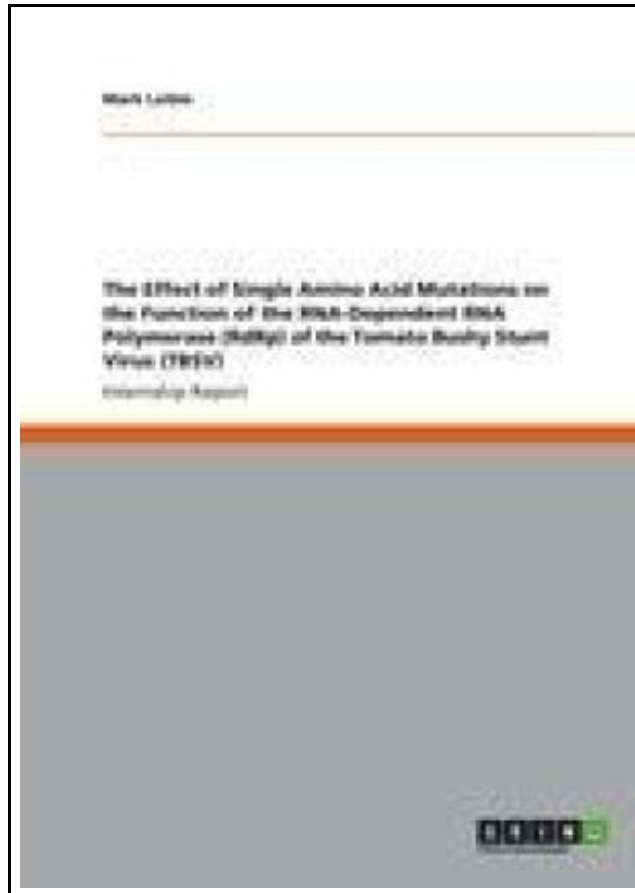


# The Effect of Single Amino Acid Mutations on the Function of the RNA-Dependent RNA Polymerase (RdRp) of the Tomato Bushy Stunt Virus (TBSV)



Filesize: 3.24 MB

## ***Reviews***

*Thorough guide! Its this sort of very good study. Yes, it really is play, nonetheless an interesting and amazing literature. You may like the way the blogger create this ebook.*




***(Dameon Hettinger)***

## THE EFFECT OF SINGLE AMINO ACID MUTATIONS ON THE FUNCTION OF THE RNA-DEPENDENT RNA POLYMERASE (RDRP) OF THE TOMATO BUSHY STUNT VIRUS (TBSV)



To read **The Effect of Single Amino Acid Mutations on the Function of the RNA-Dependent RNA Polymerase (RdRp) of the Tomato Bushy Stunt Virus (TBSV)** PDF, remember to access the link beneath and save the ebook or gain access to additional information that are highly relevant to THE EFFECT OF SINGLE AMINO ACID MUTATIONS ON THE FUNCTION OF THE RNA-DEPENDENT RNA POLYMERASE (RDRP) OF THE TOMATO BUSHY STUNT VIRUS (TBSV) book.

GRIN Verlag Sep 2011, 2011. Taschenbuch. Book Condition: Neu. 210x148x2 mm. This item is printed on demand - Print on Demand Neuware - Internship Report from the year 2008 in the subject Biology - Genetics / Gene Technology, grade: 1,0, Johannes Gutenberg University Mainz (Alplanta - Plant Research Institute), language: English, abstract: The tomato bushy stunt virus (TBSV) is a plant virus and a member of Tombusviridae family. It has a ~4.8 kb, single-component plus-strand RNA genome that is directly translated into the two proteins p33 and p92. Based on sequencing analysis, p92 was predicted to have RNA-dependent RNA-polymerase (RdRp) activity which has been intensively studied in vitro and in vivo. Despite the increasing number of studies on the characterization of RdRp activity and structure, the precise molecular mechanisms remain unclear. The aim of this work, was to identify aminoacids in the so called F-motif of the TBSV RdRp, which are essential for its correct function. The F-motif was not well described but was thought to confer RNA binding properties. Essential aminoacids were identified by site directed mutagenesis of single aminoacids in the F motif and subsequent testing of infectivity of the virus, which served as a measure of functionality of the polymerase. In the beginning of this study, the site directed mutagenesis kit from stratagene was used, later a cost effective homemade mutagenesis kit was established. Mutated virus DNA was in vitro transcribed and inoculated onto the leaves of Nicotiana benthamiana plants. RNA was isolated from infected plants and subjected to reverse transcription, cloning and sequencing. By this approach we were able to determine if the mutated aminoacid had reverted back (by mutation and selection) to the original or a different aminoacid indicating the importance of a specific physicochemical property in this position. Using the approach described above, we...

-  [Read The Effect of Single Amino Acid Mutations on the Function of the RNA-Dependent RNA Polymerase \(RdRp\) of the Tomato Bushy Stunt Virus \(TBSV\) Online](#)
-  [Download PDF The Effect of Single Amino Acid Mutations on the Function of the RNA-Dependent RNA Polymerase \(RdRp\) of the Tomato Bushy Stunt Virus \(TBSV\)](#)
-  [Download ePUB The Effect of Single Amino Acid Mutations on the Function of the RNA-Dependent RNA Polymerase \(RdRp\) of the Tomato Bushy Stunt Virus \(TBSV\)](#)

## Relevant Books



### [PDF] Psychologisches Testverfahren

Follow the link below to download and read "Psychologisches Testverfahren" PDF file.

[Download Book »](#)



### [PDF] Programming in D

Follow the link below to download and read "Programming in D" PDF file.

[Download Book »](#)



### [PDF] Serenade for Winds, Op. 44 / B. 77: Study Score (Paperback)

Follow the link below to download and read "Serenade for Winds, Op. 44 / B. 77: Study Score (Paperback)" PDF file.

[Download Book »](#)



### [PDF] Christmas Favourite Stories: Stories + Jokes + Colouring Book: Christmas Stories for Kids (Bedtime Stories for Ages 4-8): Books for Kids: Fun Christmas Stories, Jokes for Kids, Children Books, Books for Kids, Free Stories (Christmas Books for Children) (P

Follow the link below to download and read "Christmas Favourite Stories: Stories + Jokes + Colouring Book: Christmas Stories for Kids (Bedtime Stories for Ages 4-8): Books for Kids: Fun Christmas Stories, Jokes for Kids, Children Books, Books for Kids, Free Stories (Christmas Books for Children) (P" PDF file.

[Download Book »](#)



### [PDF] Have You Locked the Castle Gate?

Follow the link below to download and read "Have You Locked the Castle Gate?" PDF file.

[Download Book »](#)



### [PDF] Adobe Indesign CS/Cs2 Breakthroughs

Follow the link below to download and read "Adobe Indesign CS/Cs2 Breakthroughs" PDF file.

[Download Book »](#)



**[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Click the link under to read "Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" PDF file.

[Read eBook »](#)



**[PDF] How to Make a Free Website for Kids (Paperback)**

Click the link under to read "How to Make a Free Website for Kids (Paperback)" PDF file.

[Read eBook »](#)



**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)**

Click the link under to read "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)" PDF file.

[Read eBook »](#)



**[PDF] Stories of Addy and Anna: Japanese-English Edition (Paperback)**

Click the link under to read "Stories of Addy and Anna: Japanese-English Edition (Paperback)" PDF file.

[Read eBook »](#)



**[PDF] ESL Stories for Preschool: Book 1 (Paperback)**

Click the link under to read "ESL Stories for Preschool: Book 1 (Paperback)" PDF file.

[Read eBook »](#)



**[PDF] Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)**

Click the link under to read "Hope for Autism: 10 Practical Solutions to Everyday Challenges (Paperback)" PDF file.

[Read eBook »](#)