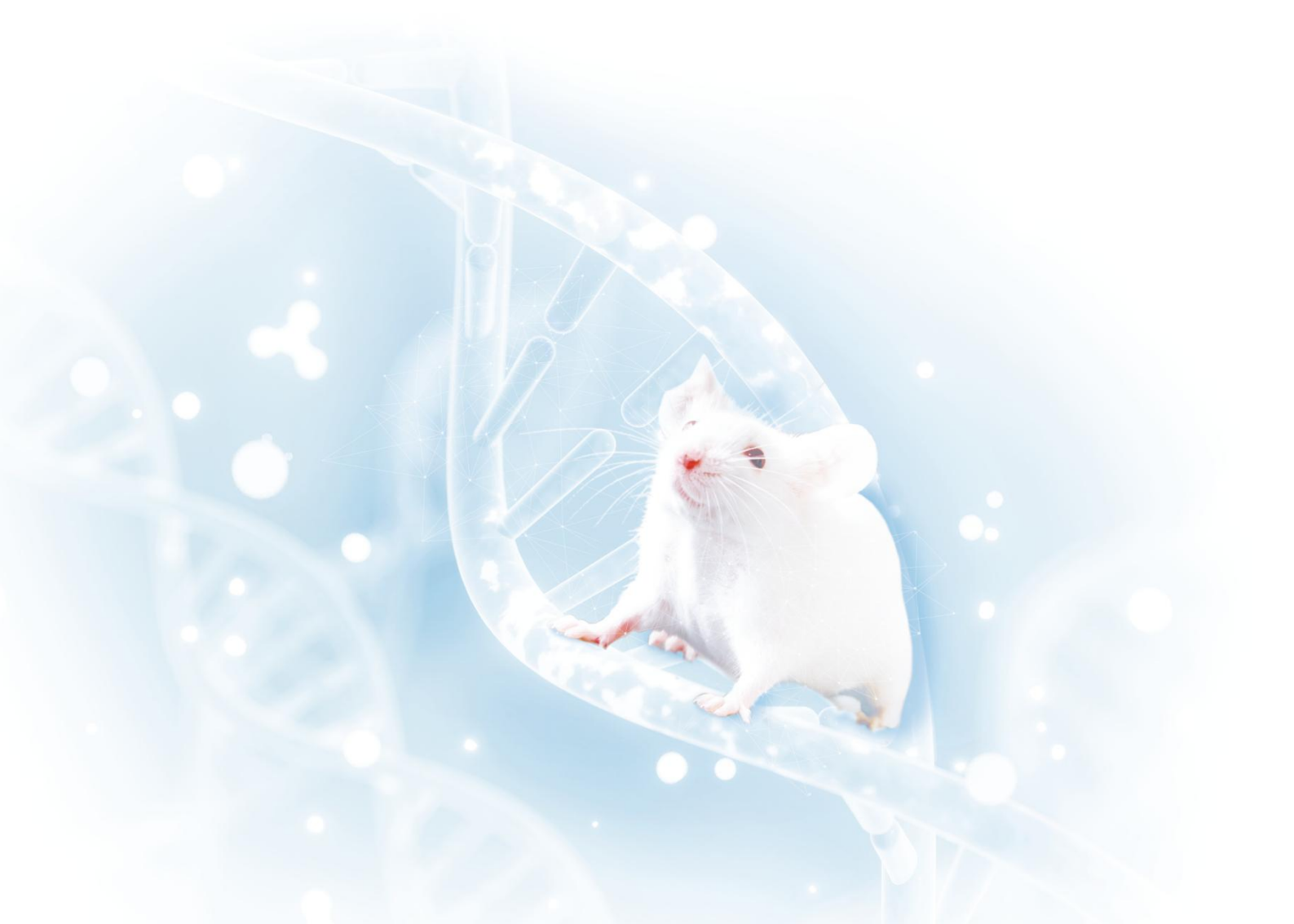


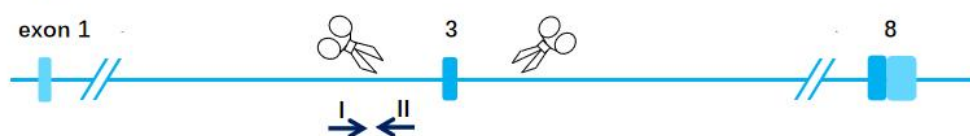
Cdk1-Flox Genotyping Protocol



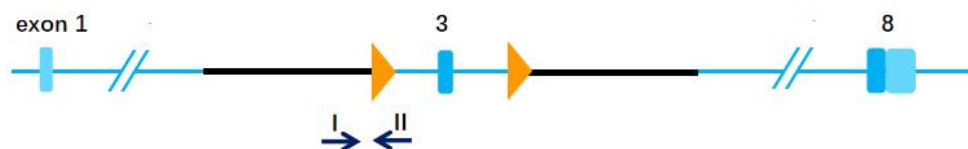
Common Name	<i>Cdk1-Flox</i>	Cat. NO.	NM-CKO-240126
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele

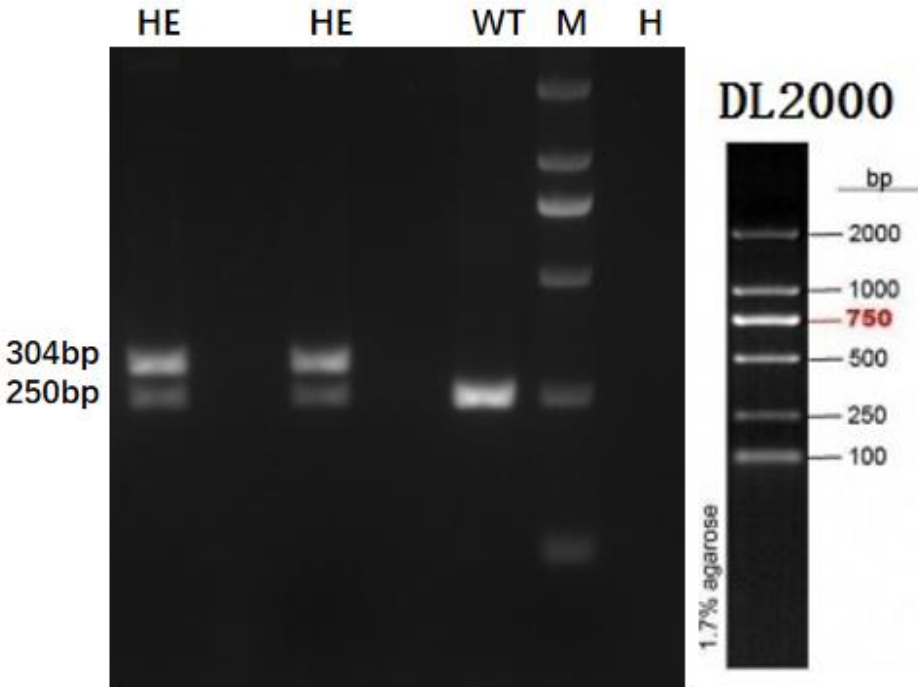


→ : primer location

Primers

Primer	Sequence (5'→3')	Primer type
P1	CAGTGCCTCCTCTTGGTACTG	Forward
P2	AGTCAGATAGGCCCTCACA	Reverse

Expected results

Results	 304bp 250bp DL2000 bp 2000 1000 750 500 250 100 1.7% agarose
Genotype	Wild type: P1P2 =250 bp Heterozygote: P1P2 =250 bp and 304 bp Homozygote: P1P2 =304 bp

Reaction &Cycling

PCR Reaction System	Reaction Component	Volume (μl)
	ddH ₂ O	8.0
	2×Rapid Taq Master Mix	10.0
	P1(10 pmol/μl)	0.5
	P2(10 pmol/μl)	0.5
	Genomic DNA	1.0

	Total			20
	2×Rapid Taq Master Mix from Vazyme(Code Number: P222-01)			
Cycling Reaction	Step	Temp	Time	Note
	1	95°C	5 min	
	2	95°C	20 sec	
	3	60°C	20 sec	
	4	72°C	20 sec	35 repeats to 2
	5	72°C	5 min	
	6	12°C	Hold	