

**Registered Name:** Callen's Mack Daddy at Studio

**Owner:** Stephanie Kegel

**Call Name:** Mack

**Country:** United States

**Registration ID:** DN58272004

**Testing date:** 2020/3/26

**Microchip:** 956000011984169

**Breed:** Miniature American Shepherd

**Gender:** Male

## Test results

Disorder	Type	Mode of Inheritance	Result
1. Canine Multifocal Retinopathy 1, (CMR1); mutation originally found in Mastiff-related breeds	Ocular Disorders	Autosomal Recessive	Clear
2. Cone Degeneration, (CD) or Achromatopsia; mutation originally found in Alaskan Malamute	Ocular Disorders	Autosomal Recessive	Clear
3. Degenerative Myelopathy, (DM; SOD1A)	Neurological Disorders	Autosomal Recessive (Incomplete Penetrance)	Clear
4. Hyperuricosuria, (HUU)	Renal Disorders	Autosomal Recessive	Clear
5. Multi-Drug Resistance 1, (MDR1) or Ivermectin Sensitivity	Pharmacogenetics	Autosomal Dominant	Clear
6. OptiGen® Collie Eye Anomaly, (CEA)	Ocular Disorders	Autosomal Recessive	Clear
7. OptiGen® Progressive Rod Cone Degeneration, (prcd-PRA)	Ocular Disorders	Autosomal Recessive	Clear
8. Primary Hereditary Cataract, (PHC); mutation originally found in Australian Shepherd	Ocular Disorders	Autosomal Dominant (Incomplete Penetrance)	Clear

On behalf of Genoscoper Laboratories,



SIGNATURE

Jonas Donner, PhD, Head of Research and Development  
at Genoscoper Laboratories