

WHISPERS OF DAËNERYS DES GOUPI...

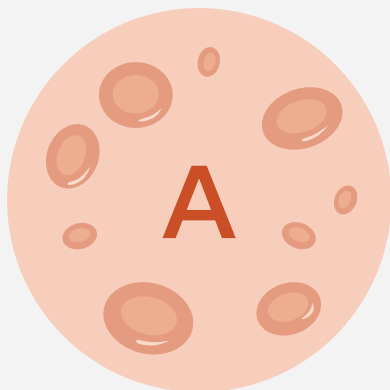
SOMALI

Microchip number: 900113003165717
ID kit: FCQVGJK

Test date: 2025-09-12
French Cat Club



Blood Type



Blood type

Type A (Most common)

Genotype*

A/A

Transfusion risk

⚠ Moderate

WHISPERS OF DAËNERYS DES GOUPILS DES CINQ CLOCHERS has the most common blood type. She can be transfused with Type A blood.

Breeding risk

✅ Low

If breeding, WHISPERS OF DAËNERYS DES GOUPILS DES CINQ CLOCHERS has a low risk of blood type incompatibility with nursing kittens.

Blood variants tested*

Variant Tested	Description	Copies
b variant 1	(Common b variant)	0
b variant 2	(Discovered in Turkish breeds)	0
b variant 3	(Discovered in Ragdolls)	0
c variant - Causes AB Blood Type	(Discovered in Ragdolls)	0

*This test identifies three known 'b' variants and one known 'c' variant in the CMAH gene when determining a cat's genetic blood type. Blood Type A is inferred in reporting when less than two genetic blood variants are detected.

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Interpreting feline blood types

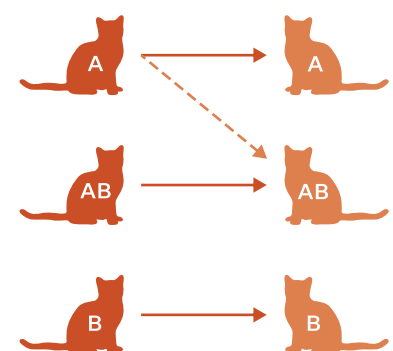
About blood type determination

The three important feline blood types of A, B, and AB are governed primarily by variants in the CMAH gene. A cat's blood type can be determined by its genotype, which consists of two gene variants – one inherited from each parent – that should be interpreted together. When determining blood type based on genotype, the A variant associated with blood type A is most dominant while the b variants associated with blood type B are most recessive. The c variant associated with blood type AB is intermediate between the A and b variants, meaning it is recessive to the A variant but dominant to b variants. Therefore, a genotype with at least one A variant will result in blood type A. For a cat to have blood type B, the genotype must consist of two b variants. Because the c variant is intermediate, a cat with blood type AB can either have a genotype consisting of two c variants or one c variant and one b variant.

About transfusion risk

Similar to humans, the different cat blood types will express different antigens on the surface of their red blood cells. This is significant because both type A and B cats are born with antibodies against other blood cell antigens. Notably, type B cats have high levels of antibodies against type A antigens. Cats with the rare blood type AB are most versatile as they express both red cell antigen types and, thus, can receive both type A and type AB blood transfusions.

Unlike humans, there is no cat blood type that can act as a universal blood donor. If a cat receives a non-compatible blood type during a transfusion, it may cause a severe, life-threatening reaction including fever, kidney failure, and widespread destruction of red blood cells. Prior to all transfusions, cats should be serologically typed and crossmatched to ensure compatibility.



→ Whole blood compatible
- - - → Packed red blood cells recommended

About breeding risk

During pregnancy, kittens are shielded from their mother's immune system. However, when kittens begin nursing, they receive some of their mother's antibodies in colostrum. Type B cats have high levels of antibodies against type A blood, so when blood type A or AB kittens are born to a blood type B mother, these antibodies, when absorbed by the newborn kitten, cause neonatal isoerythrolysis, a potentially fatal destruction of the kitten's red blood cells. Kittens of type B mothers with fathers of unknown or type A blood should be bottle fed or foster-nursed, and separated from their mother for the first 24 hours to avoid this reaction, unless blood typing performed immediately following birth shows the kitten to have a compatible blood type to the mother.

Although some blood types are less common and require additional planning when breeding, they represent normal genetic variation and should not be selected against when choosing breeding pairs.

Current limits of this test

This test identifies 4 variants (b variants c.269T>A, c.179G>T, c.1233delT and c variant c.346C>T) in the CMAH gene discovered in the domestic cat population and has been confirmed 99% concordant with serologic blood typing¹. Mik antigens also play a role in blood type compatibility, and are not included in this test. Cats carrying undetermined, new, or undiscovered variants in CMAH or other genes may have a different blood type compatibility than that reported by this test. Accuracy of this test at predicting blood type in wildcats or wildcat hybrid breeds has not been determined.

1. Anderson H, Davison S, Lytle KM, Honkanen L, et al. Genetic epidemiology of blood type, disease and trait variants, and genome-wide genetic diversity in over 11,000 domestic cats (2022) PLOS Genetics.

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Genetic Profile

SNP - ISAG 2020 Panel 1

1	Chr_A1.8645803	G/G	38	Chr_B2.39410270	-/-	75	Chr_D1.155108396	G/G
2	Chr_A1.13728185	A/G	39	Chr_B2.44526758	A/G	76	Chr_D2.3920915	A/G
3	Chr_A1.35096216	A/A	40	Chr_B2.112725014	A/G	77	Chr_D2.63390925	A/G
4	Chr_A1.90886901	A/C	41	Chr_B2.127806414	A/G	78	Chr_D2.70137294	G/G
5	Chr_A1.147652232	A/A	42	Chr_B2.144270294	A/G	79	Chr_D2.82255010	A/G
6	Chr_A1.161489899	G/G	43	Chr_B3.15158039	G/G	80	Chr_D2.93650111	C/C
7	Chr_A1.182274661	G/G	44	Chr_B3.44006038	A/G	81	Chr_D3.1874324	C/C
8	Chr_A1.203180122	A/A	45	Chr_B3.69408089	G/G	82	Chr_D3.25103574	G/G
9	Chr_A1.225272697	G/G	46	Chr_B3.103519744	G/G	83	Chr_D3.60188001	A/A
10	Chr_A1.254445788	A/A	47	Chr_B3.108594864	A/G	84	Chr_D4.13485526	A/A
11	Chr_A1.277751565	A/G	48	Chr_B4.6940122	A/G	85	Chr_D4.36752454	A/A
12	Chr_A2.14510517	A/A	49	Chr_B4.27583384	G/G	86	Chr_D4.42413266	A/C
13	Chr_A2.21472877	G/G	50	Chr_B4.77313232	A/G	87	Chr_D4.52346148	A/A
14	Chr_A2.33979426	G/G	51	Chr_B4.93595346	A/G	88	Chr_D4.98825532	A/A
15	Chr_A2.65750322	A/A	52	Chr_B4.112927129	A/A	89	Chr_E1.7439176	A/C
16	Chr_A2.96523276	A/A	53	Chr_B4.129718002	A/A	90	Chr_E1.40338965	G/G
17	Chr_A2.105639377	C/C	54	Chr_C1.35353868	A/G	91	Chr_E1.69446066	A/A
18	Chr_A2.127940273	G/G	55	Chr_C1.56297389	G/G	92	Chr_E2.33619241	A/G
19	Chr_A2.171182940	C/C	56	Chr_C1.76501424	A/G	93	Chr_E2.72592582	A/A
20	Chr_A2.177549293	G/G	57	Chr_C1.132987869	A/A	94	Chr_E3.15324152	G/G
21	Chr_A2.217930062	G/G	58	Chr_C1.156688949	G/G	95	Chr_E3.35126702	A/G
22	Chr_A3.2835846	A/A	59	Chr_C1.170053490	A/G	96	Chr_E3.68341106	A/G
23	Chr_A3.15528070	A/G	60	Chr_C1.199526609	G/G	97	Chr_F1.2018000	G/G
24	Chr_A3.28113236	A/A	61	Chr_C1.211548622	G/G	98	Chr_F1.24753896	A/T
25	Chr_A3.35789415	A/G	62	Chr_C1.227709958	G/G	99	Chr_F1.35115194	G/G
26	Chr_A3.98497082	A/G	63	Chr_C2.2254710	A/G	100	Chr_F1.60720527	G/G
27	Chr_A3.117471748	A/A	64	Chr_C2.13376232	C/C	101	Chr_F2.11898988	G/G
28	Chr_A3.139708979	A/G	65	Chr_C2.32881044	A/A	102	Chr_F2.20222767	A/G
29	Chr_B1.13362	G/G	66	Chr_C2.68311280	C/C	103	Chr_F2.29161378	G/G
30	Chr_B1.15122664	A/C	67	Chr_C2.81863545	G/G	104	Chr_F2.47823420	A/G
31	Chr_B1.29329084	G/G	68	Chr_C2.140853350	A/A	105	Chr_F2.67965848	G/G
32	Chr_B1.56679059	A/A	69	Chr_C2.153875641	A/G	106	Chr_F2.73327273	A/A
33	Chr_B1.69970470	A/A	70	Chr_D1.4801928	A/A	107	Chr_X.5996958	A/A
34	Chr_B1.100153958	A/G	71	Chr_D1.17333694	G/G	108	Chr_X.49536490	C/C
35	Chr_B1.137984657	A/A	72	Chr_D1.31840413	A/A	109	Chr_X.109143347	A/A
36	Chr_B1.194730318	C/C	73	Chr_D1.96334367	A/G	110	Chr_X.157577155	C/C
37	Chr_B1.213211080	A/A	74	Chr_D1.122896648	A/G	SEX	Fel_zfxy	X/X