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(54) Title: VIRUS-LIKE PARTICLES AS VACCINES FOR PARAMYXOVIRUS

(57) Abstract: The present invention discloses the method of making and using a novel, non-infective, paramyxovirus vaccine. Paramyxovirus structural proteins within a virus-like particle (VLP) comprise one example of such a vaccine. It is observed that the presence of matrix protein, alone, is sufficient and necessary to provide an effective VLP release. Co-expression of four paramyxovirus structural proteins, however, result in the release of non-infective VLPs with densities and efficiencies of release similar to that of infective particles. Representative diseases wherein a VLP vaccine might be useful include, but are not limited to, Newcastle disease, measles, respiratory syncytial virus infection, and parainfluenza 3 virus infection.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/30319

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 39/155(2006.01),39/12(2006.01)

USPC: 424/211.1,199.1,204.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/211.1, 199.1, 204.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, STN

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HUANG et al. Recombinant Newcastle Disease Virus as a Vaccine Vector. Poultry Sciences, 2003, Vol 82, pages 899-906.	1-15
A	KHO et al. Regions on nucleocapsid protein of Newcastle disease virus that interact with its phosphoprotein. Archives of Virology, 2004, Vol 149, pages 997-1005.	1-15
A	US 6,719,979 B2 (Peeters et al) 13 April 2004, columns 7-14.	1-15

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☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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