

Lab -2- concepts in genetics

Gene : specific sequence of nucleotides in DNA or RNA that is located usually on a chromosome and that is the functional unit of inheritance controlling the transmission and expression of one or more traits

Allele : One of two or more versions of a genetic sequence at a particular region on a chromosome. An individual inherits two alleles for each gene, one from each parent.

Gene consist of two allele like : The character of eye color

The genotype are (**BB,Bb,bb**)

The phenotype are may be black(**BB,Bb**)or blue (**bb**)

Homozygous : having two identical alleles (**BB**)

Heterozygous :having two different alleles (**Bb**)

Dominant allele : an allele expressed when present even in one copy .

Recessive allele : the expression of allele is masked by another allele .