

RESTRICTION ENZYME WORKSHEET

NAME _____ DATE _____ PERIOD _____

1. What is a restriction enzyme?
2. What does gel electrophoresis do?
3. a. Restriction Enzyme A reads AGTC and cuts between G and T. Cut the following DNA:

ACTCAGTCCTCTAAGCCAGTCCTCAAAAGTC

How many fragments are there?

How many bases are in each fragment?

- b. Restriction Enzyme B read CCTA and cuts between T and A. Cut the following DNA:

AGGGCTCCTAACCTGGCTACCTAGGTAAACCTAACG

How many fragments are there?

How many bases are in each fragment?

4. Shannon does not know who her father is. She goes on the Maury Povich show and they take DNA samples of three possible fathers: Jack, Daniel, and Bill. Examine the Gel Electrophoresis on the DNA samples.
 - a. Who is the father?
 - b. How do you know?

Shannon	Jack	Daniel	Bill
—	—	—	—
—	—	—	—
—		—	—
—		—	—
—	—	—	—
—		—	—

Restriction Enzyme Worksheet Answers

Source Wikipedia



Restriction Enzyme Worksheet Answers:

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Excerpt This article contains a list of the most studied restriction enzymes whose names start with A An approximated number of 130 enzymes has been included in the next table The following information is given The cutting of DNA at specific boundaries A restriction enzyme or restriction endonuclease is an enzyme that cuts DNA at specific recognition nucleotide sequences with Type II restriction enzymes cutting double stranded DNA known as restriction sites Such enzymes found in bacteria and archaea are thought to have evolved to provide a defense mechanism against invading viruses Inside a bacterial host the restriction enzymes selectively cut up foreign DNA in a process called restriction host DNA is methylated by a modification enzyme a methylase to protect it from the restriction enzyme s activity Collectively **Restriction Enzyme**

Analysis of Incomplete Parental Replicative Forms of ØX174 Alicia Morales Bogardus,1979 Restriction Enzyme Supplement ,1982 **Isolation of the Restriction Enzyme Sfa and Analysis of Its Recognition Sequence** Charles T. King,1975 The Restricted Section August Owen Staubus,2017 **Production and Characterization of Recombinant Restriction Enzyme NgoMIV and Its Mutant** Wei Ren,2012

Discovery of restriction enzymes has led to the development of recombinant DNA technology and restriction enzymes are currently widely used in biotechnology medicine and research Till now thousands of restriction enzymes have been discovered purified characterized and commercialized As well as production of restriction enzymes has gained a huge profit in biotechnology industry Although restriction enzymes have been applied well in current molecular biology researches a lot of questions regarding their binding and catalytic mechanisms haven't been clearly explained or described by scientists NgoMIV is a tetrameric restriction enzyme which has been discovered and purified about 20 years ago from *Neisseria gonorrhoeae* MS11 It belongs to the type II P and type II F subtypes The recognition site of NgoMIV is 5' G CCGGC 3' which is a palindromic sequence Also the tetrameric protein has two catalytic cores which means that it will bind with two cognate sites and cut them both NgoAIV which was discovered in another strain FA1090 of *Neisseria gonorrhoeae* is different from NgoMIV protein in two amino acid residues A hybrid protein called NgoIV hb was designed based on the differences In the thesis study here the expression of NgoMIV and its mutant was conducted To uncover the preference of the distance between two recognition sites digestion tests by applying a plasmid with four recognition sites as substrate were conducted At last several proposed mechanisms of catalysis based on the protein motion predicted by anisotropic elastic network model and current existing crystal structures were raised

Analysis and Interpretation of Restriction Enzyme Sites Poovannan Kandaraj,1993 1839, REBASE New England Biolabs,1998 A collection of information about restriction enzymes methylases and the microorganisms from which they have been isolated isoschizomers recognition sequences cleavage sites methylation specificity commercial availability and references both published and unpublished Home page

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