



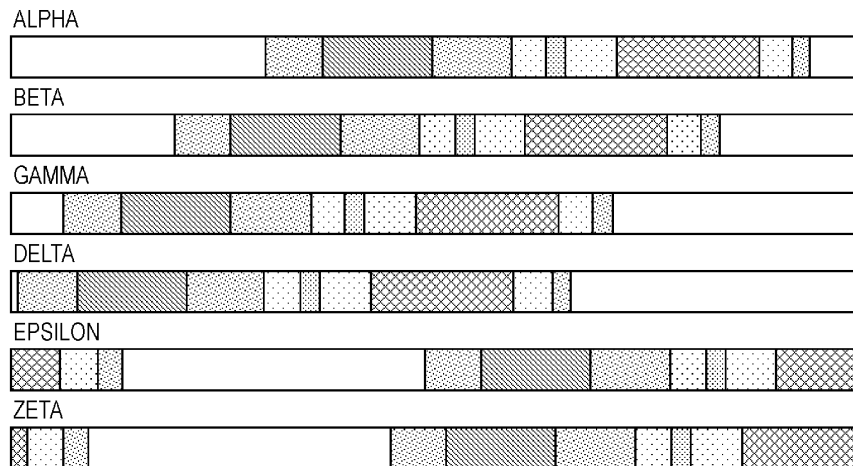
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(54) **Title:** CIRCULAR PERMUTANTS OF CAS12A

FIG. 1B



(57) **Abstract:** Described herein are circular permutants along with compositions and systems comprising the circular permutants. Fusion proteins including a circular permutant are also described such as fusion proteins that include a circular permutant fused to a polypeptide of interest (e.g., a deaminase or reverse transcriptase). Also described herein are methods of using and/or producing a circular permutant such as methods of using a circular permutant for modifying or editing a target nucleic acid.

[Continued on next page]

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