

## Dog Information

<b>C2R Halstons Pillbox Hat (Haley)</b> NAME	<b>Female</b> SEX
<b>Beagle</b> BREED ANCESTRY	<b>July 21st, 2021</b> DATE OF BIRTH
<b>n/a</b> REGISTRATION	<b>n/a</b> MICROCHIP

**Rachel Lucas**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**August 20th, 2021**  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Cerebellar Abiotrophy, Neonatal Cerebellar Cortical Degeneration, NCCD	SPTBN2	NN	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Factor VII Deficiency	F7 Exon 5	GA	1 Variant	
Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption	CUBN (Exon 8)	NN	Clear	
Musladin-Lueke Syndrome, MLS	ADAMTSL2 (Exon 7)	CC	Clear	
Primary Open Angle Glaucoma	ADAMTS10	GG	Clear	
Pyruvate Kinase Deficiency	PKLR Exon 7 SNP Variant 3	GG	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	I/I	2 Variants	
Congenital Stationary Night Blindness	LRIT3	NN	Clear	
Hypocatalasia, Acatlasemia	CAT	GG	Clear	
Osteogenesis Imperfecta, Brittle Bone Disease	COL1A2	NN	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NI	1 Variant	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		20%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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## TRAIT TESTS (1/2)

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 <sup>y</sup> k <sup>y</sup>
Intensity Loci LINKAGE	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a <sup>t</sup> a <sup>t</sup>
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)	Likely saddle tan patterned	NN
S Locus (MITF)	Likely solid colored, but may have small amounts of white	Ssp
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	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

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## TRAIT TESTS (2/2)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Smaller	II
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	CC

  

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