

RBRC 05557 Strain name B6J.MSM-Hiomt<MSM>

Primer	primer_name	primer_seq	length	
1	Hiomt F	CGAGGTCACCGTGTTCGAGA	20	Proc. Natl. Acad. Sci. USA, 107, 6412
2	Hiomt_ex6_B6_1R	CCGGGATGATGTCAC T CGC	19	Japan Mouse Clinic
3	Hiomt_ex6_MSM_1R	CCGGGATGATGTCAC C CAG	19	Japan Mouse Clinic
4		TGTCGGGACCTGAGGGGCACTC	22	RIKEN BRC
5		CCAGGTAGAGCAGGAGGCTGCGC	23	RIKEN BRC

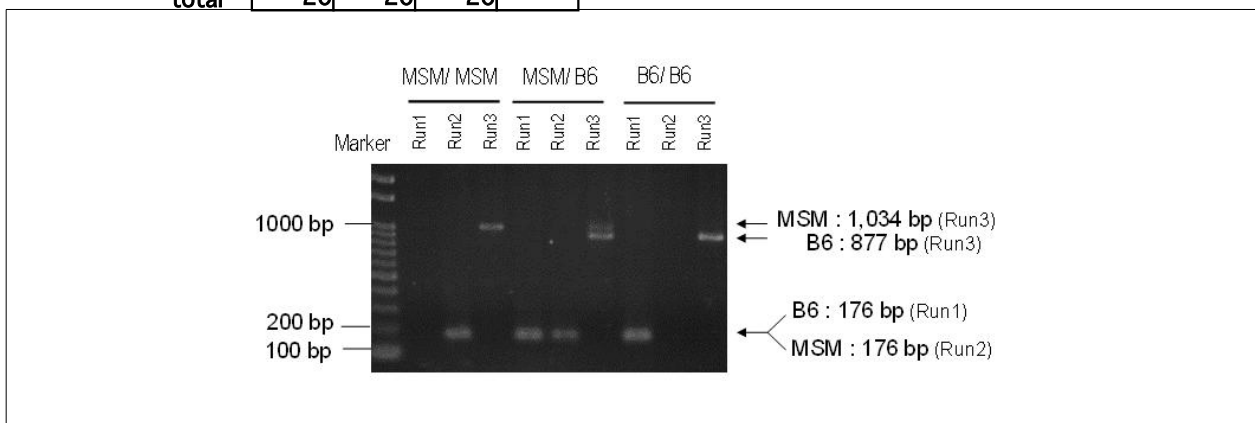
Reaction Components

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	65	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		4.9	4.9	4.9	
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/ μ l	1.0	1.0	0	
primer 2	10 pmol/ μ l	1.0	0	0	
primer 3	10 pmol/ μ l	0	1.0	0	
primer 4	10 pmol/ μ l	0	0	1.0	
primer 5	10 pmol/ μ l	0	0	1.0	
DNA		1.0	1.0	1.0	
Taq	5 U/ μ l	0.1	0.1	0.1	
total		20	20	20	



Marker
Gene Ladder 100 (Wako, Cat. 316-06951)

Gel
2% agarose in 1 X TAE (100 V, 40 min)

PCR products

primer_set	product_size	product
primer 1	176 bp	B6
primer 1	176 bp	MSM
primer 4	877 bp	B6
primer 4	1034 bp	MSM

Comment