

# Ebook free Carolina plasmid mapping exercise answers [PDF]

plasmids can be mapped or described in terms of location of restriction sites using simple experiments and logic the general procedure is to cut digest a plasmid with two restriction enzymes separately two single digests and the together a double digest carolina plasmid mapping exercises file x iis 20 website root carolina archive biotech plasmid problems plasmid mapping exercises 2008 htm 12 8 2008 4 27 56 pm extension activity 1 plasmid mapping plasmids and restriction enzymes this lesson will demonstrate the principles of plasmid mapping by examining restriction digestion patterns of plasmids used in the laboratory section of the kit and determining the position of restriction enzyme recognition sites in the plasmids by use of logic plasmid we would like to show you a description here but the site won t allow us the following open ended investigative laboratory exercise in plasmid restriction mapping allows students to gain technical expertise while simultaneously exploring the utility of gel electrophoresis and restriction mapping prepare a restriction map of the complete plasmid sequence paste the sequence from step 2 into the search box in the nebcutter tool nc2 neb com nebcutter2 check the box to indicate that the plasmid is circular rather than linear you might also want to give your plasmid a name plasmid mapping practice worksheet 1 1 below is a restriction map for the plasmid pgen101 total length 20 kb using this map as a guide give the number of restriction fragments along with their associated lengths that would result from digesting pgen101 with the restriction enzymes ecori bamhi and a combination of ecori bamhi bamhi a restriction enzyme map is a basic requirement for the detailed structural and functional analysis of genes while it is easy to illustrate restriction mapping with dry paper and pencil examples suitable hands on wet practical experiments are more difficult to devise the experiment described here has been the answer is by mapping restriction enzyme mapping is a way to describe a plasmid by showing the relative positions of multiple restriction enzyme target sequences it s an essential skill in many research and industrial settings dna technology laboratory exercises cloning a gene into a vector such as a plasmid is a method widely used in molecular biology and biochemis try laboratories for the purpose of transferring the gene into another organism the organism can then express a gene related protein using its own genetic machinery biol 2416 restriction mapping practice paper exercise 1 a circular plasmid was cut with enzyme x enzyme y and enzyme x y the restriction map of the plasmid is as shown the numbers in parentheses refer to the base number where the enzyme cuts base numbers the following open ended investigative laboratory exercise in plasmid restriction mapping allows students to gain technical expertise while simultaneously exploring the utility of gel electrophoresis and restriction mapping combining restriction endonuclease digestion with gel electrophoresis of dna restriction mapping a given sequence of dna e g a gene will have a specific sequence and therefore specific restriction endonuclease sites the number and location of such sites is a unique and predictable property for a given dna molecule activities bacteria transformation hands on activity bacteria transformation summary students construct paper recombinant plasmids to simulate the methods genetic engineers use to create modified bacteria they learn what role enzymes dna and genes play in the modification of organisms dna technology mapping a plasmid a first step in working with dna is mapping the dna molecule one way to do this is to use restriction enzymes restriction endonucleases that are naturally found in bacteria to cut the dna molecule into fragments and then perform a gel electrophoresis on the treated dna the 11 3 exercise 1 plan the restriction digest 11 4 exercise 2 set up the restriction digests 11 5 exercise 3 analyze the restriction digests on agarose gels 11 6 test yourself instructions using the word choices provided in the boxes fill in the numbered boxes with the steps of bacteria transformation and the lettered lines with the name of the structure next to it draw the plasmid map for the following data visibility view drawing 1 10 draw the resulting gel from running this dna visibility view drawing 3 11 48 an introduction to restriction mapping of dna buffer as described by maniaty et al 2 three application wells will be needed for each student or group one well per gel c e hefferand s l turchi should be reserved for the molecular weight standard departments of biology and chemistry supplies each student or group will need 3 sterile m plasmid mapping exercises pdf pdf restriction enzyme agarose gel electrophoresis plasmid mapping exercises pdf free download as pdf file pdf text file txt or read online for free

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