

## AVAILABLE DISEASE DNA TESTS IN VARIOUS LABORATORIES

### AVAILABLE BREEDS IN ALPHABETICAL ORDER

BREED	CONDITION / COAT COLOUR	TESTING LABORATORY
Afghan Hound	Canine Coat and Nose Colour Canine Mask Test	HealthGene HealthGene
Airedale Terrier	Haemophilia B Factor V11 Deficiency	HealthGene, Cornell University VetGen, Laboklin
Alaskan Malamute	Coat Length	VDA, AHT
Australian Cattle Dog	Progressive Retinal Atrophy, prcd Coat Colour Variations	OptiGen, Genetic Technologies Ltd, Laboklin VetGen
Australian Shepherd	Collie Eye Anomaly (CEA) / choroidal hypoplasia (CH) Hereditary Cataract (HC-HSF4) Multi drug resistance (MDR1) Progressive Retinal Atrophy, prcd Cobalamin Malabsorption (Methylmalonic Aciduria) Canine Coat and Nose Colour Merle Gene (SILV) Bobtail gene	Optigen, Genetic Technologies Ltd AHT, Genoscoper HealthGene, Genetic Technologies Ltd, Laboklin, Finnzymes OptiGen, Genetic Technologies Ltd, Laboklin PennGen HealthGene GenMark AHT, Genoscoper
Australian Silky Terrier	Progressive Retinal Atrophy, prcd	Laboklin
Australian Terrier	von Willebrand's disease	Genetic Technologies Ltd
Basenji	Pyruvate Kinase (PK) Deficiency * Fanconi Syndrome	OptiGen, HealthGene, VetGen, PennGen, Laboklin, Genetic Technologies Ltd, Genindexe, van Haeringen University of Missouri
Basset Hound	X-linked severe combined immunodeficiency (SCID) Thrombopathia	PennGen, Laboklin, Genetic Technologies Ltd Auburn University
Beagle	Pyruvate Kinase Deficiency Factor VII Deficiency Coagulation Factor VII deficiency	PennGen, genetic technologies Ltd; Laboklin, PennGen, VetGen, Laboklin AHT



Beauceron	Merle Gene (SILV)	GenMARK
Bedlington Terrier	Copper Toxicosis* Copper Toxicosis, COMMD1	VetGen, HealthGene, AHT, VetGen, van Haeringen, VDA, Finnzymes, Laboklin, Genetic Technologies Ltd AHT, VetGen, Genetic Technologies Ltd
Belgian Shepherd - Groenendael - Laekenois - Malinois - Tervueren	Canine Coat and Nose Colour Canine Coat and Nose Colour Canine Coat and Nose Colour Canine Coat and Nose Colour	HealthGene HealthGene HealthGene HealthGene HealthGene
Bernese Mountain Dog	von Willebrand's Disease Type 1	VetGen, Finnzymes, Genetic Technologies Ltd, Laboklin
Border Collie	Collie Eye Anomaly (CEA) / choroidal hypoplasia (CH) Ceroid Lipofuscinosis Multi drug resistance (MDR1) Canine Cyclic Neutropenia Canine Coat and Nose Colour Coat Colour Gene Variations Merle Gene (SILV) Coat Length Trapped Neutrophil Syndrome (TNS)	Optigen, Genetic Technologies Ltd Optigen, Genetic Technologies Ltd, AHT Laboklin Laboklin, Finnzymes Laboklin HealthGene VetGen GenMARK AHT University of New South Wales; Laboklin
Boston Terrier	Early onset, hereditary cataract (HC-HSF4)	AHT
Boxer	Degenerative Myelopathy von Willebrand's Disease Type II Bobtail gene	University of Missouri Finnzymes AHT
Briard	Congenital Stationary Night Blindness (CSNB) Canine Coat and Nose Colour	OptiGen, HealthGene, AHT, Laboklin, Genetic Technologies Ltd, Genindexe, Antagene, van Haeringen Healthgene
Brittany (Epagneul Breton)	Canine Coat and Nose Colour Bobtail gene	HealthGene Genoscooper
Bulldog	Hyperuricosuria	University of CA, AHT



Bullmastiff	Dominant Progressive Retinal Atrophy Canine Multi-focal Retinopathy	Optigen, Laboklin, Genetic Technologies Ltd Optigen
Bull Terrier	Haemophilia B (Factor IX Deficiency)	HealthGene, Cornell University
Bull Terrier (Miniature)	PLL	AHT
Cairn Terrier	Globoid Cell Leukodystrophy Pyruvate Kinase Deficiency Haemophilia B	HealthGene, AHT, Laboklin, Genetic Technologies Ltd, Genindexe PennGen, Genetic Technologies Ltd, Laboklin HealthGene
Chihuahua (Long and Smooth)	Pyruvate Kinase Deficiency	PennGen, Genetic Technologies Ltd, Laboklin
	Coat length Merle Gene (SILV)	VDA GenMARK
Chinese Crested	Progressive Retinal Atrophy, prcd PLL	OptiGen, Genetic Technologies Ltd, Laboklin AHT
Collie ( Rough)	Collie Eye Anomaly (CEA)/choroidal hypoplasia (CH) Multi drug resistance (MDR1) Progressive Retinal Atrophy, rcd2 Canine Cyclic Neutropenia Canine Coat and Nose Colour Merle Gene (SILV)	OptiGen, Genetic Technologies Ltd HealthGene, Genetic Technologies Ltd, Laboklin, Finnzymes Optigen HealthGen, Laboklin, Vetgen HealthGene GenMARK
Collie (Smooth)	Collie Eye Anomaly (CEA)/choroidal hypoplasia (CH) Multi drug resistance (MDR1) Progressive Retinal Atrophy, rcd2 Canine Cyclic Neutropenia Canine Coat and Nose Colour Merle Gene (SILV)	OptiGen, Genetic Technologies Ltd HealthGene, Genetic Technologies Ltd, Laboklin, Finnzymes Optigen HealthGene, Laboklin, VetGen HealthGene GenMARK
Coton De Tulear	Canine Multi-focal Retinopathy von Willebrand's Disease Type 1	OptiGen VetGen



Dachshund	Narcolepsy Pyruvate Kinase Deficiency Canine Coat and Nose Colour Ceroid Lipofuscinosis Merle(Dapple) SILV	OptiGen, HealthGene, Genetic Technologies Ltd, van Haeringen PennGen, Genetic Technologies Ltd, Laboklin HealthGene University of Missouri GenMark
Dachshund (Miniature Longhaired)	Progressive Retinal Atrophy, cord-1	AHT, Laboklin, University of Missouri, Genoscooper
Dachshund (Miniature Smooth Haired)	Progressive Retinal Atrophy, cord-1 Coat length	AHT, Laboklin, University of Missouri, Genoscooper AHT
Dachshund (Miniature Wire Haired)	Progressive Retinal Atrophy, cord-1	AHT
Dalmatian	Hyperuricosuria Canine Coat and Nose Colour	AHT HealthGene, VetGen, Laboklin
Deerhound	Factor VII Deficiency Coagulation Factor VII deficiency	PennGen; VetGen, Laboklin AHT
Dobermann	Narcolepsy von Willebrand's Disease Type 1 Canine Coat and Nose Colour	OptiGen, HealthGene, Genetic Technologies Ltd, van Haeringen, Laboklin VetGen, Finnzymes, Laboklin, Genetic Technologies Ltd HealthGene
Dogue de Bordeaux	Canine Multi-focal Retinopathy	Optigen
English Setter	Ceroid Lipofuscinosis Canine Coat and Nose Colour	University of Missouri HealthGene
Entlebucher Mountain Dog	Progressive Retinal Atrophy, prcd	OptiGen, Laboklin
Finnish Lapphund	Progressive Retinal Atrophy, prcd	OptiGen, Genetic Technologies Ltd, Laboklin
French Bulldog	Hereditary Cataract (HC-HSF4) Canine Coat and Nose Colour Canine Mask Test	AHT HealthGene HealthGene
German Pinscher	von Willebrand's Disease	VetGen, Laboklin



German Longhaired Pointer	Canine Coat and Nose Colour	HealthGene
German Shepherd Dog	Mucopolysaccharidosis VII Pyruvate Kinase Deficiency Multi drug resistance (MDR1) Degenerative Myelopathy Dwarfism Anal Furunculosis Canine Coat and Nose Colour Coat length	PennGen, Laboklin Laboklin Laboklin, Finnzymes University of Missouri Laboklin Genoscooper HealthGene VDA, AHT
German Shorthaired Pointer	Cone degeneration von Willebrand's Disease Type II Canine Coat and Nose Colour	Optigen, Genetic Technologies Ltd VetGen, Finnzymes HealthGene
German Wirehaired Pointer	Haemophilia B von Willebrand's Disease Type II Canine Coat and Nose Colour	Cornell University VetGen, University of Utrecht, Laboklin, Finnzymes HealthGene
Giant Schnauzer	Cobalamin Malabsorption (Methylmalonic Aciduria) Factor VII deficiency	PennGen VetGen, Laboklin
Gordon Setter	Coat Colour Gene Variations	VetGen
Great Dane	Canine Coat and Nose Colour Canine Mask Test Harlequin coat colour	HealthGene HealthGene GenMARK
Greyhound	Canine Coat and Nose Colour Canine Mask Test	HealthGene HealthGene
Hungarian Kuvasz	Progressive Retinal Atrophy, prcd	Optigen, Laboklin
Irish Red & White Setter	Canine Leucocyte Adhesion Deficiency (CLAD) Progressive Retinal Atrophy, rcd-1 von Willebrand's disease	OptiGen, AHT, Genindexe Optigen AHT



Irish Setter	Canine Leucocyte Adhesion Deficiency (CLAD) Progressive Retinal Atrophy, rcd-1	OptiGen, VetGen, HealthGene, AHT, Laboklin, Genetic Technologies Ltd, Genindexe, van Haeringen OptiGen, VetGen, HealthGene, AHT, Laboklin, Genetic Technologies Ltd, Genindexe, Antagene
Italian Spinone	Cerebellar Ataxia	AHT
Japanese Chin	Canine Coat and Nose Colour	HealthGene
Japanese Shiba Inu	Coat Length	VDA
Keeshond	PHPT	Cornell University
Kerry Blue Terrier	von Willebrand's Disease Type I Factor XI Deficiency	VetGen, Finnzymes, Genetic Technologies Ltd, PennGen PennGen
Kooikerhondje	von Willebrand's Disease Type II	Finnzymes, VetGen, University of Utrecht
Lagotto Romagnolo	Juvenile epilepsy	Genoscooper
Lancashire Heeler	Collie Eye Anomaly (CEA)/choroidal hypoplasia (CH) PLL	Optigen AHT
Large Munsterlander	Hyperuricosuria Canine Coat and Nose Colour Black Hair Follicular Dysplasia	AHT HealthGene HealthGene
Lhasa Apso	Renal Dysplasia* Haemophilia B	VetGen, Genetic Technologies Ltd HealthGene, Cornell University
Lowchen	Canine Coat and Nose Colour	HealthGene
Manchester Terrier	von Willebrand's Disease, Type 1	VetGen, Finnzymes, Laboklin, Genetic Technologies Ltd
Mastiff	Dominant Progressive Retinal Atrophy Canine Multi-focal Retinopathy	OptiGen, Laboklin, Genetic Technologies Ltd, Genindexe, Antagene Optigen



Miniature Schnauzer	Progressive Retinal Atrophy, Type A Myotonia congenital Mucopolysaccharidosis	OptiGen, Genetic Technologies Ltd, Genindexe HealthGene, PennGen, OptiGen, Laboklin, Genetic Technologies Ltd PennGen
Miniature Pinscher	Mucopolysaccharidosis VI	PennGen, Genetic Technologies Ltd
Newfoundland	Cystinuria Canine Coat and Nose Colour Coat Colour Gene Variations	OptiGen, HealthGene, PennGen, VetGen, van Haeringen, VDA, Laboklin, Genetic Technologies Ltd HealthGene VetGen
Norwegian Elkhound	Progressive Retinal Atrophy, prcd	Optigen
Old English Sheepdog	Multi drug resistance (MDR1)	HealthGene, Genetic Technologies Ltd, Laboklin, Finnzymes
Otterhound	Glanzmann's Thrombasthenia Type 1	Auburn University
Papillion	Von Willebrand's Disease Type 1 PRA	VetGen, Finnzymes, Genetic Technologies Ltd Genoscooper
Parson Russell Terrier	PLL	AHT
Pointer	Canine Coat and Nose Colour Coat Colour Gene Variation	HealthGene VetGen
Polish Lowland Sheepdog	Bobtail gene	Genoscooper
Pomeranian	Canine Coat and Nose Colour Merle (SILV)	HealthGene GenMARK



Poodle (Miniature)	Progressive Retinal Atrophy, prcd von Willebrand's Disease Type 1 Canine Coat and Nose Colour	OptiGen, Genetic Technologies Ltd, Laboklin VetGen, Finnzymes, Laboklin, Genetic Technologies Ltd HealthGene, VetGen
Poodle (Standard)	Neonatal Encephalopathy von Willebrand's Disease Type 1 Degenerative Myelopathy Neonatal Encephalopathy with Seizures Canine Coat and Nose Colour	University of Missouri, VetGen VetGen, Finnzymes, Laboklin, Genetic Technologies Ltd University of Missouri University of Missouri HealthGene, VetGen
Poodle (Toy)	Progressive Retinal Atrophy, prcd von Willebrand's Disease Type 1 Canine Coat and Nose Colour	OptiGen, Genetic Technologies Ltd, Laboklin VetGen, Finnzymes, Laboklin, Genetic Technologies Ltd HealthGene, VetGen
Portuguese Water Dog	Progressive Retinal Atrophy, prcd GM1 gangliosidosis Canine Coat and Nose Colour	OptiGen, Genetic Technologies Ltd, Laboklin HealthGene, Genetic Technologies Ltd HealthGene
Pug	Canine Coat and Nose Colour	HealthGene
Pyrenean Mountain Dog	Glanzmann's Thrombasthenia Type 1 Canine Multi-focal Retinopathy	Auburn University OptiGen
Pyrenean Sheepdog	Merle (SILV) gene	GenMARK
Retriever (Chesapeake Bay)	Progressive Retinal Atrophy, prcd Degenerative Myelopathy Exercise Induced Collapse	OptiGen, Laboklin University of Missouri Laboklin
Retriever (Curly Coated)	Glycogenosis (GSD) Type IIIa Exercise Induced Collapse Canine Coat and Nose Colour	Michigan State Laboklin HealthGene





Retriever (Flat Coated)	Canine Coat and Nose Colour Yellow coat	HealthGene, VetGen, Laboklin AHT, Finnzymes, Laboklin
Retriever (Golden)	Muscular Dystrophy Progressive Retinal Atrophy, <i>prcd</i>	HealthGene, Laboklin Optigen, Laboklin
Retriever (Labrador)	Cystinuria Narcolepsy Progressive Retinal Atrophy, <i>prcd</i> Retinal Dyslasia/OSD Haemophilia B Labrador Myopathy (CNM) Exercise Induced Collapse Yellow coat Canine Coat and Nose Colour Coat Colour Gene Variations	PennGen, Genetic Technologies Ltd OptiGen, HealthGene, Genetic Technologies Ltd, van Haeringen, Laboklin OptiGen, Genetic Technologies Ltd, Laboklin Optigen HealthGene, Cornell University AHT, Alfort School, Laboklin, VetGen Laboklin AHT, Laboklin HealthGene, VetGen, Laboklin, Genindexe VetGen, Finnzymes
Retriever (Nova Scotia Duck Tolling)	Progressive Retinal Atrophy, <i>prcd</i> Collie Eye Anomaly (CEA) / choroidal hypoplasia (CH)	OptiGen, Genetic Technologies Ltd, Laboklin OptiGen, Genetic Technologies Ltd
Rhodesian Ridgeback	Degenerative Myelopathy	University of Missouri
Rottweiler	Coat Length	VDA
Russian Black Terrier	Hyperuricosuria	University of CA, AHT
Samoyed	Progressive Retinal Atrophy, X-linked Retinal Dyslasia/OSD Hereditary Nephritis	OptiGen, Genetic Technologies Ltd, Antagene Optigen VetGen
Schipperke	Mucopolysaccharidosis IIIB Coat Colour Gene Variation Bobtail gene	PennGen VetGen Genoscooper
Scottish Terrier	von Willebrand's Disease Type III Coat Colour Gene Variation	VetGen, Laboklin, Genetic Technologies Ltd VetGen
Sealyham Terrier	PLL	AHT
Shar Pei	Canine Coat and Nose Colour	HealthGene



Shetland Sheepdog	von Willebrand's Disease Type III Collie Eye Anomaly (CEA)/choroidal hypoplasia (CH) Multi drug resistance (MDR1) Canine Coat and Nose Colour Merle (SILV) gene	VetGen, Laboklin, Genetic Technologies Ltd Optigen, genetic technologies Ltd, Genomia HealthGene, Genetic Technologies Ltd, Laboklin, Finnzymes HealthGene GenMARK
Shih Tzu	Renal Dysplasia*	VetGen, Genetic Technologies Ltd
Siberian Husky	Progressive Retinal Atrophy, X-linked GM1-gangliosidosis	OptiGen, Genetic Technologies Ltd, Anatagene Laboklin
Sloughi	Progressive Retinal Atrophy, rcd-1a	OptiGen, HealthGene, AHT, Laboklin, Genindexe, Antagene, Genetic Technologies Ltd
Soft Coated Wheaten Terrier	Renal Dysplasia*	VetGen, Genetic Technologies Ltd
Spaniel (American Cocker)	Progressive Retinal Atrophy, prcd Phosphofructokinase (PFK) Deficiency Coat Colour Variations	OptiGen, Genindexe, Genetic Technologies Ltd, Laboklin OptiGen, Health Gene, VetGen, PennGen, AHT, Genetic Technologies Ltd, Genindexe, Laboklin VetGen
Spaniel (Clumber)	Pyruvate Dehydrogenase Phosphatase Deficiency (PDP 1)	Genetic Technologies Ltd, University of Missouri, AHT, Laboklin; Genoscooper
Spaniel (Cocker)	Progressive Retinal Atrophy, prcd Phosphofructokinase (PFK) Deficiency Familial Nephropathy Canine Coat and Nose Colour Merle Gene (SILV)	OptiGen, Genetic Technologies Ltd, Laboklin OptiGen, VDA, HealthGene, van Haeringen, Genindexe Optigen, Genetic Technologies Ltd, Anatagene HealthGene GenMARK



Spaniel (English Springer)	Fucosidosis Phosphofructokinase (PFK) Deficiency PRA – cord1 Canine Coat and Nose Colour	AHT, PennGen, Finnzymes, Laboklin, Genetic Technologies Ltd, Genindexe, Finnzymes OptiGen, VetGen, HealthGene, AHT, PennGen, VDA, Laboklin, Genetic Technologies Ltd, Genindexe, van Haeringen, University of Missouri AHT, Finnzymes, Laboklin, University of Missouri, Genoscoper HealthGene
Spaniel (Field)	Canine Coat and Nose Colour	HealthGene
Spaniel (Sussex)	Pyruvate Dehydrogenase Phosphatase Deficiency (PDP 1)	AHT, Genetic Technologies Ltd, University of Missouri, Laboklin, Genoscoper
Spanish Water Dog	Progressive Retinal Atrophy, prcd Bobtail gene	OptiGen, Genetic Technologies Ltd Genoscoper
Staffordshire Bull Terrier	Hydroxyglutaric acidurea, L-2-HGA Hereditary cataract , HC-1 Canine Coat and Nose Colour	AHT, University of Missouri, Laboklin AHT HealthGene
Swedish Lapphund	Progressive Retinal Atrophy, prcd	OptiGen, Genetic Technologies Ltd, Laboklin
Swedish Vallhund	Bobtail gene	Genoscoper
Tibetan Terrier	PLL	AHT, University of Missouri
Weimaraner	Coat Length	AHT, VDA
Welsh Corgi (Cardigan)	Progressive Retinal Atrophy, rcd-3 X-linked severe combined immunodeficiency (SCID) Degenerative Myelopathy Canine Coat and Nose Colour Coat Length Merle Gene (SILV)	OptiGen, HealthGene, Laboklin, Genetic Technologies Ltd, Genindexe, Anatagene, VetGen, University of Michigan PennGen, Laboklin, Genetic Technologies Ltd Uiveristy of Missouri HealthGene VDA GenMARK
Welsh Corgi (Pembroke)	von Willebrand's Disease Typel Severe combined immunodeficiency (SCID) Degenerative Myelopathy Coat length Bobtail gene	VetGen, Finnzymes, Genetic Technologies Ltd, Laboklin PennGen, Genetic Technologies Ltd University of Missouri AHT, VDA AHT



West Highland White Terrier	Pyruvate Kinase (PK) Deficiency Globoid Cell Leukodystrophy	HealthGene, PennGen, VDA, Laboklin, Genetic Technologies Ltd, Genindexe, VetGen HealthGene, Laboklin, Genetic Technologies Ltd, Genindexe
Whippet	Collie Eye Anomaly (CEA)/choroidal hypoplasia (CH) Canine Multidrug Sensitivity Test (MDRI) Canine Coat and Nose Colour Canine Mask Test	Optigen HeathGene HealthGene HealthGene
Yorkshire Terrier	Progressive Retinal Atrophy, prcd	Optigen

### Available Laboratories

AHT Animal Health Trust  
[www.aht.org.uk](http://www.aht.org.uk)

Alfort School of Veterinary Medicine  
[www.labradorcnm.com](http://www.labradorcnm.com) (France)

Antagene  
[www.antagene.com](http://www.antagene.com) (France)

Auburn University  
[www.vetmed.auburn.edu](http://www.vetmed.auburn.edu) (USA)

Cornell University  
[www.web.vet.cornell.edu/](http://www.web.vet.cornell.edu/) (USA)

Finnzymes  
[www.finnzymes.fi](http://www.finnzymes.fi) (Finland)

Genindexe  
[www.genindexe.com](http://www.genindexe.com) (France)

Genetic Technologies Ltd  
[www.geneticscienceservices.com](http://www.geneticscienceservices.com) (Australia)

GenMARK  
[www.genmarkag.com](http://www.genmarkag.com) (USA)

Genomia  
[www.genomia.cz/en/](http://www.genomia.cz/en/)



Genoscooper  
[http://www.genoscooper.com/in\\_english2/gene\\_tests/](http://www.genoscooper.com/in_english2/gene_tests/) (Finland)

HealthGene  
[www.healthgene.com](http://www.healthgene.com) (Canada)

Laboklin  
[www.laboklin.co.uk](http://www.laboklin.co.uk) (UK)

OptiGen  
[www.optigen.com](http://www.optigen.com) (USA)

PennGen  
[www.vet.upenn.edu](http://www.vet.upenn.edu) (USA)

University of California  
[www.vgl.ucdavis.edu/services/index.php](http://www.vgl.ucdavis.edu/services/index.php) (USA)

University of Missouri  
[www.caninegeneticdiseases.net](http://www.caninegeneticdiseases.net) (USA)

University of New South Wales - +  
email: [a.wilton@unsw.edu.ac](mailto:a.wilton@unsw.edu.ac)  
(Alan Wilton – Australia)

University of Utrecht  
email : [P.A.J.Leegwater@vet.uu.nl](mailto:P.A.J.Leegwater@vet.uu.nl) (Holland)

Van Haeringen  
email : [info@vhlgenetics.com](mailto:info@vhlgenetics.com) (Holland)

VDA  
[www.vetdnacenter.com](http://www.vetdnacenter.com) (USA)

VetGen  
[www.vetgen.com](http://www.vetgen.com) (USA)



