



# CMHD Pathology Report



## CMHD Pathology Core

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## Mouse Genetics Project

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[Mouse Portal](#)  
[Europhenome](#)

CMHD LabID: N13-707

## Relevant History:

Phenotype:  
Increased heart weight in males  
Homozygotes: preweaning lethality

## AnimalID: M01013750 (Male)

### Histopathology Findings:

#### heart (MA:0000072)

#### Histopath Description:

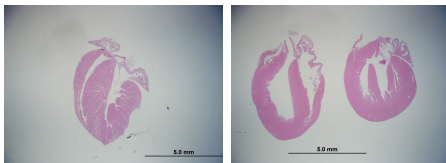
Normal

#### Definitive Diagnosis:

Normal

#### Histopathology Comments:

compare with M01013749



Heart, normal,  
1.25x, HE

Heart, WT, normal,  
1.25x, HE

## Organ/Tissue Analyzed:

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, testis, epididymis, seminal vesicle, and prostate.

## AnimalID: M01013749 (Male)

### Histopathology Findings:

#### heart (MA:0000072)

#### Histopath Description:

The entire section is an estimated 1.25x larger compared to WT. The enlargement is generalized affecting all chambers. Epicardial and endocardial surfaces appear normal.

#### Morphological Diagnosis:

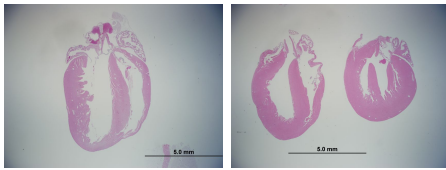
**Distribution:** generalized; **Severity:** severe; **MPATH Diagnosis:** hypertrophic tissue  
MPATH:631; **MPATH Process Term:** hyperplasia MPATH:134

#### Definitive Diagnosis:

cardiomegaly

#### Histopathology Comments:

The lesion is consistent with clinical phenotype



Heart,  
cardiomegally,  
1.25x, HE

Heart, WT, normal,  
1.25x, HE

#### Organ/Tissue Analyzed:

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#### AnimalID: M01005567 (Female)

##### Histopathology Findings:

###### heart (MA:000072)

##### Histopath Description:

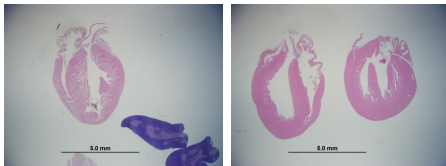
Normal

##### Definitive Diagnosis:

Normal

##### Histopathology Comments:

compare with M01013749



Heart, normal,  
1.25x, HE

Heart, WT, normal,  
1.25x, HE

#### Organ/Tissue Analyzed:

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, and ovary, and mammary gland.

#### AnimalID: M01005566 (Female)

##### Histopathology Findings:

###### heart (MA:000072)

##### Histopath Description:

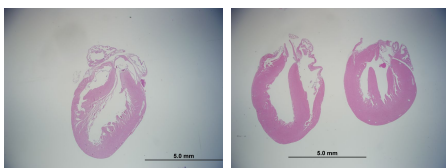
Normal

##### Definitive Diagnosis:

Normal

##### Histopathology Comments:

compare with M01013749



Heart,, normal,  
1.25x, HE

Heart, WT, normal,  
1.25x, HE

**Organ/Tissue Analyzed:**

Histopathology examination included the following organs and tissues: brain, trigeminal ganglion, eyes, salivary glands, trachea, lungs, heart, thymus, thyroid gland, parathyroid gland, exocrine and endocrine pancreas, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, spleen, kidneys, adrenal gland, lymph nodes, spinal cord, bone marrow, sternum, femur and tibia with associated skeletal muscles, brown fat, pinna, skin, uterus, oviduct, and ovary, and mammary gland.

**Report Summary and Recommendation:**

Cardiomegally was observed in one male mouse. There are no lesions elsewhere in the body to suggest secondary cardiac hypertrophy. Hence this is considered a primary cardiomegally. No morphological abnormalities were detected to predict preweaning lethality in homozygotes. Analysis of homozygous preweaning mice is recommended.

Summary - Cardiomegally (1/2 males).