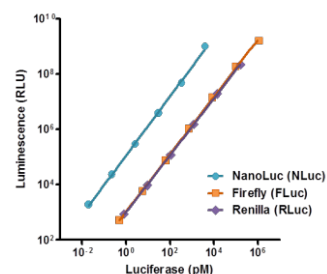


NanoLuc® 比 Firefly 或 *Renilla* 萤光素酶小，但亮度是它们的 100 倍



腺病毒 Adenovirus	Zhang, W. <i>et al.</i> (2017) An engineered virus library as a resource for the spectrum-wide exploration of virus and vector diversity. <i>Cell Rep.</i> 19 , 1698–709. PMID: 28538186 .
沙粒病毒 Arenavirus (Junin Virus)	Dunham, E.C., <i>et al.</i> (2018) Lifecycle modelling systems support inosine monophosphate dehydrogenase (IMPDH) as a pro-viral factor and antiviral target for new world arenaviruses. <i>Antivir. Res.</i> 157 , 140–50. PMID: 30031760
禽流感病毒 Avian Influenza Virus	Lau, G., <i>et al.</i> (2022) Real-time visualization of the infection and replication of mouse-lethal recombinant H9N2 Avian Influenza <i>Virus. Front. Vet. Sci.</i> 9 , 849178. PMID: 35280146
牛病毒性腹泻病毒 Bovine Viral Diarrhea Virus	Bünig, M.K. <i>et al.</i> (2017) Nonreplicative RNA recombination of an animal plus-strand RNA virus in the absence of efficient translation of viral proteins. <i>Genome Biol. Evol.</i> 9 , 817–29. PMID: 28338950
布尼亚韦拉病毒 Bunyamwera orthobunyavirus	Scherer, C., <i>et al.</i> (2021) An Aedes aegypti-derived Ago2 knockout cell line to investigate Arbovirus infections. <i>Viruses</i> 13 , 1066. PMID: 34205194 .
卡西病毒 Calicivirus (Feline)	Urban, C. and Luttermann, C. (2020) Major capsid protein synthesis from the genomic rna of Feline Calicivirus. <i>J. Virol.</i> 94 , e00280–20. PMID: 32404528 .
犬瘟热病毒 Canine Distemper Virus	Liu, F., <i>et al.</i> (2020) Recovery of NanoLuc® Luciferase-tagged Canine Distemper Virus for facilitating rapid screening of antivirals <i>in vitro.</i> <i>Front. Vet. Sci.</i> 7 , 600796. PMID: 33363240 .
基孔肯雅热病毒 Chikungunya Virus	Wada, Y. <i>et al.</i> (2017) Discovery of a novel antiviral agent targeting the nonstructural protein 4 (nsP4) of chikungunya virus. <i>Virology</i> 505 , 102–12. PMID: 28236746
冠状病毒 Coronavirus (Feline)	Terada, Y., <i>et al.</i> (2019) Establishment of a virulent full-length cDNA clone for type I feline coronavirus strain C3663. <i>J. Virol.</i> 93 , e01208–19. PMID: 31375588
冠状病毒 Coronavirus (MERS & SARS)	Sheahan, T.P., <i>et al.</i> (2017) Broad-spectrum antiviral GS-5734 inhibits both epidemic and zoonotic coronaviruses. <i>Sci. Transl. Med.</i> 9 , eaal3653. PMID: 28659436
冠状病毒 Coronavirus (SARS)	Agostini, M.L. <i>et al.</i> (2018) Coronavirus susceptibility to the antiviral Remdesivir (GS-5734) Is mediated by the viral polymerase and the proofreading exoribonuclease. <i>mBio</i> 9 , e00221–18. PMID: 29511076
克里米亚 - 刚果出血热病毒 Crimean-Congo Hemorrhagic Fever Virus	Schotte, F.E.M. <i>et al.</i> (2017) Crimean-Congo hemorrhagic fever virus suppresses innate immune responses via a ubiquitin and ISG15 specific protease. <i>Cell Rep.</i> 20 , 2396–407. PMID: 28877473
δ 冠状病毒 Deltacoronavirus (Porcine)	Fang, P., <i>et al.</i> (2021) Construction, characterization and application of recombinant porcine Deltacoronavirus expressing Nanoluciferase. <i>Viruses</i> 13 , 1991. PMID: 34696421 .
登革热病毒 Dengue Virus	Eyre, N.S. <i>et al.</i> (2017) Genome-wide mutagenesis of Dengue virus reveals plasticity of the NS1 protein and enables generation of infectious tagged reporter viruses. <i>J. Virol.</i> 91 , e01455–17. PMID: 28956770
鸭坦布苏病毒 Duck Tembusu Virus	He, Y., <i>et al.</i> (2019) Genetically stable reporter virus, subgenomic replicon and packaging system of duck Tembusu virus based on a reverse genetics system. <i>Virology</i> 533 , 86–92. PMID: 31136895
埃博拉病毒 Ebola Virus	Urata, S., Ishikawa, T. and Yasuda, J. (2019) Roles of YIGL sequence of Ebola virus VP40 on genome replication and particle production. <i>J. Gen. Virol.</i> 100 , 1099–111. PMID: 31184566
伊拉特病毒 Eilat Virus	Reynaud, J.M. <i>et al.</i> (2015) IFIT1 differentially interferes with translation and replication of alphavirus genomes and promotes induction of type I interferon. <i>PLoS Pathog.</i> 11 , e1004863. PMID: 25927359
肠道病毒 Enterovirus	Wu, K.X. and Chu, J.J.-H. (2017) Antiviral screen identifies EV71 inhibitors and reveals camptothecin-target, DNA topoisomerase 1 as a novel EV71 host factor. <i>Antivir. Res.</i> 143 , 122–33. PMID: 28427827
马脑炎病毒 Equine Encephalitis Virus (Venezuelan)	Reynaud, J.M. <i>et al.</i> (2015) IFIT1 differentially interferes with translation and replication of alphavirus genomes and promotes induction of type I interferon. <i>PLoS Pathog.</i> 11 , e1004863. PMID: 25927359
口蹄疫病毒 Foot and Mouth Disease Virus	Zhang, F. <i>et al.</i> (2017) A replication-competent foot-and-mouth disease virus expressing a luciferase reporter. <i>J. Virol. Meth.</i> 247 , 38–44. PMID: 28532601
A 型肝炎 Hepatitis A	Yamane, D., <i>et al.</i> (2019) Basal expression of interferon regulatory factor 1 drive intrinsic hepatocyte resistance to multiple RNA viruses. <i>Nat. Microbiol.</i> 4 , 1096–104. PMID: 30988429
B 型肝炎 Hepatitis B	Nishitsuji, H. <i>et al.</i> (2018) TIP60 complex inhibits HBV transcription. <i>J. Virol.</i> 92 , e01788–17. PMID: 29321313
C 型肝炎 Hepatitis C	Eyre, N.S. <i>et al.</i> (2017) Sensitive luminescent reporter viruses reveal appreciable release of hepatitis C virus NS5A protein into the extracellular environment. <i>Virology</i> 507 , 20–31. PMID: 28395182
E 型肝炎 Hepatitis E	Szkolnicka, D., <i>et al.</i> (2019) Recombinant hepatitis E viruses harboring tags in the ORF1 protein. <i>J. Virol.</i> 93 , e00459–19. PMID: 31315997

NanoLuc[®] 萤光素酶报告基因病毒引文

艾滋病病毒 HIV-1	Astronomo, R.D. et al. (2017) Neutralization takes precedence over IgG or IgA isotype-related functions in mucosal HIV-1 antibody-mediated protection. <i>EbioMedicine</i> 14, 97–111. PMID: 27919754
人类乳头瘤病毒 Human Papillomavirus	Piirsoo, A., et al. (2019) Activity of CK2 α protein kinase is required for efficient replication of some HPY types. <i>PLoS Pathog.</i> 15, e1007788. PMID: 31091289
流感病毒 A Influenza A	Diot, C. et al. (2016) Influenza A virus polymerase recruits the RNA helicase DDX19 to promote the nuclear export of viral mRNAs. <i>Sci. Reports</i> 6, 33763. PMID: 27653209
流感病毒 B Influenza B	Fulton, B.O. Palese, P. and Heaton, N.S. (2015) Replication-competent influenza B reporter viruses as tools for screening antivirals and antibodies. <i>J. Virol.</i> 89, 12226–31. PMID: 26401044
日本脑炎病毒 Japanese Encephalitis Virus	Honjo, S., Masuda, M. and Ishikawa, T. (2019) Effects of the Japanese Encephalitis Virus genotype V-derived sub-viral particles on the immunogenicity of the vaccine characterized by a novel virus-like particle-based assay. <i>Vaccines</i> 7, 81. PMID: 31382680
JC 多瘤病毒 JC Polyomavirus	Geoghegan, E.M., et al. (2017) Infectious entry and neutralization of pathogenic JC polyomaviruses. <i>Cell Rep.</i> 21, 1169–79. PMID: 29091757
马亚罗病毒 Mayaro Virus	Weger-Lucarelli, J., et al. (2019) Host nutritional status affects alphavirus virulence, transmission and evolution. <i>PLoS Pathog.</i> 15, e1008089. PMID: 31710653
正呼肠孤病毒 Orthoreovirus(Mammalian)	Kanai, Y., et al. (2019) In vivo live imaging of oncolytic mammalian orthoreovirus expressing NanoLuc [®] luciferase in tumor xenograft mice. <i>J. Virol.</i> 93, e00401-19. PMID: 31068423
副流感病毒 Parainfluenza Virus	Liu, F., Wang, Q. and Shan, H. (2021) Rescue of dual reporter-tagged parainfluenza virus 5 as tool for rapid screening of antivirals in vitro. <i>Vet. Microbiol.</i> 259, 109154. PMID: 34237497
副粘病毒 Paramyxovirus	Cox, R.M., et al. (2020) Orally efficacious broad-spectrum allosteric inhibitor of paramyxovirus polymerase. <i>Nat. Microbiol.</i> 5, 1232-46. PMID: 32661315
猪流行性腹泻病毒 Porcine Epidemic Diarrhea Virus	Li, W., et al. (2021) Construction of a recombinant Porcine Epidemic Diarrhea Virus encoding Nanoluciferase for high-throughput screening of natural antiviral products. <i>Viruses</i> 13, 1866. PMID: 34578449
假狂犬病病毒 Pseudorabies Virus	Wang, Y., et al. (2020) A NanoLuc [®] Luciferase reporter Pseudorabies virus for live imaging and quantification of viral infection. <i>Front. Vet. Sci.</i> 7, 566556. PMID: 33195544
狂犬病毒 Rabies Virus	Nakagawa, K., et al. (2017) Molecular function analysis of rabies virus RNA polymerase L protein by using an L gene-deficient virus. <i>J. Virol.</i> 91, e00826–17. PMID: 28768857
罗斯河病毒 Ross River Virus	Belarbi, E., et al. (2019) Bioluminescent Ross River Virus allows live monitoring of acute and long-term alphaviral infection by in vivo imaging. <i>Viruses</i> 11, 584. PMID: 31252609
轮状病毒 Rotavirus	Kanai, Y., et al. (2017) Entirely plasmid-based reverse genetics system for rotaviruses. <i>PNAS</i> 114, 2349–54. PMID: 28137864
塞姆利基森林病毒 Semliki Forest Virus	Sarén, T., et al. (2017) Insertion of the type-I IFN decoy receptor B18R in a miRNA-tagged Semliki Forest virus improves oncolytic capacity but results in neurotoxicity. <i>Mol. Ther. Oncolytics</i> 7, 67–75. PMID: 29159280
仙台病毒 Sendai Virus	Goto, H., et al. (2016) Evidence that receptor destruction by the Sendai virus hemagglutinin-neuraminidase protein is responsible for homologous interference. <i>J. Virol.</i> 90, 7640–6. PMID: 27279623
辛德毕斯病毒 Sindbis Virus	Sokoloski, K.J., et al. (2017) Identification of interactions between Sindbis virus capsid protein and cytoplasmic vRNA as novel virulence determinants. <i>PLoS Pathog.</i> 13, e1006473. PMID: 28662211
A 型塞内卡病毒 Senecavirus A	Liu, F., et al. (2021) Rescue of NanoLuc [®] luciferase-expressing Senecavirus A with oncolytic activity. <i>Virus Res.</i> 292, 198232. PMID: 33207264
牛痘病毒 Vaccinia Virus	Chiem, K., et al. (2021) Bi-reporter Vaccinia Virus for tracking viral infections in vitro and in vivo. <i>Microbiol. Spectr.</i> 9, e0160121. PMID: 34817228
疱疹性口炎病毒 Vesicular Stomatitis Virus	Halbherr, S.J., et al. (2015) Biological and protective properties of immune sera directed to the influenza virus neuraminidase. <i>J. Virol.</i> 89, 1550–63. PMID: 25392225
西尼罗河病毒 West Nile Virus	Setoh, Y.X., et al. (2017) Helicase domain of West Nile virus NS3 protein plays a role in inhibition of type I interferon signalling. <i>Viruses</i> 9, 326. PMID: 29099073
黄热病病毒 Yellow Fever Virus	Dong, H.-L., et al. (2021) Visualization of yellow fever virus infection in mice using a bioluminescent reporter virus. <i>Emerg. Microbes Infect.</i> 10, 1739-50. PMID: 34379047
寨卡病毒 Zika Virus	Mutso, M., et al. (2017) Reverse genetic system, genetically stable reporter viruses and packaged subgenomic replicon based on a Brazilian Zika virus isolate. <i>J. Gen. Virol.</i> 98, 2712-24. PMID: 29022864

Product	Size	Cat. #
Nano-Glo[®] Luciferase Assay System- 裂解检测：用于测定 NanoLuc [®] 萤光素酶	10ml	N1110
Nano-Glo[®] Live Cell Assay System- 非裂解型检测：测定 NanoLuc [®] 萤光素酶（信号半衰期 ~2hrs），可用于动力学分析和细胞成像研究。可提供延长信号半衰期的底物。	100 assays	N2011
Nano Glo[®] In Vivo Substrate, FFz- 推荐该底物用于活体成像实验。以冻干粉形式提供。	1 vial	咨询 Promega