

**Definitions:**

- Gene:** segment of DNA in the chromosome that codes for a trait: the traits of dominant genes will be expressed in the animal's phenotype, recessive genes can be hidden by a dominant trait
- Phenotype:** characteristics of an animal that can be seen: what the animal looks like
- Test Result:** a report of the genes that a Dexter possesses: a Dexter's genetic composition
- Description:** the typical and accepted terms that describe a particular genetic composition

Genes and Phenotypes		
Color Test Result	Dexter Color Phenotype	Description
ED/ED BB	Black	Homozygous Black
ED/ED Bb	Black	Black, carries dun
ED/E+ BB	Black	Black, carries red
ED/e BB	Black	Black, carries red
ED/E+ Bb	Black	Black, carries red and dun
ED/e Bb	Black	Black, carries red and dun
 		
ED/ED bb	Dun	Dun
ED/E+ bb	Dun	Dun, carries red
ED/e bb	Dun	Dun, carries red
 		
E+/E+ BB	Red	Red
E+/e BB	Red	Red
e/e BB	Red	Red
E+/E+ Bb	Red	Red, carries dun
E+/e Bb	Red	Red, carries dun
e/e Bb	Red	Red, carries dun
E+/E+ bb	Red	Red, homozygous dun
E+/e bb	Red	Red, homozygous dun
e/e bb	Red	Red, homozygous dun