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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-

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emit it at lower wavelengths, and bioluminescent proteins which are luciferase enzymes that react with substrates to produce visible light.

Viruses | Special Issue : Replication-Competent Reporter

...

In summary, reporter-expressing, replicating-competent IAV represent a powerful

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tool for the study of IAV both in vitro and in vivo. Keywords: fluorescence; luminescence; plasmid-based reverse genetics; recombinant influenza A virus; replicating-competent reporter-expressing influenza A virus; reporter genes; virus rescue approaches.

Replication- Competent Influenza A Viruses Expressing

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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 structure.

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

Notably, the

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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 Repl cating-Competent Reporter-Expressing

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Studying viral dissemination in vivo using replication-competent, reporter-expressing IAV remains a challenge because it requires that the reporter signal to be detected through tissue and skin. Pan et al. published the generation of replication-competent IAV harboring Gluc in the NA segment using PR8 as the backbone (IAV-Gluc) [72] (Table

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Keywords: replication,
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Studying influenza viruses requires the use of secondary methodologies to identify virus-infected cells. To this end, replication-competent influenza A viruses (IAVs) expressing easily traceable fluorescent proteins

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have been recently developed. In contrast, similar approaches for IBV are mostly lacking.

Replication-competent fluorescent-expressing influenza B ...

We engineered replication-competent mCherry-expressing influenza A viruses ...

Similarly, Tran et al. (2013) engineered a replication-competent IAV reporter virus,

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suitable for in vivo
imaging, that
expressed NanoLuc
luciferase separated
with a 2A site of the
viral PA gene.

Replication- competent influenza A viruses expressing a red ...

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Replicating-competent reporter-expressing viruses (RCREVs) are one type of artificially modified viruses that not only retain the viral genetic characteristics but also possess the new properties of the reporter genes, which represent a useful tool for quantitative analysis of viral replication and tracking viral protein transport in both living

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cells and animals.

Reporter

Applications of Repli cating-Competent Reporter-Expressing

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Generation of a
recombinant influenza
A PR8 virus expressing
the mCherry
fluorescent protein
Generation of
replication-competent
reporter-expressing IAV
requires that the
inserted reporter gene
neither impair critical

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functions of the protein(s) encoded by the native gene segment to which it is appended nor disrupt the packaging signals therein.

Replication-competent influenza A viruses expressing a red ...

viruses Review
Replication-Competent
Influenza A Viruses
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Genes Michael Breen t,

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Aitor Nogales †, Steven
F. Baker and Luis
Martínez-Sobrido *
Department of
Microbiology ...

Replication- Competent Influenza A Viruses Expressing

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By eliminating the
need of secondary
labeling, tractable
replicating-competent,
reporter-expressing
viruses provide an
ideal approach to

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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.

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To overcome this
limitation, we have

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generated replication-competent recombinant (r)SARS-CoV-2 expressing fluorescent (Venus or mCherry) or bioluminescent (Nluc) reporter genes. Vero E6 cells infected with reporter-expressing rSARS-CoV-2 can be easily detected via fluorescence or luciferase expression and display a good correlation between reporter gene

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replication.

Expressing Viruses

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