



## DATASHEET

REAGENT	HEK293T-ACE2-30F-PLP2 (clone B7)
REPOSITORY REFERENCE	101062
LOT NUMBER	09092022
DESCRIPTION	<p>HEK293T-ACE2-30F-PLP2 is a reporter cell line for SARS-CoV-2 infection. The cells stably expresses a SARS-CoV-2 protease-activatable luminescent biosensor, allowing the detection of authentic viral infection as Firefly luciferase activity. To generate the cell line, HEK293T cells were transduced with human ACE2, furin and the 30F-PLP2 biosensor, then cloned by limiting dilution<sup>1</sup>. It can be used for quantification of infectious virus, and has been validated for titration of neutralising antibodies to SARS-CoV-2 in human sera<sup>2</sup>.</p> <p>Lot 09092022 has been found to be negative for bacteria/fungi contamination by microscopic observation and mycoplasma by PCR.</p>
SPECIES	<i>Homo sapiens</i>
CULTURE	<p><u>Media</u> IMDM + GlutaMAX Heat-inactivated foetal bovine serum, 10%</p> <p><i>Expression of the transgenes has been shown to be stable for at least 20 passages without selection with antibiotics.</i></p> <p><u>Doubling time</u> &lt;24 hours</p>
PASSAGE	p4
NUMBER OF CELLS PER VIAL	3 x 1e6 (92% post-thaw viability)
STORAGE	Liquid nitrogen vapour
DEPOSITOR	Dr Nicholas Matheson, Cambridge Institute of Therapeutic Immunology and Infectious Disease (CITIID), Jeffrey Cheah Biomedical Centre, University of Cambridge, Cambridge, UK.
REFERENCE	1. Gerber <i>et al.</i> A protease-activable luminescent biosensor and reporter cell line for authentic SARS-CoV-2 infection. PLoS Pathogens, 2022 (DOI: 10.1371/journal.ppat.1010265).



2. van der Klaauw *et al.* Accelerated waning of the humoral response to SARS-CoV-2 vaccines in obesity. medRxiv, 2022 (DOI: 10.1101/2022.06.09.22276196).

#### ACKNOWLEDGMENTS

The acknowledgement should read: "The following reagent was obtained from the MHRA, thanks to the contribution of Dr Nicholas Matheson and Dr Pehuén Pereyra Gerber: HEK293T-ACE2-30F-PLP2".



## MATERIAL SAFETY DATA SHEET

<b>Physical properties (at room temperature)</b>			
Physical appearance	Yellow/Pink, liquid		
Fire hazard	None		
<b>Chemical properties</b>			
Stable	Yes	Corrosive:	No
Hygroscopic	No	Oxidising:	No
Flammable	No	Irritant:	No
Other: This product is a cell line; it is the responsibility of the end user to seek local biosafety approval for the storage and handling of the material in their workplace			
Handling: CAUTION - This preparation is not for administration to humans or animals in the human food chain. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols.			
<b>Toxicological properties</b>			
Effects of inhalation:	Not established, avoid inhalation		
Effects of ingestion:	Not established, avoid ingestion		
Effects of skin absorption:	Not established, avoid contact with skin		
<b>Suggested First Aid</b>			
Inhalation	Seek medical advice		
Ingestion	Seek medical advice		
Contact with eyes	Wash with copious amounts of water. Seek medical advice.		
Contact with skin	Wash thoroughly with water.		

<b>Action on Spillage and Method of Disposal</b>
Spillage of vial contents should be taken up with absorbent material wetted with a suitable disinfectant. Rinse area with a virucidal agent followed by water.  Absorbent materials used to treat spillage should be treated as biologically hazardous waste.