

Title (en)  
ATTENUATED SARS AND USE AS A VACCINE

Title (de)  
ABGESCHWÄCHTE SARS-COV IMPFSTOFFE

Title (fr)  
SRAS ATTENUÉ: UTILISATION COMME VACCIN

Publication  
**EP 1893752 A2 20080305 (EN)**

Application  
**EP 06762172 A 20060623**

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Abstract (en)  
[origin: EP1736539A1] The present invention relates to nucleic acids encoding attenuated SARS-CoV viruses which are capable of producing a maximum viral titer in cell culture that is reduced at least by a factor of 2 when compared to the maximum viral titer of wild-type SARS-CoV virus in the same cell culture. According to a further aspect of the present invention, the nucleic acids encoding an attenuated SARS-CoV virus, are obtainable by a method comprising steps, wherein the genome of a SARS-CoV virus is modified by amending the sequence of the gene encoding the SARS-CoV E protein so that the nucleic acid cannot express a functional E protein. The present invention further relates to the viruses encoded by these nucleic acids as well as the medical use of the nucleic acids and of the viruses.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
See references of WO 2006136448A2

Citation (examination)  
• DEDIEGO MARTA L ET AL: "A severe acute respiratory syndrome coronavirus that lacks the E gene is attenuated in vitro and in vivo", JOURNAL OF VIROLOGY, vol. 81, no. 4, February 2007 (2007-02-01), pages 1701 - 1713, ISSN: 0022-538X  
• DEDIEGO M L ET AL: "Pathogenicity of severe acute respiratory coronavirus deletion mutants in hACE-2 transgenic mice", VIROLOGY, ACADEMIC PRESS, ORLANDO, US, vol. 376, no. 2, 5 July 2008 (2008-07-05), pages 379 - 389, XP022702078, ISSN: 0042-6822, [retrieved on 20080502], DOI: 10.1016/J.VIROL.2008.03.005  
• LAMIRANDE ELAINE W ET AL: "A live attenuated severe acute respiratory syndrome coronavirus is immunogenic and efficacious in Golden Syrian hamsters", JOURNAL OF VIROLOGY, vol. 82, no. 15, August 2008 (2008-08-01), pages 7721 - 7724, ISSN: 0022-538X  
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