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(54) Title: GENOMIC EDITING OF IMPROVED EFFICIENCY AND ACCURACY

(57) Abstract: Provided are compositions and methods for enhanced prime editing, which include a pegRNA that encodes a target mutation in a target protein, along with one or more nearby silent or conservative mutations. These silent mutations can increase the editing efficiency, without causing a change to the target protein sequence. Also provided are compositions and methods of using the improved prime editing for preventing or treating infections by SARS-CoV or SARS-CoV-2.

WO 2022/100662 A1