Gross Morphology Placenta E14.5-E15.5 IM PC GPO 001

Purpose

To assess visible morphological defects in E14.5-15.5 placentas from lethal strains.

Experimental Design

- Set up timed matings with heterozygous mice
- Day 0 is defined as the midpoint of the prior dark cycle following the identification of a copulation plug.
- Minimum number of animals: 1 mutant of any sex
- Age at test: E14.5-E15.5
- Capture gross images (optional)
- Collect tissue and genotype embryos.

Procedure

- 1. Set up timed mating with heterozygous animals. Dissect at a consistent time and collect >=2 placentas from homozygote embryos. Coordination with viability screen is at the centres discretion.
- 2. Assess placentas according to Gross Morphology parameters.
- 3. Generate gross images of placentas (optional) with scored defects and control placentas.
- 4. Collect tissue for genotyping
- 5. Process placentas for Histopathology, or other imaging (OPTIONAL depending on center pipeline)
- 6. Scores will be shown per placenta and split by zygosity.

Notes

All genotypes should be collected using validated assays.

Y chromosome assay required for X-linked lethal strains.

Placentas may be processed for Histopathology or 3D Imaging

Parameters and Metadata

Placenta Development IMPC_GPO_001_001 | v1.0

simpleParameter

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

Options: unobservable, abnormal, normal,

Time of Dissection IMPC_GPO_013_001 | v1.0

procedureMetadata

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

Date equipment last calibrated IMPC_GPO_017_001 | v1.1

procedureMetadata

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

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Fixative IMPC GPO 012 001 | v1.0

procedureMetadata

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

Comment on image IMPC_GPO_006_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: false Time of dark cycle end IMPC_GPO_016_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false Pale placenta IMPC_GPO_018_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Options: unobservable, yes, no, Equipment ID IMPC_GPO_009_001 | v1.0 procedureMetadata

Is Annotated: false

Req. Analysis: false Req. Upload: true

Equipment Manufacturer IMPC_GPO_010_001 | v1.0

procedureMetadata

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

Somite Stage IMPC_GPO_014_001 | v1.1

procedureMetadata

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

Experimenter ID IMPC_GPO_008_001 | v1.0

procedureMetadata

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

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Images IMPC_GPO_007_001 | v1.0

seriesMediaParameter

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

Increments: Minimum 1

Time of dark cycle start IMPC_GPO_015_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false Placenta Morphology IMPC_GPO_002_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Options: unobservable, abnormal, normal, Placenta Size IMPC_GPO_004_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Options: unobservable, normal, abnormal,

Equipment Model IMPC_GPO_011_001 | v1.0

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Umbilical cord morphology IMPC_GPO_005_001 v1.0 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Options: normal, unobservable, abnormal,		
Placenta Vasculature IMPC_GPO_003_001 v1.0 simpleParameter		
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Options: unobservable, abnormal, normal,		