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## Letter of confirmation

Date: 8th Oct, 2021

To whom it may concern

Recently SARS-CoV-2 variant with multiple spike protein mutations has been observed in the United Kingdom, South Africa, Brazil, India and Peru.

According to WHO, the new strain of SARS-CoV-2 was found to affect the performance of some diagnostic assays with an S gene target.

Using the gene sequence published through GISAID [1] and the strain sequence used in the development stage, GCMS R&D team internally analyzed the reactivity of the GENEDIA W COVID-19 and the new strains of SARS-CoV-2 (Lineage B.1.117, Lineage B.1.351, Lineage P.1, Lineage B.1.617, Lineage B.1.617.1, Lineage B.1.617.2, Lineage B.1.617.3, Lineage B.1.618, Lineage C.37, Lineage AY.1, B.1.621 and B.1.621.1) through in-silico analysis.

In addition, it was confirmed that the in-silico analysis and the in-vitro experimental results were consistent with the Green Cross Medical Science's kit by securing the recombinant protein, heat-inactivated virus and cultured SARS-CoV-2 viruses.

### 1.1 Methods

The antigen used in the development of this product is ATCC VR-1986HK(NCBI Accession No: MN985325.1) and sequence alignment was performed based on this sequence.

Four SARS-CoV-2 variants sequence are obtained via GISAID.

Sequence of lineage B.1.1.7(GISAID accession ID: EPI\_ISL\_601443, British variant), lineage B.1.351(GISAID accession ID: EPI\_ISL\_678597, South African variant), lineage P.1(GISAID accession ID: EPI\_ISL\_792680, Brazil variant), lineage B.1.617(GISAID accession ID: EPI\_ISL\_1595896, India variant), lineage B.1.617.1(GISAID accession ID: EPI\_ISL\_2533592, India variant), lineage B.1.617.2(GISAID accession ID: EPI\_ISL\_1419152, India variant), lineage B.1.617.3(GISAID accession ID: EPI\_ISL\_2508617, India variant), lineage B.1.617.4(GISAID accession ID: EPI\_ISL\_2503243, India variant), lineage C.37(GISAID accession ID: EPI\_ISL\_1111285, Lambda variant) and lineage AY.1(GISAID accession ID: EPI\_ISL\_2552218, Delta plus variant), lineage B.1.621(GISAID accession ID: EPI\_ISL\_1582981, Mu variant 1) and lineage B.1.621.1(GISAID accession ID: EPI\_ISL\_1820954, Mu variant 2) are analyze with corresponding sequence(MN985325.1). The sequence analysis was performed in two ways, entire sequence alignment and nucleocapsid protein sequence alignment (28,274-29,533 bp).

The study was conducted in-silico analysis using the basic local alignment search tool (BLAST) function of NCBI webpage [2]. The BLAST is an algorithm and program for comparing primary biological sequence information. This program search enables a researcher to compare a subject sequence with an object sequence, and calculate similarity.

In addition, heat-inactivated virus and the cultured virus(Cultured) were obtained through Zeptomatrix Corp.(USA) and National Culture Collection for Pathogens(KOREA) and recombinant antigen was purchased, and it was decided to add to the effectiveness of the in-

silico analysis through in-vitro experiments using this specimen.

## 1.2 In-silico analysis results

Division	Accession No	Region	Similarity	Conclusion
Lineage B.1.1.7 (British variant)	GISAID accession ID: EPI_ISL_601443	Whole sequence	99.83 %	Conformity
		Nucleocapsid protein	99.66 %	
Lineage B.1.351 (South African variant)	GISAID accession ID: EPI_ISL_678597	Whole sequence	99.86 %	Conformity
		Nucleocapsid protein	99.92 %	
Lineage P.1 (Brazil variant)	GISAID accession ID: EPI_ISL_792680	Whole sequence	99.84 %	Conformity
		Nucleocapsid protein	99.49 %	
Lineage B.1.617 (India variant)	EPI_ISL_1595896	Whole sequence	99.87 %	Conformity
		Nucleocapsid protein	99.75 %	
Lineage B.1.617.1 (India variant)	GISAID accession ID: EPI_ISL_2533592	Whole sequence	93.40 %	Conformity
		Nucleocapsid protein	98.39 %	
Lineage B.1.617.2 (India variant)	GISAID accession ID: EPI_ISL_1419152	Whole sequence	99.92 %	Conformity
		Nucleocapsid protein	99.66 %	
Lineage B.1.617.3 (India variant)	GISAID accession ID: EPI_ISL_2508617	Whole sequence	99.88 %	Conformity
		Nucleocapsid protein	99.75 %	
Lineage B.1.618 (India variant)	GISAID accession ID: EPI_ISL_2503243	Whole sequence	99.92 %	Conformity
		Nucleocapsid protein	96.92 %	
Lineage C.37 (Lambda variant)	GISAID accession ID: EPI_ISL_1111285	Whole sequence	99.89 %	Conformity
		Nucleocapsid protein	99.44 %	
Lineage AY.1 (Delta plus variant)	GISAID accession ID: EPI_ISL_2552218	Whole sequence	99.82 %	Conformity
		Nucleocapsid protein	99.58 %	
Lineage B.1.621 (Mu variant 1)	GISAID accession ID:	Whole sequence	99.72 %	Conformity

	EPI_ISL_1582981	Nucleocapsid protein	99.83 %	
Lineage B.1.621.1 (Mu variant 2)	GISAID accession ID: EPI_ISL_1820954	Whole sequence	99.93 %	Conformity
		Nucleocapsid protein	99.92 %	

### 1.3 In-vitro experimental results (Recombinant Ag)

Division	N protein mutation site	Kit test result
British variant (B.1.1.7)	D3L, R203K, G204R, S235F	Reactive
South African variant (B.1.351)	T205I	Reactive
Brazil variant (P.1)	P80R, R203K, G204R	Reactive
India variant (B.1.617)	R203K, D377Y	Reactive
India variant (B.1.617.1)	R203M, D377Y	Reactive
India variant (B.1.617.2)	D63G, D377Y, R203M	Reactive
India variant (B.1.617.3)	P67S, D377Y, R203M	Reactive
India variant (B.1.618)	G18S, A119S, A217S, M234I, E367Q	Reactive
Lineage C.37 (Lambda variant)	G204R, G214C, P13L, R203K, T366I	Not-Tested
Lineage AY.1 (Delta plus variant)	A252S, D63G, D377Y, G215C, R203M	Not-Tested
Lineage B.1.621 (Mu variant 1)	T205I	Not-Tested
Lineage B.1.621.1 (Mu variant 2)	T205I	Not-Tested

### 1.4 In-vitro experimental results (Heat-Inactivated virus)

Source	Variant division	Kit test result
Zeptomatrix	SARS-CoV-2 (Heat-inactivated) USA-WA1/2020 (Wild type)	Reactive
Zeptomatrix	British variant (GRY clade, B.1.1.7)	Reactive
Zeptomatrix	South African variant	Reactive





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	(GH clade, B.1.351)	
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### 1.5 In-vitro experimental results (Cultured virus)

Source	Variant division	Kit test result
NCCP	Reference material (Wild type)	Reactive (LoD: 5 X 10 <sup>4</sup> PFU/mL)
NCCP	British variant (GRY clade, B.1.1.7)	Reactive (LoD: 5 X 10 <sup>3</sup> PFU/mL)
NCCP	South African variant (GH clade, B.1.351)	Reactive (LoD: 5 X 10 <sup>3</sup> PFU/mL)
NCCP	Brazil variant (GR clade , P.2)	Reactive (LoD: 5 X 10 <sup>3</sup> PFU/mL)
NCCP	India variant (G clade , B.1.617.2)	Reactive (LoD: 5 X 10 <sup>3</sup> PFU/mL)

\* NCCP: National Culture Collection for Pathogens(KOREA)

As a result of in-silico analysis using the above two tools, GENEDIA W COVID-19 Ag are expected to have almost the same nucleocapsid protein reactivity against British, South African, Brazil, India, Lambda Delta plus and Mu(1 & 2) strains as the USA/WA/01 strain used as a standard material.

Furthermore, After the reactivity test with actual virus and recombinant antigen, it was confirmed that the reactivity to SARS-CoV-2 variants (UK, South Africa, Brazil, India) was equal or higher than that of wild-type viruses.

Sincerely,

Jin-woo Jeon

**Jin-Woo Jeon**

Leader of Immuno-diagnostics team, R&D center

Green Cross Medical Science Corporation

**Reference.**

[1]. GISAID.org



[2]. Blast.ncbi.nlm.nih.gov

Raw data

Sequence	Lineage B.1.1.7 (British variant) GISAID accession ID: EPI_ISL_601443	Range	Whole sequence																		
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">4EF3JP9N114</a> Search expires on 03-10 16 14 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID Icl Query_43237 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronav ...</p> <p>Query Length 29882</p> <p>Subject ID Icl Query_43239 (dna)</p> <p>Subject Descr hCoV-19/England/MILK-9E05B3/2020 EPI_ISL_601443 2 ...</p> <p>Subject Length 29764</p> <p>Other reports <a href="#">MSA viewer</a> ⓘ</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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<input checked="" type="checkbox"/> hCoV-19/England/MILK-9E05B3/2020 EPI_ISL_601443/2020-09-20		54706	54706	99%	0.0	99.83%	29764	Query_43239													
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">4EF571GF114</a> Search expires on 03-10 16 15 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID Icl Query_15485 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronav ...</p> <p>Query Length 1260</p> <p>Subject ID Icl Query_15487 (dna)</p> <p>Subject Descr hCoV-19/England/MILK-9E05B3/2020 EPI_ISL_601443 2 ...</p> <p>Subject Length 1259</p> <p>Other reports <a href="#">MSA viewer</a> ⓘ</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>		Nucleocapsid protein																		
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Sequence	Lineage B.1.351 (South African variant) GISAID accession ID: EPI_ISL_678597	Range	Whole sequence																		
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<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">4EF75C27114</a> Search expires on 03-10 16 16 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lc Query_20487 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronav ...</p> <p>Query Length 1260</p> <p>Subject ID lc Query_20489 (dna)</p> <p>Subject Descr hCoV-19/South Africa/KRISP-EC-K005299/2020 EPI_ISL ...</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ⓘ</p>																					
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Sequence	Lineage B.1.351 (South African variant) GISAID accession ID: EPI_ISL_678597	Range	Nucleocapsid protein																		



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Sequence	Lineage P.1 (Brazil variant) GISAID accession ID: EPI_ISL_792680	Range	Whole sequence																		
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<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">5V430FXR114</a> <small>Search expires on 03-27 15:42 pm</small> <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lcl Query_45279 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 1260</p> <p>Subject ID lcl Query_45281 (dna)</p> <p>Subject Descr hCoV-19/Japan/IC-0561/2021 EPI_ISL_792680 2021-01-02</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ⓘ</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>		Nucleocapsid protein																		
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Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession													
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Sequence	Lineage B.1.617 (India variant) GISAID accession ID: EPI_ISL_1595896	Range	Whole sequence																		
Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">7THCU7Y611N</a> <small>Search expires on 04-20 07:49 am</small> <a href="#">Download All</a>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
Program: Blast 2 sequences <a href="#">Citation</a>	Query ID: Icl Query_393529 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronavi ... Query Length: 29882 Subject ID: Icl Query_393531 (dna) Subject Descr: hCoV-19/India/KA-NIMH-SEQ-280/2021 EPI_ISL_1595896 ... Subject Length: 29865 Other reports: <a href="#">MSA viewer</a>																				
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<input checked="" type="checkbox"/> <a href="#">hCoV-19/India/KA-NIMH-SEQ-280/2021 EPI_ISL_1595896 2021-03-19</a>		54866	54866	99%	0.0	99.87%	29865	Query_393531													
Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">7THG2TXH11N</a> <small>Search expires on 04-20 07:51 am</small> <a href="#">Download All</a>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
Program: Blast 2 sequences <a href="#">Citation</a>	Query ID: Icl Query_408531 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronavi ... Query Length: 1260 Subject ID: Icl Query_408533 (dna) Subject Descr: hCoV-19/India/KA-NIMH-SEQ-280/2021 EPI_ISL_1595896 ... Subject Length: 1259 Other reports: <a href="#">MSA viewer</a>																				
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Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession													
<input checked="" type="checkbox"/> <a href="#">hCoV-19/India/KA-NIMH-SEQ-280/2021 EPI_ISL_1595896 2021-03-19</a>		2241	2241	96%	0.0	99.75%	29865	Query_408533													

Sequence	Lineage B.1.617.1 (India variant) GISAID accession ID: EPI_ISL_2533592	Range	Whole sequence																		
Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">CGSWV1RD114</a> Search expires on 06-16 16 23 pm <a href="#">Download All</a> <input type="checkbox"/> Program: Blast 2 sequences <a href="#">Citation</a> <input type="checkbox"/> Query ID: lcl Query_7629 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronavir ... Query Length: 29882 Subject ID: lcl Query_7631 (dna) Subject Descr: hCoV-19/Ireland/C-NVRL-e90IRL79644/2021 EPI_ISL_25 ... Subject Length: 29758 Other reports: <a href="#">MSA viewer</a> <input type="checkbox"/>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
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Sequence	Lineage B.1.617.1 (India variant) GISAID accession ID: EPI_ISL_2533592	Range	Nucleocapsid protein																		
Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">CGSNRJJS114</a> Search expires on 06-16 16 20 pm <a href="#">Download All</a> <input type="checkbox"/> Program: Blast 2 sequences <a href="#">Citation</a> <input type="checkbox"/> Query ID: lcl Query_22685 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronavir ... Query Length: 1260 Subject ID: lcl Query_22687 (dna) Subject Descr: hCoV-19/Ireland/C-NVRL-e90IRL79644/2021 EPI_ISL_25 ... Subject Length: 1259 Other reports: <a href="#">MSA viewer</a> <input type="checkbox"/>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
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Sequence	Lineage B.1.617.2 (India variant) GISAID accession ID: EPI_ISL_1419152	Range	Whole sequence																		
Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">CGSZZDTR114</a> Search expires on 06-16 16:25 pm <a href="#">Download All</a> Program: Blast 2 sequences <a href="#">Citation</a> Query ID: Icl Query_19677 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronav ... Query Length: 29882 Subject ID: Icl Query_19679 (dna) Subject Descr: hCoV-19/India/WB-1931500912396/2021 EPI_ISL_1419152 2021-03-04 Subject Length: 29769 Other reports: <a href="#">MSA viewer</a>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
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Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">CGSYNXWP114</a> Search expires on 06-16 16:24 pm <a href="#">Download All</a> Program: Blast 2 sequences <a href="#">Citation</a> Query ID: Icl Query_49311 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronav ... Query Length: 1260 Subject ID: Icl Query_49313 (dna) Subject Descr: hCoV-19/India/WB-1931500912396/2021 EPI_ISL_1419152 2021-03-04 Subject Length: 1259 Other reports: <a href="#">MSA viewer</a>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
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Job Title: <b>MN985325.1 Severe acute respiratory syndrome</b> RID: <a href="#">CGSYNXWP114</a> Search expires on 06-16 16:24 pm <a href="#">Download All</a> Program: Blast 2 sequences <a href="#">Citation</a> Query ID: Icl Query_49311 (dna) Query Descr: MN985325.1 Severe acute respiratory syndrome coronav ... Query Length: 1260 Subject ID: Icl Query_49313 (dna) Subject Descr: hCoV-19/India/WB-1931500912396/2021 EPI_ISL_1419152 2021-03-04 Subject Length: 1259 Other reports: <a href="#">MSA viewer</a>	<b>Filter Results</b> Percent Identity: <input type="text"/> to <input type="text"/> E value: <input type="text"/> to <input type="text"/> Query Coverage: <input type="text"/> to <input type="text"/> <input type="button" value="Filter"/> <input type="button" value="Reset"/>																				
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Sequence	Lineage B.1.617.3 (India variant) GISAID accession ID: EPI_ISL_2508617	Range	Whole sequence																		
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">CGT39VEN114</a> Search expires on 06-16 16 27 pm <a href="#">Download All</a> ▼</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▼</p> <p>Query ID Icl Query_29497 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 29882</p> <p>Subject ID Icl Query_29499 (dna)</p> <p>Subject Descr hCoV-19/Singapore/842/2021 EPI_ISL_2508617 2021-04-30</p> <p>Subject 29838</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ?</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/> E value <input type="text"/> to <input type="text"/> Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession													
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<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">CGT1BZDR114</a> Search expires on 06-16 16 26 pm <a href="#">Download All</a> ▼</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▼</p> <p>Query ID Icl Query_61177 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 1260</p> <p>Subject ID Icl Query_61179 (dna)</p> <p>Subject Descr hCoV-19/Singapore/842/2021 EPI_ISL_2508617 2021-04-30</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ?</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/> E value <input type="text"/> to <input type="text"/> Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession													
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Sequence	Lineage B.1.618 (India variant) GISAID accession ID: EPI_ISL_2503243	Range	Whole sequence																		
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">CGT635MK114</a> Search expires on 06-16 16 28 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lcl Query_25495 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 29882</p> <p>Subject ID lcl Query_25497 (dna)</p> <p>Subject Descr hCoV-19/India/WB-1931300254172/2021 EPI_ISL_25032 ...</p> <p>Subject 29776</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ?</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/> E value <input type="text"/> to <input type="text"/> Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">CGT4W2Y4114</a> Search expires on 06-16 16 28 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lcl Query_63443 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 1260</p> <p>Subject ID lcl Query_63445 (dna)</p> <p>Subject Descr hCoV-19/India/WB-1931300254172/2021 EPI_ISL_25032 ...</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ?</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/> E value <input type="text"/> to <input type="text"/> Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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Sequence	Lineage C.37 (Lambda variant) GISAID accession ID: EPI_ISL_1111285	Range	Whole sequence																		
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">CSP345XE114</a> Search expires on 06-19 16:25 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lcl Query_56239 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavi ...</p> <p>Query Length 29882</p> <p>Subject ID lcl Query_56241 (dna)</p> <p>Subject Descr hCoV-19/Peru/LIM-INS-387/2021 EPI_ISL_1111285 2021- ...</p> <p>Subject Length 29901</p> <p>Other reports <a href="#">MSA viewer</a> ?</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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Sequence	Lineage AY.1 (Delta plus variant) GISAID accession ID: EPI_ISL_2552218	Range	Whole sequence																		
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<p><b>Sequences producing significant alignments</b>    Download ▾    <span style="color:red">New</span> Select columns ▾    Show <input type="text" value="100"/> ?</p> <p><input checked="" type="checkbox"/> select all    1 sequences selected    <a href="#">Graphics</a>    <span style="color:red">New</span> <a href="#">MSA Viewer</a></p> <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Description</th> <th>Scientific Name</th> <th>Max Score</th> <th>Total Score</th> <th>Query Cover</th> <th>E value</th> <th>Per. Ident</th> <th>Acc. Len</th> <th>Accession</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> <a href="#">hCoV-19/England/MILK-1681BC1/2021 EPI_ISL_2552218 2021-06-09</a></td> <td></td> <td>54691</td> <td>54691</td> <td>99%</td> <td>0.0</td> <td>99.82%</td> <td>29769</td> <td>Query_39097</td> </tr> </tbody> </table>				Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession	<input checked="" type="checkbox"/> <a href="#">hCoV-19/England/MILK-1681BC1/2021 EPI_ISL_2552218 2021-06-09</a>		54691	54691	99%	0.0	99.82%	29769	Query_39097
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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">D8A2PUR3114</a> <small>Search expires on 06-25 14 38 pm</small> <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID <a href="#">Ic Query_58543</a> (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavir ...</p> <p>Query Length 1260</p> <p>Subject ID <a href="#">Ic Query_58545</a> (dna)</p> <p>Subject Descr hCoV-19/England/MILK-1681BC1/2021 EPI_ISL_2552218 2021-06-09</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ?</p> </div> <div style="width: 50%;"> <p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/> E value <input type="text"/> to <input type="text"/> Query Coverage <input type="text"/> to <input type="text"/></p> <p style="text-align: right;"><a href="#">Filter</a> <a href="#">Reset</a></p> </div> </div>																					
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Sequence	Lineage B.1.621 (Mu variant 1) GISAID accession ID: EPI_ISL_1582981	Range	Whole sequence																		
<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">K3D1BHRN11N</a> Search expires on 09-04 13:35 pm <a href="#">Download All</a></p> <p>Program Blast 2 sequences <a href="#">Citation</a></p> <p>Query ID lcl Query_274223 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavir ...</p> <p>Query Length 29882</p> <p>Subject ID lcl Query_274225 (dna)</p> <p>Subject Descr hCoV-19/Colombia/NSA-INS-VG-1687/2021 EPI_ISL_1582981</p> <p>Subject Length 29781</p> <p>Other reports <a href="#">MSA viewer</a></p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>																				
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Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession													
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<p>Job Title <b>MN985325.1 Severe acute respiratory syndrome</b></p> <p>RID <a href="#">K3DDUMMU114</a> Search expires on 09-04 13:42 pm <a href="#">Download All</a> ▾</p> <p>Program Blast 2 sequences <a href="#">Citation</a> ▾</p> <p>Query ID lc Query_15883 (dna)</p> <p>Query Descr MN985325.1 Severe acute respiratory syndrome coronavir ...</p> <p>Query Length 1260</p> <p>Subject ID lc Query_15885 (dna)</p> <p>Subject Descr hCoV-19/Colombia/BOL-INS-VG-2002/2021 EPI_ISL_182 ...</p> <p>Subject 1259</p> <p>Length</p> <p>Other reports <a href="#">MSA viewer</a> ⓘ</p>	<p><b>Filter Results</b></p> <p>Percent Identity <input type="text"/> to <input type="text"/></p> <p>E value <input type="text"/> to <input type="text"/></p> <p>Query Coverage <input type="text"/> to <input type="text"/></p> <p><a href="#">Filter</a> <a href="#">Reset</a></p>		Nucleocapsid protein																		
<p><b>Descriptions</b> Graphic Summary Alignments Dot Plot</p>																					
<p><b>Sequences producing significant alignments</b> Download ▾ <a href="#">New</a> Select columns ▾ Show 100 ▾ ⓘ</p> <p><input checked="" type="checkbox"/> select all 1 sequences selected <a href="#">Graphics</a> <a href="#">New MSA Viewer</a></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Scientific Name</th> <th>Max Score</th> <th>Total Score</th> <th>Query Cover</th> <th>E value</th> <th>Per. Ident</th> <th>Acc. Len</th> <th>Accession</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> hCoV-19/Colombia/BOL-INS-VG-2002/2021 EPI_ISL_1820954 2021-03-30</td> <td></td> <td>2215</td> <td>2215</td> <td>95%</td> <td>0.0</td> <td>99.92%</td> <td>29778</td> <td>Query_15885</td> </tr> </tbody> </table>				Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession	<input checked="" type="checkbox"/> hCoV-19/Colombia/BOL-INS-VG-2002/2021 EPI_ISL_1820954 2021-03-30		2215	2215	95%	0.0	99.92%	29778	Query_15885
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