

**DATASHEET**  
**For Research Use Only**

<b>NAME</b>	SARS-CoV-2 Trimeric Spike
<b>CATALOGUE NUMBER</b>	<b>101007</b>
<b>LOT NUMBER</b>	28052020
<b>DESCRIPTION</b>	<p>Trimeric Spike protein produced from transiently transfected Expi293F cells:</p> <ul style="list-style-type: none"><li>• Identical 1-530 amino acids to #100979 (NC_045512.2)</li><li>• Furin cleavage site (682-685 'RRAR') removed – now GSAS.</li><li>• Amino acid stabilisation changes K986P &amp; V987P</li><li>• T4 fibritin foldon residues – GYIPEAPRDGQAYVRKDG EWLLSTFL</li><li>• C-terminal tags:<ul style="list-style-type: none"><li>○ LEVLFQGGPG - HRV 3C cleavage site (human Rhinovirus type 14 protease),</li><li>○ 8His tag</li><li>○ SAWSHPQFEKGGGSGGGGSGGSAWSHPQFEK (2 copies of the Strep II tag with glycine linker)</li></ul></li></ul>
<b>APPLICATION:</b>	Suitable for immunoassay.
<b>PROVIDED</b>	50µL at 1mg/mL of purified protein in PBS pH=7
<b>STORAGE</b>	Keep at -80°C. Avoid freeze-thaw cycles as reagent degradation may result.
<b>NOTE</b>	This reagent is subject to U.S and foreign patent applications. The materials are approved for not-for-profit research use only and should not be used in research projects involving collaboration with a for-profit organisation or sponsored or funded by a for-profit organisation.
<b>DEPOSITOR</b>	Plasmid deposited by Dr Barney Graham, NIAID; protein produced and purified by Chris Ball, NIBSC.
<b>ACKNOWLEDGEMENTS</b>	<p>The acknowledgment should read: "The [<i>Insert reagent name</i>] was provided by the NIBSC Repository, UK. With thanks to the [<i>Depositor</i>]".</p> <p>Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR, this can be by e-mail or printed copy.</p>



## MATERIAL SAFETY SHEET

<b>Physical properties (at room temperature)</b>			
Physical appearance	Clear, liquid		
Fire hazard	None		
<b>Chemical properties</b>			
Stable	Yes	Corrosive:	No
Hygroscopic	No	Oxidising:	No
Flammable	No	Irritant:	No
<b>Other:</b> This product is a recombinant protein; It is the responsibility of the end user to seek local biosafety approval for the storage and handling of the material in their workplace			
<b>Handling:</b> 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.			