

RBRC 11545

Strain name C57BL/6N-Del(16Dgcr2-Hira)Atai

Primer	primer_name	primer_seq	length	Reference
1	Del1.5Mb-Fw	CTAAGGAATGGTTCCGGCCA	20	Mol. Brain, 14(1):68 (2021).
2	Del1.4Mb-Rv	TGCTAGCCTGCATCGTAAGG	20	Mol. Brain, 14(1):68 (2021).
3	Del1.5Mb-Rv	TTTCACGGAGGCGGTATTCA	20	Mol. Brain, 14(1):68 (2021).

### Reaction Components

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

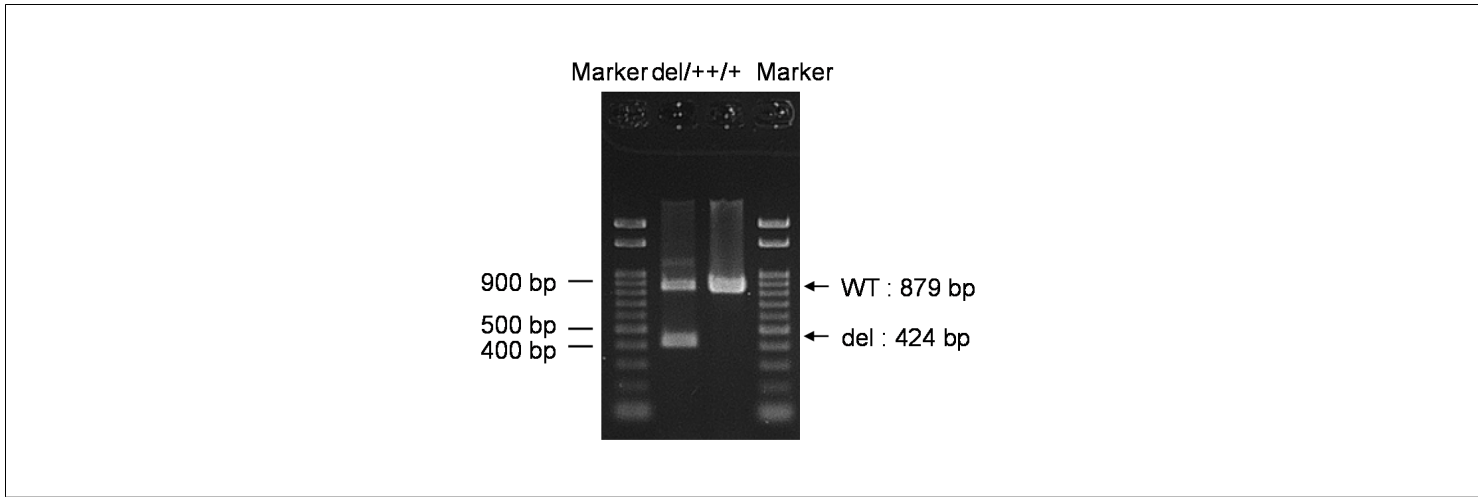
### Reaction Conditions

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	( $\mu$ L)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ $\mu$ l	1.0				
primer 2	10 pmol/ $\mu$ l	1.0				
primer 3	10 pmol/ $\mu$ l	1.0				
DNA		1.0				
Taq	1 U/ $\mu$ l	0.2				
<b>total</b>		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	879 bp	WT	+/+ (wild-type): 879 bp del/+ (heterozygous): 879 bp and 424 bp
primer 1 / primer 3	424 bp	del	

Comment Standard PCR

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