embark

DNA Test Report

Dog Information

Trudi Rose Beloved- Compass Rose (Sure Shot-Compass Rose Trudi Rose Beloved)
NAME

Female
SEX

March 10th, 2026
DATE OF BIRTH

Labrador Retriever
GENETIC BREED

n/a
MICROCHIP

American Kennel Club (AKC) SS56759504
REGISTRATION

Ashley Kwiatkowski
OWNER NAME

Canine Genetic Health Screen
TEST

June 8th, 2026
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Centronuclear Myopathy, CNM	PTPLA	NN	Clear	
Copper Toxicosis (Accumulating)	ATP7B	GG	Clear	
Copper Toxicosis (Attenuating)	ATP7A	TT	2 Variants	
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Exercise-Induced Collapse, EIC	DNM1	GG	Clear	
Hereditary Nasal Parakeratosis, HNPK	SUV39H2	GG	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	
Macular Corneal Dystrophy, MCD	CHST6	CC	Clear	
Narcolepsy	HCRTR2	AA	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Pyruvate Kinase Deficiency	PKLR Exon 7 SNP Variant 1	CC	Clear	
Skeletal Dysplasia 2, SD2	COL11A2	GG	Clear	
Achromatopsia	CNGA3 (Exon 7 Deletion)	NN	Clear	
Alexander Disease	GFAP (Exon 4)	GG	Clear	
Canine Elliptocytosis	SPTB Exon 30	CC	Clear	

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DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Congenital Dyserythropoietic Anemia and Polymyopathy	EHPB1L1 Exon 5	GG	Clear	
Congenital Myasthenic Syndrome, CMS	COLQ (Exon 14)	TT	Clear	
Copper Toxicosis (Attenuating)	RETN Exon 2	CC	Clear	
Ehlers-Danlos Syndrome (EDS)	COL5A1 Exon 34	NN	Clear	
Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2	TTC8 Exon 8	NN	Clear	
Laryngeal Paralysis and Polyneuropathy	CNTNAP1 Exon 18	GG	Clear	
Muscular Dystrophy-Dystroglycanopathy	LARGE1 Exon 11	CC	Clear	
Myotonia Congenita	CLCN1 Exon 19	AA	Clear	
Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM	MTM1 (Exon 7)	CC	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	
Stargardt Disease	ABCA4 Exon 28	NN	Clear	
Ullrich-like Congenital Muscular Dystrophy	COL6A3	GG	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT
Coefficient Of Inbreeding	16%
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
E Locus (MC1R)	Can have a melanistic mask (E^mE^m)
K Locus (CBD103)	More likely to have a mostly solid black or brown coat (K^BK^B)
Intensity Loci	No impact on coat pattern (Intermediate Red Pigmentation)
A Locus (ASIP)	Not expressed (a^ta^t)
D Locus (MLPH)	Dark areas of hair and skin are not lightened (DD)
Cocoa (HPS3)	No co alleles, not expressed (NN)
B Locus (TYRP1)	Brown hair and skin (bb)
Saddle Tan (RALY)	Not expressed (II)
S Locus (MITF)	Likely to have little to no white in coat (SS)
M Locus (PMEL)	No merle alleles (mm)
R Locus (USH2A)	Likely no impact on coat pattern (rr)

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TRAIT TESTS (2/3)

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

Other Coat Traits	RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows) (II)
Coat Length (FGF5)	Likely short or mid-length coat (ShSh)
Shedding (MC5R)	Likely heavy/seasonal shedding (CC)
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
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
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws (CC)
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Not indicative of chondrodysplasia (normal leg length) (NN)
Blue Eye Color (ALX4)	Less likely to have blue eyes (NN)
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling (CC)

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

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