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Replication Competent Reporter Expressing Viruses

The advent of virus reverse genetics has enabled the incorporation of genetically encoded reporter proteins into replication-competent viruses. These reporters include fluorescent proteins which have intrinsic chromophores that absorb light and re-emit it at lower wavelengths, and bioluminescent proteins which are luciferase enzymes that react with substrates to produce visible light.

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Viruses | Special Issue : Replication-Competent Reporter

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To circumvent this requirement, replication-competent IAV expressing an easily traceable reporter protein can be used. Here we discuss the development and applications of recombinant replication-competent IAV harboring diverse fluorescent or bioluminescent reporter genes in different locations of the viral genome.

Replication-Competent Influenza A Viruses Expressing ...

Applications of Replicating-Competent Reporter-Expressing Viruses in Diagnostic and Molecular Virology 1. Introduction. The commonly used tests based on wild-type viruses, such as immunostaining, are often time-consuming... 2. Technologies for the Generation of Replicating-Competent ...

Applications of Replicating-Competent Reporter-

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Expressing ...

Influenza A viruses (IAV) cause annual seasonal human respiratory disease epidemics. In addition, IAV have been implicated in occasional pandemics with inordinate health and economic consequences. Studying IAV, in vitro or in vivo, requires the use of laborious secondary methodologies to identify virus-infected cells. To circumvent this requirement, replication-competent IAV expressing an ...

Replication-Competent Influenza A Viruses Expressing ...

In summary, reporter-expressing, replicating-competent IAV represent a powerful tool for the study of IAV both in vitro and in vivo. Influenza A virus (IAV) genome organization and virion...

(PDF) Replication-Competent Influenza A Viruses Expressing ...

Notably, the development of replicating-competent reporter-

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expressing viruses (RCREVs) has provided an excellent option to detect directly viral replication without the use of secondary labeling, which represents a significant advance in virology.

Applications of Replicating-Competent Reporter-Expressing ...

Reverse genetics have allowed for the generation of replication-competent IAVs expressing reporter genes as novel powerful tools to track viral infections without the requirement of secondary methodologies to detect viral-infected cells (Eckert et al., 2014, Fiege and Langlois, 2015, Fukuyama et al., 2015, Kittel et al., 2004, Manicassamy et al., 2010, Nogales et al., 2014a, Pan et al., 2013, Perez et al., 2013, Reuther et al., 2015, Tran et al., 2013).

Replication-competent fluorescent-expressing influenza B virus

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Foot-and-mouth disease virus (FMDV) has a small RNA genome with a limited tolerance to foreign RNA entities. There has been no success in making a reporter FMDV expressing a luciferase in infected cell culture supernatants. We report here for the first time a replication-competent FMDV encoding Nanoluciferase, named as Nano-FMDV.

A replication-competent foot-and-mouth disease virus ...

By eliminating the need of secondary labeling, tractable replicating-competent, reporter-expressing viruses provide an ideal approach to monitor viral infections in real time, representing a significant advance in the study of the biology of viruses, to evaluate vaccination approaches, and to identify new therapeutics against viral infections using high-throughput screening settings.

Replication-Competent Reporter-Expressing Viruses

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(eBook ...

Notably, the development of replicating-competent reporter-expressing viruses (RCREVs) has provided an excellent option to detect directly viral replication without the use of secondary labeling, which represents a significant advance in virology.

Applications of Replicating-Competent Reporter-Expressing ...

Replication-competent influenza viruses carrying reporter genes are of great use for basic research, screening of antiviral drugs, and neutralizing of antibodies. In this study, two recombinant...

(PDF) Generation of Replication-Competent Recombinant ...

assay was developed to screen 28,437 small chemical compounds targeting RVFV infection. To accomplish both speed and robustness, a replication-competent NSs-deleted RVFV

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expressing a fluorescent reporter gene was developed.

High-Throughput Screening Using a Whole-Cell Virus ...

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These characteristics are challenging to determine, partly because there is no efficient replication-competent virus expressing an easily traceable reporter gene. Here, we report the generation of a recombinant influenza virus carrying a GFP reporter gene in the NS segment (NS1-GFP virus).

Analysis of in vivo dynamics of influenza virus infection ...

Recombinant reporter viruses are important tools for furthering

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our understanding of viral life cycles and lethality in cell and animal models. Reporter viruses make it easier to follow infection in the same animal over time and quantify events such as cellular entry and replication.

Reporter Viruses | Luciferase Reporters for Virology Research

We have taken advantage of the small luciferase reporter protein, Nanoluciferase (Nluc), to generate a replication-competent HIV-1 reporter virus to allow for NIBLI of viral infection in humanized mice.

Longitudinal bioluminescent imaging of HIV-1 infection ...

To engineer a replication-competent IAV that expresses antibodies during the viral life cycle, the polymerase PB1 and PA segments were utilized. To assess the feasibility of antibody expression by IAV, genes for the well-characterized antibody

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9H10 (Tan et al., 2014) were first encoded into the A/Puerto Rico/8/34 (PR8) IAV background.

A Recombinant Antibody-Expressing Influenza Virus Delays ...

To analyze the importance of this motif in viral budding and particle infectivity, we used an EBOV transcription and replication-competent VLP (trVLP) system, which is based on a tetracistronic minigenome that encodes a reporter, as well as VP40, the EBOV nucleocapsid-associated protein VP24, and the viral glycoprotein GP 1,2 [9, 10]. Coexpression of this minigenome together with the viral proteins driving genome replication and transcription—that is, the ribonucleoprotein complex (RNP ...

Analysis of a Putative Late Domain Using an Ebola Virus

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For titer of an adenovirus in PFU/ml (note: the same procedure is used for clonal isolation of possibly replication- competent viruses) \$260: \$330: Crude Virus (lysate, 50 ml) Each prep is 50 mls of adenoviral lysate which has been clarified of cell debris, but not purified or concentrated. \$176: \$225

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