



## Genotyping protocol

Tnfrsf9

IR00003897 / E246

(ICS internal reference)

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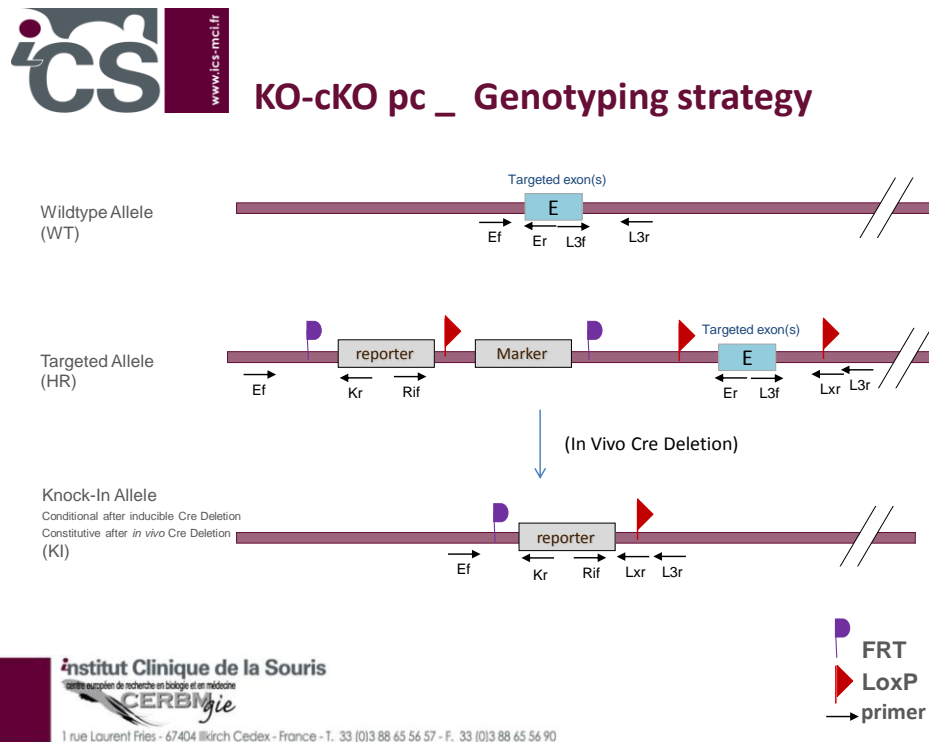
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### 1. Genotyping protocol and data

This section describes the condition used at the Mouse Clinical Institute (ICS) to genotype your **Tnfrsf9** Constitutive Knockout / Conditional Knockout (KO-cKO x Cre) 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
Ef	7192	AGCAGACAGAGACACAGAAGTGTGCCA
Er	7196	GCAGCAGTCTCTCTGAAGCACCTG
Kr	3278	GGGCAAGAACATAAAAGTGACCCTCC
L3f	7193	TTTTCTTATAGCACAAAGACCCTGGGGC
L3f <sup>2</sup>	7195	ATAGCACAAAGACCCTGGGGCA
L3r	7194	TCACAACCTCTGAGCCATGCGTT
Lxr	3255	ACTGATGGCGAGCTCAGACCATAAC
Rif	5966	GCACATGGCTGAATATCGACGGT

<sup>2</sup>: for a selected position, a second primer was designed

## PCR fragments expected size (bp):

Region analyzed	Primers used	Position on the primer (see the map above)	Targeted allele (HR allele)	cKO allele	KO allele	KI allele	WildType allele (WT)
5' part of the selection marker	7192-3278	Ef / Kr	316	---	---	316	---
Presence of the distal loxP	7193-7194	L3f / L3r	304	304	---	---	324
Distal loxP specific PCR	7195-3255	L3f <sup>2</sup> / Lxr	232	232	---	---	---
Excision of the selection marker	7192-7196	Ef / Er	7298*	394	---	---	220
Cre total excision**	5966-3255	Rif / Lxr	3165*	---	---	471	---

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

\*\* : this PCR is only verified if mice are generated

---: no Amplicon should be obtained

## 1.2. PCR protocol

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

Reagents:	Volume:
- FastStart PCR Master (Roche)	7.5µl
- DNA (50ng/µl)	1.5µl
- 5' primer (100 µM)	0.06µl
- 3' primer (100 µM)	0.06µl
- Sterile H <sub>2</sub> O	up to 15 µl

### Cycling conditions:

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

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

## 2. Cre and Flp genotyping method

You will find the genotyping protocol in the publication:

[Highly-efficient, fluorescent, locus directed cre and FlpO deleter mice on a pure C57BL/6N genetic background.](#)

Birling MC, Dierich A, Jacquot S, Hérault Y, Pavlovic G.

Genesis. 2012 Jun;50(6):482-9. doi: 10.1002/dvg.20826. Epub 2012 Mar 20.