



PennGen Laboratories | School of Veterinary Medicine | University of Pennsylvania  
3900 Delancey Street, Room 4022, Philadelphia, PA 19104  
Lab: 215-898-5703 | PennVetDNA@lists.upenn.edu | <http://www.vet.upenn.edu/penngen>  
DNA Testing: Owner/Patient Report 5/15/2026

## Submitter Information

Owner's Name Ms Stacy Loftus

## Patient Information

Official Name	Cedar Creek's Sir Manfred with Tails-a-Flame		
Call Name	Manny	DOB	4/6/2025 (1 Years 1 Months)
Breed	Portuguese Water Dog	Sex	Male (Intact)
Registration #	WS86244607	Microchip #	956000018492871

## Testing Information

Submission ID	57124		
Testing Date	5/15/2026	Processed By	Michael McCarty
Test	Juvenile Dilated Cardiomyopathy (JDCM) Linked Marker-DNA [Cheek brushes/swabs]		

## Result Information

Genotype	1-1 (Homozygous Normal Markers)
Phenotype	Probable Normal (Healthy)
Interpretation	1-1 (Probable Normal) dogs are not expected to develop JDCM, nor are they expected to pass a JDCM-causing allele to their offspring. Due to the inherent nature of linked marker tests, there is a slight chance that a pattern 1-1 dog is a carrier of JDCM and an even smaller chance that a pattern 1-1 dog is affected.

Sincerely,

Margret Casal, Dr. med. vet., PhD  
Dipl. ECAR  
Professor of Medical Genetics

Michael Raducha, BS  
Research Specialist



PennGen Laboratories | School of Veterinary Medicine | University of Pennsylvania  
3900 Delancey Street, Room 4022, Philadelphia, PA 19104  
Lab: 215-898-5703 | PennVetDNA@lists.upenn.edu | <http://www.vet.upenn.edu/penngen>  
DNA Testing: Owner/Patient Report 5/15/2026

## Submitter Information

Owner's Name Ms Stacy Loftus

## Patient Information

Official Name	Cedar Creek's Sir Manfred with Tails-a-Flame		
Call Name	Manny	DOB	4/6/2025 (1 Years 1 Months)
Breed	Portuguese Water Dog	Sex	Male (Intact)
Registration #	WS86244607	Microchip #	956000018492871

## Testing Information

Submission ID	57124		
Testing Date	5/12/2026	Processed By	Michael McCarty
Test	Microphthalmia Syndrome (MOS-PWD)-DNA [Cheek brushes/swabs]		

## Result Information

Genotype	1-1 (Homozygous Normal)
Phenotype	Healthy (Normal, Clear)
Interpretation	Homozygous Normals (1-1) are not expected to develop signs of Microphthalmia Syndrome (MOS-PWD) and none of their offspring will inherit the disease variant allele. 1 = Normal allele; 2 = Variant allele.

Sincerely,

Margret Casal, Dr. med. vet., PhD  
Dipl. ECAR  
Professor of Medical Genetics

Michael Raducha, BS  
Research Specialist