

Gene Interaction-III

Supplementary gene (Recessive epistasis) 9:3:4

In this epistasis, one dominant gene has phenotypic effect while the other dominant gene has no phenotypic effect but its presence with the first gene modifies the phenotypic expression.

Parents Purple X Red









Genotype RRPP rrpp

Gametes



F1 RrPp Purple

F1 X F1 Purple X Purple

				
	RRPP (P)	RRPp (P)	RrPP (P)	RrPP (P)
	RRPp (P)	RRpp (W)	RrPp (P)	Rrpp (W)
	RrPp (P)	RrPp (P)	RrPP (R)	RrPp (R)
	RrPp (G)	Rrpp (W)	rrPp (RP)	rrpp (W)

9 Purple : 3 Red : 4 White

Additive factors (9:6:1) (Polymeric gene action)

Here, the two genes that control a character produces identical phenotype when they are alone. However, when both the genes are present together, their

