عنوان مقاله:

Isolation and molecular characteristics of a recombinant feline calicivirus from Qingdao, China

محل انتشار:

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خلاصه مقاله:

Feline calicivirus (FCV) is a highly contagious pathogen seriously affecting the upper respiratory tract and producing oral diseases in the feline. Despite widespread vaccination, the prevalence of FCV remains high. In this study, the FCV qingdao (qd)/Yol9/china was isolated from a domestic feline oropharyngeal swab collected from Qingdao, China. The virus was purified using the plaque assay and identified using the Polymerase chain reaction and indirect immunofluorescence assay methods, the capsid amino acid, VPI of qd/YoI9/china, showed sequence identity with the other isolates ranging between Am.9.% (ymm/r.o.1/jp) and 91.1.% (CH-JLF). The sequence of the capsid amino acid revealed qd/YoN/china to be closely related to CH-JLF and clustered with CH-JLF in the phylogenetic tree. The phylogenetic analysis indicated that the complete genomes (GenBank® accession No. MZ٣٢٢٨٩۶) of gd/rol9/china and CH-JLF were also classified into the same cluster. The recombination analysis with Simplot indicated that the qd/Yo19/china originated from the recombination of CH-JLF and HRB-SS, and the region F,AYI - 0,Fol nt originated from HRB-SS. Further, the region Ψ,λΥι - ۵,٣οι nt were found to belong to the protease-polymerase (PP) of HRB-SS. Here, we isolated a new recombinant virus, FCV qd/Yol9/china. Therefore, these results would be beneficial for better understanding of the evolution and epidemiology of FCV

کلمات کلیدی:Feline calicivirus, Isolation, Recombination

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