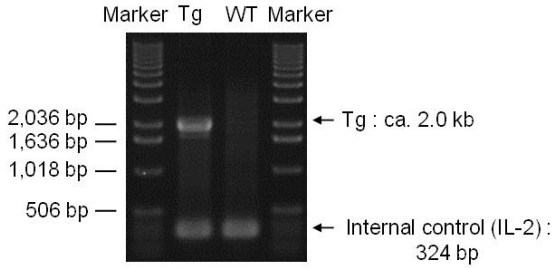
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
primer 4	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	180	* *Repeat for 30 cycles

Standard PCR



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	ca. 2.0 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.

PCR protocol

Sheet ID PS_01686
Release date : 11.19.2008
Print date : 5/10/2016

RBRC 01252 Strain name FLP66 mouse

Primer	primer_name	primer_seq	length		
1	FlpP1	TGACAGAGACAAAGACAAGCGTTAGTAGGC	30		Biochem. Biophys. Res. Commun., 293, 953
2	FlpP2	GCACGCTTATCGCTCCAATTTCCCACAAC	29		Biochem. Biophys. Res. Commun., 293, 953
3	E1P1	TCTGGGGCCTGGTCTTCAACAATTCTGTGC	30		Depositor's primer
4	E1P2	CTTCTTGTCACTGAGGCCAGTCACTTGGTC	30		Depositor's primer

Reaction Components

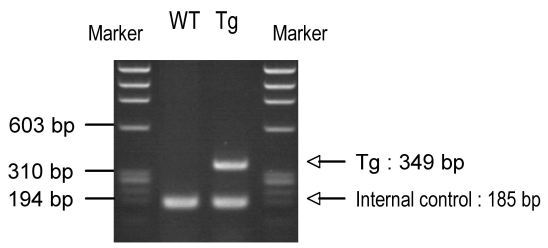
Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		3.8			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	0.5			
primer 4	10 pmol/μl	0.5			
DNA		1.0			
Taq		0.2			
	total	20			

Reaction Conditions

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

Generic PCR



Marker

ϕX174 Hae III

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	349 bp	Tg
primer 3	primer 4	185 bp	Internal control (Grin2a)

Comment

PCR protocol

Sheet ID PS_00227
Release date : 6/20/2006
Print date : 5/10/2016

RBRC 01252 Strain name FLP66mouse

Primer	primer_name	primer_seq	length		
1	FlpP1	TGACAGAGACAAAGACAAGCGTTAGTAGGC	30		Biochem. Biophys. Res. Commun., 293, 953
2	FlpP2	GCACGCTTATCGCTCCAATTTCCCACAAC	29		Biochem. Biophys. Res. Commun., 293, 953
3	E1P1	TCTGGGGCCTGGTCTTCAACAATTCTGTGC	30		Depositor's primer
4	E1P2	CTTCTTGTCACTGAGGCCAGTCACTTGGTC	30		Depositor's primer

Reaction Components

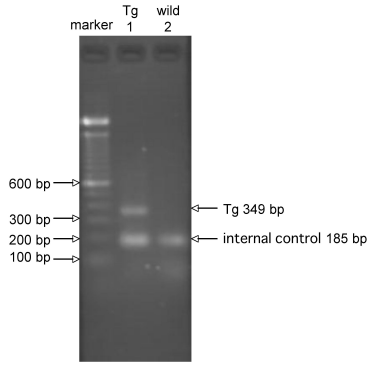
Enzyme: Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		14.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.5			
primer 2	10 pmol/μl	1.5			
primer 3	10 pmol/μl	1.0			
primer 4	10 pmol/μl	1.0			
DNA		1.0			
Taq		0.2			
	total	25			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	300	
2	94	30	*
3	65	30	*
4	72	60	* *Repeat for 30 cycles
5	72	300	

Generic PCR



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 2	349 bp	Tg
primer 3	primer 4	185 bp	Internal control (Grin2a)

Comment