



DOWNLOAD



Genetic engineering of E.coli DNA methyltransferase (EcoDam)

By Hany Elsayw

LAP Lambert Academic Publishing Feb 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - DNA methylation carried out by DNA methyltransferases (MTases) is widespread in prokaryotes and eukaryotes. We have changed the target specificity of EcoDam from GATC to GATT by directed evolution, combining different random mutagenesis methods with restriction protection at GATT sites for selection and screening. After four generations of mutagenesis and selection, we obtained enzyme variants with new specificity for GATT. We conclude that the new methyltransferases are fully functional in vivo and in vitro. The EcoDam and T4Dam DNA-(adenine N6)- methyltransferases both methylate the adenine residue in GATC sites. They are highly related in amino acid sequence and structure but deviate in their contact to the first base pair of the target sequence. We have transplanted the T4Dam DNA recognition module into EcoDam and show that the EcoDam K9A/Y138R double mutant is highly active and specific. This result indicates that there exists a smooth evolutionary pathway changing the EcoDam DNA recognition mode to the T4Dam mode without loss of activity. 100 pp. Englisch.



READ ONLINE
[2.24 MB]

Reviews

Thorough guideline for publication fanatics. Better than never, though i am quite late in start reading this one. I am just effortlessly could possibly get a delight of reading a created book.

-- **Terry Bailey**

A fresh e book with a new viewpoint. It is among the most awesome ebook we have read through. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Prof. Christelle Stark III**

See Also



[Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade](#)

Book Condition: Brand New. Book Condition: Brand New.



[Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade](#)

Book Condition: Brand New. Book Condition: Brand New.



[Growing Up: From Baby to Adult High Beginning Book with Online Access](#)

Cambridge University Press, 2014. UNK. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.



[Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .](#)

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



[Music for Children with Hearing Loss: A Resource for Parents and Teachers](#)

Oxford University Press Inc, United States, 2014. Paperback. Book Condition: New. 228 x 156 mm. Language: English . Brand New Book. Written by an expert in the field who is both a teacher and a teacher-educator, this book is an in-depth and...



[Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic \(Hardback\)](#)

Oxford University Press, United Kingdom, 2014. Hardback. Book Condition: New. Mr. Nick Schon (illustrator). 177 x 148 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It is based on...