Fertility of Homozygous Knock-out Mice IM PC_FER_001

Purpose

To assess the fertility of homozygous knockout mice.

Experimental Design

- Minimum 1 hom x hom mating for fertile mice and minimum of 2 failed hom x hom matings attempts to proceed to secondary screen.
 - Secondary screen: Minimum 2 Hom x 1 WT or Het (Male), Minimum 2 Hom x 1 WT or Het (Female)
- Minimal age at test = minimal age at start of procedure = 8 weeks.
- Maximum age at test = To be confirmed, proposed 14 weeks
- Minimum length of test (time mice left in mating) 4 6 weeks

Procedure

- 1. Homozygous mice (minimum age of 8 weeks, maximum age of 14 weeks) are mated for 4-6 weeks. Strains that produce no progeny or pregnant dams after 4 to 6 weeks progress to secondary screening.
- 2. Secondary Male Infertility Screen:
 - 1. Set up 2 separate matings: male Hom x female WT or Het
 - 1. Observe matings for 4 to 6 weeks;
 - 2. Matings that result in visibly pregnant females (confirmed by dissection) or pups will be scored MALE FERTILE.
 - 3. Matings that do not result in pregnancy will be scored MALE INFERTILITY.
- 3. Secondary Female Infertility Screen
 - 1. Set up 2 separate matings: female Hom x male WT or Het
 - 2. Observe matings for 4 to 6 weeks;
 - 1. Matings that result in visibly pregnant females (confirmed by dissection) or pups will be scored FEMALE FERTILE.
 - 2. Matings that do not result in pregnancy will be scored FEMALE INFERTILITY.

Notes

Pregnancies should be confirmed.

All annotations are based on yes/no scores.

Parameters and Metadata

Total pups with dissection (primary) IMPC_FER_005_001 | v1.5

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: count		
Age of set up (Female screen) IMPC_FER_021_001 v1.0 procedureMetadata		
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: Weeks		

Total litters (primary) IMPC_FER_004_001 | v1.3

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: count

Age of set up IMPC_FER_014_001 | v1.0

procedureMetadata

Unit Measured: Weeks		
Pups born (Female simpleParameter	e Screen) IMPC_FER_01	0_001 v1.5
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: count		
Test strain genoty)e IMPC_FER_016_001 v	1.1
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Options: Heterozygous, Hom	ozygous, Wild type, Hemizygo	US,
Time spent in bree procedureMetadata	ding (Male screen)	IMPC_FER_022_001 v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: days		

Req. Upload: true Is Annotated: false

Req. Analysis: false

Gross Findings Male IMPC_FER_001_001 | v1.4

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: Fertile, Infertile,		
Date of matings IMP procedureMetadata	PC_FER_018_001 v1.2	
Req. Analysis: false	Req. Upload: false	Is Annotated: false

Total pups/embryos (Female Screen) IMPC_FER_013_001 | v1.2

simpleParameter

Req. Analysis: falseReq. Upload: falseIs Annotated: false

Unit Measured: count

Time spent in breeding IMPC_FER_015_001 | v1.2

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: days		
Time spent in bree 0 procedureMetadata	ding (Female scree	n) IMPC_FER_023_001 v1.
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: days		
Age of set up (Male screen) IMPC_FER_020_001 v1.1		

procedureMetadata

Req. Analysis: false	Req. Upload: false	Is Annotated: false
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Unit Measured: Weeks

Total pups/embryos (Male Screen) IMPC_FER_009_001 | v1.2

simpleParameter

Req. Analysis: falseReq. Upload: falseIs Annotated: false

Unit Measured: count

Test strain background secondary (MGI ID) IMPC_FER_017_001

| v1.2 procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false

Pups born (Male screen) IMPC_FER_006_001 | v1.5

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false

Unit Measured: count

Pups born (primary) IMPC_FER_002_001 | v1.3

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: count		

Total matings (Male screen) IMPC_FER_007_001 | v1.4

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: count		
Total litters (Male s simpleParameter	Screen) IMPC_FER_008_	001 v1.1
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: count		
Total matings (prin	nary) IMPC_FER_003_001	v1.2

Req. Analysis: false	Req. Upload: false	Is Annotated: false
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Unit Measured: count

Total matings (Female Screen) IMPC_FER_011_001 | v1.4

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: count

Total litters (Female Screen) IMPC_FER_012_001 | v1.1

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false

Unit Measured: count

Gross Findings Female IMPC_FER_019_001 | v1.3

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Options: Infertile, Fertile,		