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(54) Title: NUCLEOTIDE SEQUENCE OF INFLUENZA A/UDORN/72 (H3N2) GENOME

(57) Abstract: The complete nucleotide sequence of each of the eight segments of the negative strand Influenza A virus strain A/Udorn/72 (H3N2) is disclosed, which provides the complete sequence of the genome in antigenomic message sense. The sequence is useful in diagnosis and may be modified by mutation to generate new influenza A variant strains.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/11 C12N15/44

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)
IPC 7 C07K C12N

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 practical, search terms used)

EMBL, EPO-Internal, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LAWSON C.M. ET AL.: "Nucleotide sequence changes in the polymerase basic protein 2 gene of temperature-sensitive mutants of influenza A virus." VIROLOGY, vol. 191, 1992, pages 506-510, XP002200635 the whole document relevant for seq. 1 --- -/--	1-20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	IUFEROV V.P. ET AL.: "Nucleotide sequence of the hemagglutinin gene of the influenza virus A/UDORN/307/72 (H3N2)! (in Russian)" DOKLADY AKADEMII NAUK SSSR, vol. 278, no. 3, 1984, pages 738-742, XP008003843 cited in the application the whole document relevant for seq. 7,8,21 ---	1-20
X	MARKOFF L. & LAI C.J.: "Sequence of the influenza A/UDORN/72 (H3N2) virus neuraminidase gene as determined from cloned full-length DNA." VIROLOGY, vol. 119, no. 2, 1982, pages 288-297, XP008003845 cited in the application figure 2 relevant for seq. 11,12 ---	1-20
A	BISHOP D.H.L. ET AL.: "The complete sequence of RNA segment 2 of influenza A/NT/60/68 and its encoded P1 protein" NUCL. ACIDS RES., vol. 10, no. 4, 1982, pages 1335-1343, XP008003848 figure 1 relevant for seq. 3 ---	6
A	PETROV N.A. ET AL.: "Primary structure of the full-size DNA copy of the influenza virus A/KIEV/59/79 PB1 gene protein! (in Russian)" BIOORGANICESKAYA KHIMIYA, vol. 13, no. 9, 1987 - 2002, pages 1170-1175, XP008003847 figure 1 relevant for seq. 4 ---	13,17
A	OKAZAKI K. ET AL.: "Evolutionary pathways of the PA genes of influenza viruses" VIROLOGY, vol. 172, no. 2, 1989, pages 601-608, XP008003844 figure 1 relevant for seq. 5 ---	7
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE LA LUNA S. ET AL.: "Molecular cloning and sequencing of influenza virus A/VICTORIA/3/75 polymerase genes: sequence evolution and prediction of possible functional domains." VIRUS RES., vol. 13, no. 2, 1989, pages 143-155, XP008003846 figures 2-4 relevant for seq. 2,6 -----	14,16,18