

gDNA

plasmid based vectors Natural, natural

plasmid vectors :-

* A plasmid is a small circular double stranded DNA molecule that is distant from a cell's chromosomal DNA plasmids that are used experimentally for these purposes are called vectors.

* Preserdis can insert DNA fragments or genes into a plasmid vector creating a so called recombinant plasmid.

Natural vector :-

* Ti plasmid - most commonly used natural vector the preser in *Agrobacterium tumefaciens* is used by bacterium to cause a tumor in plants.
* T. DNA modified to remove tumor.

Notifical vector - pBR 322:-

* pBR 322 DNA is a commonly used plasmid cloning vector in E-coli.

* The molecule is double stranded circle 4,361 base pairs length and tetracycline resistant gene.

* It contains ampicillin and tetracycline resistant gene.

* Amplified with chloram

- phenicon.

Means of pBR 322:-

* pBR 322 - 322 strands for no assigned to segregate it from type of plasmid.

* pBR - plasmid constructed by Boliver and Rodriguez.

How its working:-

* They are used as

vectors to clone DNA in bacteria.

* E.g: plasmid used for

DNA cloning is called pBR 322 plasmid

* It contains amp^r & tetracycline resistant gene.