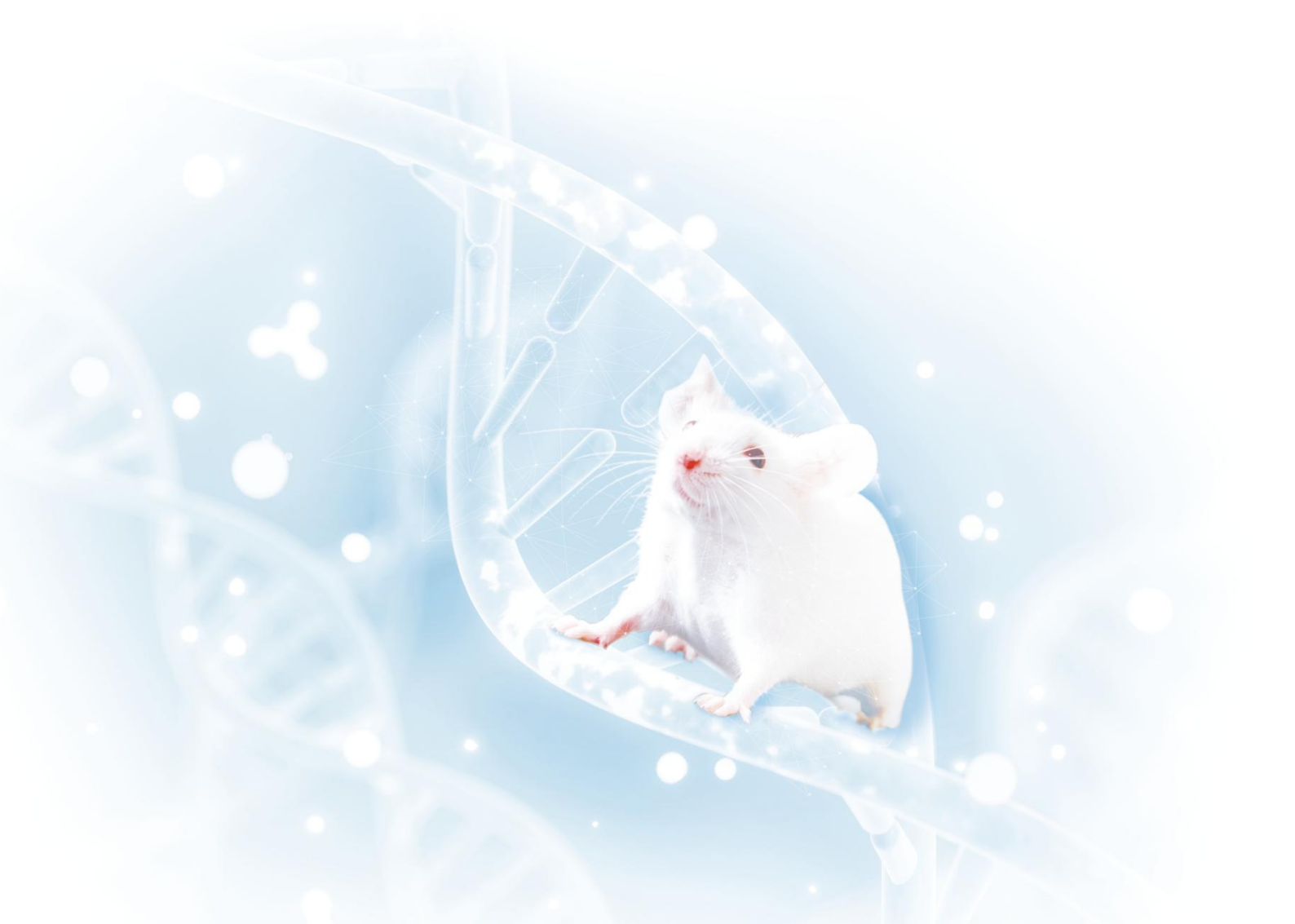


R26-CAG-LSL-hTSHRa (BALB/c) Genotyping Protocol



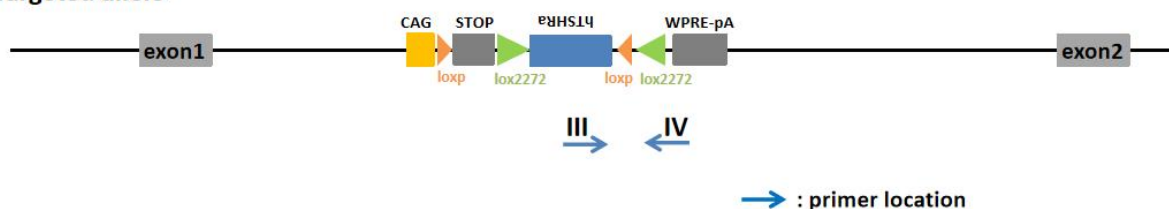
Common Name	R26-CAG-LSL-hTSHRa (BALB/c)	Cat. NO.	NM-KI-234654
Strain of Origin	BALB/c	Version	V1

Genotyping strategy

Wild type allele



Targeted allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	AGGCAGGGTCTCACTATGTAT	Forward
P2	TTGATGGGGGAAAACCTGAATG	Reverse
P3	AAGTCCTCCTCCTGATGGCA	Forward
P4	CGGGCCACAACCTCCTCATAA	Reverse

Expected results

Results	
Genotype	Wild type: P1P2 =451 bp Heterozygote: P1P2 =451 bp; P3P4 =451 bp Homozygote: P3P4 =451 bp

Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	ddH2O			8.0
	2×Rapid Taq Master Mix			10.0
	P1(10 pmol/μl) or P3(10 pmol/μl)			0.5
	P2(10 pmol/μl) or P4(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	