

## **DESCRIPTION**

Description	Recombinant Human Coronavirus SARS-CoV-2 Spike Protein S1 subunit, Receptor-Binding Domain (RBD), variant Delta, Lineage B.1.617.2 (20A/S:478K, India)		
Coguence	Native NCBI Accession Number: MN908947		
Sequence	Arg319-Phe541, with mutation L452R; T478K		
Expression system	HEK293 cells		
Tag	HIS Tag C-Terminus		
Purification	Affinity chromatography		
Extinction coefficient	33850 M-1.cm-1 Abs 0.1% (=1 g/l) 1.29 assuming all pairs of Cys residues form cystines		
Predicted Molecular Weight	26.1 kDa		

## **SPECIFICATIONS**

SDS Page	Approx. 32 kDa		
Concentration	1 mg/ml		
Purity	>95% by SDS PAGE gel		
Formulation	Liquid PBS		
Activity	Recognized by CR3022 anti RBD recombinant antibody		
Stability and Storage	Store at minimum -20°C. Avoid repeated freeze-thaw cycles		

## DATA

SDS-PAGE 4-15% under reducing conditions and visualized by Coomassie blue staining showing a band at approx. 32 kDa				Western Blot: RBD Variant Delta HIS Tag detected with anti- HIS-Tag antibody HRP conjugate showing a band at approx. 32 kDa	
	RBD Variant Delta HIS Tag	MW	kDa	RBD Variant MW kDa Delta HIS Tag	
		_	<b>—</b> 250	250	
			<b>—</b> 150	150	
	*		— 100	100	
		_	<del></del>	75	
		_	<del></del>	50	
	-	-	<b>—</b> 37	— 37	
		_	— 25	25	
			— 20	20	
		-	<u> </u>	15	





Version 1 05/07/2021



Diaclone S.A.S. 6, rue Dr. Jean-François-Xavier Girod BP1985 – 25000 Besançon – France SIRET 451 377 006 00015 – TVA FR69451377006

Tel.: +33 (0)3 81 41 38 38 Fax.: +33 (0)3 81 41 36 36 Email: info@diaclone.com

3 81 41 38 38 Diaclone, une société du groupe 3 81 41 36 36



Recombinant Human SARS-CoV-2 Spike RBD Variant Delta Lineage B.1.617.2 (HEK)

Catalog number: 715-H25-0BU

## SARS-CoV-2 Spike Glycoprotein (S1) RBD variant Delta Lineage B.1.617.2

Spike protein (S protein) is one of the four structural proteins of Coronavirus (SARS-Cov, SARS-Cov-2, MERS amongst others), S protein plays the most important role in viral attachment, fusion and entry, and it serves as a target for development of antibodies, entry inhibitors and vaccines.

In the S protein, the Receptor Binding Domain (RBD) mediates viral entry of SARS-Cov and SARS-Cov-2 into host cells by its interaction with the membrane receptor ACE2 (Angiotensin-converting enzyme 2).

The variant lineage B.1617.2 of SARS-Cov-2 was first identified in India in late 2020. The WHO named it "the Delta variant" at the end of May 2021. The two mutations in the RBD (L452R and T478K) affect the transmissibility of the SARS-CoV-2 virus. Since the 7<sup>th</sup> May 2021, the classification of this variant moves from variant under investigation (VUI) to variant of concern (VOC). This variant seems to be responsible in part for the second wave of the pandemic starting in February 2021 in India.

Products Manufactured and Distributed by: Diaclone SAS 6 Rue Dr Jean-François-Xavier Girod BP 1985, 25020 Besançon Cedex France Tel +33 (0)3 81 41 38 38 Fax +33 (0)3 81 41 36 36

Email: <u>info@diaclone.com</u> <u>www.diaclone.com</u>

Diaclone S.A.S. 6, rue Dr. Jean-François-Xavier Girod Diaclone

Tel.: +33 (0)3 81 41 38 38 Fax.: +33 (0)3 81 41 36 36 Email: info@diaclone.com

Diaclone, une société du groupe biotech

Version 1 05/07/2021