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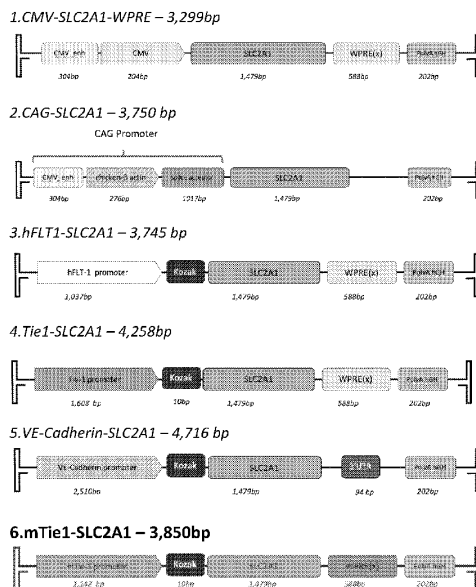
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(54) **Title:** ADENO-ASSOCIATED VIRAL VECTOR FOR GLUT1 EXPRESSION AND USES THEREOF

FIG. 1



(57) **Abstract:** Provided herein is a gene therapy for GLUT1 Deficiency Syndrome and related disorders using a recombinant adeno-associated virus (rAAV) virion as a vector to express an GLUT1 protein or a functional variant thereof. The capsid may be an AAV-BR1 capsid or a functional variant thereof. Other promoters or capsids may be used. The rAAV virion may use an endothelial-specific promoter, e.g., a FLT-1 promoter. Further provided are methods of treatment, such as by intracerebrally and/or intravenously of the rAAV virion, and other compositions and methods.

[Continued on next page]

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