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(54) Title: RECOMBINANT AD35 VECTORS AND RELATED GENE THERAPY IMPROVEMENTS

(57) Abstract: The present disclosure provides, among other things, helper-dependent adenoviral serotype 35 (Ad35) vectors. In various embodiments, helper-dependent Ad35 vectors can be used to deliver a therapeutic payload to a subject in need thereof. Exemplary payloads can encode replacement proteins, antibodies, CARs, TCRs, small RNAs, and genome editing systems. In certain embodiments, a helper-dependent Ad35 vector is engineered for integration of a payload into a host cell genome. The present disclosure further includes methods of gene therapy that include administration of a helper-dependent Ad35 vector to a subject in need thereof.

WO 2021/003432 A1