

RBRC 09642

Strain name Tg(SOD1*H46R)IAra

Primer	primer_name	primer_seq	length	Reference
1	intron 1	CCACTCCCAAGTCTGGCTGC	20	RIKEN BRC
2	intron 2	GCATGAGGATCAATGGAGCCTG	22	RIKEN BRC
3	intron 3	GTGTGTAGACGTGAAGCCTTG	21	RIKEN BRC
4	Human SOD1 Reverse	CAAGGGGAGGTAAAAGAGAGC	21	Human Molecular Genetics., 24, 3427–3439 (2015).
5	oIMR0015	CAAATGTTGCTTGTCTGGTG	20	JAX Genotyping Protocol
6	oIMR0016	GTCAGTCGAGTGCACAGTTT	20	JAX Genotyping Protocol

Reaction Components

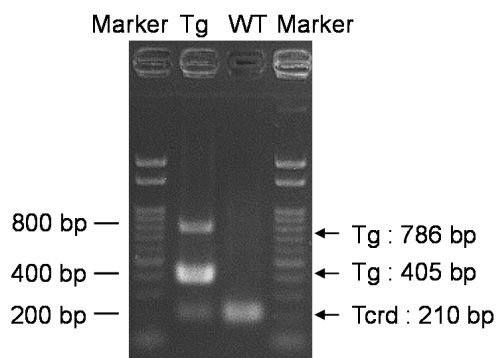
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	0.5			
primer 2	10 pmol/ μ l	0.5			
primer 3	10 pmol/ μ l	0.5			
primer 4	10 pmol/ μ l	0.5			
primer 5	10 pmol/ μ l	1.0			
primer 6	10 pmol/ μ l	1.0			
DNA		1.0			
Taq		0.2			
total		20			

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	primer 2	405 bp	Tg (SOD1)
primer 3	primer 4	786 bp	Tg (SOD1)
primer 5	primer 6	210 bp	Internal control (Tcrd)

Comment [Standard PCR](#)

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