PCR protocol

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RBRC 09541 **Strain name** C57BL/6N-Fdx1l<em1Rbrc>

Primer	primer_name	primer_seq	length		
1	ck_MGE75-F	GAAGTCCAGCTAGATCCCAGTGCAT	25		RIKEN DNA Bank
2	ck_MGE75-R	CTCACACGTCCCGGGGCAGCTCCGG	25		RIKEN DNA Bank

Reaction Components

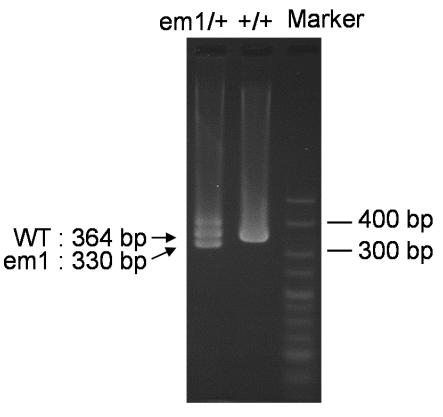
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.8			
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			
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	60	*	*Repeat for 30 cycles

Standard PCR



Marker

25bp DNA Step Ladder (Wako, Cat. 292-69001)

Gel

3% Nusieve in 0.5 X TBE (100 V, 60 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	364 bp	WT
primer 1	primer 2	330 bp	em1

Comment

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