OWNER

Maria Bryan

31 Mitchell St,POBox 284,Charleville,QLD,4470,Australia

Membership Number : 072019
Member Body/Breed Club : Orivet Breeders Club

Orivet Genetic Pet Care

GENETIC COMPREHENSIVE REPORT

Accredited and Compliant with

Members of

OWNER'S DETAILS

Name :	Maria Bryan
Address :	31 Mitchell St,POBox 284,Charleville,QLD,4470,Australia

ANIMAL'S DETAILS

Registered Name :	Indestructabullz Odyssey
Pet Name :	Bobcat
Registration Number :	22823 MDBA
Breed :	French Bulldog
Microchip Number :	953010002290207
Sex :	Male
Date of Birth :	30th Jan 2018
Colour :	merle

SAMPLE COLLECTION DETAILS

Case Number :	19B33108
Collected By :	Vicki Dunstan
Approved Collection :	YES
Sample Type :	SWAB

TEST DETAILS

Test Requested :	French Bulldog - Full Breed Profile
Pet Name :	Bobcat
Date of Test :	28th Aug 2019

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

RESULTS REVIEWED AND CONFIRMED BY

George Sofronidis BSc (Hons)

Dr Noam Pik BVSc, MAVS

ORIVET GENETIC COMPREHENSIVE REPORT

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P1_2	A G	P3_2	A A	P3_3	G G	P11_3	C C	P12_1	G G	P24_2	G G	P12_3	G G	P30_3	A A
P13_1	A A	P24_3	C C	P31_1	A A	P28_3	A A	P31_3	G G	P25_1	G G	P32_2	C G	P13_2	A A
P13_3	A C	P25_2	G G	P25_3	A C	P32_3	A G	P33_1	A G	P14_1	T T	P10_1	G G	P26_1	A A
P33_3	G G	P26_2	A A	P14_2	G G	P26_3	A A	P14_3	C C	P15_1	A A	P34_1	A A	P34_2	G G
P34_3	A A	P10_3	A C	P15_2	A A	P15_3	A A	P16_3	C G	P35_1	G G	P35_2	G G	P36_1	A C
P17_1	G G	P36_2	C C	P37_2	G G	P17_2	A A	P29_1	G G	P37_3	G G	P38_1	C C	P38_2	A G
P27_1	C G	P17_3	G G	P27_2	A C	P4_3	G G	P18_2	C C	P18_3	C C	P5_1	G G	P11_1	G G
P19_1	T T	P19_2	G G	P5_2	G G	P19_3	G G	P2_1	G G	P2_3	A C	P27_3	T T	P20_1	A A
P20_3	A A	P5_3	A G	P11_2	C C	P6_2	A A	P6_3	C C	P21_1	A G	P21_3	A G	P22_2	C C
P28_1	G G	P7_1	A C	P7_2	A A	P28_2	G G	P7_3	A A	P29_2	G G	P8_1	A A	P22_3	G G
P8_2	G G	P8_3	A A	P23_1	C C	P9_3	A T	P23_2	C C	P23_3	A G	P24_1	G G	P3_1	G G

ORIVET GENETIC COMPREHENSIVE REPORT

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BICF2G630103624	C C	BICF2G630111735	A G	BICF2G630122583	A G	BICF2G630133028	A G
BICF2G630133994	G G	BICF2G630149030	A G	BICF2G630200354	A A	BICF2G630209886	A A
BICF2G630220326	G G	BICF2G630221287	A G	BICF2G630264994	A A	BICF2G630276039	A G
BICF2G630276136	A G	BICF2G630306265	A G	BICF2G630326688	G G	BICF2G630328172	A G
BICF2G630328323	A A	BICF2G630367177	A A	BICF2G630409193	G G	BICF2G630453264	C C
BICF2G630474528	A A	BICF2G630499189	A G	BICF2G630539759	A G	BICF2G630552597	A A
BICF2G630653298	G G	BICF2G630666362	A G	BICF2G630691635	C C	BICF2G630704611	A G
BICF2G630708384	G G	BICF2G630762459	A C	BICF2G63078341	A G	BICF2G63088115	A A
BICF2P1010945	A G	BICF2P105070	A A	BICF2P1138733	A G	BICF2P1159837	G G
BICF2P1181787	A A	BICF2P1192522	G G	BICF2P1226745	A G	BICF2P1286728	A A
BICF2P1362405	A G	BICF2P1369088	G G	BICF2P1391407	A A	BICF2P164304	A A
BICF2P184963	A G	BICF2P251850	A C	BICF2P277987	A A	BICF2P345488	A G
BICF2P401677	A G	BICF2P414351	G G	BICF2P42825	A G	BICF2P452541	A A
BICF2P457665	A A	BICF2P464536	A G	BICF2P465276	A G	BICF2P46604	A G
BICF2P46672	A A	BICF2P496466	A A	BICF2P496837	A A	BICF2P567552	A G
BICF2P590440	G G	BICF2P600196	A A	BICF2P615597	A C	BICF2P635478	A G
BICF2P651575	A G	BICF2P651577	A G	BICF2P70891	A C	BICF2P725743	C C
BICF2P728698	A A	BICF2P789367	G G	BICF2P805553	A A	BICF2P840653	A A
BICF2P885380	A G	BICF2P923421	A G	BICF2P950116	G G	BICF2P963969	A G
BICF2P998036	A A	BICF2S22912385	A G	BICF2S22926284	A A	BICF2S22953709	A C
BICF2S23018785	G G	BICF2S23111132	A A	BICF2S23138418	A A	BICF2S23141330	A T
BICF2S23214514	A C	BICF2S23326150	A G	BICF2S23329382	A A	BICF2S23357186	C G
BICF2S2338108	A G	BICF2S23434277	G G	BICF2S23529290	A A	BICF2S23535154	A G
BICF2S23614068	A A	BICF2S2399705	A G	G1425f16S28	A G	TIGRP2P255960_rs9030578	A A
TIGRP2P283310_rs8881748	A A	TIGRP2P328303_rs8531882	A C	TIGRP2P354499_rs9162547	A G	TIGRP2P356245_rs8830240	A A
TIGRP2P362535_rs9130694	A A	TIGRP2P389035_rs9038546	G G				

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BICF2G630102146	A A	BICF2G630149581	G G	BICF2G630159183	A G	BICF2G630170631	A C
BICF2G630187649	A A	BICF2G630187658	G G	BICF2G630204463	A A	BICF2G630209373	A G
BICF2G630209508	A G	BICF2G630255439	G G	BICF2G630271966	A A	BICF2G630274628	A A
BICF2G630307199	A A	BICF2G630340940	A A	BICF2G630340944	A A	BICF2G630365778	C C
BICF2G630382763	A A	BICF2G630437783	A A	BICF2G630449851	A A	BICF2G630467607	A C
BICF2G630488267	G G	BICF2G630504410	A A	BICF2G630552598	A A	BICF2G630558437	A A
BICF2G630594648	A G	BICF2G630634836	C C	BICF2G630641678	A G	BICF2G630689403	A G
BICF2G630798972	A A	BICF2G630814422	A C	BICF2G63090019	A T	BICF2P1019402	A G
BICF2P103615	A G	BICF2P1060087	A A	BICF2P1104630	A A	BICF2P1141966	A A
BICF2P1173491	G G	BICF2P1183665	A G	BICF2P1193353	A A	BICF2P1216677	A A
BICF2P1226838	A G	BICF2P1232055	G G	BICF2P1271174	A G	BICF2P129347	A A
BICF2P129670	A G	BICF2P1308802	A A	BICF2P1310805	C C	BICF2P1344095	G G
BICF2P1346673	G G	BICF2P1357746	G G	BICF2P1454500	G G	BICF2P155421	A A
BICF2P157421	A A	BICF2P182473	A A	BICF2P224656	C C	BICF2P237994	G G
BICF2P246592	A A	BICF2P250787	A A	BICF2P25730	T T	BICF2P283440	A G
BICF2P285489	G G	BICF2P345056	G G	BICF2P347679	A A	BICF2P378969	A A
BICF2P382742	G G	BICF2P415783	A G	BICF2P422152	A A	BICF2P508740	G G
BICF2P516667	G G	BICF2P553317	A G	BICF2P554817	A A	BICF2P561057	A A
BICF2P585943	A A	BICF2P624936	G G	BICF2P635172	G G	BICF2P643134	G G
BICF2P65087	G G	BICF2P651576	A G	BICF2P717226	A A	BICF2P751654	A G
BICF2P774003	A A	BICF2P798404	A A	BICF2P842510	A A	BICF2P856893	G G
BICF2P878175	G G	BICF2P935470	A G	BICF2P990814	A A	BICF2S22910736	G G
BICF2S22913753	A G	BICF2S22928800	A A	BICF2S22943825	A G	BICF2S23028732	T T
BICF2S23031254	A C	BICF2S23049416	A A	BICF2S23057560	A G	BICF2S23124313	A G
BICF2S23126079	A A	BICF2S23246455	A G	BICF2S23250041	C C	BICF2S23333411	G G
BICF2S23356653	A G	BICF2S23429022	A A	BICF2S23449478	G G	BICF2S23519644	A G
BICF2S2351979	G G	BICF2S2359809	A G	BICF2S236196	A G	BICF2S23626625	C G
BICF2S23648905	A A	BICF2S23649947	G G	BICF2S23713161	A A	BICF2S23737033	G G
BICF2S24511913	G G	TIGRP2P106843_rs8858816	A A	TIGRP2P116826_rs8741680	A A	TIGRP2P164720_rs8839809	A G
TIGRP2P177606_rs8886563	C C	TIGRP2P215708_rs8686029	A T	TIGRP2P316532_rs8597522	A A	TIGRP2P372104_rs9153277	A G
TIGRP2P402042_rs9121006	A G	TIGRP2P406551_rs9235397	A G	TIGRP2P407751_rs8803124	C C	BICF2G630646431	A A

ORIVET GENETIC COMPREHENSIVE REPORT

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : CONE-ROD DYSTROPHY I - PRA (CORD I)

Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]

Gene : RPGR interacting protein 1 (RPGRIP1) on chromosome 15

Variant Detected : Nucleotide Insertionc.338-339InsA(29)GGAAGCAACAGGATGp.Thr59STOP (frameshift and premature stop codon)

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : DEGENERATIVE MYELOPATHY

Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]

Gene : Superoxide dismutase 1 (SOD1) on chromosome 31

Variant Detected : Base Substitutionc.118G>Ap.Glu40Lys

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : HEREDITARY CATARACT

Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]

Gene : Heat shock transcription factor 4 (HSF4) on Chromosome 5

Variant Detected : Nucleotide Insertion and Nucleotide Deletionc.971-972insC (Staffordshire Bull Terrier and Boston Terrier, French Bulldogs)c.971-972delC (Australian Shepherd)p.Pro324Profs27X (Staffordshire Bull Terrier and Boston Terrier, French Bulldogs)p.Pro324Hisfs86X (Australian Shepherd)

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

ORIVET GENETIC COMPREHENSIVE REPORT

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : HYPERURICOSURIA

Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]

Gene : Solute carrier family 2 member 9 (SLC2A9) on chromosome 3

Variant Detected : Base Substitutionc.563G>Tp.Cys188Phe

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : MULTIFOCAL RETINOPATHY CMR1 (MASTIFF/BULL BREEDS TYPE)

Result : NEGATIVE / CLEAR [NO VARIANT DETECTED][1]

Gene : Bestrophin 1 (BEST1) on chromosome 18

Variant Detected : Base Substitution c.73C>T p.Arg25STOP

We have scanned the DNA and the genotype of this animal is NORMAL - no presence of the disease associated variant (mutation) has been detected. This result may also be referred to as NORMAL, "-/-" or "wild type (WT)" or "homozygous negative". The animal is clear of the disease and will not pass on the disease-causing variant. Can be mated with an untested animal and WILL NOT produce any positive/affected offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : E LOCUS - (CREAM/RED/YELLOW)

Result : E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE[1]

Gene : MC1R

Variant Detected : Em (point mutation) > E (wild type) > e (point mutation) chr5:63694334-63694334: C>T

2 copies of black E or "extension". All areas of the coat colour eumalanin will not produce any "e" offspring. The Extension loci is responsible for the majority of non-agouti patterns.

ORIVET GENETIC COMPREHENSIVE REPORT

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : EM (MC1R) LOCUS - MELANISTIC MASK

Result : E^m/E^m - TWO MELANISTIC MASK ALLELES DEPENDS ON A and K SERIES[1]

Gene : MC1R

Variant Detected : Base Substitution G>A

2 copies of mask – dog has mask. Masks are not visible on black, brown or blue dogs. Some other coat patterns such as Merle, Harlequin and Spotting may also "hide" the mask. Some breeds are "fixed" for the mask and the genetic result will never vary.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : BROWN (345DELPRO) DELETION

Result : B^d/B^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION][1]

Gene : TYRP1

Variant Detected : Base Substitution (Point Mutation)

Does not carry the brown deletion codon. Please refer to the other brown variants to clarify potential colour for offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : BROWN (GLNT331STOP) STOP CODON

Result : B^s/B^s - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [STOP CODON][1]

Gene : TYRP1

Variant Detected : Point Mutation

Does not carry the brown stop codon. Please refer to the other brown variants to clarify potential colour for offspring.

ORIVET GENETIC COMPREHENSIVE REPORT

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : BROWN (SER41CYS) INSERTION CODON

Result : B^c/B^c - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION][1]

Gene : TYRP1

Variant Detected : Base Substitution (Point Mutation)

Does not carry the brown insertion codon. Please refer to the other brown variants to clarify potential colour for offspring.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : D (DILUTE) LOCUS

Result : D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL [1]

Gene : MLPH

Variant Detected : Base Substitution

Full colour, no dilute gene present. The D allele modifies the Melanophillin (MLPH) gene. This animal cannot produce "dilute" offspring. Please Note: There are other dilute variants d2 (Sloughi, Chow Chow & Thai Ridgeback) and rare d3 (Italian Greyhound & Chihuahua) so this test/result may not identify dilute in these breeds.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : K LOCUS (DOMINANT BLACK)

Result : K^B/K^{br} or K^B/K^y or K^{br} - CARRIES ONE COPY DOMINANT BLACK & ONE COPY of NON BLACK MAY Be BRINDLED[1]

Gene : CBD103

Variant Detected : Deletion of GGG

ORIVET GENETIC COMPREHENSIVE REPORT

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : A LOCUS (FAWN/SABLE;TRI/TAN POINTS)

Result : a^y/a^t - FAWN/RED/SABLE CARRIES TRICOLOUR/TAN POINTS[1]

Gene : ASIP

Variant Detected : Base Substitution 246 G>T(A82S); G>A (R83H): C>T (p.R96C)

Dog has fawn/sable and carries black and tan (hidden colour tri or tan points). Tri factored (Sable & White). Also referred to as "sabled red". Produces fawn or sable coat and the majority of the coat is red/yellow with some black usually intermingled within the coat. Coat colour shown is dependent on the E, K and B Locus. the ay allele is dominant over at.

Sample with Lab ID Number 19B33108 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported

Test Reported : LONG HAIR GENE (CANINE C95F)

Result : NEGATIVE - NOT SHOWING THE PHENOTYPE[1]

Gene : FGF5

Variant Detected : p.Cys95Phe c284G>T (Point Mutation)

GLOSSARY OF GENETIC TERMS (RESULTS)

The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one laboratory to the other.

NEGATIVE / CLEAR [NO VARIANT DETECTED]

No presence of the variant (mutation) has been detected. The animal is clear of the disease and will not pass on any disease-causing mutation.

CARRIER [ONE COPY OF THE VARIANT DETECTED]

This is also referred to as HETEROZYGOUS. One copy of the normal gene and copy of the affected (mutant) gene has been detected. The animal will not exhibit disease symptoms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown then it may produce an affected offspring.

POSITIVE / AT RISK [TWO COPIES OF THE VARIANT DETECTED]

Two copies of the disease gene variant (mutation) have been detected also referred to as HOMOZYGOUS for the variant. The animal may show symptoms (affected) associated with the disease. Appropriate treatment should be pursued by consulting a Veterinarian.

POSITIVE HETEROZYGOUS [ONE COPY OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE ONE COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of inheritance. One copy of the normal gene (wild type) and affected (mutant) gene is present. Appropriate treatment should be pursued by consulting a Veterinarian. This result can still be used to produce a clear offspring.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verified by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history submitted for the parents excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease requested.

NORMAL BY PEDIGREE

The sample submitted has had its parentage verified by Pedigree. The pedigree has been provided and details (genetic testing reports) of the parents have been included. Parentage could not be determined via DNA profile as no sample was submitted.

NO RESULTS AVAILABLE

Insufficient information has been provided to provide a result for this test. Sire and Dam information and/or sample may be required. This result is mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

INDETERMINABLE

The sample submitted has failed to give a conclusive result. This result is mainly due to the sample failing to "cluster" or result in the current grouping. A recollection is required at no charge.

DNA PROFILE

Also known as a DNA fingerprint. This is unique for the animal. No animal shares the same DNA profile. An individual's DNA profile is inherited from both parents and can be used for verifying parentage (pedigrees). This profile contains no disease or trait information and is simply a unique DNA signature for that animal.

GLOSSARY OF GENETIC TERMS (RESULTS)

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PARENTAGE VERIFICATION/ QUALIFIES/CONFIRMED Or DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. A result is generated and stated for all DNA parentage requests.Parentage confirmation reports can only be generated if a DNA profile has been carried out for Dam, Offspring and possible Sire/s.

PENDING

Results for this test are still being processed. Some tests are run independently and are reported at a later date. When completed, the result will be emailed. APPROVED COLLECTION METHOD (NO) The sample submitted for testing HAS NOT met the requirements recommended by member bodies for the DNA collection process.

TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hairlength, and also includes certain features such as tail length. If an individual is AFFECTED for a trait then it will show that characteristic eg.AFFECTED for the B (Brown) Locus or bb will be brown/chocolate.

POSITIVE – SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

CLARIFICATION OF GENETIC TESTING

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health.However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health.However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarifythese factors.

1) Some diseases may demonstrate signs of what Geneticists call “genetic heterogeneity”. This is a term to describe an apparently single condition that may be caused by more than one mutation and/or gene

2) It is possible that there exists more than one disease that presents in a similar fashion and segregates in a single breed. These conditions -although phenotypically similar - may be caused by separate mutations and/or genes.

3) It is possible that the disease affecting your breed may be what Geneticists call an “oligogenic disease”. This is a term to describe the existence of additional genes that may modify the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable age of onset for a particular condition, or affect the penetrance of a particular mutation such that some animals may never develop the condition.

The range of hereditary diseases continues to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any disease should be based on pedigree history, clinical signs, history (incidence) of the disease and the specific genetic test for the disease. Penetrance of a disease will always vary not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrition and environment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and phenotype also be considered when breeding.

Orivet Genetic Pet Care aims to frequently update breeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, please contact us on (03) 9534 1544 or admin@orivet.com and we will be happy to work with you to answer any relevant questions.