



Genotyping protocol

Baiap2l2

IR00003113 / E202

(ICS internal reference)

This report has been prepared by: **Valérie Rousseau**
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

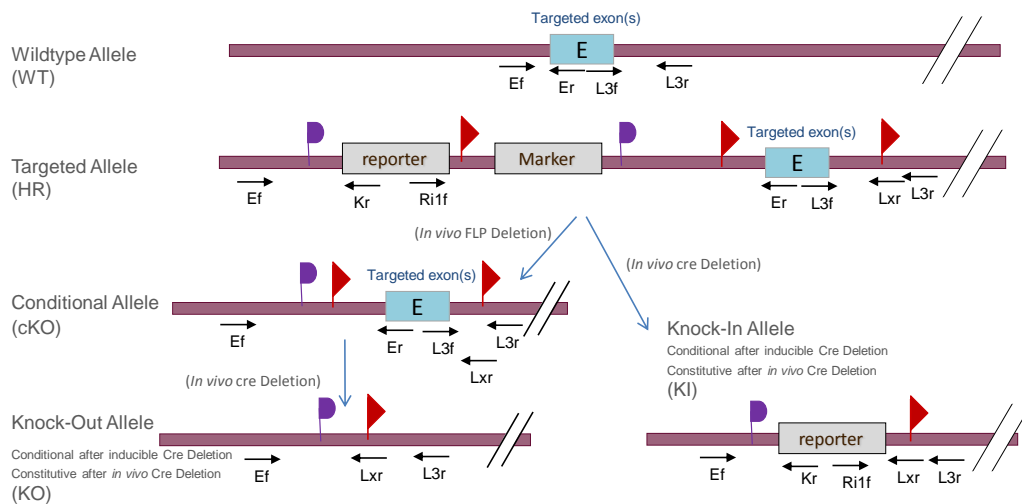
This section describes the condition used at the Mouse Clinical Institute (ICS) to genotype your **Baiaip212** Constitutive Knockout / Conditional Knockout (KO-cKO x Cre) project.

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	5668	GCCTAACCTTTGACCTCTCCTGCA
Ef ²	5667	CGAGGCGGCTGAGGTGTATTC
Er	5672	CCTGTGTTGAGGTGGAGGCTTTAGG
Kr	3277	CTCCTACATAGTTGGCAGTGTGGG
L3f	5669	CACACTAAAGGCCGCCCTCTT
L3r	5670	AGAGAGTGAGCTGGTGTGTCTCCCC
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	WildType allele
5' part of the selection marker	5668-3277	Ef / Kr	454	---	454	---
Presence of the distal loxP	5669-5670	L3f / L3r	454	454	---	491
Distal loxP specific PCR	5669-3255	L3f / Lxr	341	341	---	---
Excision of the selection marker	5667-5672	Ef ² / Er	7481*	525	---	382
Cre total excision	5966-3255	Ri1f / Lxr	---	---	470	---

*: 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:	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.