

Table S1. The online questionnaire used in this study

Title: Questionnaire regarding dog's behaviors and owner's feelings	
Questions	Expressions in the present study
<p>Q1. Please select one answer that applies to you.</p> <p>1 Age [teens/20s/30s/40s/50s/60s/70s/80s and over]</p> <p>2 Sex [male/female]</p> <p>3 Present residential area [urban/suburban/rural area]</p> <p>4<sup>a)</sup> Present type of residence [house with garden/house without garden/apartment]</p> <p>5<sup>b)</sup> Number of dogs in the household [1/2/more than 2]</p>	
<p>Q2. Please tell us about your dog. If you have multiple dogs, please answer about one specific dog only. Please select one answer that applies, for questions 3 to 8.</p> <p>1 Breed [ ]</p> <p>2 Age [ ] years and [ ] months/unknown (approximately [ ] years old)</p> <p>3 Body weight [less than 3 kg/3–5 kg/5–10 kg/10–15 kg/15–20 kg/20–30 kg/more than 30 kg]</p> <p>4 Sex [neutered male/intact male/neutered female/intact female] If your dog is neutered, please tell us when it was neutered: [under 6 months old/6 months to 1 year old/1 year old or more/unknown]</p> <p>5 Dog's living area [mainly inside/mainly outside/both]</p> <p>6<sup>c)</sup> Source of acquisition [pet shop/breeder/acquaintance/adopted a stray dog/adopted from Internet forum/adopted from public animal shelter/adopted from private organization/other [ ]]</p> <p>7 Age at acquisition [under 6 months old ([ ] weeks old)/6 months to 1 year old/1 year old or over/unknown]</p> <p>8<sup>d)</sup> Attitude about food [your dog eats anything without leaving anything/your dog is picky (eats only its favorite food)/your dog has little interest in food and does not eat very much]</p> <p>9<sup>d)</sup> Habits of cleaning dog's paws [usually take your dog for a walk, and wash or wipe the dog's paws after returning home every time/usually take your dog for a walk, but wash or wipe the dog's paws only on a rainy day or when the dog's paws are dirty/usually take your dog for a walk but do not wash or wipe the dog's paws/ do not take your dog for a walk]</p>	
<p>Q3. How often has your dog exhibited the following behaviors within the past 3 months? Please select one of the following: 5 = always, 4 = usually, 3 = sometimes, 2 = rarely, 1 = never, or NA = unknown or not applicable. In addition, please select one of the following regarding how troubled you are by the behavior: 4 = very troubled, 3 = moderately troubled, 2 = not really troubled or 1 = never troubled.</p>	
<p>1 Trying to eat non-food items</p> <p>2 Destroying household property (e.g., cushions and slippers) by chewing or digging</p> <p>3 Trying to chase or pounce on animals smaller than your dog</p> <p>4 Pulling on the leash while walking</p> <p>5 Sitting down and refusing to move while walking</p> <p>6 Barking when your dog hears noises (e.g., a doorbell, a ringtone, or the sound of a dish being dropped) inside the house</p> <p>7 Barking when unfamiliar people come into the house or garden</p> <p>8 Barking when your dog finds strange objects while walking</p> <p>9 Trying to attract your attention (e.g., nuzzling against you, putting its forepaw on you, or whining) if you are not looking at your dog</p> <p>10 Whining, barking, becoming restless, eliminating on inappropriate places, or exhibiting destructive behaviors before or while being separated from you</p> <p>11 Jumping on family members or strangers when your dog meets them</p> <p>12 Eliminating or marking with urine or feces on inappropriate places inside the house</p> <p>13 Exhibiting mounting behaviors, that is, thrusting its pelvis against toys, cushions, or people</p> <p>14 Chasing its tail</p> <p>15 Chasing its tail with barking, growling or biting at the tail</p> <p>16 Licking its body continuously or pulling at its own hair</p> <p>17 Staring at nothing or snapping at the air</p> <p>18 Staring at or trying to chase or pounce on lights or shadows</p>	<p>Pica</p> <p>Destructive behavior</p> <p>Chasing or jumping on small animals</p> <p>Pulling on the leash</p> <p>Refusing to move while walking</p> <p>Barking at noises inside the house</p> <p>Barking at unfamiliar visitors</p> <p>Barking at strange objects while walking</p> <p>Attention-seeking behavior</p> <p>Separation anxiety</p> <p>Jumping on people when greeting</p> <p>Inappropriate elimination or marking</p> <p>Mounting behavior</p> <p>Tail chasing</p> <p>Tail chasing with barking, growling, or biting the tail</p> <p>Excessive self-grooming</p> <p>Staring or snapping at the air</p> <p>Staring at or chasing lights or shadows</p>
<p>Q4. How often has your dog shown signs of anxiety or fear (e.g., trembling, freezing, or hiding) in the following situations within the past 3 months? Please select one of the following: 5 = always, 4 = usually, 3 = sometimes, 2 = rarely, 1 = never, or NA = unknown or not applicable. In addition, please select one of following regarding how troubled you are by the behavior: 4 = very troubled, 3 = moderately troubled, 2 = not really troubled or 1 = never troubled.</p>	
<p>1 When unfamiliar people are approaching</p> <p>2 When unfamiliar dogs are approaching</p> <p>3 When hearing a loud noise (e.g., thunder or fireworks)</p> <p>4 When being on the examination table at a veterinary clinic</p>	<p>Fear of unfamiliar approaching people</p> <p>Fear of unfamiliar approaching dogs</p> <p>Fear of loud noises, such as thunder and/or fireworks</p> <p>Showing fear while on the examination table</p>
<p>Q5. How often has your dog barked, growled aggressively at or bitten the subjects below within the past 3 months? Please select one of the following: 5 = always, 4 = usually, 3 = sometimes, 2 = rarely, 1 = never, or NA = unknown or not applicable. In addition, please select one of the following regarding how troubled you are by the behavior; 4 = very troubled, 3 = moderately troubled, 2 = not really troubled or 1 = never troubled.</p>	
<p>1 Family members</p> <p>2 Unfamiliar people</p> <p>3 Unfamiliar dogs</p>	<p>Aggression toward family members</p> <p>Aggression toward unfamiliar people</p> <p>Aggression toward unfamiliar dogs</p>
<p>Q6.<sup>d)</sup> If you are troubled by behaviors in your dog other than those listed above, please describe the behaviors.</p>	

Notes: "Expressions in the present study" was not shown in the questionnaire.

a) "House with garden" and "house without garden" are merged into the category "house".

b) Responses of "2" and "more than 2" were merged into the category of "yes" for the factor "presence of other dogs in the household".

c) "Adopted a stray dog", "adopted from an Internet forum", "adopted from a public animal shelter", and "adopted from a private organization" were merged into the "rescue" category. "Acquaintance" and "other" were merged into the "other sources" category.

d) This question was not used in the present study.

Table S2. Dogs participated in this study

Breed	Number of dogs
Shiba Inu	297
Toy Poodle	250
Miniature Dachshund	177
Chihuahua	142
Other breeds	278
Mix	69
Labrador Retriever	63
Papillon	56
Golden Retriever	55
Shih Tzu	53
Pomeranian	52
Welsh Corgi	49
Miniature Schnauzer	46
Yorkshire Terrier	39
Maltese	37
Cavalier King Charles Spaniel	37
Jack Russell Terrier	29
Border Collie	27
French Bulldog	26
Shetland Sheepdog	25
Beagle	19
Pug	16
West Highland White Terrier	15
Miniature Pinscher	15
Siberian Husky	14
American Cocker Spaniel	12
Bernese Mountain Dog	12
Italian Greyhound	9
Akita Inu	8
Kaninchen Dachshund	7
German Shepherd Dog	7
Pekingese	6
Bichon Frise	6
Kai Ken	6
Norfolk Terrier	6
Japanese Spitz	5
Bull dog	4
Cairn Terrier	4
Chin	4
Standard Dachshund	4
Whippet	4
Boston Terrier	3
Boxer	3
Brussels Griffon	3
English setter	3
Flat-coated Retriever	3
Irish setter	3
Kooikerhondje	3
Miniature Poodle	3
Rough Collie	3
Borzoi	2
English Cocker Spaniel	2
Great Pyrenees	2
Medium Poodle	2
Newfoundland	2
Old English Sheepdog	2
Samoyed	2
Standard Poodle	2
White Swiss Shepherd Dog	2
Airedale Terrier	1
Bearded Collie	1
Belgian Shephrd Dog Tervueren	1
Brittany Spaniel	1
Bull Terrier	1
Chinese Crested Dog	1
Dalmatian	1
Gratedane	1
Irish wolfhound	1
Kishu Inu	1
Lhasa Apso	1
Miniature Bull Terrier	1
Polish Lowland Sheepdog	1
Rottweiler	1
Schipperke	1
Shikoku Inu	1
Staffordshire Bull Terrier	1
Tibetan Spaniel	1
Toy Manchester Terrier	1
Weimaraner	1
Welsh Terrier	1

Table S3. Relations between 25 behaviors and dogs' general information

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McCadden)		Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value	
			(Intercept)				Lower	Upper		
Pica	2,041	0,08	Breed	0.46	0.16				4.08E-03	
			Other breeds			reference				
			Shiba Inu	-0.01	0.14	0.99	0.64	1.55	9.60E-01	
			Toy Poodle	-0.23	0.15	0.80	0.50	1.28	1.39E-01	
			Miniature Dachshund	-0.21	0.17	0.81	0.48	1.37	2.10E-01	
			Chihuahua	-0.41	0.19	0.66	0.37	1.19	3.06E-02	
			Age							
			Adult			reference				
			Young	1.86	0.29	<b>6.41</b>	2.62	15.69	1.38E-10	
			Senior	-0.71	0.12	<i>0.49</i>	0.34	0.70	7.55E-10	
			Geriatric	-0.99	0.12	<i>0.37</i>	0.25	0.55	1.35E-15	
			Other dogs in the household							
			No			reference				
			Yes	0.10	0.11	1.10	0.79	1.54	3.64E-01	
			Sex							
			Female			reference				
			Male	0.05	0.10	1.05	0.78	1.41	6.17E-01	
			Neutering status							
			Intact			reference				
			Neutered	0.39	0.12	<b>1.48</b>	1.03	2.11	8.37E-04	
			Source of acquisition							
Breeder			reference							
Pet store	0.13	0.11	1.13	0.79	1.62	2.75E-01				
Rescue	-0.27	0.18	0.76	0.44	1.31	1.18E-01				
Other sources	-0.02	0.17	0.98	0.59	1.63	8.96E-01				
Type of residence										
House			reference							
Apartment	0.02	0.11	1.02	0.72	1.44	8.52E-01				
Destructive behavior	2,040	0,12	(Intercept)	-0.21	0.16				2.01E-01	
			Breed							
			Other breeds			reference				
			Shiba Inu	0.71	0.14	<b>2.03</b>	1.30	3.16	8.17E-07	
			Toy Poodle	0.10	0.15	1.11	0.69	1.78	5.13E-01	
			Miniature Dachshund	0.35	0.18	1.42	0.82	2.46	5.11E-02	
			Chihuahua	-0.61	0.21	0.54	0.28	1.05	4.25E-03	
			Age							
			Adult			reference				
			Young	1.60	0.21	<b>4.94</b>	2.61	9.34	1.04E-14	
			Senior	-0.82	0.12	<i>0.44</i>	0.31	0.63	2.91E-12	
			Geriatric	-1.34	0.14	<i>0.26</i>	0.17	0.40	4.76E-23	
			Other dogs in the household							
			No			reference				
			Yes	-0.15	0.11	0.86	0.61	1.22	1.92E-01	
			Sex							
			Female			reference				
			Male	0.13	0.10	1.14	0.84	1.54	1.90E-01	
			Neutering status							
			Intact			reference				
			Neutered	0.10	0.12	1.11	0.77	1.60	3.85E-01	
Source of acquisition										
Breeder			reference							
Pet store	0.08	0.12	1.08	0.76	1.55	4.83E-01				
Rescue	0.11	0.18	1.11	0.63	1.95	5.55E-01				
Other sources	0.01	0.18	1.01	0.59	1.74	9.33E-01				
Type of residence										
House			reference							
Apartment	0.04	0.11	1.04	0.73	1.48	7.49E-01				
Chasing or jumping on small animals	2,017	0,06	(Intercept)	1.20	0.17				1.32E-12	
			Breed							
			Other breeds			reference				
			Shiba Inu	0.40	0.16	1.49	0.91	2.45	1.20E-02	
			Toy Poodle	-0.55	0.15	<i>0.58</i>	0.36	0.92	2.78E-04	
			Miniature Dachshund	-0.43	0.17	0.65	0.38	1.11	1.28E-02	
			Chihuahua	-0.93	0.19	<i>0.39</i>	0.22	0.71	8.15E-07	
			Age							
			Adult			reference				
			Young	-0.05	0.19	0.95	0.53	1.73	8.07E-01	
			Senior	-0.48	0.13	<i>0.62</i>	0.42	0.92	1.59E-04	
			Geriatric	-1.12	0.13	<i>0.33</i>	0.22	0.49	9.53E-18	
			Other dogs in the household							
			No			reference				
			Yes	-0.23	0.11	0.79	0.56	1.12	3.62E-02	
			Sex							
			Female			reference				
			Male	-0.03	0.10	0.97	0.71	1.33	7.87E-01	
			Neutering status							
			Intact			reference				
			Neutered	0.22	0.12	1.25	0.86	1.80	6.58E-02	
Source of acquisition										
Breeder			reference							
Pet store	0.00	0.12	1.00	0.69	1.44	1.00E+00				
Rescue	0.43	0.20	1.54	0.84	2.81	2.80E-02				
Other sources	0.11	0.17	1.12	0.66	1.91	5.12E-01				
Type of residence										
House			reference							
Apartment	-0.15	0.11	0.86	0.61	1.22	1.89E-01				

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)		Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
							Lower	Upper			
Pulling on the leash	2,037	0.08	(Intercept)	1.57	0.20				1.31E-15		
			Breed								
			Other breeds					reference			
			Shiba Inu	0.25	0.18	1.29	0.73	2.26	1.65E-01		
			Toy Poodle	-0.18	0.18	0.83	0.48	1.45	3.09E-01		
			Miniature Dachshund	-0.68	0.19	0.51	0.29	0.90	2.62E-04		
			Chihuahua	-0.64	0.21	0.53	0.28	1.02	2.54E-03		
			Age								
			Adult						reference		
			Young	0.24	0.25	1.28	0.59	2.77	3.33E-01		
			Senior	-0.32	0.15	0.73	0.45	1.16	3.39E-02		
			Geriatric	-1.37	0.14	0.25	0.16	0.40	2.53E-21		
			Other dogs in the household								
			No						reference		
			Yes	-0.25	0.13	0.78	0.53	1.14	4.27E-02		
			Sex								
			Female						reference		
			Male	0.34	0.12	1.40	0.98	2.00	3.96E-03		
			Neutering status								
			Intact						reference		
			Neutered	0.07	0.14	1.07	0.69	1.64	6.38E-01		
			Source of acquisition								
			Breeder						reference		
Pet store	0.19	0.13	1.21	0.80	1.83	1.61E-01					
Rescue	0.56	0.23	1.75	0.87	3.51	1.37E-02					
Other sources	0.32	0.20	1.37	0.75	2.52	1.04E-01					
Type of residence											
House						reference					
Apartment	0.11	0.13	1.11	0.74	1.69	4.18E-01					
Refusing to move while walking	2,034	0.02	(Intercept)	-0.22	0.15				1.50E-01		
			Breed								
			Other breeds						reference		
			Shiba Inu	0.43	0.14	1.54	1.02	2.35	1.35E-03		
			Toy Poodle	0.06	0.14	1.07	0.69	1.66	6.53E-01		
			Miniature Dachshund	0.56	0.17	1.75	1.04	2.96	9.29E-04		
			Chihuahua	0.01	0.18	1.01	0.57	1.78	9.66E-01		
			Age								
			Adult						reference		
			Young	-0.10	0.16	0.91	0.55	1.50	5.44E-01		
			Senior	0.02	0.11	1.02	0.72	1.44	8.75E-01		
			Geriatric	-0.29	0.12	0.75	0.52	1.09	1.72E-02		
			Other dogs in the household								
			No						reference		
			Yes	-0.41	0.10	0.67	0.48	0.92	8.44E-05		
			Sex								
			Female						reference		
			Male	0.07	0.09	1.07	0.81	1.42	4.54E-01		
			Neutering status								
			Intact						reference		
			Neutered	0.26	0.11	1.30	0.92	1.82	1.83E-02		
			Source of acquisition								
			Breeder						reference		
Pet store	0.10	0.11	1.11	0.80	1.54	3.41E-01					
Rescue	-0.18	0.17	0.84	0.50	1.41	2.90E-01					
Other sources	-0.18	0.16	0.83	0.51	1.37	2.59E-01					
Type of residence											
House						reference					
Apartment	0.04	0.11	1.04	0.75	1.44	7.14E-01					
Barking at noises inside the house	2,040	0.07	(Intercept)	1.01	0.18				8.28E-09		
			Breed								
			Other breeds						reference		
			Shiba Inu	-0.80	0.14	0.45	0.29	0.69	8.42E-09		
			Toy Poodle	1.23	0.22	3.43	1.75	6.71	1.52E-08		
			Miniature Dachshund	0.72	0.21	2.06	1.06	4.00	7.62E-04		
			Chihuahua	0.40	0.22	1.49	0.75	2.97	7.42E-02		
			Age								
			Adult						reference		
			Young	-0.74	0.18	0.48	0.28	0.83	3.41E-05		
			Senior	-0.07	0.13	0.93	0.62	1.41	6.03E-01		
			Geriatric	-0.68	0.14	0.50	0.33	0.77	4.47E-07		
			Other dogs in the household								
			No						reference		
			Yes	0.28	0.12	1.33	0.91	1.93	1.98E-02		
			Sex								
			Female						reference		
			Male	0.18	0.10	1.20	0.87	1.66	8.03E-02		
			Neutering status								
			Intact						reference		
			Neutered	-0.11	0.13	0.90	0.60	1.33	3.99E-01		
			Source of acquisition								
			Breeder						reference		
Pet store	0.27	0.12	1.31	0.89	1.91	2.98E-02					
Rescue	-0.45	0.18	0.64	0.37	1.11	1.25E-02					
Other sources	0.01	0.18	1.01	0.58	1.76	9.65E-01					
Type of residence											
House						reference					
Apartment	-0.05	0.12	0.95	0.65	1.39	6.91E-01					

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)			Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
				(Intercept)				Lower	Upper			
Barking at unfamiliar visitors	2,022	0.04		(Intercept)	1.21	0.18				2.76E-11		
			Breed									
				Other breeds					reference			
				Shiba Inu			-0.19	0.15	0.83	0.52	1.31	2.05E-01
				Toy Poodle			0.68	0.19	<b>1.97</b>	1.10	3.53	3.04E-04
				Miniature Dachshund			0.92	0.24	<b>2.50</b>	1.21	5.18	9.86E-05
				Chihuahua			1.11	0.28	<b>3.04</b>	1.29	7.19	6.60E-05
				Age								
				Adult					reference			
				Young			-0.60	0.18	<i>0.55</i>	0.31	0.96	8.97E-04
				Senior			-0.01	0.14	0.99	0.64	1.51	9.16E-01
				Geriatric			-0.45	0.14	<i>0.64</i>	0.41	0.99	1.40E-03
				Other dogs in the household								
				No					reference			
				Yes			0.26	0.13	1.29	0.87	1.91	4.28E-02
				Sex								
				Female					reference			
				Male			0.13	0.11	1.13	0.81	1.59	2.46E-01
				Neutering status								
				Intact					reference			
				Neutered			-0.01	0.13	0.99	0.66	1.49	9.39E-01
				Source of acquisition								
				Breeder					reference			
	Pet store			-0.01	0.13	0.99	0.66	1.46	9.13E-01			
	Rescue			-0.24	0.19	0.78	0.43	1.41	2.00E-01			
	Other sources			0.20	0.20	1.22	0.66	2.26	3.23E-01			
	Type of residence											
	House					reference						
	Apartment			-0.49	0.12	<i>0.61</i>	0.42	0.89	5.25E-05			
Barking at strange objects while walking	2,033	0.02		(Intercept)	-0.15	0.15				3.12E-01		
			Breed									
				Other breeds					reference			
				Shiba Inu			0.02	0.13	1.02	0.67	1.55	8.66E-01
				Toy Poodle			0.54	0.14	<b>1.71</b>	1.10	2.67	1.85E-04
				Miniature Dachshund			0.28	0.17	1.32	0.79	2.21	9.92E-02
				Chihuahua			0.16	0.18	1.17	0.67	2.06	3.82E-01
				Age								
				Adult					reference			
				Young			-0.51	0.17	0.60	0.36	1.00	2.18E-03
				Senior			-0.15	0.11	0.86	0.61	1.22	1.88E-01
				Geriatric			-0.42	0.12	<i>0.65</i>	0.45	0.95	4.93E-04
				Other dogs in the household								
				No					reference			
				Yes			0.21	0.10	1.24	0.90	1.70	4.03E-02
				Sex								
				Female					reference			
				Male			-0.01	0.09	0.99	0.74	1.31	8.90E-01
				Neutering status								
				Intact					reference			
				Neutered			0.00	0.11	1.00	0.71	1.40	9.85E-01
				Source of acquisition								
				Breeder					reference			
	Pet store			0.14	0.11	1.16	0.83	1.61	1.79E-01			
	Rescue			-0.34	0.17	0.71	0.42	1.22	5.27E-02			
	Other sources			0.21	0.16	1.23	0.75	2.01	1.97E-01			
	Type of residence											
	House					reference						
	Apartment			-0.18	0.11	0.84	0.60	1.16	9.38E-02			
Attention-seeking behavior	2,040	0.03		(Intercept)	1.83	0.21				< 2.00E-16		
			Breed									
				Other breeds					reference			
				Shiba Inu			-0.33	0.17	0.72	0.43	1.20	4.76E-02
				Toy Poodle			1.02	0.27	<b>2.77</b>	1.19	6.43	1.89E-04
				Miniature Dachshund			0.84	0.29	2.31	0.95	5.58	3.50E-03
				Chihuahua			-0.14	0.24	0.87	0.41	1.81	5.45E-01
				Age								
				Adult					reference			
				Young			0.18	0.25	1.19	0.55	2.61	4.82E-01
				Senior			-0.32	0.16	0.73	0.45	1.18	4.16E-02
				Geriatric			-0.57	0.16	<i>0.57</i>	0.34	0.93	4.36E-04
				Other dogs in the household								
				No					reference			
				Yes			-0.04	0.14	0.96	0.62	1.48	7.74E-01
				Sex								
				Female					reference			
				Male			-0.10	0.13	0.90	0.61	1.33	4.09E-01
				Neutering status								
				Intact					reference			
				Neutered			-0.02	0.15	0.98	0.61	1.57	8.85E-01
				Source of acquisition								
				Breeder					reference			
	Pet store			0.16	0.15	1.18	0.75	1.86	2.68E-01			
	Rescue			-0.17	0.22	0.84	0.43	1.64	4.34E-01			
	Other sources			0.25	0.22	1.29	0.64	2.57	2.63E-01			
	Type of residence											
	House					reference						
	Apartment			0.09	0.15	1.09	0.68	1.74	5.66E-01			

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)			Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
			(Intercept)					Lower	Upper			
Separation anxiety	2,008	0.04	(Intercept)		-0.29	0.16				6.24E-02		
			Breed									
			Other breeds						reference			
			Shiba Inu				-0.45	0.15	0.64	0.40	1.01	2.55E-03
			Toy Poodle				0.29	0.15	1.34	0.85	2.10	4.61E-02
			Miniature Dachshund				0.75	0.17	<b>2.12</b>	1.26	3.57	8.11E-06
			Chihuahua				-0.38	0.20	0.68	0.37	1.26	5.43E-02
			Age									
			Adult						reference			
			Young				0.46	0.17	1.59	0.95	2.66	5.11E-03
			Senior				-0.27	0.12	0.77	0.53	1.11	2.51E-02
			Geriatric				-0.07	0.13	0.93	0.63	1.37	5.68E-01
			Other dogs in the household									
			No						reference			
			Yes				0.19	0.11	1.21	0.87	1.68	7.71E-02
			Sex									
			Female						reference			
			Male				0.28	0.09	1.33	0.99	1.78	2.96E-03
			Neutering status									
			Intact						reference			
Neutered				-0.46	0.11	<i>0.63</i>	0.44	0.89	3.36E-05			
Source of acquisition												
Breeder						reference						
Pet store				-0.02	0.11	0.98	0.69	1.39	8.67E-01			
Rescue				0.10	0.17	1.10	0.64	1.89	5.69E-01			
Other sources				0.05	0.17	1.05	0.63	1.74	7.81E-01			
Type of residence												
House						reference						
Apartment				0.03	0.11	1.03	0.73	1.45	7.88E-01			
Jumping on people when greeting	2,043	0.08	(Intercept)		1.04	0.17				4.88E-10		
			Breed									
			Other breeds						reference			
			Shiba Inu				-0.21	0.14	0.81	0.52	1.26	1.38E-01
			Toy Poodle				0.11	0.16	1.11	0.68	1.83	5.01E-01
			Miniature Dachshund				0.05	0.18	1.06	0.61	1.83	7.63E-01
			Chihuahua				-1.04	0.19	<i>0.35</i>	0.20	0.63	3.76E-08
			Age									
			Adult						reference			
			Young				0.64	0.21	1.91	0.98	3.70	2.70E-03
			Senior				-0.44	0.12	<i>0.64</i>	0.44	0.94	2.77E-04
			Geriatric				-1.32	0.13	<i>0.27</i>	0.18	0.40	3.30E-25
			Other dogs in the household									
			No						reference			
			Yes				-0.09	0.11	0.91	0.65	1.28	4.06E-01
			Sex									
			Female						reference			
			Male				0.17	0.10	1.19	0.88	1.61	8.00E-02
			Neutering status									
			Intact						reference			
Neutered				-0.10	0.12	0.90	0.62	1.31	3.92E-01			
Source of acquisition												
Breeder						reference						
Pet store				0.21	0.12	1.23	0.86	1.77	7.13E-02			
Rescue				-0.17	0.18	0.85	0.49	1.46	3.44E-01			
Other sources				0.01	0.17	1.02	0.60	1.71	9.30E-01			
Type of residence												
House						reference						
Apartment				0.02	0.11	1.02	0.72	1.46	8.50E-01			
Inappropriate elimination or marking	2,035	0.05	(Intercept)		-0.63	0.16				6.66E-05		
			Breed									
			Other breeds						reference			
			Shiba Inu				-0.58	0.15	<i>0.56</i>	0.35	0.89	1.20E-04
			Toy Poodle				0.53	0.14	<b>1.69</b>	1.08	2.65	2.72E-04
			Miniature Dachshund				0.79	0.17	<b>2.21</b>	1.30	3.74	3.57E-06
			Chihuahua				0.32	0.18	1.38	0.78	2.44	7.90E-02
			Age									
			Adult						reference			
			Young				0.74	0.17	<b>2.09</b>	1.25	3.48	8.65E-06
			Senior				-0.07	0.12	0.93	0.64	1.34	5.39E-01
			Geriatric				0.57	0.12	<b>1.76</b>	1.20	2.59	5.06E-06
			Other dogs in the household									
			No						reference			
			Yes				0.27	0.11	1.31	0.94	1.81	1.14E-02
			Sex									
			Female						reference			
			Male				0.20	0.09	1.22	0.91	1.64	3.31E-02
			Neutering status									
			Intact						reference			
Neutered				-0.37	0.11	<i>0.69</i>	0.49	0.98	9.42E-04			
Source of acquisition												
Breeder						reference						
Pet store				0.10	0.11	1.10	0.78	1.56	3.85E-01			
Rescue				-0.08	0.18	0.92	0.53	1.60	6.56E-01			
Other sources				0.01	0.17	1.01	0.61	1.69	9.45E-01			
Type of residence												
House						reference						
Apartment				0.16	0.11	1.18	0.84	1.65	1.33E-01			

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)			Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
			(Intercept)					Lower	Upper			
Mounting behavior	2,045	0.07	(Intercept)		-0.18	0.16				2.54E-01		
			Breed									
				Other breeds					reference			
				Shiba Inu			0.53	0.14	<b>1.70</b>	1.11	2.61	1.33E-04
				Toy Poodle			0.78	0.15	<b>2.19</b>	1.38	3.47	1.80E-07
				Miniature Dachshund			0.41	0.17	1.51	0.89	2.59	1.67E-02
				Chihuahua			0.74	0.19	<b>2.09</b>	1.16	3.75	1.04E-04
				Age								
				Adult					reference			
				Young			-0.11	0.17	0.89	0.53	1.50	5.04E-01
				Senior			-0.08	0.12	0.92	0.64	1.32	4.74E-01
				Geriatric			-0.66	0.13	<b>0.52</b>	0.35	0.77	2.57E-07
				Other dogs in the household								
				No					reference			
				Yes			-0.57	0.11	<b>0.57</b>	0.41	0.79	1.43E-07
				Sex								
				Female					reference			
				Male			0.61	0.09	<b>1.85</b>	1.38	2.47	7.23E-11
				Neutering status								
				Intact					reference			
	Neutered			-0.48	0.11	<b>0.62</b>	0.44	0.88	2.60E-05			
	Source of acquisition											
	Breeder					reference						
	Pet store			0.40	0.11	<b>1.50</b>	1.06	2.11	2.87E-04			
	Rescue			-0.06	0.18	0.94	0.55	1.64	7.49E-01			
	Other sources			0.08	0.17	1.09	0.65	1.82	6.19E-01			
	Type of residence											
	House					reference						
	Apartment			0.01	0.11	1.01	0.72	1.42	9.17E-01			
Tail chasing	2,036	0.09	(Intercept)		-0.72	0.17				2.43E-05		
Tail chasing with barking, growling, or biting the tail	2,025	0.08	Breed									
				Other breeds								
				Shiba Inu			1.24	0.14	<b>3.47</b>	2.24	5.37	1.64E-18
				Toy Poodle			-0.62	0.18	<b>0.54</b>	0.31	0.93	5.15E-04
				Miniature Dachshund			-0.46	0.21	0.63	0.33	1.22	3.13E-02
				Chihuahua			-0.20	0.21	0.82	0.43	1.58	3.49E-01
				Age								
				Adult					reference			
				Young			0.54	0.17	<b>1.72</b>	1.02	2.90	1.23E-03
				Senior			-0.50	0.13	<b>0.60</b>	0.41	0.89	7.05E-05
				Geriatric			-0.78	0.14	<b>0.46</b>	0.29	0.71	5.95E-08
				Other dogs in the household								
				No					reference			
				Yes			-0.47	0.12	<b>0.62</b>	0.43	0.91	1.13E-04
				Sex								
				Female					reference			
				Male			-0.14	0.10	0.87	0.63	1.20	1.76E-01
				Neutering status								
				Intact					reference			
				Neutered			0.00	0.12	1.00	0.68	1.47	9.81E-01
	Source of acquisition											
	Breeder					reference						
	Pet store			0.39	0.12	<b>1.47</b>	1.01	2.15	1.70E-03			
	Rescue			0.23	0.19	1.25	0.69	2.27	2.37E-01			
	Other sources			-0.01	0.19	0.99	0.54	1.80	9.45E-01			
	Type of residence											
	House					reference						
	Apartment			0.13	0.12	1.13	0.79	1.64	2.92E-01			
Tail chasing with barking, growling, or biting the tail	2,025	0.08	(Intercept)		-2.09	0.23				< 2.00E-16		
Tail chasing with barking, growling, or biting the tail	2,025	0.08	Breed									
				Other breeds								
				Shiba Inu			1.19	0.16	<b>3.28</b>	1.99	5.43	2.78E-13
				Toy Poodle			-0.86	0.29	<b>0.42</b>	0.18	1.02	2.62E-03
				Miniature Dachshund			-0.20	0.28	0.82	0.34	1.96	4.72E-01
				Chihuahua			-0.23	0.30	0.80	0.31	2.02	4.47E-01
				Age								
				Adult					reference			
				Young			0.70	0.20	<b>2.01</b>	1.09	3.72	4.30E-04
				Senior			-0.52	0.17	<b>0.60</b>	0.35	1.02	2.68E-03
				Geriatric			-0.61	0.19	<b>0.54</b>	0.30	0.98	1.33E-03
				Other dogs in the household								
				No					reference			
				Yes			-0.34	0.17	0.71	0.43	1.18	3.75E-02
				Sex								
				Female					reference			
				Male			-0.03	0.13	0.97	0.64	1.47	8.42E-01
				Neutering status								
				Intact					reference			
				Neutered			0.14	0.16	1.15	0.70	1.89	3.92E-01
	Source of acquisition											
	Breeder					reference						
	Pet store			0.39	0.16	1.47	0.89	2.46	1.85E-02			
	Rescue			0.61	0.24	1.84	0.86	3.91	1.26E-02			
	Other sources			0.50	0.24	1.65	0.78	3.52	4.03E-02			
	Type of residence											
	House					reference						
	Apartment			-0.09	0.16	0.91	0.55	1.50	5.60E-01			

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)			Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
				(Intercept)				Lower	Upper			
Excessive self-grooming	2,045	0.03		(Intercept)	0.34	0.16				3.24E-02		
			Breed									
				Other breeds					reference			
				Shiba Inu	0.36	0.15	1.43	0.91	2.25	1.48E-02		
				Toy Poodle	0.42	0.16	1.52	0.94	2.46	7.66E-03		
				Miniature Dachshund	0.11	0.18	1.11	0.65	1.92	5.41E-01		
				Chihuahua	0.13	0.19	1.14	0.63	2.06	5.04E-01		
				Age								
				Adult					reference			
				Young	-0.53	0.16	0.59	0.35	0.97	1.08E-03		
				Senior	0.25	0.12	1.28	0.88	1.85	3.93E-02		
				Geriatric	0.27	0.13	1.31	0.88	1.95	3.45E-02		
				Other dogs in the household								
				No					reference			
				Yes	-0.51	0.11	0.60	0.44	0.84	1.62E-06		
				Sex								
				Female					reference			
				Male	-0.02	0.10	0.98	0.73	1.31	8.15E-01		
				Neutering status								
				Intact					reference			
				Neutered	0.21	0.11	1.24	0.87	1.75	6.01E-02		
				Source of acquisition								
				Breeder					reference			
	Pet store	0.25	0.11	1.29	0.91	1.82	2.44E-02					
	Rescue	-0.03	0.17	0.97	0.57	1.67	8.78E-01					
	Other sources	0.00	0.17	1.00	0.60	1.66	9.83E-01					
	Type of residence											
	House					reference						
	Apartment	-0.09	0.11	0.92	0.65	1.29	4.44E-01					
Staring or snapping at the air	2,012	0.01		(Intercept)	-1.10	0.17				1.19E-10		
			Breed									
				Other breeds					reference			
				Shiba Inu	0.42	0.14	1.53	0.98	2.39	3.18E-03		
				Toy Poodle	-0.13	0.17	0.88	0.53	1.47	4.45E-01		
				Miniature Dachshund	0.18	0.18	1.20	0.68	2.09	3.25E-01		
				Chihuahua	-0.22	0.22	0.80	0.41	1.56	3.03E-01		
				Age								
				Adult					reference			
				Young	0.07	0.18	1.07	0.61	1.89	7.05E-01		
				Senior	0.07	0.13	1.07	0.72	1.59	5.89E-01		
				Geriatric	0.26	0.13	1.29	0.86	1.95	5.50E-02		
				Other dogs in the household								
				No					reference			
				Yes	-0.19	0.12	0.82	0.57	1.18	9.96E-02		
				Sex								
				Female					reference			
				Male	0.09	0.10	1.09	0.80	1.50	3.88E-01		
				Neutering status								
				Intact					reference			
				Neutered	-0.08	0.12	0.92	0.63	1.34	4.92E-01		
				Source of acquisition								
				Breeder					reference			
	Pet store	-0.04	0.12	0.97	0.66	1.40	7.72E-01					
	Rescue	0.22	0.18	1.25	0.70	2.20	2.35E-01					
	Other sources	0.13	0.18	1.13	0.66	1.95	4.76E-01					
	Type of residence											
	House					reference						
	Apartment	0.11	0.12	1.12	0.78	1.61	3.41E-01					
Staring at or chasing lights or shadows	1,988	0.02		(Intercept)	-1.21	0.19				3.02E-10		
			Breed									
				Other breeds					reference			
				Shiba Inu	0.33	0.16	1.39	0.85	2.28	3.77E-02		
				Toy Poodle	-0.23	0.19	0.80	0.44	1.44	2.38E-01		
				Miniature Dachshund	-0.25	0.23	0.78	0.38	1.60	2.82E-01		
				Chihuahua	-0.46	0.26	0.63	0.28	1.42	7.95E-02		
				Age								
				Adult					reference			
				Young	0.19	0.19	1.21	0.67	2.20	3.13E-01		
				Senior	-0.25	0.14	0.78	0.50	1.21	7.62E-02		
				Geriatric	-0.50	0.16	0.61	0.37	1.00	2.09E-03		
				Other dogs in the household								
				No					reference			
				Yes	-0.25	0.14	0.78	0.51	1.20	7.40E-02		
				Sex								
				Female					reference			
				Male	-0.15	0.12	0.86	0.60	1.24	2.05E-01		
				Neutering status								
				Intact					reference			
				Neutered	0.07	0.14	1.08	0.70	1.66	6.01E-01		
				Source of acquisition								
				Breeder					reference			
	Pet store	0.04	0.14	1.04	0.68	1.59	7.61E-01					
	Rescue	-0.17	0.22	0.84	0.42	1.68	4.38E-01					
	Other sources	0.02	0.21	1.02	0.54	1.95	9.06E-01					
	Type of residence											
	House					reference						
	Apartment	0.06	0.13	1.06	0.70	1.60	6.80E-01					



Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)		Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
							Lower	Upper			
Fear of unfamiliar approaching people	2,023	0.04	(Intercept)	-0.38	0.16				1.77E-02		
			Breed								
			Other breeds					reference			
			Shiba Inu			-0.12	0.15	0.89	0.56	1.39	4.12E-01
			Toy Poodle			0.57	0.15	<b>1.77</b>	1.13	2.78	8.36E-05
			Miniature Dachshund			0.92	0.17	<b>2.51</b>	1.49	4.23	5.78E-08
			Chihuahua			0.90	0.19	<b>2.47</b>	1.39	4.38	1.20E-06
			Age								
			Adult								
			Young			-0.18	0.17	0.84	0.49	1.41	2.93E-01
			Senior			-0.26	0.12	0.77	0.54	1.11	2.86E-02
			Geriatric			-0.44	0.13	<i>0.64</i>	0.43	0.95	5.57E-04
			Other dogs in the household								
			No								
			Yes			-0.12	0.11	0.89	0.64	1.24	2.82E-01
			Sex								
			Female								
			Male			-0.32	0.10	<i>0.72</i>	0.54	0.97	7.05E-04
			Neutering status								
			Intact								
			Neutered			0.08	0.12	1.08	0.75	1.54	5.11E-01
			Source of acquisition								
			Breeder								
Pet store			-0.19	0.11	0.83	0.59	1.17	9.63E-02			
Rescue			0.67	0.17	<b>1.95</b>	1.15	3.32	9.29E-05			
Other sources			-0.06	0.17	0.94	0.56	1.58	7.03E-01			
Type of residence											
House											
Apartment			0.05	0.11	1.05	0.75	1.48	6.55E-01			
Fear of unfamiliar approaching dogs	2,023	0.04	(Intercept)	0.17	0.15				2.82E-01		
			Breed								
			Other breeds								
			Shiba Inu			-0.64	0.14	<i>0.53</i>	0.34	0.81	4.34E-06
			Toy Poodle			0.50	0.15	<b>1.65</b>	1.05	2.60	6.44E-04
			Miniature Dachshund			0.82	0.18	<b>2.27</b>	1.31	3.93	4.40E-06
			Chihuahua			0.44	0.19	1.56	0.87	2.77	1.82E-02
			Age								
			Adult								
			Young			-0.34	0.17	0.71	0.43	1.19	4.17E-02
			Senior			0.16	0.11	1.17	0.82	1.67	1.72E-01
			Geriatric			-0.20	0.12	0.82	0.56	1.19	9.70E-02
			Other dogs in the household								
			No								
			Yes			-0.40	0.10	<i>0.67</i>	0.48	0.93	1.37E-04
			Sex								
			Female								
			Male			-0.41	0.09	<i>0.67</i>	0.50	0.89	1.31E-05
			Neutering status								
			Intact								
			Neutered			0.10	0.11	1.10	0.78	1.56	3.73E-01
			Source of acquisition								
			Breeder								
Pet store			0.24	0.11	1.28	0.91	1.79	2.60E-02			
Rescue			0.18	0.17	1.20	0.71	2.03	2.89E-01			
Other sources			-0.12	0.16	0.89	0.54	1.47	4.62E-01			
Type of residence											
House											
Apartment			-0.04	0.11	0.96	0.69	1.34	6.86E-01			
Fear of loud noises, such as thunder and/or fireworks	2,005	0.01	(Intercept)	0.56	0.16				3.17E-04		
			Breed								
			Other breeds								
			Shiba Inu			0.05	0.14	1.05	0.69	1.61	7.18E-01
			Toy Poodle			0.21	0.15	1.23	0.78	1.95	1.61E-01
			Miniature Dachshund			-0.13	0.17	0.88	0.52	1.48	4.50E-01
			Chihuahua			0.32	0.19	1.37	0.76	2.49	1.00E-01
			Age								
			Adult								
			Young			-0.36	0.17	0.70	0.42	1.17	3.29E-02
			Senior			0.26	0.12	1.30	0.91	1.86	2.46E-02
			Geriatric			-0.18	0.12	0.84	0.58	1.22	1.48E-01
			Other dogs in the household								
			No								
			Yes			-0.19	0.10	0.83	0.60	1.14	7.26E-02
			Sex								
			Female								
			Male			-0.23	0.09	0.79	0.59	1.06	1.30E-02
			Neutering status								
			Intact								
			Neutered			-0.05	0.11	0.96	0.68	1.35	6.88E-01
			Source of acquisition								
			Breeder								
Pet store			0.03	0.11	1.03	0.73	1.44	8.00E-01			
Rescue			0.19	0.17	1.21	0.71	2.08	2.70E-01			
Other sources			0.06	0.16	1.06	0.64	1.76	7.30E-01			
Type of residence											
House											
Apartment			-0.05	0.11	0.95	0.68	1.33	6.63E-01			

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)	Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
						Lower	Upper			
Showing fear while on the examination table	2,040	0.03	(Intercept)	0.79	0.17				1.65E-06	
			Breed							
			Other breeds			reference				
			Shiba Inu	0.54	0.16	<b>1.72</b>	1.05	2.80	6.71E-04	
			Toy Poodle	0.40	0.16	1.49	0.90	2.47	1.45E-02	
			Miniature Dachshund	0.27	0.19	1.31	0.73	2.35	1.59E-01	
			Chihuahua	0.49	0.21	1.64	0.84	3.18	2.12E-02	
			Age							
			Adult			reference				
			Young	-0.51	0.17	0.60	0.36	1.00	2.12E-03	
			Senior	0.25	0.13	1.28	0.87	1.89	4.87E-02	
			Geriatric	0.33	0.14	1.38	0.90	2.12	1.81E-02	
			Other dogs in the household							
			No			reference				
			Yes	-0.29	0.11	0.75	0.53	1.06	9.22E-03	
			Sex							
			Female			reference				
			Male	-0.28	0.10	0.75	0.55	1.03	5.40E-03	
			Neutering status							
			Intact			reference				
			Neutered	0.07	0.12	1.07	0.74	1.55	5.77E-01	
			Source of acquisition							
			Breeder			reference				
Pet store	-0.06	0.12	0.94	0.65	1.36	6.11E-01				
Rescue	0.38	0.20	1.46	0.80	2.67	5.36E-02				
Other sources	0.17	0.18	1.19	0.68	2.09	3.43E-01				
Type of residence										
House			reference							
Apartment	0.11	0.12	1.11	0.77	1.61	3.70E-01				
Aggression toward family members	2,046	0.04	(Intercept)	-1.33	0.17				9.39E-15	
			Breed							
			Other breeds			reference				
			Shiba Inu	0.74	0.14	<b>2.11</b>	1.36	3.25	1.25E-07	
			Toy Poodle	0.59	0.15	<b>1.81</b>	1.14	2.88	8.27E-05	
			Miniature Dachshund	-0.12	0.20	0.89	0.48	1.64	5.40E-01	
			Chihuahua	0.76	0.19	<b>2.15</b>	1.20	3.84	4.87E-05	
			Age							
			Adult			reference				
			Young	-0.04	0.17	0.96	0.56	1.64	8.00E-01	
			Senior	-0.31	0.12	0.73	0.50	1.07	1.18E-02	
			Geriatric	-0.38	0.14	0.69	0.45	1.04	5.63E-03	
			Other dogs in the household							
			No			reference				
			Yes	-0.32	0.12	0.73	0.51	1.05	7.00E-03	
			Sex							
			Female			reference				
			Male	0.35	0.10	<b>1.41</b>	1.03	1.93	6.13E-04	
			Neutering status							
			Intact			reference				
			Neutered	0.09	0.12	1.09	0.75	1.58	4.69E-01	
			Source of acquisition							
			Breeder			reference				
Pet store	0.38	0.12	<b>1.47</b>	1.01	2.13	1.37E-03				
Rescue	-0.03	0.20	0.97	0.52	1.80	8.73E-01				
Other sources	0.29	0.18	1.34	0.77	2.34	1.02E-01				
Type of residence										
House			reference							
Apartment	-0.03	0.12	0.97	0.68	1.39	7.80E-01				
Aggression toward unfamiliar people	2,026	0.03	(Intercept)	-0.32	0.16				4.07E-02	
			Breed							
			Other breeds			reference				
			Shiba Inu	-0.22	0.14	0.80	0.52	1.24	1.22E-01	
			Toy Poodle	0.09	0.15	1.09	0.69	1.71	5.54E-01	
			Miniature Dachshund	0.37	0.17	1.44	0.86	2.43	2.84E-02	
			Chihuahua	1.15	0.19	<b>3.15</b>	1.75	5.68	1.78E-09	
			Age							
			Adult			reference				
			Young	-0.51	0.17	0.60	0.35	1.03	3.26E-03	
			Senior	-0.02	0.11	0.98	0.69	1.40	8.63E-01	
			Geriatric	-0.25	0.12	0.78	0.53	1.14	4.53E-02	
			Other dogs in the household							
			No			reference				
			Yes	-0.09	0.11	0.92	0.66	1.27	4.03E-01	
			Sex							
			Female			reference				
			Male	0.21	0.09	1.23	0.92	1.64	2.61E-02	
			Neutering status							
			Intact			reference				
			Neutered	-0.16	0.11	0.85	0.60	1.20	1.42E-01	
			Source of acquisition							
			Breeder			reference				
Pet store	0.05	0.11	1.05	0.74	1.47	6.77E-01				
Rescue	0.29	0.17	1.33	0.79	2.25	9.35E-02				
Other sources	0.33	0.16	1.39	0.84	2.30	4.11E-02				
Type of residence										
House			reference							
Apartment	-0.25	0.11	0.78	0.56	1.10	2.48E-02				

Table S3. Relations between 25 behaviors and dogs' general information (Continued)

Behavior	Number of dogs	Pseudo R <sup>2</sup> (McFadden)		Estimate (B)	Standard Errors	Odds ratio (ExpB)	99.8% CI for ExpB		P value		
							Lower	Upper			
Aggression toward unfamiliar dogs	2,028	0.02	(Intercept)	-0.13	0.15				3.77E-01		
			Breed								
			Other breeds					reference			
			Shiba Inu	0.18	0.13	1.20	0.79	1.82	1.83E-01		
			Toy Poodle	-0.02	0.14	0.98	0.63	1.52	8.80E-01		
			Miniature Dachshund	-0.01	0.17	0.99	0.59	1.65	9.31E-01		
			Chihuahua	0.48	0.19	1.62	0.90	2.90	1.11E-02		
			Age								
			Adult						reference		
			Young	-0.79	0.17	<i>0.45</i>	0.27	0.76	2.83E-06		
			Senior	0.14	0.11	1.15	0.81	1.63	2.17E-01		
			Geriatric	-0.10	0.12	0.91	0.63	1.32	4.19E-01		
			Other dogs in the household								
			No						reference		
			Yes	0.03	0.10	1.03	0.75	1.42	7.70E-01		
			Sex								
			Female						reference		
			Male	0.23	0.09	1.26	0.95	1.67	1.10E-02		
			Neutering status								
			Intact						reference		
			Neutered	0.08	0.11	1.08	0.77	1.52	4.61E-01		
			Source of acquisition								
			Breeder						reference		
			Pet store	0.00	0.11	1.00	0.72	1.40	9.70E-01		
			Rescue	0.13	0.17	1.13	0.68	1.91	4.52E-01		
			Other sources	0.36	0.16	1.44	0.87	2.38	2.49E-02		
			Type of residence								
House						reference					
Apartment	-0.02	0.11	0.98	0.71	1.36	8.81E-01					

Notes: Significance level:  $P < 0.002$ .

Odds ratios  $> 1$  are bolded and in red .

Odds ratios  $< 1$  are italicized and in blue.