

## Dog Information

<b>Electra</b> NAME	<b>Female</b> SEX
<b>Maremma Sheepdog</b> BREED ANCESTRY	<b>September 8th, 2020</b> DATE OF BIRTH
<b>N/A</b> REGISTRATION	<b>n/a</b> MICROCHIP

**Kimberly Crawler**

OWNER NAME

**Canine Genetic Health Screen**


TEST

**March 10th, 2022**

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
<b>Degenerative Myelopathy, DM</b>	<b>SOD1(A)</b>	<b>GG</b>	<b>Clear</b>	
<b>Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU</b>	<b>SLC2A9 (Exon 5)</b>	<b>GT</b>	<b>1 Variant</b>	

## Dog Information

Electra  
NAME

## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		12%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

## Dog Information

Electra  
NAME

## TRAIT TESTS (1/2)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark hairs anywhere	ee
K Locus (CBD103)	Not expressed	K <sup>B</sup> k <sup>Y</sup>
Intensity Loci LINKAGE	Any pigmented hair likely white or cream	Dilute Red Pigmentation
A Locus (ASIP)	Not expressed	a <sup>t</sup> a <sup>t</sup>
D Locus (MLPH)	Not expressed	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Likely black colored nose/feet	BB
Saddle Tan (RALY)	Not expressed	II
S Locus (MITF)	Likely flash, parti, piebald, or extreme white	spsp
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely roan patterned	Rr
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN

## Dog Information

**Electra**  
NAME

## TRAIT TESTS (2/2)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Larger	NN
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	CC

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