

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Diversity		Calculation of the genetic inbreeding coefficient (IC)				x
Diversity		Calculation of genetic diversity (heterozygosity)				x
Platform		Access to the digital breeder platform myFERAGEN				x
Platform		DogMatching - Finding genetically matching breeding partners				x
Coat colour	ASIP	A Lokus (Agouti) - a		x	x	x
Coat colour	ASIP	A Lokus (Agouti) - a <sup>w</sup> /a <sup>t</sup>		x	x	x
Coat colour	ASIP	A Lokus (Agouti) - A <sup>y</sup>		x	x	x
Disease	GDNF	Acral mutilation syndrome	AMS		x	x
Disease	ANLN	Acute respiratory distress syndrome	ARDS		x	x
Disease	SLC19A3	Alaskan Husky Encephalopathy	AHE	x	x	x
Disease	NDRG1	Alaskan Malamute Polyneuropathy 84E1BC	AMPN	x	x	x
Disease	GFAP	Alexander Krankheit (Labrador Retriever)	AxD			x
Disease	ENAM	Amelogenesis Imperfecta	AI	x	x	x
Coat colour	RALY	As Lokus (Saddle Tan)			x	
Coat colour	TYRP1	B Lokus (Brown) - b <sup>a</sup>		x	x	x
Coat colour	TYRP1	B Lokus (Brown) - b <sup>c</sup>		x	x	x
Coat colour	TYRP1	B Lokus (Brown) - b <sup>d</sup>		x	x	x
Coat colour	TYRP1	B Lokus (Brown) - b <sup>s</sup>		x	x	x
Disease	LGI2	Benign Familial Juvenile Epilepsy (Lagotto Romagnolo type)	BFJE	x	x	x
Morphology	BMP3	Brachycephaly (skull shape)		x	x	x
Disease	SERAC1	Canine Multiple System Degeneration (Chinese Crested Type)	CMSD	x	x	x
Disease	SERAC1	Canine Multiple System Degeneration (Kerry Blue Terrier type)	CMSD	x	x	x
Disease	ANO6	Canine Scott Syndrome	CSS		x	x
Disease	YARS2	Cardiomyopathy, Juvenile Mortality (Belgian Malinois)	CJM			x
Disease	BIN1	Centronuclear Myopathy (Great Dane)	CNM	x	x	x
Morphology	FGF4	Chondrodysplasia (leg length)		x	x	
Disease	ITGA10	Chondrodysplasia (Karelian Bear Dog & Norwegian Elkhound type)		x	x	x
Disease	FGF4	Chondrodystrophy and predisposition to herniated discs	IVDD		x	
Disease	NHEJ1	Collie Eye Anomaly	CEA	x	x	xP*
	HPS3	Co-Locus Cocoa Brown (French Bulldog)				x
Disease	CNGB3	Cone degeneration	CD	x	x	
Disease	CNGB3	Cone Degeneration (German Shorthair Type)	CD	x	x	
Disease	CNGA3	Cone Degeneration (German Shepherd Type)	CD		x	x
Disease	CNGA3	Cone Degeneration (Labrador Retriever Type)	CD		x	x
Disease	ATP7B	Copper toxicosis (Labrador Retriever)				x
Disease	SLC37A2	Craniomandibular Osteopathy	CMO		x	x
Coat texture	KRT71	Cu Lokus (Curls)		x	x	x
Disease	SLC3A1	Cystinuria (Australian Cattle Dog type)		x	x	x

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	SLC3A1	Cystinuria (Labrador Retriever type)		x	x	x
Disease	SLC3A1	Cystinuria (Newfoundland type)		x	x	x
Disease	SLC7A9	Cystinuria (Dwarf Pinscher type)		x	x	x
Disease	SLC7A9	Cystinuria type 3 (Bulldog type risk factor, Variant 3)			x	x
Disease	SLC3A1	Cystinuria type 3 (Bulldog type risk factor, variants 1 and 2)			x	x
Coat colour	MLPH	D Lokus (Dilute) - d <sup>1</sup>		x	x	x
Coat colour	MLPH	D Lokus (Dilute) - d <sup>2</sup>		x	x	x
Disease	VLDLR	Dandy Walker Syndrome			x	x
Disease	EPS8L2	Deafness (Rhodesian Ridgeback)	EOAD			x
Disease	LOXHD1	Deafness (Rottweiler) Deafness (Rottweiler)	Deafness			x
Disease	SOD1	Degenerative myelopathy (Bernese mountain dog type)	DM		x	
Disease	SOD1	Degenerative myelopathy (classic variant)	DM	x	x	xP*
Disease	SP110	Degenerative Myelopathy Modifier (Pembroke Welsh Corgi Type)	DM	x	x	x
Disease	FAM20C	Dental hypomineralisation			x	
Disease	INPP5E	Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis (Norwich Terrier Type)			x	x
Disease	PDK4	Dilated cardiomyopathy (Doberman type risk variant, variant 1)	DCM	x	x	
Disease	TTN	Dilated cardiomyopathy (Doberman type risk variant, variant 2)	DCM		x	x
Disease	RBM20	Dilated cardiomyopathy (Schnauzer type)	DCM		x	x
Disease	FAM83H	Dry Eye Curly Coat Syndrome	CKSID	x	x	
Disease	COL7A1	Dystrophic Epidermolysis Bullosa (Golden Retriever Type)	DEB	x	x	x
Coat colour	MC1R	E Lokus (Yellow/Recessive Red)		x	x	x
Coat colour	MC1R	Eg Lokus (Grizzle, Afghan Hound type)		x	x	x
Coat colour	MC1R	Eh Lokus (Sable, Cocker Spaniel type)			x	x
Disease	TNXB	Ehlers-Danlos syndrome (variant 1)	EDS		x	x
Disease	TNXB	Ehlers-Danlos syndrome (variant 2)	EDS		x	x
Disease	PKP1	Ectodermal dysplasia (Chesapeake Bay Retriever type)	ED	x	x	x
Disease	DFA	Ectodermal dysplasia, X-linked (Dachshund type)	XED		x	x
Disease	DFA	Ectodermal dysplasia, X-linked (shepherd type)	XED	x	x	
Disease	SPTB	Elliptocytosis		x	x	x
Coat colour	MC1R	E-Locus e3 Recessive Red (Husky)				x
Coat colour	MC1R	E-Locus Ea Ancient Domino				x
Coat colour	MC1R	Em Lokus (Black Mask)		x	x	x
Disease	LAMB3	Epidermolysis bullosa, junctionalis (Australian Shepherd)	JEB			x
Disease	KRT10	Epidermolytic hyperkeratosis (Norfolk Terrier type)		x	x	
Disease	PITRM1	Epilepsy with mitochondrial dysfunction and neurodegeneration (Parson Russell Terrier)				x
Disease	DNM1	Exercise-Induced Collapse	EIC	x	x	xP*

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	F7	Factor VII deficiency		x	x	x
Disease	F11	Factor XI deficiency			x	
Disease	COL4A4	Familial nephropathy (Cocker Spaniel type)	FN	x	x	x
Disease	COL4A4	Familial nephropathy (English Springer Spaniel type)	FN	x	x	
Disease	STK38L	Early retinal degeneration (Norwegian Elkhound)	ERD	x	x	
Disease	FUCA1	Fucosidosis	FUC		x	
Disease	ABCB4	Gall bladder mucocele		x	x	x
Disease	ADAMTS20	Cleft palate and syndactyly (Nova Scotia Duck Tolling Retriever type)			x	
Feature	AMELXY	Sex determination - X		x	x	x
Feature	ZFXY	Sex determination - Y		x	x	x
Disease	ITGA2B	Glanzmann Thrombastenie (Otterhund type)	GT	x	x	x
Disease	ITGA2B	Glanzmann Thrombastenie (Pyrenean Mountain Dog Type)	GT	x	x	
Disease	OLFML3	Glaucoma (Border Collie type)			x	x
Disease	GALC	Globoid cell leukodystrophy (Irish Setter type)	GLD	x	x	
Disease	GALC	Globoid cell leukodystrophy (Terrier type)	GLD	x	x	x
Disease	PFKM	Glycogen storage disease VII (PFK deficiency)	GSD-VII/ PFL	x	x	x
Disease	G6PC	Glycogen storage disease Ia	GSD-Ia	x	x	x
Disease	AGL	Glycogen storage disease IIIa	GSD-IIIa	x	x	x
Disease	GAA	Glycogen storage disease type II - Pompe's disease	GSD-II	x	x	
Disease	PFKM	Glycogen storage disease VII (quail dog type)	GSD-VII/ PFL	x	x	x
Disease	GLB1	GM1 Gangliosidosis (Alaskan Husky type)	GM1	x	x	
Disease	GLB1	GM1 Gangliosidosis (Portuguese Water Dog type)	GM1	x	x	x
Disease	GLB1	GM1 Gangliosidosis (Shiba Inu type)	GM1	x	x	x
Disease	HEXA	GM2 Gangliosidosis (Japan Chin type)	GM2	x	x	x
Disease	HEXB	GM2 Gangliosidosis (Poodle type)	GM2	x	x	x
Disease	NDRG1	Greyhound polyneuropathy		x	x	x
Coat colour	PSMB7	H Locus (Harlequin, Great Dane type)		x	x	x
Disease	F8	Haemophilia A (Boxer type)	HämA	x	x	x
Disease	F8	Haemophilia A (German shepherd type 1)	HämA	x	x	
Disease	F8	Haemophilia A (German shepherd type 2)	HämA	x	x	xP*
Disease	F9	Haemophilia B (Cairn Terrier type)	HämB	x	x	
Disease	F9	Haemophilia B (Lhasa Apso type)	HämB	x	x	
Disease	F9	Haemophilia B (Rhodesian Ridgeback type)	HämB	x	x	
Disease	FAM83G	Hereditary foot pad hyperkeratosis (Irish Terrier & Kromfohländer type)	HFH	x	x	x
Disease	SUV39H2	Hereditary Nasal Parakeratosis (Greyhound Type)	HNPK		x	x
Disease	SUV39H2	Hereditary Nasal Parakeratosis (Labrador Retriever Type)	HNPK	x	x	xP*
Disease	COL4A5	Hereditary nephritis (Samoyed type)	XLHN	x	x	x

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	HSF4	Hereditary cataract	HC1	x	x	
Disease	HSF4	Hereditary cataract (Australian Shepherd type)	HC2	x	x	
Coat texture	FOXI3	Hr Lokus (Hairless, Mexican Hairless, Peruvian Hairless and Chinese Crested type)			x	
Disease	SLC6A5	Hyperekplexia (Startle Disease)		x	x	
Disease	SLC2A9	Hyperuricosuria	HUU	x	x	x
Disease	FNIP2	Hypomyelination (Weimaraner type)			x	x
Diversity		Calculation of the inbreeding coefficient (IC)				x
Diversity		Calculation of heterozygosity				x
Platform		Access to the myFERAGEN breeder platform				x
Platform		myFERAGEN DogMatching - Finding the perfect breeding partner				x
Disease	TPO	Hypothyroidism (French Bulldog)	CHG			x
Disease	TPO	Hypothyroidism (Toy Fox Terrier)	CHG			x
Feature	EPAS1	Hypoxia (altitude adaptation)				x
Coat colour	MFSD12	I Lokus (Intensity)			x	x
Coat colour	RSPO2	IC Lokus (Improper Coat/Furnishing/Rough Hair)			x	x
Disease	NIPAL4	Ichthyosis (American Bulldog type)		x	x	x
Disease	SLC27A4	Ichthyosis (Great Dane type)			x	x
Disease	PNPLA1	Ichthyosis (Golden Retriever type)		x	x	x
Disease	CUBN	Immerslund-Gräsbeck syndrome (Beagle type)	IGS	x	x	x
Disease	CUBN	Immerslund-Gräsbeck syndrome (Border Collie type)	IGS	x	x	x
Disease	SLC25A12	Inflammatory myopathy (Dutch shepherd dog)				x
Disease	AKNA	Inflammatory Pulmonary Disease	IPD		x	x
Disease	CUBN	Intestinal cobalamin malabsorption (Komondor)	IGS-KOM			x
Disease	DIRAS1	Juvenile Myoclonic Epilepsy (Rhodesian Ridgeback type)	JME	x	x	x
Coat colour	CBD103	K Lokus (Dominant Black)		x	x	x
Disease	CAT	Catalasedeficiency			x	x
Disease	CNTNAP1	Laryngeal paralysis and polyneuropathy (Leonberger)	LPPN3			x
Disease	C3	Complement C3 Deficiency		x	x	x
Disease	CYB5R3	Congenital methemoglobinemia			x	x
Disease	RPE65	Congenital stationary night blindness (Briard type)	CSNB	x	x	x
Disease	TPO	Congenital hypothyroidism with goitre (terrier type)			x	x
Disease	CHRNE	Congenital Myasthenic Syndrome (Jack Russell Terrier type)	CMS		x	
Disease	COLQ	Congenital Myasthenic Syndrome (Labrador Retriever Type)	CMS	x	x	x
Disease	CHAT	Congenital Myasthenic Syndrome (Old Danish Pointer Type)	CMS	x	x	
Feature	FTSJ3	Body size and dental anomalies 1 (Shetland Sheepdog)				x
Feature	GH1	Body Size and Dental Anomalies 2 (Shetland Sheepdog)				x
Feature	GHR	Body size-GHR type1				x
Feature	GHR	Body size-GHR type2				x

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Feature	HMGA2	Body size-HMGA2				x
Feature	IGF1	Body size-IGF1				x
Feature	IGFR1	Body size-IGFR1				x
Feature	STC2	Body size-STC2				x
Feature	DVL2	Kringelrute				x
Disease	ATP7A	Copper toxicosis-protective modifier (Labrador Retriever)				x
Coat colour	FGF5	L Lokus (Longhair) - Lh1		x	x	x
Coat colour	FGF5	L Lokus (Longhair) - Lh2		x	x	x
Disease	L2HGDH	L-2 hydroxyglutaraciduria (Staffordshire bull terrier type)	L-2-HGA	x	x	x
Coat colour	FGF5	L Lokus (Longhair) - Lh4 (Afghan, French Bulldog)				x
Disease	MLKN1	Lethal acrodermatitis	LAD		x	
Disease	TSEN54	Leukodystrophy (Medium Schnauzer)	LD			x
Disease	NAPEPLD	Leukoencephalomyelopathy (Leonberger)	LEMP			x
Disease	NAPEPLD	Leukoencephalomyelopathy (Rottweiler, Great Dane)	LEMP			x
Disease	ITGB2	Leukocyte adhesion deficiency (type I)	CLAD-I	x	x	x
Disease	FERMT3	Leukocyte adhesion deficiency (type III)	CLAD-III	x	x	x
Disease	LEPREL1	Lundehund syndrome			x	x
Disease	ATG4D	Lysosomal storage diseases (Lagotto Romagnolo type)	LSD		x	x
Coat colour	PMEL	M Loo (Merle)			x	
Disease	TUBB1	Macrothrombocytopenia (Jack Russell Terrier)	MTCP			x
Disease	CHST6	Macular dystrophy (Labrador Retriever type)	MD		x	
Disease	MYH9	May-Hegglin anomaly	MHA	x	x	
Disease	PLG	Membranitis lignosa/plasminogen deficiency	LM	x	x	
Disease	IDUA	Mucopolysaccharidosis type I	MPS-I	x	x	
Disease	SGSH	Mucopolysaccharidosis type IIIA (Dachshund type)	MPS-IIIA	x	x	x
Disease	SGSH	Mucopolysaccharidosis type IIIA (New Zealand Huntaway type)	MPS-IIIA	x	x	
Disease	GUSB	Mucopolysaccharidosis type VII (shepherd dog type)	MPS-VII	x	x	x
Disease	ABCB1	Multidrug Resistance 1	MDR1	x	x	x
Disease	BEST1	Multifocal retinopathy 1	CMR1	x	x	
Disease	BEST1	Multifocal retinopathy 2	CMR2	x	x	x
Disease	BEST1	Multifocal retinopathy 3	CMR3	x	x	
Disease	DMD	Muscular dystrophy (Golden Retriever type)	GRMD	x	x	x
Disease	COL6A3	Muscular dystrophy 1 (Labrador Retriever)	DMD			x
Disease	COL6A3	Muscular dystrophy 2 (Labrador Retriever)	DMD			x
Disease	DMD	Duchenne muscular dystrophy (Norfolk terrier)	DMD			x
Disease	DMD	Duchenne muscular dystrophy 1 (Cavalier King Charles Spaniel)	DMD			x
Disease	DMD	Duchenne muscular dystrophy 2 (Cavalier King Charles Spaniel)	DMD			x

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	LGMDR3/SGCA	Muscular dystrophy, limb girdle (Dachshund)	LGMD			x
Disease	ADAMTSL2	Musladin-Lueke syndrome	MLS	x	x	x
Disease	MSTN	Myostatin deficiency (Whippet & Windsprite type)		x	x	x
Disease	CLCN1	Myotonia Congenita (Australian Cattle Dog type)	MC	x	x	
Disease	CLCN1	Myotonia Congenita (Schnauzer type)	MC	x	x	
Disease	MTM1	Myotubular myopathy 1		x	x	x
Disease	MTM1	Myotubular myopathy 1 (Rottweiler type)			x	
Disease	HCRTR2	Narcolepsy (Dachshund type)	NARC	x	x	
Disease	HCRTR2	Narcolepsy (Doberman type)	NARC	x	x	
Disease	HCRTR2	Narcolepsy (Labrador Retriever type)	NARC	x	x	
Disease	NEB	Nemaline Myopathy (American Bulldog)				x
Disease	ATF2	Neonatal encephalopathy with seizures	NEWS	x	x	x
Disease	SPTBN2	Neonatal Cortical Cerebellar Degeneration	NCCD	x	x	
Disease	PLA2G6	Neuroaxonal dystrophy (Papillon)	NAD			x
Disease	VPS11	Neuroaxonal dystrophy (Rottweiler type)	NAD		x	
Disease	TECPR2	Neuroaxonal dystrophy (Spanish water dog type)	NAD		x	x
Disease	ATP13A2	Neuronal ceroid lipofuscinosis (Tibetan Terrier type)	NCL-A	x	x	
Disease	PPT1	Neuronal ceroid lipofuscinosis 1	NCL-1	x	x	
Disease	PPT1	Neuronal ceroid lipofuscinosis 1 (Cane Corso type)	NCL-1	x	x	
Disease	CTSD	Neuronal ceroid lipofuscinosis 10	NCL-10	x	x	x
Disease	ATP13A2	Neuronal ceroid lipofuscinosis 12	NCL-12		x	
Disease	TPP1	Neuronal ceroid lipofuscinosis 2	NCL-2	x	x	
Disease	ARSG	Neuronal ceroid lipofuscinosis 4A	NCLA-4A	x	x	x
Disease	CLN5	Neuronal ceroid lipofuscinosis 5 (Australian Cattle Dog/Border Collie type)	NCL-5	x	x	
Disease	CLN5	Neuronal ceroid lipofuscinosis 5 (Golden Retriever type)	NCL-5		x	
Disease	CLN6	Neuronal ceroid lipofuscinosis 6	NCL-6	x	x	
Disease	MFSD8	Neuronal ceroid lipofuscinosis 7	NCL-7		x	x
Disease	CLN8	Neuronal ceroid lipofuscinosis 8 (Australian Shepherd type)	NCL-8	x	x	
Disease	CLN8	Neuronal ceroid lipofuscinosis 8 (Setter type)	NCL-8	x	x	
Disease	FLCN	Renal cell carcinoma and nodular dermatofibrosis	RCND	x	x	
Disease	SLC45A2	Oculocutaneous albinism	OCA		x	
Disease	SLC45A2	Oculocutaneous albinism (Small breeds)	OCA		x	x
Disease	SLC13A1	Osteochondrodysplasia	OCD		x	
Disease	EXT2	Osteochondromatosis (American Staffordshire Terrier)				x
Disease	COL1A2	Osteogenesis Imperfecta (Beagle type)	OI	x	x	
Disease	SERPINH1	Osteogenesis Imperfecta (Dachshund type)	OI	x	x	x
Disease	COL1A1	Osteogenesis Imperfecta (Golden Retriever Type)	OI	x	x	x
Disease	P2RY12	P2RY12 receptor defect		x	x	x

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	PIGN	Paroxysmal dyskinesia	PxD		x	
Disease	DMD	Pembroke Welsh Corgi Duchenne muscular dystrophy	DMD	x	x	
Disease	AMHR2	Persistent Müllergang Syndrome	PMS	x	x	x
Morphology	LMBR1	Polydactyly (anal claw)		x	x	x
Disease	RAB3GAP1	Polyneuropathy with ocular abnormalities and neuronal vacuolisation	POAVN		x	x
Disease	ARHGEF10	Polyneuropathy type 1 (Leonberger & St. Bernard type)	LPN1	x	x	
Disease	GJA9	Polyneuropathy type 2 (Leonberger type)	LPN2	x	x	x
Disease	PKD1	Polycystic kidney disease (Bull Terrier)	PKD			x
Disease	KLKB1	Prekallikrein deficiency		x	x	x
Disease	AGXT	Primary hyperoxaluria	PH1	x	x	
Disease	ADAMTS17	Primary lens luxation	PLL	x	x	x
Disease	CCDC39	Primary ciliary dyskinesia	PCD	x	x	
Disease	ADAMTS17	Primary open angle glaucoma (Basset Fauve de Bretagne type)	POAG/PLL		x	
Disease	ADAMTS17	Primary open angle glaucoma (Basset Hound type)	POAG		x	
Disease	ADAMTS10	Primary open angle glaucoma (Beagle type)	POAG	x	x	
Disease	ADAMTS10	Primary open angle glaucoma (Norwegian Elkhound type)	POAG		x	
Disease	ADAMTS17	Primary open angle glaucoma and primary lens luxation (Shar-Pei type)	POAG		x	x
Disease	SAG	Progressive retinal atrophy (Basenji type)	Basenji PRA	x	x	
Disease	CNGB1	Progressive retinal atrophy (Papillon & Phalene type)	PAP-PRA1	x	x	x
Disease	NECAP1	Progressive retinal atrophy (Giant Schnauzer type)	PRA5		x	x
Disease	CNGA1	Progressive retinal atrophy (Shetland Sheepdog type)	CNGA1-PRA		x	
Disease	FAM161A	Progressive retinal atrophy (Tibetan Terrier and Spaniel type)	PRA3		x	
Disease	NPHP4	Progressive retinal atrophy, Cone-Rod dystrophy	PRA-crd / PRA-SWD	x	x	
Disease	PDE6B	Progressive retinal atrophy, Cone-Rod dystrophy 1	PRA-crd1	x	x	x
Disease	IQCB1	Progressive retinal atrophy, Cone-Rod dystrophy 2	PRA-crd2		x	
Disease	ADAM9	Progressive retinal atrophy, Cone-Rod dystrophy 3	PRA-crd3	x	x	
Disease	RPGRIP1	Progressive retinal atrophy, Cone-Rod dystrophy 4 (crd4/cord1)	PRA-crd4/cord1		x	
Disease	RHO	Progressive retinal atrophy, dominant (Bullmastiff/Mastiff type)	PRA-D	x	x	x
Disease	PDE6B	Progressive retinal atrophy, early onset (Spanish water dog)	PRA-EO			x
Disease	CCDC66	Progressive retinal atrophy, generalised	GPRA	x	x	x
Disease	SLC4A3	Progressive retinal atrophy, Golden Retriever type 1	GR-PRA1	x	x	
Disease	TTC8	Progressive retinal atrophy, Golden Retriever type 2	GR-PRA2	x	x	x
Disease	PRCD	Progressive retinal atrophy, progressive rod-cone degeneration	PRA-PRCD	x	x	xP*
Disease	PDE6B	Progressive retinal atrophy, rod-cone dysplasia (Irish Setter type)	PRA-rcd1	x	x	
Disease	PDE6B	Progressive retinal atrophy, rod-cone dysplasia (Sloughi type)	PRA-rcd1a	x	x	

Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	PDE6A	Progressive retinal atrophy, rod-cone dysplasia 3	PRA-rcd3	x	x	
Disease	C2ORF71	Progressive retinal atrophy, rod-cone dysplasia 4	PRA-rcd4		x	
Disease	RPGR	Progressive retinal atrophy, X-linked 1	XLGRA		x	
Disease	KIRREL2	Protein Losing Nephropathy - Variant 1	PLN-1		x	x
Disease	NPHS1	Protein Losing Nephropathy - Variant 2	PLN-2		x	
Disease	PDP1	Pyruvate dehydrogenase deficiency	PDH	x	x	
Disease	PKLR	Pyruvate kinase deficiency (Basenji type)	PKDef	x	x	
Disease	PKLR	Pyruvate kinase deficiency (Beagle type)	PKDef	x	x	
Disease	PKLR	Pyruvate kinase deficiency (Labrador Retriever type)	PKDef	x	x	x
Disease	PKLR	Pyruvate kinase deficiency (Pug type)	PKDef	x	x	
Disease	PKLR	Pyruvate kinase deficiency (terrier type)	PKDef	x	x	
Disease	COL9A3	Retinal dysplasia/oculo-skeletal dysplasia 1 (Labrador Retriever type)	RD/OSD1		x	
Disease	COL9A2	Retinal dysplasia/oculo-skeletal dysplasia 2 (Samoyede type)	RD/OSD2		x	
Coat colour	MITF	S Locus (White piebald, Parti or Piebald)			x	x
Disease	PRKDC	Severe combined immunodeficiency (terrier type)	SCID	x	x	
Disease	RAG1	Severe combined immunodeficiency (Wetterhoun type)	SCID	x	x	
Disease	IL2RG	Severe combined immunodeficiency, x-linked (Basset type)	XSCID	x	x	
Disease	IL2RG	Severe combined immunodeficiency, x-linked (Corgi type)	XSCID	x	x	
Coat colour	MC5R	SD Loo (Shedding)		x	x	x
Disease	FAM134B	Sensory neuropathy (Border Collie type)	SN		x	
Disease	MTBP	Shar-Pei Autoinflammatory Disease	SPAID	x	x	x
Disease	COL11A2	Skeletal dysplasia 2	SD2	x	x	x
Disease	NKX2-8	Spinal dysraphism		x	x	
Disease	KCNJ10	Spinocerebellar ataxia	SCA	x	x	
Disease	CAPN1	Spinocerebellar Ataxia (Late Onset Ataxia)	LOA/SCA	x	x	
Disease	HES7	Spondylocostal dysostosis	SCD		x	
Disease	KCNJ10	Spongy degeneration with cerebellar ataxia 1 (Belgian Malinois)	SDCA1			x
Disease	ABCA4	Stargardt disease - Stargardt's disease	STGD		x	x
Feature	non coding region	Prick ears				x
Disease	ALDH5A1	Succinate semi aldehyde dehydrogenase deficiency (Saluki)	SSADHD			x
Feature	T	T Locus (Natural Bobtail / Stubby Rod)		x	x	x
Disease	RASGRP1	Thrombopathy (American Eskimo Dog type)		x	x	
Disease	RASGRP1	Thrombopathy (Basset type)		x	x	
Disease	RASGRP1	Thrombopathy (Newfoundland type)		x	x	
Disease	VPS13B	Trapped Neutrophil Syndrome	TNS	x	x	x
Coat colour	USH2A	Tr-Locus				x
Disease	APRT	Urolithiasis (Native American Indian Dog type)			x	



Category	Gene(s)	Diseases, coat colours & characteristics	Abbreviation	DogCheck V2.1	DogCheck V3.0	DogCheck V4.0
Disease	SCARF2	Van Den Ende-Gupta syndrome	VDEGS		x	
Disease	MICOS13, C19orf70	Ventricular arrhythmia (Rhodesian Ridgeback)	IVA			x
Disease	VDR	Vitamin D-dependent rickets	HVDRR			x
Disease	VWF	Von Willebrand disease I	VWDI	x	x	x
Disease	VWF	Von Willebrand disease II	VWDII	x	x	
Disease	VWF	Von Willebrand disease III (Kooikerhondje type)	VWDIII	x	x	x
Disease	VWF	Von Willebrand disease III (Scottish Terrier type)	VWDIII	x	x	
Disease	VWF	Von Willebrand disease III (Shetland Sheepdog type)	VWDIII	x	x	x
Disease	PTPLA	Centronuclear myopathy	CNM		x	
Disease	SEL1L	Cerebellar Ataxia (Finnish Hound Type)		x	x	
Disease	RAB24	Cerebellar degeneration	CA		x	x
Disease	SNX14	Cerebellar cortical degeneration	CCD		x	x
Disease	GH1	Dwarfism, growth hormone deficiency (Chihuahua)				x
Disease	AP3B1	Cyclic neutropenia	CN	x	x	