

## Terms and Definitions:

Gene: Discrete particle/factor (gene) of inheritance. A segment of DNA encoding a protein.

Chromosome: A very long piece of double-stranded DNA. Many different genes are found on each chromosome.

Locus or loci: A particular place or location along a chromosome. Can be a gene or other DNA sequence.

Allele: Alternative forms of gene

Genotype: The combination of alleles that an individual has

Phenotype: A trait or appearance

Heterozygote: Individual with different alleles

Homozygote Individual with same alleles

Pure-breeding: An individual or strain that is homozygous for a particular gene.

Dominant versus recessive:

*Please note that these terms should be applied only to phenotypes, not to alleles!*

Phenotype 1 is dominant to phenotype 2 if the heterozygote has phenotype 1.

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