












Dog Information

Short Acres Off To See The Wizard (Dorothy)
NAME
Female
SEX
Beagle
GENETIC BREED
AKC: HP56045202
REGISTRATION
August 10th, 2018
DATE OF BIRTH
956000009988620
MICROCHIP

Laura Short
OWNER NAME
Canine Genetic Health Screen
TEST
December 2nd, 2018
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
Cerebellar Abiotrophy, Neonatal Cerebellar Cortical Degeneration, NCCD	SPTBN2	NN	Clear	
Degenerative Myelopathy, DM	SOD1	GG	Clear	
Factor VII Deficiency	F7 Exon 5	GG	Clear	
Glaucoma	ADAMTS10	GG	Clear	
Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption	CUBN (Exon 8)	NN	Clear	
Musladin-Lueke Syndrome	ADAMTSL2 (Exon 7)	CC	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	GG	Clear	
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
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
E Locus (MC1R)	No dark mask or grizzle	Ee
K Locus (CBD103)	More likely to have a patterned haircoat	k ^y k ^y
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		RESULT
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
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (FOXI3) 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
Other Body Features		RESULT

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TRAIT TESTS (2/2)

Body Size		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
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN