

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

**REAGENT** SARS-CoV-2 Nucleocapsid Protein (203/204: RG>KR mutant, His-tagged)

**REAGENT REFERENCE** 101043

**LOT NUMBER:** lot 1B

**PROVIDED:** 100µg at 1.1 mg/mL of purified protein HEPES buffered saline, 5% glycerol, 1 mM EDTA, pH 8.

**DESCRIPTION:** This protein represents the nucleocapsid protein from the variant of the original SARS-CoV-2 strain, in which the arginine-glycine amino acids in position 203-204 have been substituted with lysine-arginine (203/204: RG>KR mutation). NCBI Reference Sequence: Accession No. QIQ08827. Residues 9 – 426 of the sequence below (N-terminal histidine tag underlined) match amino acids 2- 419 of QIQ08827

**PROTEIN SEQUENCE;**

MHHHHHGGSDNGPQNQRNAPRITFGGSPDSTGSNQNGERSGARSKQRRPQGLPNNTASW  
 FTALTQHGKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSPRWYFYLLG  
 TGPEAGLPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIIVLQLPQGTTLPKGFYAEGSR  
 GGSQASSRSSSRNSTRNTPGSSKRTSPARMAGNGGDAALALLLLDRLNQLESKMSGK  
 GQQQQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTD  
 YKHWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAY  
 KTFPPTEPKKDKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA

**PURITY:** Estimated by SDS-PAGE Nucleocapsid with less than 5% E. coli contaminant proteins.

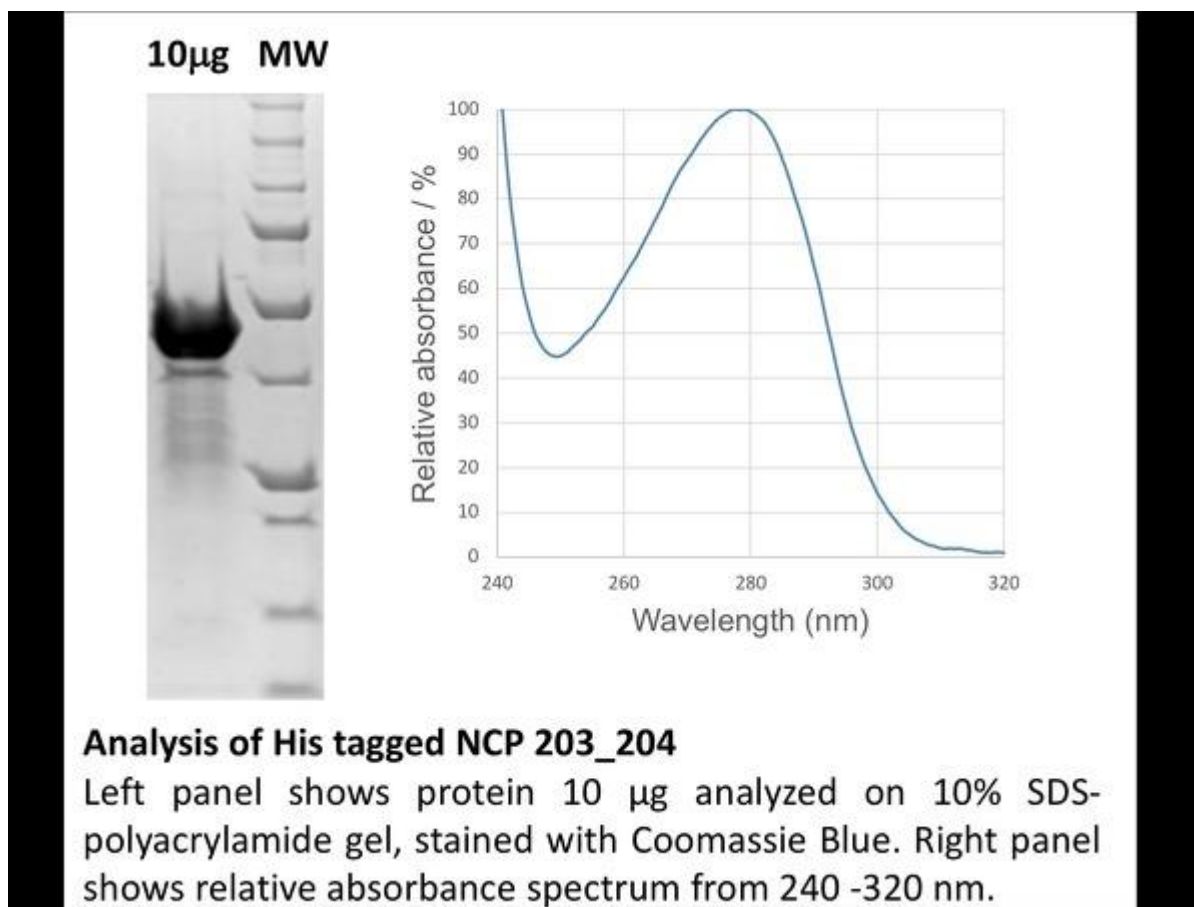
**MOLECULAR WEIGHT:** Experimental by Electrospray Ionisation MS, M+H<sup>+</sup> ion is 46577.0 within 0.002% of calculated mass of M+H<sup>+</sup> ion (46577.72).

**HOMOGENEITY:** ~ 95% by SDS-PAGE. Observable bands identified by MS as the expected protein.

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**ANALYTICAL DATA:**

UV 260/280 nm ratio calculated as 0.6



**STORAGE:** Keep at -80°C. Avoid freeze-thaw cycles as reagent degradation may result.

**APPLICATION:** Suitable for immunoassay.

**DEPOSITOR:** Prof Jon Sayers, The University of Sheffield, UK

**ACKNOWLEDGMENTS** Acknowledgment for publications should read "The following reagent was obtained from the Centre For AIDS Reagents, NIBSC, UK: SARS-CoV-2 Nucleoprotein (203/204: RG>KR mutant, His-tagged) (#101043) from Prof Jon Sayers".

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## 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
Other: 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.			
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 disinfectant. Rinse area with disinfectant followed by water.			
Absorbent materials used to treat spillage should be treated as biologically hazardous waste.			

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