

STMN2-KO

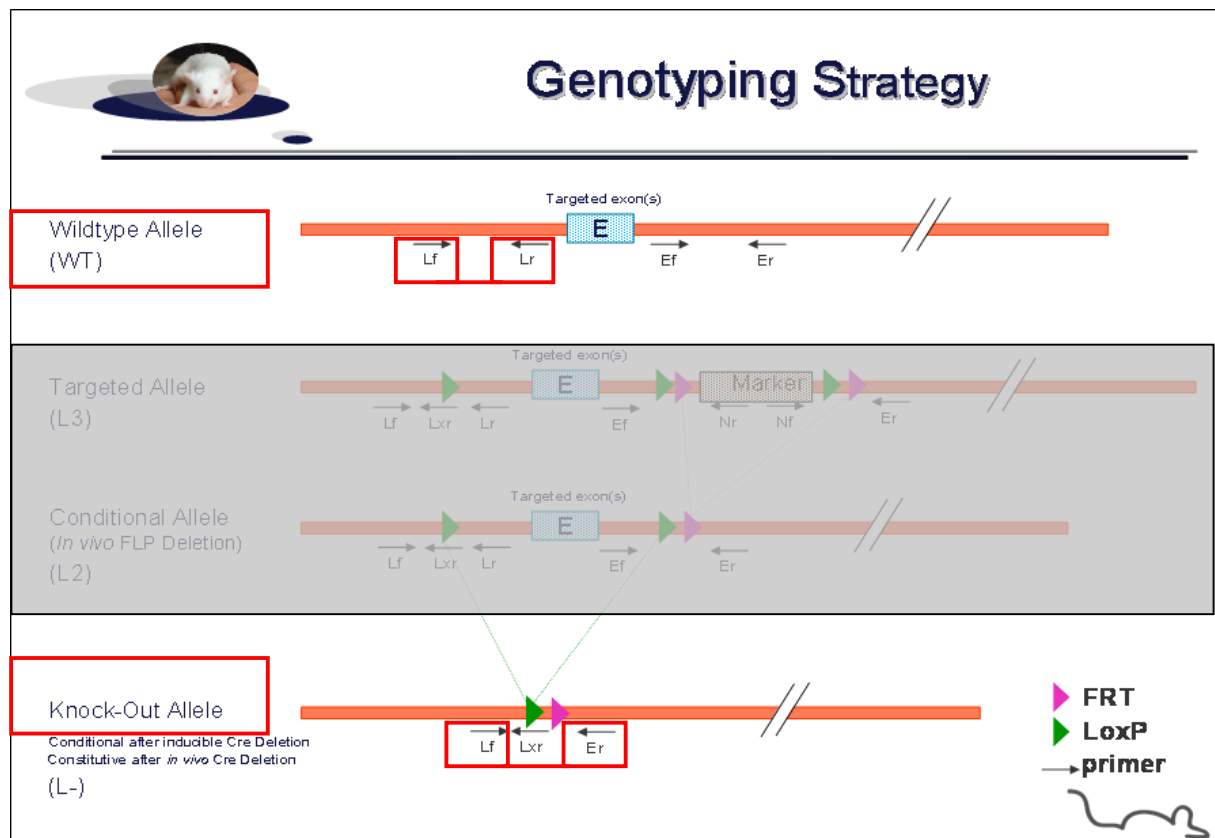
Protocole de génotypage extrait des recommandations de l'ICS

1. Genotyping protocol and data

This section describes the condition used at the Mouse Clinical Institute (ICS) to genotype your **STMN2** Conditional Knockout (cKO) project.

1.1. Genotyping strategy

The map below describes the position of the primers used for genotyping for each possible allele.



Sequence of primers used for genotyping

Position	Primers	Sequence
Er	3198	GATGCTTGAATGGA ACTTG
Lf	3195	ATCCAACATTTTGTACAATGAGCAC
Lr	3197	CCGGCCTCCTTTCTGTGCTTTGCC



Genotyping protocol STMN2 (IR00001347 / K374 ICS internal reference)

PCR fragments expected size (bp):

Region analyzed	Primers used	Position on the primer (see the map above)	Targeted allele (L3)	cKO allele (L2)	KO allele (L-)	WildType allele (WT)
Presence of the distal loxP	3195-3197	Lf / Lr	378	378	---	298
Excision of the floxed exon(s), i.e. knock out	3195-3198	Lf / Er	*	*	555	1469*

* This PCR product will not be observed using our PCR genotyping conditions (see description below)

--- No Amplicon should be obtained

1.2. PCR protocol

This section describes the composition of the mix and cycling conditions used for genotyping.

Reagents:

- FastStart PCR Master (Roche)
- DNA (50ng/μl)
- 5' primer (100 μM)
- 3' primer (100 μM)
- Sterile H₂O

Volume:

- 7.5μl
- 1.5μl
- 0.06μl
- 0.06μl
- up to 15 μl

Cycling conditions:

Temp	Time	#Cycles
95°C	4min	1
94°C	30s	
62°C	30s	34
72°C	1min	
72°C	7min	1
20°C	5 min	1

NB: These PCR conditions have been optimized for high-throughput genotyping. Adaptation to small-scale may be required.