

DNA Test Report

Owner Info

First Name

Barbara

Last Name

Steubesand

Pet Info

Registered Name

Brösel von Schrot & Korn

Date of Birth

22.4.2021

Nickname (Call Name)

Brösel von Schrot & Korn

Sample ID

DCBZJNV

Sex

Male

Registration

VDH 21/223R00104

Country of Origin

DE

Microchip ID

276093400922579

Owner Reported Breed

Slovakian Wirehaired Pointer

Tattoo ID

N/A

DNA Test Report

Genetic Diversity (Heterozygosity)

Brösel von Schrot & Korn's Percentage of Heterozygosity

39%

Brösel von Schrot & Korn's genome analysis shows an average level of genetic heterozygosity when compared with other purebred dogs.

Typical Range for Purebred Dogs

26 - 40%

DNA Test Report

Health Conditions Tested

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|---|----------|--------------|--------|--------|
| 2,8-dihydroxyadenine (DHA) Urolithiasis | APRT | G>A | 0 | Clear |
| Acral Mutilation Syndrome | GDNF | C>T | 0 | Clear |
| Acute Respiratory Distress Syndrome | ANLN | C>T | 0 | Clear |
| Alaskan Husky Encephalopathy | SLC19A3 | G>A | 0 | Clear |
| Alexander Disease | GFAP | G>A | 0 | Clear |
| Amelogenesis Imperfecta | ENAM | Deletion | 0 | Clear |
| Bandera's Neonatal Ataxia | GRM1 | Insertion | 0 | Clear |
| Benign Familial Juvenile Epilepsy | LGI2 | A>T | 0 | Clear |
| Canine Leukocyte Adhesion Deficiency (CLAD), type III | FERMT3 | Insertion | 0 | Clear |
| Canine Multifocal Retinopathy 1 | BEST1 | C>T | 0 | Clear |
| Canine Multifocal Retinopathy 2 | BEST1 | G>A | 0 | Clear |
| Canine Multifocal Retinopathy 3 | BEST1 | Deletion | 0 | Clear |
| Canine Scott Syndrome | ANO6 | G>A | 0 | Clear |
| Centronuclear Myopathy (Discovered in the Great Dane) | BIN1 | A>G | 0 | Clear |
| Centronuclear Myopathy (Discovered in the Labrador Retriever) | PTPLA | Insertion | 0 | Clear |
| Cerebellar Ataxia | RAB24 | A>C | 0 | Clear |
| Cerebellar Cortical Degeneration | SNX14 | C>T | 0 | Clear |
| Cerebellar Hypoplasia | VLDLR | Deletion | 0 | Clear |
| Cerebral Dysfunction | SLC6A3 | G>A | 0 | Clear |
| Chondrodysplasia | ITGA10 | C>T | 0 | Clear |
| Cleft Lip & Palate with Syndactyly | ADAMTS20 | Deletion | 0 | Clear |
| Cleft Palate | DLX6 | C>A | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|---------|--------------|--------|--------|
| Collie Eye Anomaly (CEA) | NHEJ1 | Deletion | 0 | Clear |
| Complement 3 Deficiency | C3 | Deletion | 0 | Clear |
| Cone Degeneration (Discovered in the Alaskan Malamute) | CNGB3 | Deletion | 0 | Clear |
| Cone Degeneration (Discovered in the German Shepherd Dog) | CNGA3 | C>T | 0 | Clear |
| Cone Degeneration (Discovered in the German Shorthaired Pointer) | CNGB3 | G>A | 0 | Clear |
| Cone-Rod Dystrophy | NPHP4 | Deletion | 0 | Clear |
| Cone-Rod Dystrophy 1 | PDE6B | Deletion | 0 | Clear |
| Cone-Rod Dystrophy 2 | IQCB1 | Insertion | 0 | Clear |
| Congenital Dyshormonogenic Hypothyroidism with Goiter (Discovered in the Shih Tzu) | SLC5A5 | G>A | 0 | Clear |
| Congenital Hypothyroidism (Discovered in the Tenterfield Terrier) | TPO | C>T | 0 | Clear |
| Congenital Hypothyroidism (Discovered in the Toy Fox and Rat Terrier) | TPO | C>T | 0 | Clear |
| Congenital Myasthenic Syndrome (Discovered in the Golden Retriever) | COLQ | G>A | 0 | Clear |
| Congenital Myasthenic Syndrome (Discovered in the Jack Russell Terrier) | CHRNE | Insertion | 0 | Clear |
| Congenital Myasthenic Syndrome (Discovered in the Labrador Retriever) | COLQ | T>C | 0 | Clear |
| Congenital Myasthenic Syndrome (Discovered in the Old Danish Pointer) | CHAT | G>A | 0 | Clear |
| Congenital Stationary Night Blindness (CSNB) | RPE65 | A>T | 0 | Clear |
| Craniomandibular Osteopathy | SLC37A2 | C>T | 0 | Clear |
| Cystic Renal Dysplasia and Hepatic Fibrosis | INPP5E | G>A | 0 | Clear |
| Cystinuria Type I-A | SLC3A1 | C>T | 0 | Clear |
| Cystinuria Type II-A | SLC3A1 | Deletion | 0 | Clear |
| Deafness and Vestibular Dysfunction (Discovered in Doberman Pinscher) | PTPRQ | Insertion | 0 | Clear |
| Degenerative Myelopathy | SOD1 | G>A | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|---|---------|--------------|--------|--------|
| Demyelinating Neuropathy | SBF2 | G>T | 0 | Clear |
| Dental Hypomineralization | FAM20C | C>T | 0 | Clear |
| Dilated Cardiomyopathy (Discovered in the Schnauzer) | RBM20 | Deletion | 0 | Clear |
| Dominant Progressive Retinal Atrophy | RHO | C>G | 0 | Clear |
| Dystrophic Epidermolysis Bullosa (Discovered in the Central Asian Ovcharka) | COL7A1 | C>T | 0 | Clear |
| Dystrophic Epidermolysis Bullosa (Discovered in the Golden Retriever) | COL7A1 | C>T | 0 | Clear |
| Early Adult Onset Deafness For Border Collies only (Linkage test) | Pending | Insertion | 0 | Clear |
| Early Retinal Degeneration (Discovered in the Norwegian Elkhound) | STK38L | Insertion | 0 | Clear |
| Early-onset PRA (Discovered in the Portuguese Water Dog) | CCDC66 | Insertion | 0 | Clear |
| Early-Onset Progressive Polyneuropathy (Discovered in the Alaskan Malamute) | NDRG1 | G>T | 0 | Clear |
| Early-Onset Progressive Polyneuropathy (Discovered in the Greyhound) | NDRG1 | Deletion | 0 | Clear |
| Enamel Hypoplasia (Discovered in the Parson Russell Terrier) | ENAM | C>T | 0 | Clear |
| Epidermolytic Hyperkeratosis | KRT10 | G>T | 0 | Clear |
| Exercise-Induced Collapse | DNM1 | G>T | 0 | Clear |
| Factor VII Deficiency | F7 | G>A | 0 | Clear |
| Factor XI Deficiency | FXI | Insertion | 0 | Clear |
| Fanconi Syndrome | FAN1 | Deletion | 0 | Clear |
| Fetal Onset Neuroaxonal Dystrophy | MFN2 | G>C | 0 | Clear |
| Focal Non-Epidermolytic Palmoplantar Keratoderma | KRT16 | G>C | 0 | Clear |
| Generalized Progressive Retinal Atrophy (Discovered in the Schapendoes) | CCDC66 | Insertion | 0 | Clear |
| Glanzmann Thrombasthenia Type I | ITGA2B | C>T | 0 | Clear |
| Glanzmann Thrombasthenia Type I (Discovered in Great Pyrenees) | ITGA2B | C>G | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|---------|--------------|--------|--------|
| Globoid Cell Leukodystrophy (Discovered in Terriers) | GALC | A>C | 0 | Clear |
| Globoid Cell Leukodystrophy (Discovered in the Irish Setter) | GALC | A>T | 0 | Clear |
| Glycogen Storage Disease Type Ia | G6PC | G>C | 0 | Clear |
| Glycogen Storage Disease Type IIIa, (GSD IIIa) | AGL | Deletion | 0 | Clear |
| GM1 Gangliosidosis (Discovered in the Portuguese Water Dog) | GLB1 | G>A | 0 | Clear |
| GM1 Gangliosidosis (Discovered in the Shiba) | GLB1 | Deletion | 0 | Clear |
| GM2 Gangliosidosis (Discovered in the Japanese Chin) | HEXA | G>A | 0 | Clear |
| GM2 Gangliosidosis (Discovered in the Toy Poodle) | HEXB | Deletion | 0 | Clear |
| Goniodysgenesis and Glaucoma (Discovered in the Border Collie) | OLFML3 | G>A | 0 | Clear |
| Hemophilia A (Discovered in Old English Sheepdog) | FVIII | C>T | 0 | Clear |
| Hemophilia A (Discovered in the Boxer) | FVIII | C>G | 0 | Clear |
| Hemophilia A (Discovered in the German Shepherd Dog - Variant 1) | FVIII | G>A | 0 | Clear |
| Hemophilia A (Discovered in the German Shepherd Dog - Variant 2) | FVIII | G>A | 0 | Clear |
| Hemophilia A (Discovered in the Havanese) | FVIII | Insertion | 0 | Clear |
| Hemophilia B | FIX | G>A | 0 | Clear |
| Hemophilia B (Discovered in the Airedale Terrier) | FIX | Insertion | 0 | Clear |
| Hemophilia B (Discovered in the Lhasa Apso) | FIX | Deletion | 0 | Clear |
| Hereditary Ataxia (Discovered in the Norwegian Buhund) | KCNIP4 | T>C | 0 | Clear |
| Hereditary Elliptocytosis | SPTB | C>T | 0 | Clear |
| Hereditary Footpad Hyperkeratosis | FAM83G | G>C | 0 | Clear |
| Hereditary Nasal Parakeratosis (Discovered in the Greyhound) | SUV39H2 | Deletion | 0 | Clear |
| Hereditary Vitamin D-Resistant Rickets Type II | VDR | Deletion | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|----------|--------------|--------|--------|
| Hyperekplexia or Startle Disease | SLC6A5 | G>T | 0 | Clear |
| Hyperuricosuria | SLC2A9 | G>T | 0 | Clear |
| Hypocatalasia | CAT | G>A | 0 | Clear |
| Hypomyelination | FNIP2 | Deletion | 0 | Clear |
| Hypophosphatasia | Pending | T>G | 0 | Clear |
| Ichthyosis (Discovered in the American Bulldog) | NIPAL4 | Deletion | 0 | Clear |
| Ichthyosis (Discovered in the Great Dane) | SLC27A4 | G>A | 0 | Clear |
| Intestinal Cobalamin Malabsorption (Discovered in the Beagle) | CUBN | Deletion | 0 | Clear |
| Intestinal Cobalamin Malabsorption (Discovered in the Border Collie) | CUBN | Deletion | 0 | Clear |
| Intestinal Cobalamin Malabsorption (Discovered in the Komondor) | CUBN | G>A | 0 | Clear |
| Juvenile Encephalopathy (Discovered in the Parson Russell Terrier) | Pending | Deletion | 0 | Clear |
| Juvenile Laryngeal Paralysis and Polyneuropathy | RAB3GAP1 | Deletion | 0 | Clear |
| Juvenile Myoclonic Epilepsy | DIRAS1 | Deletion | 0 | Clear |
| L-2-Hydroxyglutaric Aciduria | L2HGDH | T>C | 0 | Clear |
| L-2-Hydroxyglutaric Aciduria (Discovered in the Westie) | Pending | Insertion | 0 | Clear |
| Lagotto Storage Disease | ATG4D | G>A | 0 | Clear |
| Lamellar Ichthyosis | TGM1 | Insertion | 0 | Clear |
| Lethal Acrodermatitis (Discovered in the Bull Terrier) | MKLN1 | A>C | 0 | Clear |
| Ligneous Membranitis | PLG | T>A | 0 | Clear |
| Lung Developmental Disease (Discovered in the Airedale Terrier) | LAMP3 | C>T | 0 | Clear |
| Macrothrombocytopenia | TUBB1 | G>A | 0 | Clear |
| May-Hegglin Anomaly | MYH9 | G>A | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|------------|--------------|--------|--------|
| MDR1 Medication Sensitivity | MDR1/ABCB1 | Deletion | 0 | Clear |
| Microphthalmia (Discovered in the Soft-Coated Wheaten Terrier) | RBP4 | Deletion | 0 | Clear |
| Mucopolysaccharidosis Type IIIA (Discovered in the Dachshund) | SGSH | C>A | 0 | Clear |
| Mucopolysaccharidosis Type IIIA (Discovered in the New Zealand Huntaway) | SGSH | Insertion | 0 | Clear |
| Mucopolysaccharidosis Type VII (Discovered in the Brazilian Terrier) | GUSB | C>T | 0 | Clear |
| Mucopolysaccharidosis Type VII (Discovered in the German Shepherd Dog) | GUSB | G>A | 0 | Clear |
| Muscular Dystrophy (Discovered in the Cavalier King Charles Spaniel) | Dystrophin | G>T | 0 | Clear |
| Muscular Dystrophy (Discovered in the Golden Retriever) | Dystrophin | A>G | 0 | Clear |
| Muscular Dystrophy (Discovered in the Landseer) | COL6A1 | G>T | 0 | Clear |
| Muscular Dystrophy (Discovered in the Norfolk Terrier) | Dystrophin | Deletion | 0 | Clear |
| Muscular Hypertrophy (Double Muscling) | MSTN | T>A | 0 | Clear |
| Musladin-Lueke Syndrome | ADAMTSL2 | C>T | 0 | Clear |
| Myeloperoxidase Deficiency | MOP | C>T | 0 | Clear |
| Myotonia Congenita | CLCN1 | Insertion | 0 | Clear |
| Myotonia Congenita (Discovered in the Labrador Retriever) | CLCN1 | T>A | 0 | Clear |
| Myotonia Congenita (Discovered in the Miniature Schnauzer) | CLCN1 | C>T | 0 | Clear |
| Myotubular Myopathy | MTM1 | A>C | 0 | Clear |
| Narcolepsy (Discovered in the Dachshund) | HCRTR2 | G>A | 0 | Clear |
| Narcolepsy (Discovered in the Labrador Retriever) | HCRTR2 | G>A | 0 | Clear |
| Nemaline Myopathy | NEB | C>A | 0 | Clear |
| Neonatal Cerebellar Cortical Degeneration | SPTBN2 | Deletion | 0 | Clear |
| Neonatal Encephalopathy with Seizures | ATF2 | T>G | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|---|----------|--------------|--------|--------|
| Neuroaxonal Dystrophy | TECPR2 | C>T | 0 | Clear |
| Neuroaxonal Dystrophy (Discovered in the Papillon) | PLA2G6 | G>A | 0 | Clear |
| Neuroaxonal Dystrophy (Discovered in the Rottweiler) | VPS11 | A>G | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 1 | PPT1 | Insertion | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 12 (Discovered in the Australian Cattle Dog) | ATP13A2 | C>T | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 7 | MFSD8 | Deletion | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Alpine Dachsbracke) | CLN8 | Deletion | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Australian Shepherd) | CLN8 | G>A | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 8 (Discovered in the English Setter) | CLN8 | T>C | 0 | Clear |
| Neuronal Ceroid Lipofuscinosis 8 (Discovered in the Saluki) | CLN8 | Insertion | 0 | Clear |
| Osteochondrodysplasia | SLC13A1 | Deletion | 0 | Clear |
| Osteochondromatosis (Discovered in the American Staffordshire Terrier) | EXT2 | C>A | 0 | Clear |
| Osteogenesis Imperfecta (Discovered in the Beagle) | COL1A2 | C>T | 0 | Clear |
| Osteogenesis Imperfecta (Discovered in the Dachshund) | SERPINH1 | T>C | 0 | Clear |
| P2RY12-associated Bleeding Disorder | P2RY12 | Deletion | 0 | Clear |
| Paroxysmal Dyskinesia | PIGN | C>T | 0 | Clear |
| Persistent Müllerian Duct Syndrome | AMHR2 | C>T | 0 | Clear |
| Phosphofruktokinase Deficiency | PFKM | G>A | 0 | Clear |
| Polycystic Kidney Disease | PKD1 | G>A | 0 | Clear |
| Prekallikrein Deficiency | KLKB1 | T>A | 0 | Clear |
| Primary Ciliary Dyskinesia | CCDC39 | C>T | 0 | Clear |
| Primary Ciliary Dyskinesia (Discovered in the Alaskan Malamute) | NME5 | Deletion | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|----------|--------------|--------|--------|
| Primary Lens Luxation | ADAMTS17 | G>A | 0 | Clear |
| Primary Open Angle Glaucoma (Discovered in Basset Fauve de Bretagne) | ADAMTS17 | G>A | 0 | Clear |
| Primary Open Angle Glaucoma (Discovered in Petit Basset Griffon Vendéen) | ADAMTS17 | Insertion | 0 | Clear |
| Primary Open Angle Glaucoma and Lens Luxation (Discovered in Chinese Shar-Pei) | ADAMTS17 | Deletion | 0 | Clear |
| Progressive Early-Onset Cerebellar Ataxia | SEL1L | T>C | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Basenji) | SAG | T>C | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Golden Retriever - GR-PRA1 variant) | SLC4A3 | Insertion | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Lhasa Apso) | IMPG2 | Insertion | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Papillon and Phalène) | CNGB1 | Deletion | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Shetland Sheepdog - BBS2 variant) | Pending | G>C | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Shetland Sheepdog - CNGA1 variant) | CNGA1 | Deletion | 0 | Clear |
| Progressive Retinal Atrophy (Discovered in the Swedish Vallhund) | MERTK | Insertion | 0 | Clear |
| Progressive Retinal Atrophy 1 (Discovered in the Italian Greyhound) | Pending | G>A | 0 | Clear |
| Progressive Retinal Atrophy Type III | FAM161A | Insertion | 0 | Clear |
| Progressive Rod Cone Degeneration (prcd-PRA) | PRCD | G>A | 0 | Clear |
| Protein Losing Nephropathy | NPHS1 | G>A | 0 | Clear |
| Pyruvate Dehydrogenase Phosphatase 1 Deficiency | PDP1 | C>T | 0 | Clear |
| Pyruvate Kinase Deficiency (Discovered in the Basenji) | PKLR | Deletion | 0 | Clear |
| Pyruvate Kinase Deficiency (Discovered in the Beagle) | PKLR | G>A | 0 | Clear |
| Pyruvate Kinase Deficiency (Discovered in the Pug) | PKLR | T>C | 0 | Clear |
| Pyruvate Kinase Deficiency (Discovered in the West Highland White Terrier) | PKLR | Insertion | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|---|---------|--------------|--------|--------|
| QT Syndrome | KCNQ1 | C>A | 0 | Clear |
| Renal Cystadenocarcinoma and Nodular Dermatofibrosis | FLCN | A>G | 0 | Clear |
| Rod-Cone Dysplasia 1 | PDE6B | G>A | 0 | Clear |
| Rod-Cone Dysplasia 1a | PDE6B | Insertion | 0 | Clear |
| Rod-Cone Dysplasia 3 | PDE6A | Deletion | 0 | Clear |
| Sensory Ataxic Neuropathy | tRNATyr | Deletion | 0 | Clear |
| Sensory Neuropathy | FAM134B | Insertion | 0 | Clear |
| Severe Combined Immunodeficiency | PRKDC | G>T | 0 | Clear |
| Severe Combined Immunodeficiency (Discovered in Frisian Water Dogs) | RAG1 | G>T | 0 | Clear |
| Shaking Puppy Syndrome (Discovered in the Border Terrier) | Pending | G>A | 0 | Clear |
| Skeletal Dysplasia 2 | COL11A2 | G>C | 0 | Clear |
| Spinocerebellar Ataxia (Late-Onset Ataxia) | CAPN1 | G>A | 0 | Clear |
| Spinocerebellar Ataxia with Myokymia and/or Seizures | KCNJ10 | C>G | 0 | Clear |
| Spondylocostal Dysostosis | HES7 | Deletion | 0 | Clear |
| Spongy Degeneration with Cerebellar Ataxia (Discovered in Belgian Malinois - SDCA1) | KCNJ10 | T>C | 0 | Clear |
| Spongy Degeneration with Cerebellar Ataxia (Discovered in Belgian Malinois - SDCA2) | ATP1B2 | Insertion | 0 | Clear |
| Stargardt Disease (Discovered in the Labrador Retriever) | ABCA4 | Insertion | 0 | Clear |
| Trapped Neutrophil Syndrome | VPS13B | Deletion | 0 | Clear |
| Van den Ende-Gupta Syndrome | SCARF2 | Deletion | 0 | Clear |
| von Willebrand's Disease, type 1 | VWF | G>A | 0 | Clear |
| von Willebrand's Disease, type 2 | VWF | T>G | 0 | Clear |

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Health Conditions Tested (continued)

| Genetic Condition | Gene | Risk Variant | Copies | Result |
|--|---------|--------------|--------|--------|
| von Willebrand's Disease, type 3 (Discovered in the Kooiker Hound) | VWF | G>A | 0 | Clear |
| von Willebrand's Disease, type 3 (Discovered in the Scottish Terrier) | VWF | Deletion | 0 | Clear |
| von Willebrand's Disease, type 3 (Discovered in the Shetland Sheepdog) | VWF | Deletion | 0 | Clear |
| X-Linked Ectodermal Dysplasia | EDA | G>A | 0 | Clear |
| X-Linked Hereditary Nephropathy (Discovered in the Navasota Dog) | COL4A5 | Deletion | 0 | Clear |
| X-Linked Hereditary Nephropathy (Discovered in the Samoyed) | COL4A5 | G>T | 0 | Clear |
| X-Linked Myotubular Myopathy | MTM1 | C>A | 0 | Clear |
| X-Linked Progressive Retinal Atrophy 1 | RPGR | Deletion | 0 | Clear |
| X-Linked Progressive Retinal Atrophy 2 | RPGR | Deletion | 0 | Clear |
| X-Linked Severe Combined Immunodeficiency (Discovered in the Basset Hound) | IL2RG | Deletion | 0 | Clear |
| X-Linked Severe Combined Immunodeficiency (Discovered in the Cardigan Welsh Corgi) | IL2RG | Insertion | 0 | Clear |
| X-Linked Tremors | PLP1 | A>C | 0 | Clear |
| Xanthinuria (Discovered in a mixed breed dog) | Pending | G>A | 0 | Clear |
| Xanthinuria (Discovered in the Cavalier King Charles Spaniel) | Pending | Deletion | 0 | Clear |
| Xanthinuria (Discovered in the Toy Manchester Terrier) | Pending | G>T | 0 | Clear |

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Coat Color

| Genetic Trait | Gene | Variant | Copies | Result |
|--|--------|------------------|--------|--|
| Fawn | ASIP | a ^y | 0 | No effect |
| Recessive Black | ASIP | a | 0 | No effect |
| Tan Points | ASIP | a ^t | 2 | Tan points possible |
| Dominant Black | CBD103 | K ^B | 2 | Black possible |
| Mask | MC1R | E ^m | 0 | No effect |
| Recessive Red (Variant 1) | MC1R | e ¹ | 0 | No effect |
| Recessive Red (Variant 2) | MC1R | e ² | 0 | No effect |
| Recessive Red (Variant 3) | MC1R | e ³ | 0 | No effect |
| Widow's Peak (Discovered in Ancient dogs) | MC1R | e ^A | 0 | No effect |
| Widow's Peak (Discovered in the Afghan Hound and Saluki) | MC1R | E ^G | 0 | No effect |
| Red Intensity | MFSD12 | i | 0 | White to yellow coat shades unlikely |
| Dilution (Variant 1) Linkage test | MLPH | d ¹ | 2 | Dilution likely |
| Dilution (Variant 2) | MLPH | d ² | 0 | No effect |
| Dilution (Variant 3) | MLPH | d ³ | 0 | No effect |
| Chocolate (Variant 1) | TYRP1 | b ^c | 1 | Black features likely, chocolate possible |
| Chocolate (Variant 2) | TYRP1 | b ^s | 1 | Black features likely, chocolate possible |
| Chocolate (Variant 3) | TYRP1 | b ^d | 1 | Black features likely, chocolate possible |
| Chocolate (Variant 4) | TYRP1 | b ^{asd} | 0 | No effect |

Coat Patterns

| Genetic Trait | Gene | Variant | Copies | Result |
|---------------|------|----------------|--------|--|
| Piebald | MITF | s ^p | 2 | Particolor or white markings possible |

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Coat Patterns (continued)

| Genetic Trait | Gene | Variant | Copies | Result |
|---------------|-------|---------|--------|-----------|
| Merle | PMEL | M | 0 | No effect |
| Harlequin | PSMB7 | H | 0 | No effect |
| Saddle Tan | RALY | - | 0 | No effect |

Coat Length and Curl

| Genetic Trait | Gene | Variant | Copies | Result |
|-----------------------|-------|-----------------|--------|-----------|
| Long Hair (Variant 1) | FGF5 | lh ¹ | 0 | No effect |
| Long Hair (Variant 2) | FGF5 | lh ² | 0 | No effect |
| Long Hair (Variant 3) | FGF5 | lh ³ | 0 | No effect |
| Long Hair (Variant 4) | FGF5 | lh ⁴ | 0 | No effect |
| Long Hair (Variant 5) | FGF5 | lh ⁵ | 0 | No effect |
| Curly Coat | KRT71 | C | 0 | No effect |

Hairlessness

| Genetic Trait | Gene | Variant | Copies | Result |
|---|-------|------------------|--------|-----------|
| Hairlessness (Discovered in the Chinese Crested Dog) Linkage test | FOXI3 | Hr ^{cc} | 0 | No effect |
| Hairlessness (Discovered in the American Hairless Terrier) | SGK3 | hr ^{ah} | 0 | No effect |
| Hairlessness (Discovered in the Scottish Deerhound) | SKG3 | hr ^{sd} | 0 | No effect |

Shedding

| Genetic Trait | Gene | Variant | Copies | Result |
|------------------|------|---------|--------|-------------|
| Reduced Shedding | MC5R | sd | 2 | Low shedder |

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More Coat Traits

| Genetic Trait | Gene | Variant | Copies | Result |
|---------------|---------------------------|-----------------|--------|--------------------|
| Hair Ridge | FGF3, FGF4, FGF19, ORAOV1 | R | 0 | No effect |
| Furnishings | RSP02 | F | 2 | Furnishings likely |
| Albino | SLC45A2 | c ^{al} | 0 | No effect |

Head Shape

| Genetic Trait | Gene | Variant | Copies | Result |
|-------------------------|-------|---------|--------|-----------|
| Short Snout (Variant 2) | BMP3 | - | 0 | No effect |
| Short Snout (Variant 1) | SMOC2 | - | 0 | No effect |

Eye Color

| Genetic Trait | Gene | Variant | Copies | Result |
|---------------|------|---------|--------|-----------|
| Blue Eyes | ALX4 | - | 0 | No effect |

Ears

| Genetic Trait | Gene | Variant | Copies | Result |
|---------------|-------|---------|--------|-------------------------|
| Floppy Ears | MSRB3 | - | 2 | Floppy ears more likely |

Extra Toes

| Genetic Trait | Gene | Variant | Copies | Result |
|--|-------|---------|--------|-----------|
| Hind Dewclaws (Discovered in Asian breeds) | LMBR1 | DC-1 | 0 | No effect |
| Hind Dewclaws (Discovered in Western breeds) | LMBR1 | DC-2 | 0 | No effect |

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More Body Features

| Genetic Trait | Gene | Variant | Copies | Result |
|--------------------------|-------|---------|--------|-------------------------|
| Back Muscle and Bulk | ACSL4 | - | 0 | No effect |
| High Altitude Adaptation | EPAS1 | - | 0 | No effect |
| Short Legs | FGF4 | - | 0 | Medium to long legs |
| Short Tail | T-box | T | 0 | Full tail length likely |