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The ORF3 protein of Hepatitis E virus: Multi-function protein with endless potential

Running title: HEV ORF3 protein

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Background. **Hepatitis E** is a significant public health problem in resource-limited regions of the world. The disease is caused by the **hepatitis E virus** (HEV), and appears as sporadic cases as well as large localized outbreaks of acute **hepatitis** [].The HEV is a non-enveloped **virus** with a ~7.2 kb positive-strand RNA genome and is classified in the family Hepeviridae [].

Cited by: 28**Author:** Shikha Taneja, Somdutta Sen, Vijay K...**Publish Year:** 2009

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Hepatitis E virus (HEV) is one of the most common pathogens causing acute **hepatitis** in tropical and subtropical areas and an increasingly recognized pathogen in acute, chronic **hepatitis** and extrahepati...

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Author: Gábor Reuter, Ákos Boros, Péter Pankovics

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The flavivirus genome, nearly 11 kb in length, encodes a large **open reading frame** (ORF) flanked by two noncoding regions at the 5' and 3'-ends, which translates into a large polyprotein that is divided into three structural **proteins** (capsid (C), membrane (prM/M), and envelope (E)) and seven non-structural **proteins** (NS1, NS2A, NS2B, NS3, NS4A, NS4B, and NS5) through the proteolytic process of the viral proteases

...

Cited by: 1

Author: Chien-Yi Lu, Chen-Sheng Lin, Hsueh-Ch...

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<https://www.nature.com/articles/s41598-019-38533-7>

Feb 07, 2019 · **Hepatitis E virus** (HEV) is a **virus** with selective tropism for the liver 16. It is well-known that the major capsid **protein** of HEV is encoded by its second **open reading frame** (ORF2) and can be

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The VP3 protein of duck hepatitis A virus mediates host ...

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Nov 14, 2019 · The genome has only one **open reading frame** ... Fluorescence was detected using a **multi-function** microplate reader. ... The 3D **protein** of duck **hepatitis A virus** type 1 binds to a viral genomic 3 ...

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Author: Yalan Lai, Ni Zeng, Mingshu Wang, Anch...

Publish Year: 2019

References – ORNL – Computational Biology & Bioinformatics

<https://compsysbio.ornl.gov/references> ▾

"Murine **Hepatitis Virus** Nonstructural **Protein** 4 Regulates **Virus**-Induced Membrane Modifications and Replication Complex Function." Journal of Virology 84 (1): 280–90. Geng, Hua, Yuet-Man Liu, Wai-Sing Chan, Anthony Wing-Ip Lo, Deborah Mun-Yee Au, Mary Miu-Yee Waye, and Yuan-Yuan Ho. 2005.

[PDF] Unstructural biology of the dengue virus proteins

biomine.cs.vcu.edu/papers/FEBSJ-dengue2015.pdf

structural **proteins** (capsid **protein** C, membrane **pro-tei**n M and envelope **protein** E), seven non-