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(54) Title: COMPOSITIONS COMPRISING A VARIANT CAS12I4 POLYPEPTIDE AND USES THEREOF

(57) Abstract: The present invention relates to variant Cas12i4 polypeptides, methods of producing the variant Cas12i4 polypeptides, processes for characterizing the variant Cas12i4 polypeptides, cells comprising the variant Cas12i4 polypeptides, and methods of using the variant Cas12i4 polypeptides. The invention further relates to complexes comprising a variant Cas12i4 polypeptide and an RNA guide, methods of producing the complexes, processes for characterizing the complexes, cells comprising the complexes, and methods of using the complexes.