












Dog Information

Short Acres A Whole New World (Jasmine) Female
NAME **SEX**
Beagle **March 11th, 2019**
GENETIC BREED **DATE OF BIRTH**
AKC: HP57313001 **956000009983860**
REGISTRATION **MICROCHIP**

Laura Short
OWNER NAME
Canine Genetic Health Screen
TEST
July 26th, 2019
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	GG	Clear	
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	
Hypocatalasia, Acatlasemia	CAT	GA	1 Variant	
Osteogenesis Imperfecta, Brittle Bone Disease	COL1A2	NN	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		11%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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TRAIT TESTS (1/2)

	RESULT	GENETIC RESULT
Coat Color		
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 LINKAGE	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a ^t a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
B Locus (TYRP1)	Black or gray hair and skin	BB
Saddle Tan (RALY)	Likely saddle tan patterned	NN
S Locus (MITF)	Likely flash, parti, piebald, or extreme white	spsp
M Locus (PMEL)	No merle alleles	mm
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits		
Furnishings (RSP02) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	GG
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOX13) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Coat Texture (KRT71)	Likely straight coat	CC
Other Body Features		

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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)	Smaller	AA
Body Size (GHR - P177L)	Larger	CC

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