



Genotyping protocol

Jarid1c

IR00003720 / G7

(ICS internal reference)

This report has been prepared by: **David MOULAERT**
genotyping@igbmc.fr

This report has been validated by: **Sylvie Jacquot, PhD, Head of Genotyping Service**
33 (0)3 88 65 57 44
genotyping@igbmc.fr

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For any question, please contact:

Institut Clinique de la Souris - ICS - Mouse Clinical Institute
1 rue Laurent Fries, BP 10142
67404 Illkirch Cedex, France
Email: genotyping@igbmc.fr
Web site: <http://www-mci.u-strasbg.fr/>

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1. Genotyping protocol and data

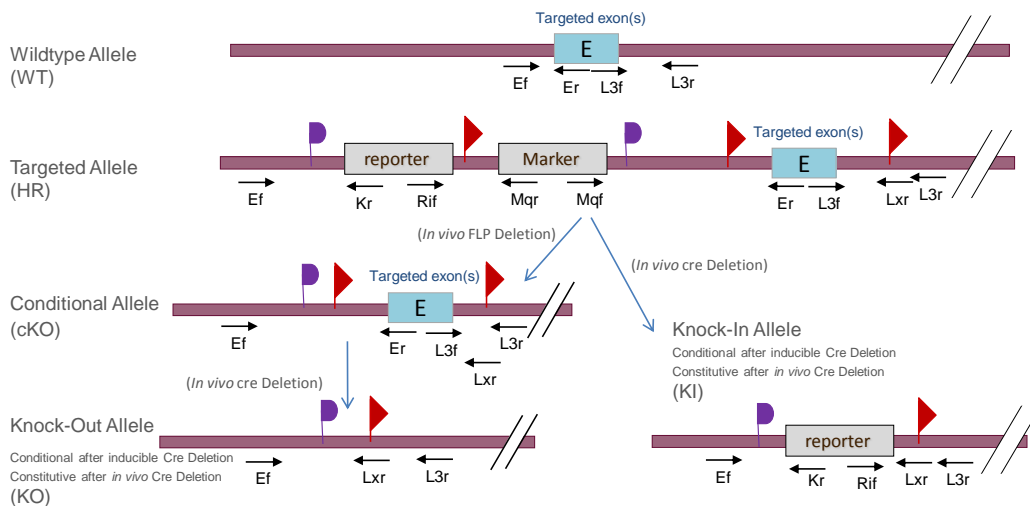
This section describes the condition used at the Mouse Clinical Institute (ICS) to genotype your **Jarid1c** Constitutive Knockout / Conditional Knockout (KO-cKO x Cre) project.

1.1. Genotyping strategy

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



KO-cKO pc _ Genotyping strategy



Sequence of primers used for genotyping:

Position	Primers	Sequence
Ef	6361	CTATGGAGGTACGAAGACAACCTTTGGGG
Ef ²	6359	TGTGTGGTGCATGTACAATAGTGAGCCT
Er	6360	CATTCAGAAGGATGAGGCAGGGTT
Kr	3278	GGGCAAGAACATAAAGTGACCCCTCC
L3f	6362	GGGGTGGATTCTGAATACAGTGGGG
L3r	6364	GCAAACAGTTGGAGGGTGAAGGAG
L3r ²	6363	CATGGAGTTGGAGAGAGAACCCCA
Lxr	3255	ACTGATGGCGAGCTCAGACCATAAC
Ri1f	5966	GCACATGGCTGAATATCGACGGT

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 (cKO)	KI allele	KO allele	WildType allele
5' part of the selection marker	6361-3278	Ef / Kr	272	---	272	---	---
Presence of the distal loxP	6362-6364	L3f / L3r	449	449	---	---	443
Distal loxP specific PCR (with DMSO)	6362-3255 (with 5% DMSO)	L3f / Lxr	235	235	---	---	---
Excision of the selection marker	6359-6360	Ef ² / Er	7244*	340	---	---	243
Cre total excision	5966-3255	Ri1f / Lxr	3723*	---	471	---	---
Total excision	6359-6363	Ef ² / L3r ²	8605*	1701*	5353*	360	1379*

*: 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.