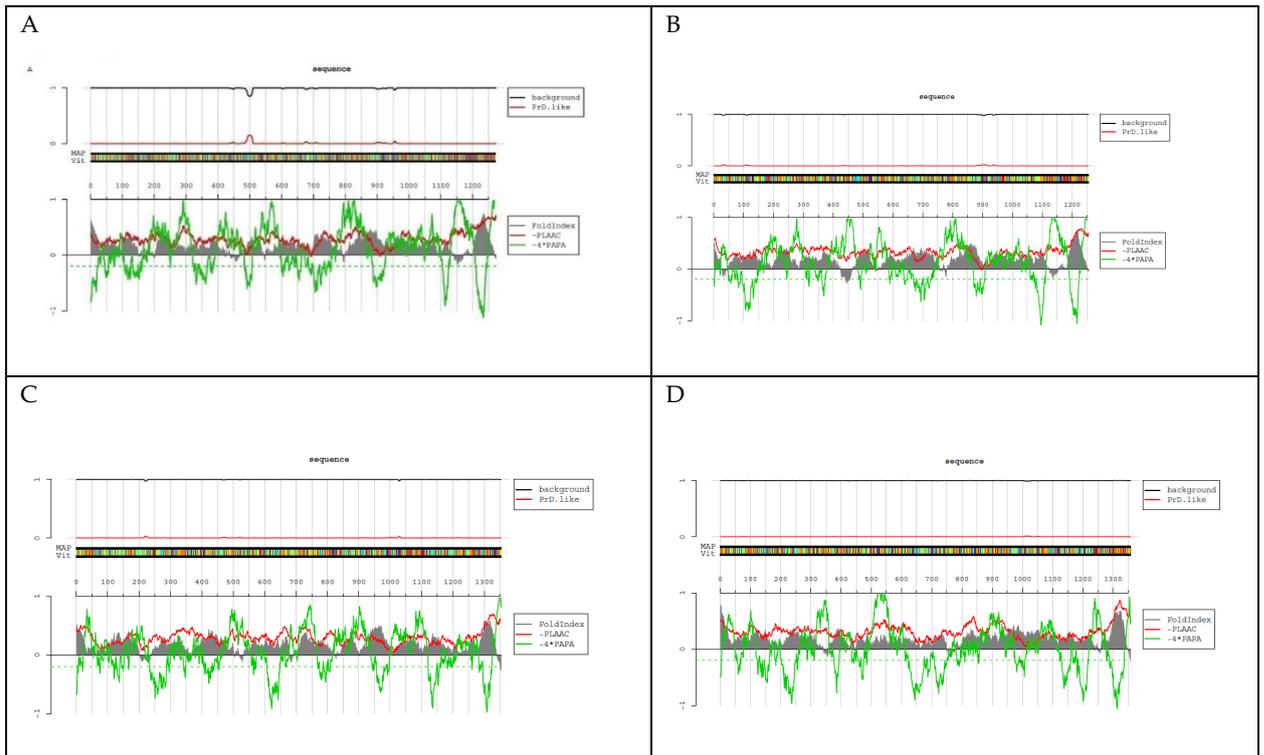
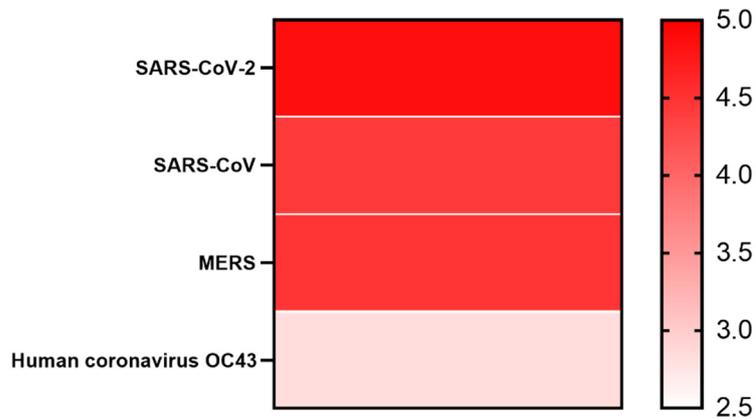


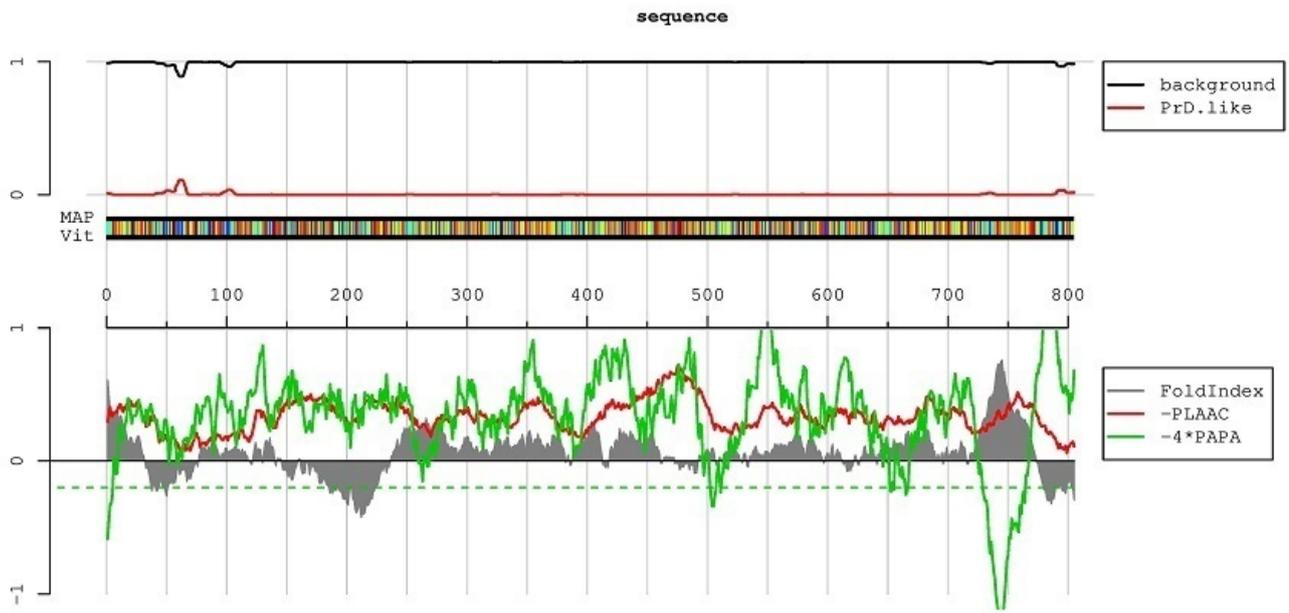
## Supplementary Materials



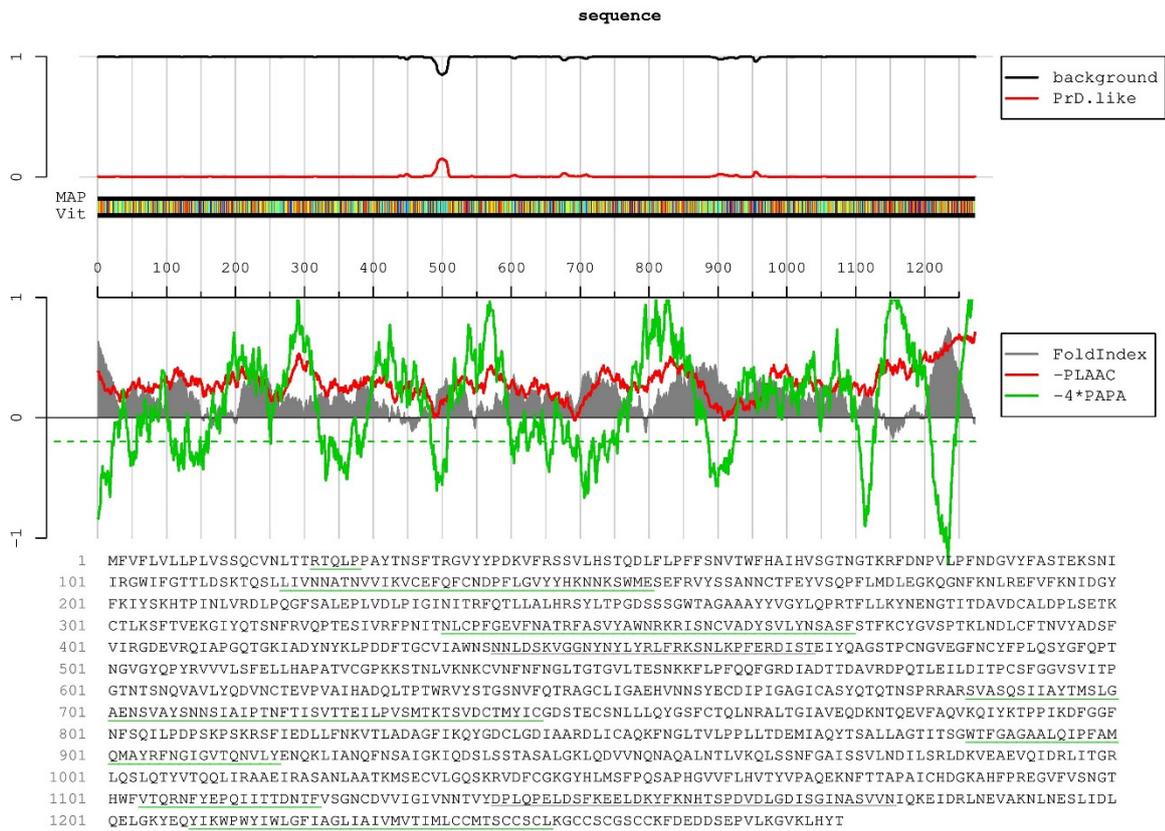
**Figure S1.** The LLR value of the S protein from (A) SARS-CoV-2 (LLR 4.856), (B) SARS-CoV (LLR 4.426), (C) MERS-CoV (LLR 4.49) and (D) HcoV-OC43 (LLR 2.828).



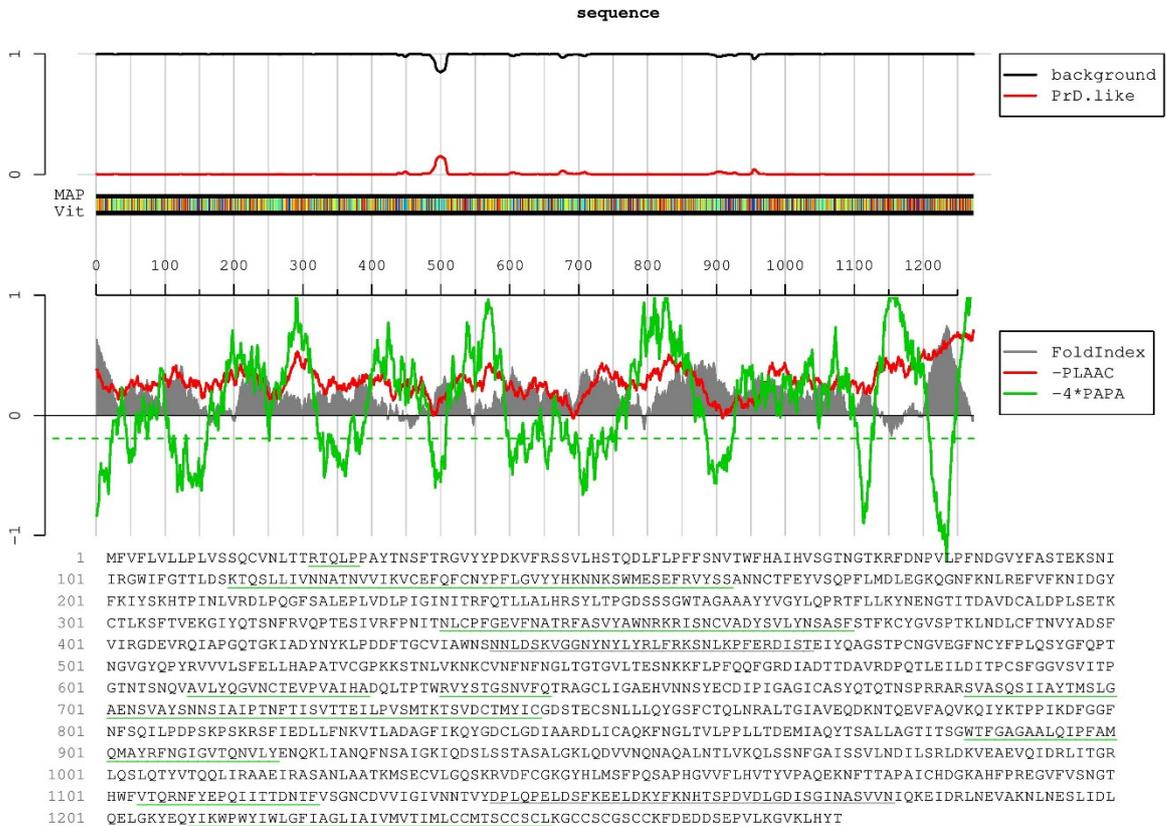
**Figure S2.** Heatmap of PrD distribution in S proteins in  $\beta$ -CoVs. Cells indexed by rows and columns are marked using a color gradient, ranging from white (LLR < 3.0) to saturated red (LLR = 5). The results were analyzed using one-way ANOVA.



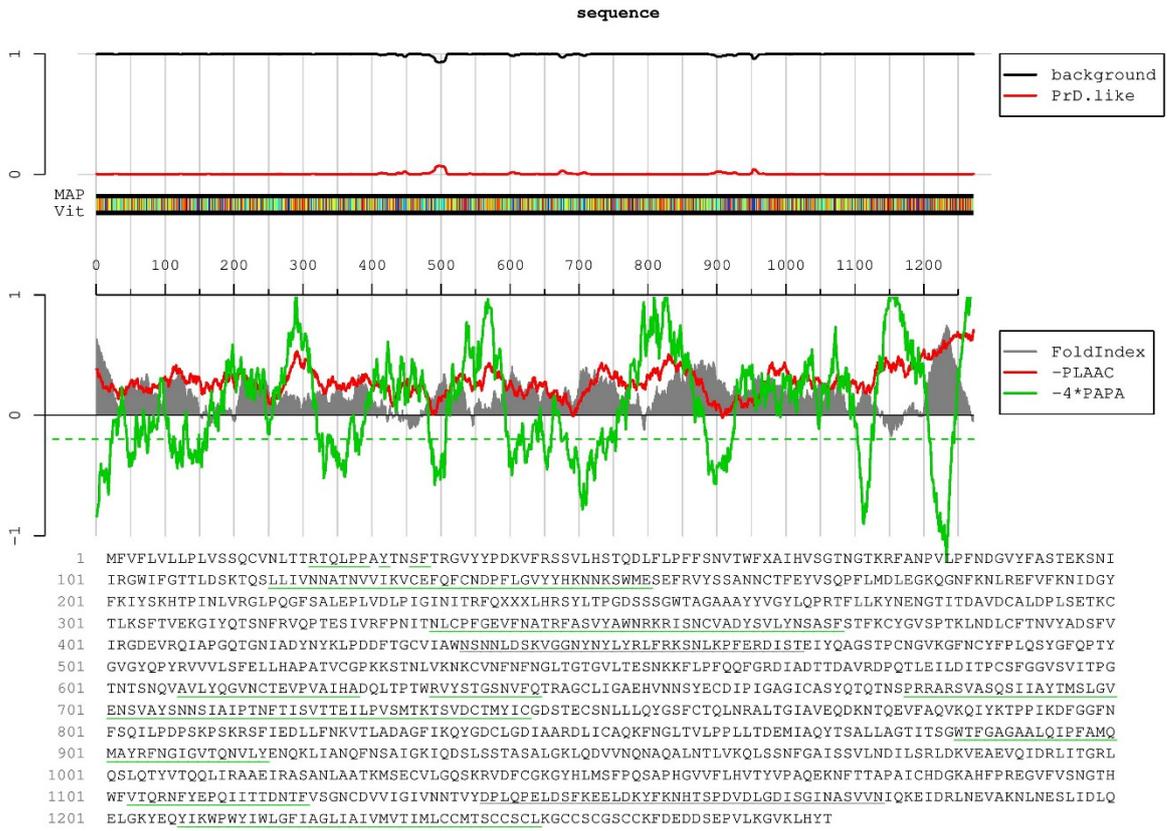
**Figure S3.** Graphical representation of the LLR score (LLR score 4.220) of PrDs in the ACE2 protein.



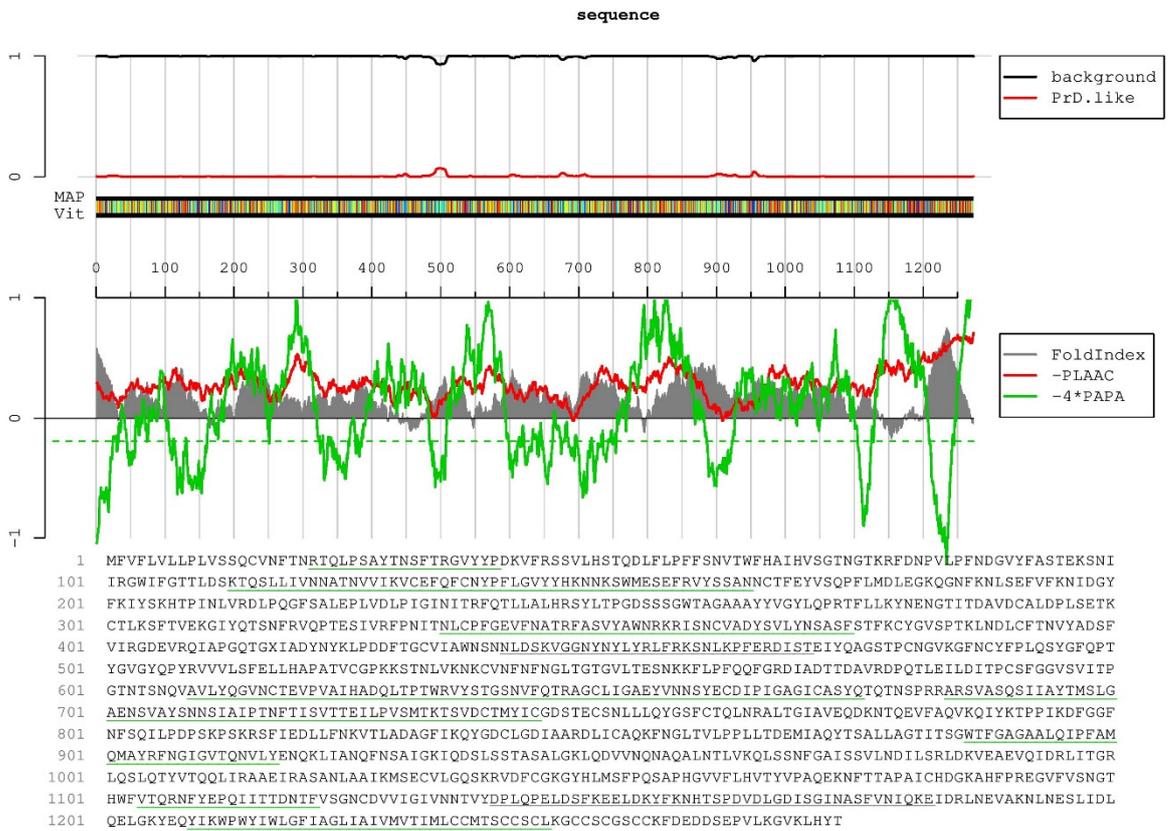
A



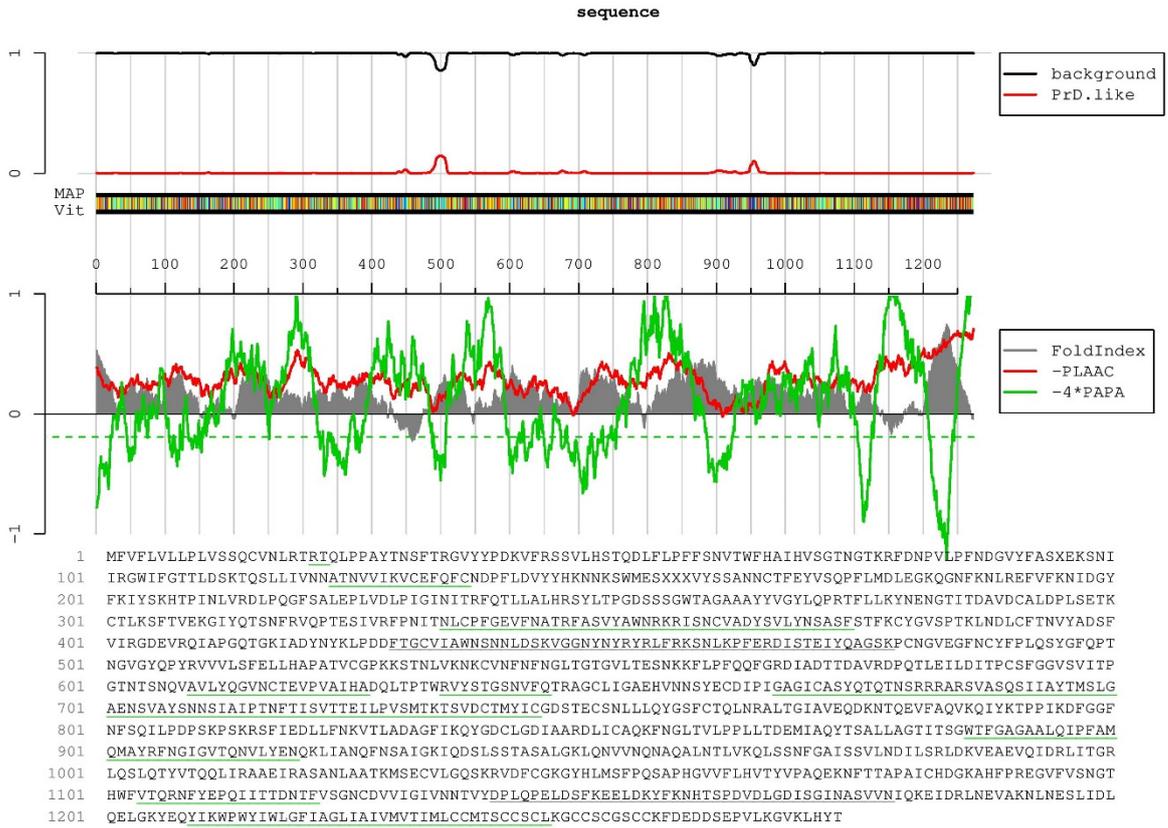
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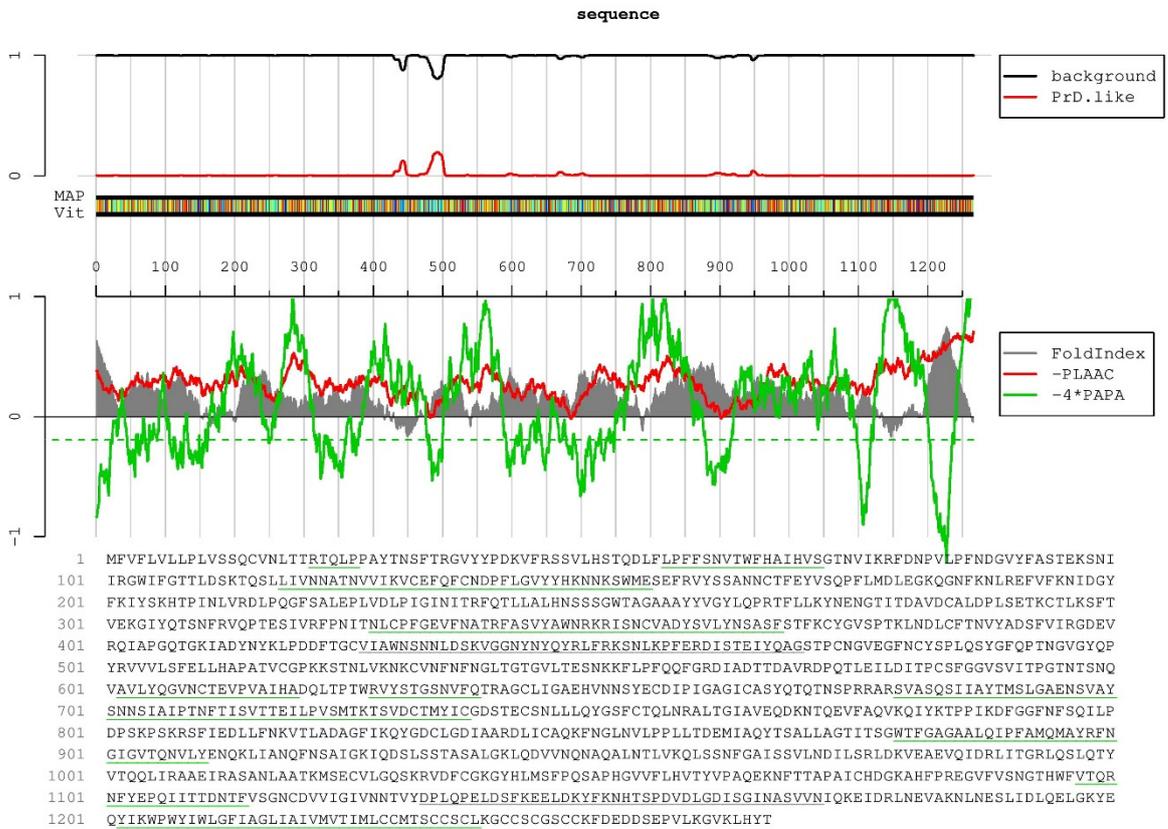
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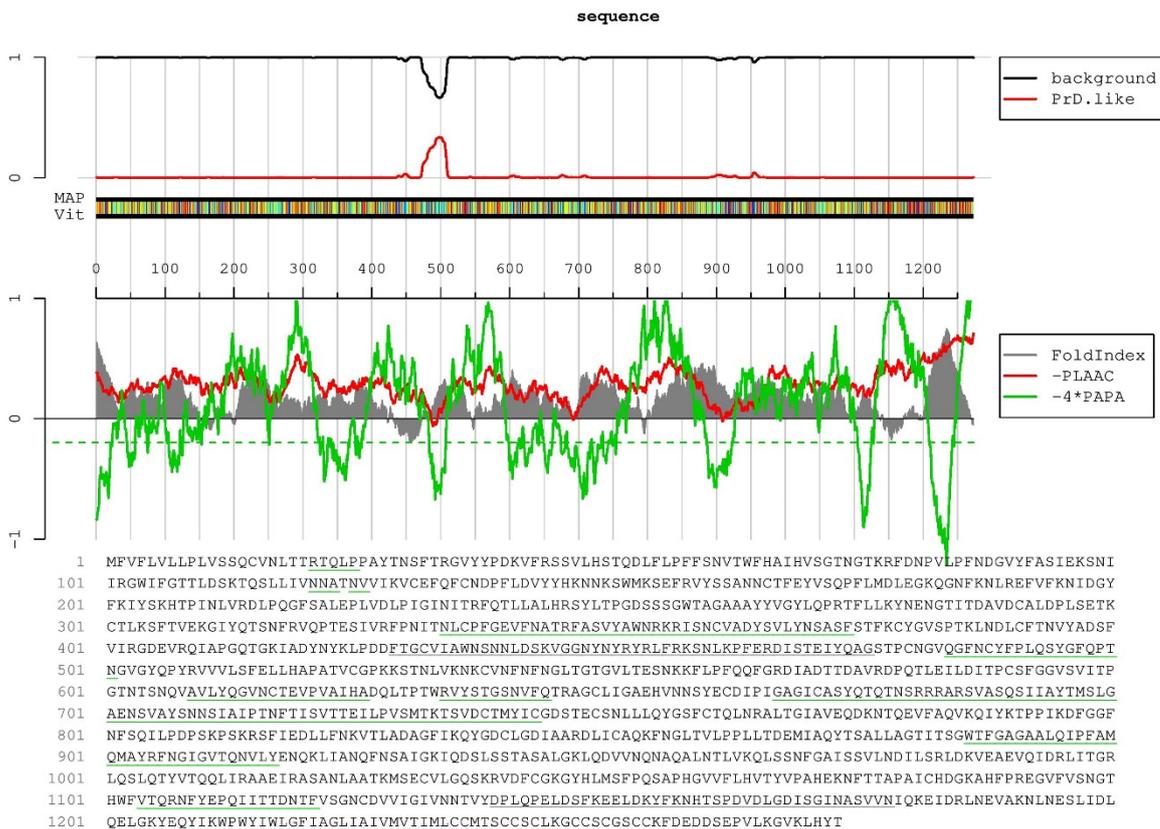
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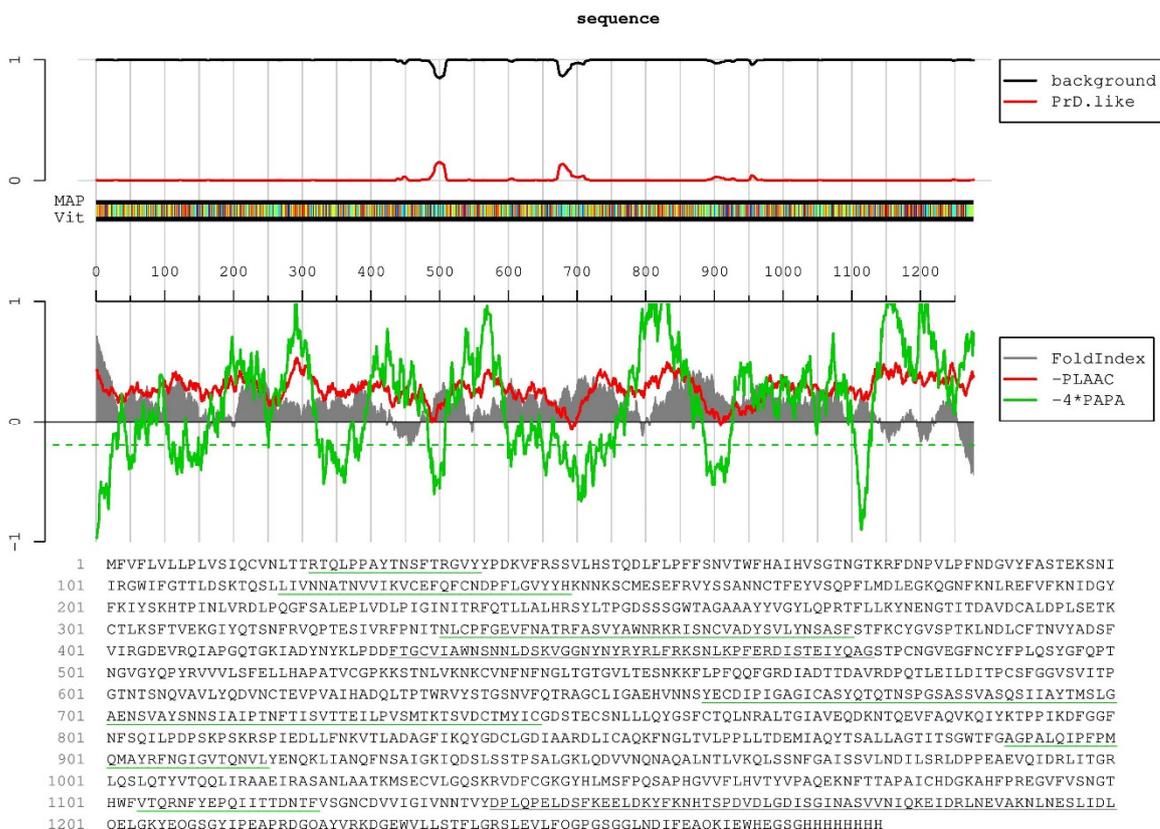
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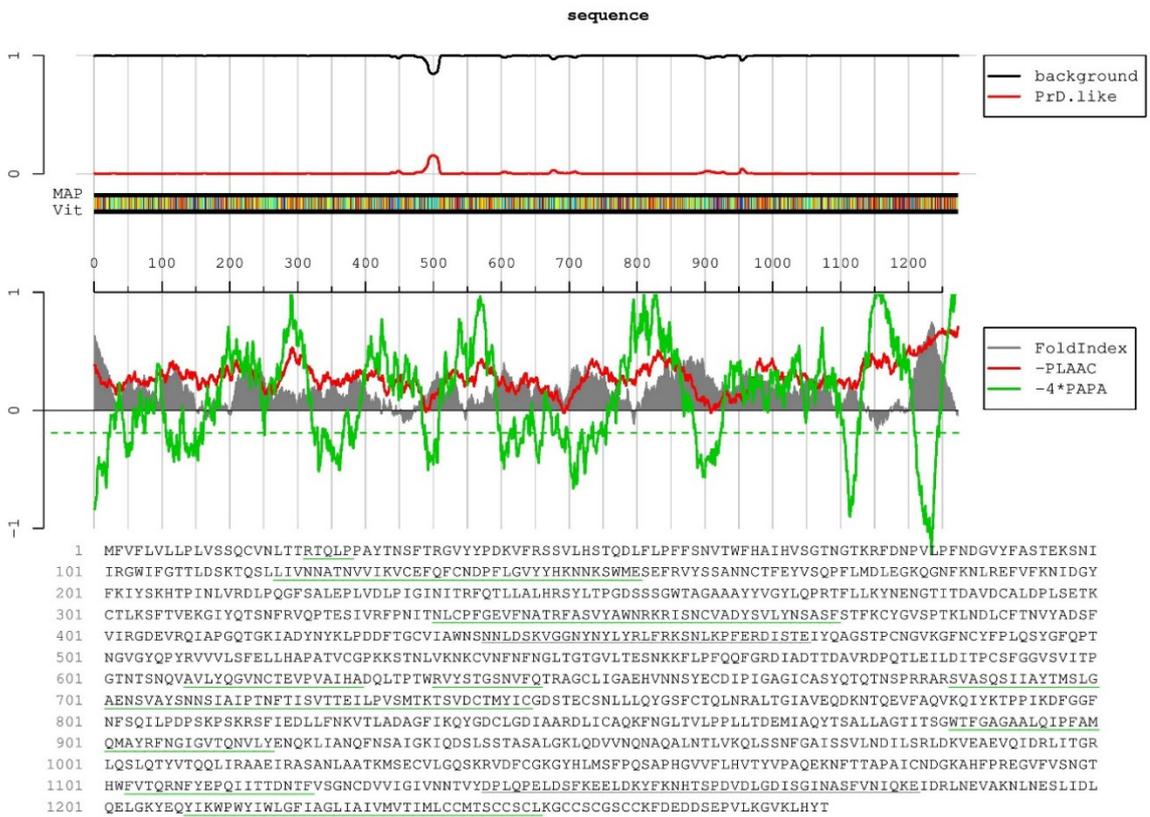
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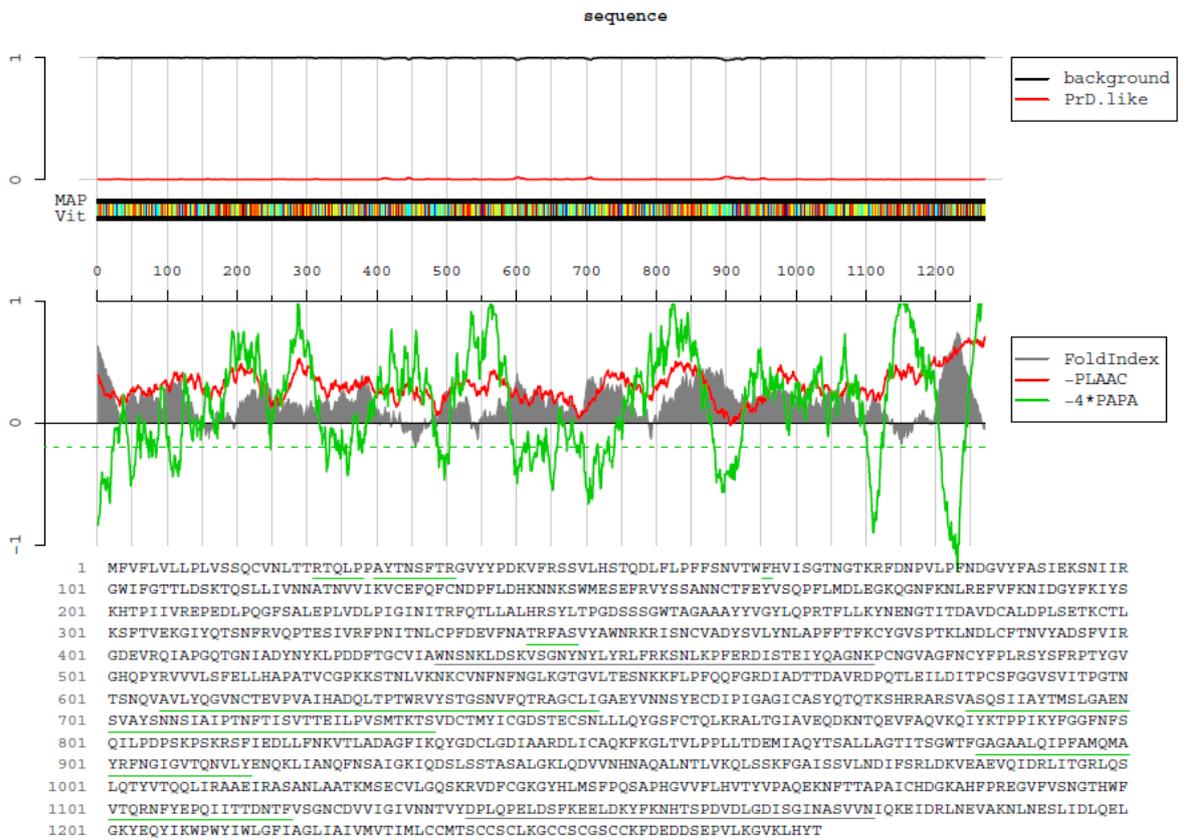
G



H



I



J

**Figure S4.** Graphical representation of the LLR score in the PrDs of the S protein from different SARS-CoV-2 variants (A–J). The different variants are shown within each of the subfigures.