



Genotyping protocol

Golgb1

IR00005377 / P5377

(ICS internal reference)

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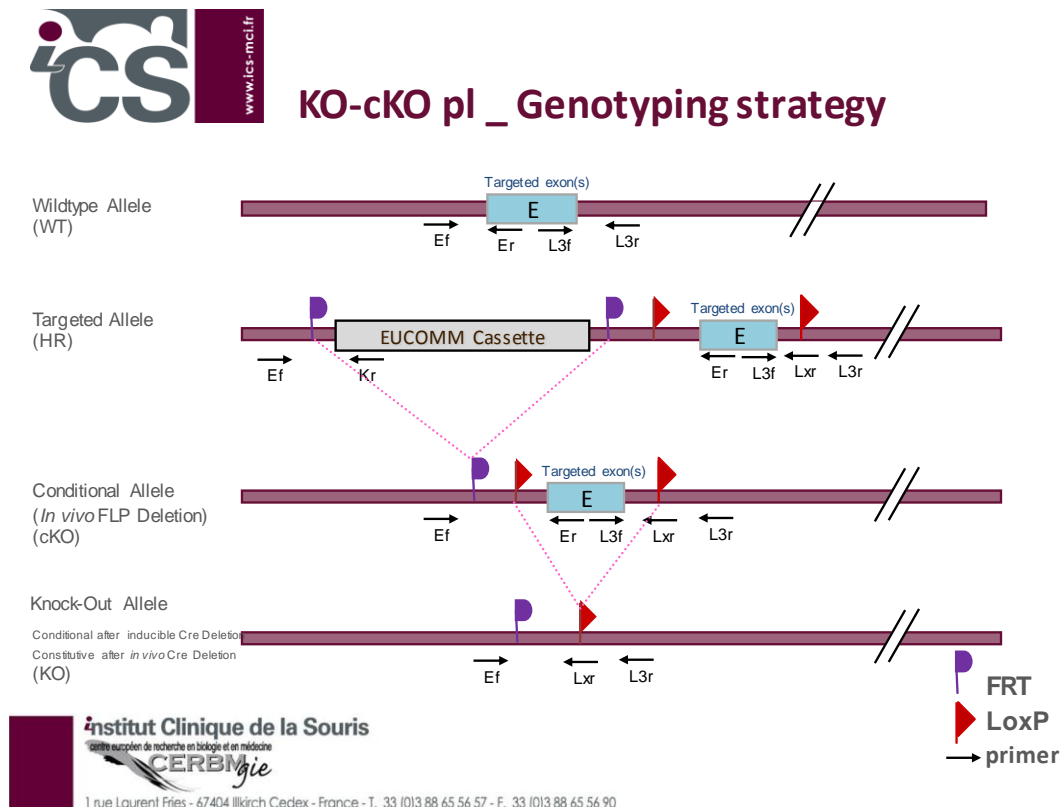
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1. Genotyping protocol and data

This section describes the condition used at the Mouse Clinical Institute (ICS) to genotype your **Golgb1** Constitutive Knockout / Conditional Knockout (KO-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
Ef	8928	CATTCCTCACCTGACTTTCTCAATGC
Er ²	8931	CGAAGCAGGCTGAGCATCATACG
Kr	3209	CCAACAGCTTCCCCACAACGG
L3f	8929	GGATTGTA CTTCCTAGCTTCAGGGCTTG
L3r	8930	CCCCTAAACTGGTGATCTTTTAGGGTC
Lxr	3255	ACTGATGGCGAGCTCAGACCATAAC
Mqf	4981	GGGATCTCATGCTGGAGTTCTTCG

²: 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)	conditional allele (KO-cKO)	KI allele	WildType allele
5' part of the selection marker	8928-3209	Ef / Kr	354	---	---	---
Presence of the distal loxP (with Betaine)	8929-8930 (with 0.5% Betaine)	L3f / L3r	387	387	---	423
Distal loxP specific PCR	8929-3255	L3f / Lxr	211	211	---	---
Excision of the selection marker	8928-8931	Ef / Er ³	5813*	413	---	253
Exon excision	4981-3255	Mqf / Lxr	1535	---	---	---

*: 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 ₂ 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.