

## Dog Information

**ROCKIN M RILEY MLD (Riley)** Female  
**NAME** SEX  
**Dachshund** July 23rd, 2025  
**BREED ANCESTRY** DATE OF BIRTH  
**American Kennel Club (AKC) HP73598603** n/a  
**REGISTRATION** MICROCHIP

**Chelsea Mixon**  
**OWNER NAME**  
**Canine Genetic Health Screen**  
**TEST**  
**December 30th, 2025**  
**TEST DATE**

## BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Mucopolysaccharidosis Type IIIA, Sanfilippo Syndrome Type A, MPS IIIA	SGSH	NN	Clear	
Narcolepsy	HCRTR2	GG	Clear	
Neuronal Ceroid Lipofuscinosis 1, NCL 1	PPT1 (Exon 8)	NN	Clear	
Neuronal Ceroid Lipofuscinosis 2, NCL 2	TPP1 (Exon 4)	NN	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	N/I	1 Variant	
Limb-Girdle Muscular Dystrophy 2D	SGCA Exon 3	GG	Clear	
Osteogenesis Imperfecta, Brittle Bone Disease	SERPINH1 (Exon 5)	CC	Clear	
Progressive Retinal Atrophy 5, PRA5	NECAP1 Exon 6	GG	Clear	
Copper Toxicosis (Accumulating)	ATP7B	GA	1 Variant	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		9%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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## TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark mask or grizzle	EE
K Locus (CBD103)	More likely to have a patterned haircoat	$k^Y k^Y$
Intensity Loci	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	$a^+ a^+$
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Black or gray hair and skin	Bb
Saddle Tan (RALY)	Not saddle tan patterned	ll
S Locus (MITF)	Likely solid colored, but may have small amounts of white	Ssp
M Locus (PMEL)	One merle allele; may express merle	$M^* m$
R Locus (USH2A)	Likely roan patterned	Rr

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## TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Panda White Spotting	Not expected to display Panda pattern	NN

  

Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll
Coat Length (FGF5)	Likely long coat	LhLh
Shedding (MC5R)	Likely light shedding	TT
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (FOXI3)	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2)	Likely not albino	NN

  

Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC

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## TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Likely to have chondrodysplasia (short legs)	II
Blue Eye Color (ALX4)	Less likely to have blue eyes	NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling	CC

  

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Smaller	II
Body Size (IGFR1)	Smaller	AA
Body Size (STC2)	Intermediate	TA
Body Size (GHR - E191K)	Smaller	AA
Body Size (GHR - P177L)	Larger	CC

  

Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC)	Normal food motivation	NN