

Genetic variations of the B/locus in dogs

possible alleles inherited from the first parent

possible alleles inherited from the second parent

		possible alleles inherited from the first parent															
		B	B	B	B	bd	B	bd	bd	B	B	bd	B	bd	bd	bd	bd
bd	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
bs	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
bc	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
b4	B	b4	B	B	B	B	b4	B	B	b4	B	b4	B	B	B	B	b4
B	B/B	B/B	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/bd	B/bd	B/bd
B	B/B	B/B	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B
B	B/B	B/B	B/bc	B/B	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B
B	B/B	B/b4	B/B	B/B	B/B	B/B	B/b4	B/B	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B
B	B/B	B/B	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/bd	B/bd	B/bd
B	B/B	B/B	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B
B	B/B	B/B	B/bc	B/B	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B
B	B/B	B/b4	B/B	B/B	B/B	B/B	B/b4	B/B	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B
B	B/B	B/B	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/B	B/B	B/bd	B/B	B/bd	B/bd	B/bd	B/bd	B/bd
B	B/B	B/B	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B	B/bs	B/B
B	B/B	B/B	B/bc	B/B	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B	B/bc	B/B
B	B/B	B/b4	B/B	B/B	B/B	B/B	B/b4	B/B	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B	B/b4	B/B
bs	bs/B	bs/B	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B
bs	bs/B	bs/B	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B	bs/bs	bs/B
bs	bs/B	bs/B	bs/bc	bs/B	bs/B	bs/bc	bs/B	bs/bc	bs/B	bs/bc	bs/B	bs/bc	bs/B	bs/bc	bs/B	bs/bc	bs/B
bs	bs/B	bs/b4	bs/B	bs/B	bs/B	bs/B	bs/b4	bs/B	bs/B	bs/b4	bs/B	bs/b4	bs/B	bs/b4	bs/B	bs/b4	bs/B
bc	bc/B	bc/B	bc/bc	bc/B	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B
bc	bc/B	bc/B	bc/bc	bc/B	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B
bc	bc/B	bc/B	bc/bc	bc/B	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B	bc/bc	bc/B
bc	bc/B	bc/b4	bc/B	bc/B	bc/B	bc/B	bc/b4	bc/B	bc/B	bc/b4	bc/B	bc/b4	bc/B	bc/b4	bc/B	bc/b4	bc/B
b4	b4/B	b4/b4	b4/B	b4/B	b4/B	b4/B	b4/b4	b4/B	b4/B	b4/b4	b4/B	b4/b4	b4/B	b4/b4	b4/B	b4/b4	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B
b4	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B	b4/B

legend

- frequent
- common
- rare
- very rare

genotype correlates to:

- B/B (no brown)
- B/b (carrier brown)
- b/b (brown)