

HEK293T Cells (ACE2-30F-PLP2), SARS-CoV-2 Luminescent Reporter, Clone B7

Catalog No. NR-58714

Product Description:

NR-58714 is an H293T derived clonal cell line expressing ACE2, furin and a luminescent biosensor. The 30F-PLP2 biosensor comprises an inactive, circularly permuted firefly luciferase (FFluc) molecule, in which cleavage of a Papain-like Protease (PLP) linker oligopeptide by the SARS-CoV-2 derived PLP restores luminescence. The line was generated by lentiviral transduction of the 30F-PLP2 (PLP cleavage sequence 2) into the HEK-293T cells. PLP expression in the reporter cell line upon SARS-COV-2 infection leads to cleavage of the linker and thus renders the infected cells luminescent.

Lot: 70056894

Manufacturing Date: 16DEC2022

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Epithelial	Epithelial
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	4.5 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	85.8%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ¹ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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