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(54) Title: METHODS FOR DETECTION OF ANTI-CYTOMEGALOVIRUS NEUTRALIZING ANTIBODIES

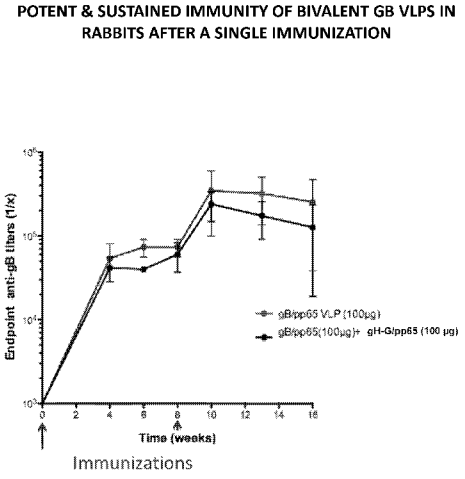


Figure 1

(57) Abstract: The present disclosure provides methods useful for determining levels of HCMV infection in host cells and, by extension, determining levels of neutralizing antibodies present in a sample. The present disclosure encompasses the recognition that HCMV viruses that have a fluorescent moiety permit detection of viral infection (e.g., by assessing fluorescence in cells after contacting the host cell with the virus). In some embodiments, levels of HCMV infection are determined by fluorescence detection where the virus has been preincubated with a test sample (e.g., a serum sample) from a subject. In some embodiments, the subject has been administered a candidate HCMV vaccine.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: ***C12Q 1/70*** (2006.01) , ***G01N 33/52*** (2006.01) , ***G01N 33/564*** (2006.01)

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)

C12Q 1/70 (2006.01) , ***G01N 33/52*** (2006.01) , ***G01N 33/564*** (2006.01)

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

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Databases: Canadian Patent Database, Epoque (Epodoc, X-Full, WPI), PubMed

Keywords: Human cytomegalovirus, vaccine, virus-like particles, fluorescent moiety, GFP, pp65, gB, gH, serum, flow cytometry

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2010/0267583 (AZIZI) 21 October 2010 (21-10-2010) the whole document	1-3, 6-30
Y	SACCOCCIO et al.: 'Peptides from cytomegalovirus UL130 and UL131 proteins induce high titer antibodies that block viral entry into mucosal epithelial cells', VACCINE, 24 March 2011, Vol. 29, pages 2705-2711, ISSN 2076-393X the whole document	1-3, 6-30

[ ] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/CA	Authorized officer
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Information on patent family members

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Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US 2010/0267583	21 October 2010 (21-10-2010)	CA2700078A1	15 October 2010 (15-10-2010)
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