

RBRC 10939

Strain name C57BL/6N-Slc38a4^{em2Smtb}

Primer	primer_name	primer_seq	length	Reference
1	intron 14	TCACGTGCTGTGACTCTCTTCTC	23	RIKEN BRC
2	Slc38a4-GT-12F1	CCCCGGGATTAGTGGTGATT	20	Proc. Natl. Acad. Sci. USA, 116(42):21047-21053 (2019)
3	Slc38a4-GT-12R1	TCCCTCCCTTCTTTTCAGCT	20	Proc. Natl. Acad. Sci. USA, 116(42):21047-21053 (2019)

Reaction Components

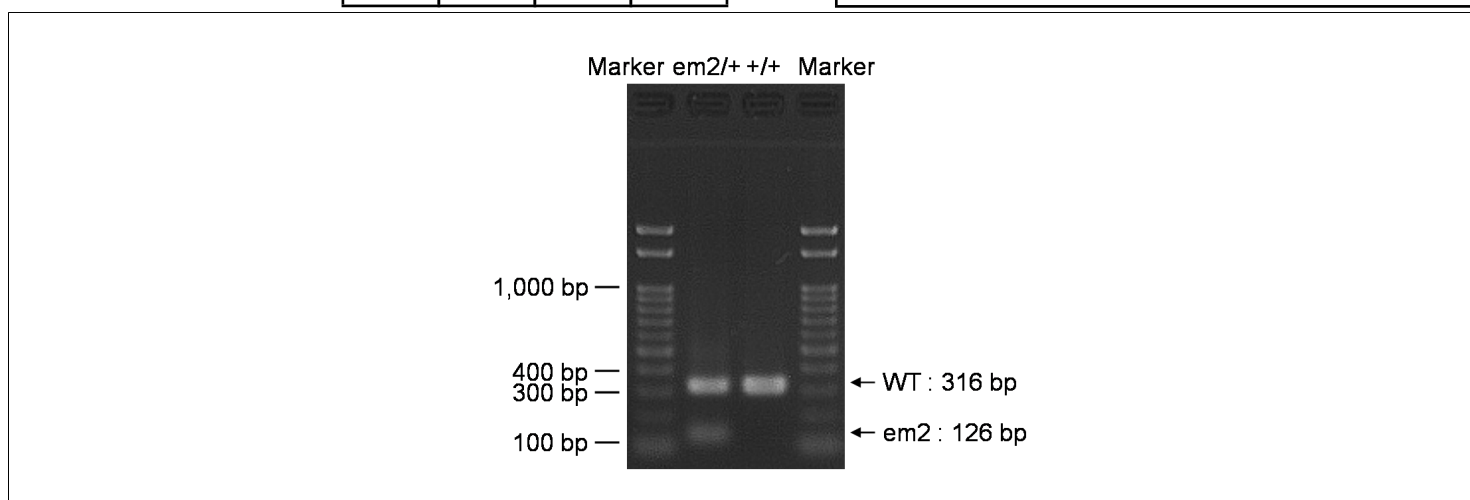
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
primer 3	10 pmol/ μ l	1.0				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		20				

Reaction Conditions

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

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



primer_set	product_size	product (allele type)
primer 1	316 bp	WT
primer 2	126 bp	em2

Comment Standard PCR

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