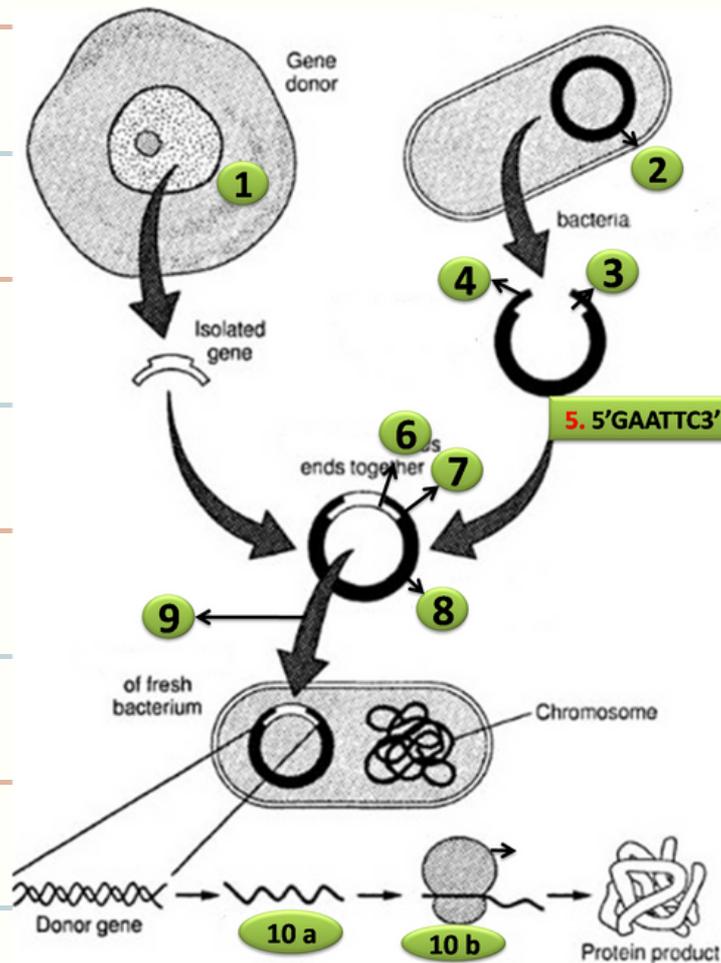


Recombinant DNA (rDNA) Technology Worksheet

CHECK, HOW MUCH YOU KNOW ABOUT R-DNA TECHNOLOGY?

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1. The first step in rDNA technology, labelled 1 is
2. It is double stranded, self replicating, circular DNA molecule present in bacteria which is widely used as a gene cloning vector. The structure labelled 2 in the figure is
3. These enzymes are called as molecular scissors which is essential for making internal cuts in a DNA molecule or vector at specific sites. The enzyme used in making cut in the vector (labelled 3) is
4. The cut by the enzyme in the vector (labelled 4) creates single stranded unpaired regions of DNA. This type of cut pattern is called as.....
5. 5'GAATTC3' is a restriction site of a widely used restriction enzyme which produces sticky ends. The enzyme is.....
6. In the figure labelled 6, the DNA strand is the
7. This enzyme is called as molecular glue which is used to join two DNA strands by forming phosphodiester bond. The joining enzyme labelled 7 is
8. The vector (plasmid) with foreign gene inserted is called (labelled 8)
9. The figure labelled 9 is the process of introducing recombinant vector into a suitable host like bacterium. The process is called
10. In the figure, 10 a and 10 b are processes that lead to the formation of protein product encoded by the gene of interest. 10 a and 10 b are

Check your answers @ <http://www.quizbiology.com/2015/07/diagram-quiz-on-steps-in-recombinant.html>