· Pacilles: It is a locteria commonly found in soil fresheater and in rhizosphero (region of soil around plant roots) The restrictionenzyme here is Barntt I Source: Bacillus amyloliquefaction H In Bam HI: + + > Hat strain BamHI is used for DNA slicing fat GGATCC or CCTAGG Like FCORI, BanHI is also a Type 2 restriction enzyme. It can read pallindromic DNA sequences (GGATCC) DNA; GGATCC DNA slicing takes place (Let Gr & Gr on both strando) Template strand > G, 16, ATCC
Complementary strand > CCTAGrG CCTAGG Slice CCTAGG + GATCC CCTAGG BantII can only read GGATCC sequence and the restriction engine BantII slices foreign DNA only if it has GGATCC DNA sticede CONTECTAGE CONTECTAGE fragment 1 fragment 2

The stricky ends here are & Grand Gr We know, or can't pair with Gr In order for recombinant to take place, the fragment 2's complementary strand & template strand resorranges its DNA sequence to allow pairing but Grand C Therefore in this case, Rearrangement takes place to allow their sticky ends to align correctly. GATCCE... , G DOG CHATCLE SETTING Recombinant

Gustantinant

Grundag

Gru Even if the ends have G & G, the matching paireing will take place let C&G and A&T The remains two or bases will remain unpaired as it does not have any complementary lase to pair up with. his does not expect the overall fragmentation to digradestrien of the \$ foreign DNA itself. After this, the similar process of as shown in EcoRI will take place here leading to destruction of foreign DNA