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(19) **United States**(12) **Patent Application Publication**
Acharjee(10) **Pub. No.: US 2018/0036429 A1**(43) **Pub. Date: Feb. 8, 2018**(54) **CHIMERIC VSV-G PROTEINS AS NUCLEIC
ACID TRANSFER VEHICLES**(71) Applicant: **Serendipity Biotech Inc.**, New York,
NY (US)(72) Inventor: **Sujata Acharjee**, New York, NY (US)(73) Assignee: **Serendipity Biotech Inc.**, New York,
NY (US)(21) Appl. No.: **15/791,262**(22) Filed: **Oct. 23, 2017****Related U.S. Application Data**(63) Continuation of application No. 14/695,265, filed on
Apr. 24, 2015, now Pat. No. 9,821,076.(60) Provisional application No. 61/984,290, filed on Apr.
25, 2014.**Publication Classification**(51) **Int. Cl.****A61K 48/00** (2006.01)**C07K 14/005** (2006.01)**C07K 14/435** (2006.01)**C12N 9/22** (2006.01)**C07K 14/47** (2006.01)(52) **U.S. Cl.**CPC **A61K 48/0008** (2013.01); **C07K 2319/85**(2013.01); **C07K 2319/80** (2013.01); **C07K****2319/01** (2013.01); **C12N 9/22** (2013.01);**C07K 14/4722** (2013.01); **C07K 14/435**(2013.01); **C07K 14/005** (2013.01)

(57)

ABSTRACT

The design and generation of a number of chimeric VSV-G (or VSV-G variants) proteins are used as transfer vehicles to enhance delivery of nucleic acids like plasmid DNA, single and double stranded DNA and RNA, and antisense oligonucleotides into human and animal cells. These chimeric VSV-G protein-nucleic acid transfer vehicles have widespread applications to deliver nucleic acids for exon skipping and gene delivery for gene replacement in human and animals.

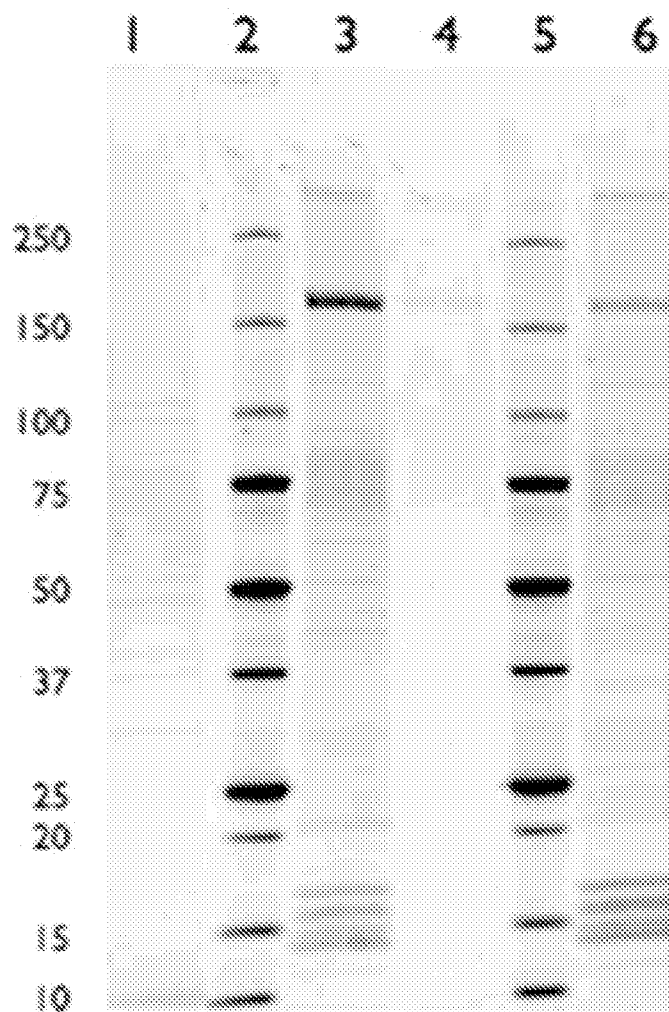


FIG. 1

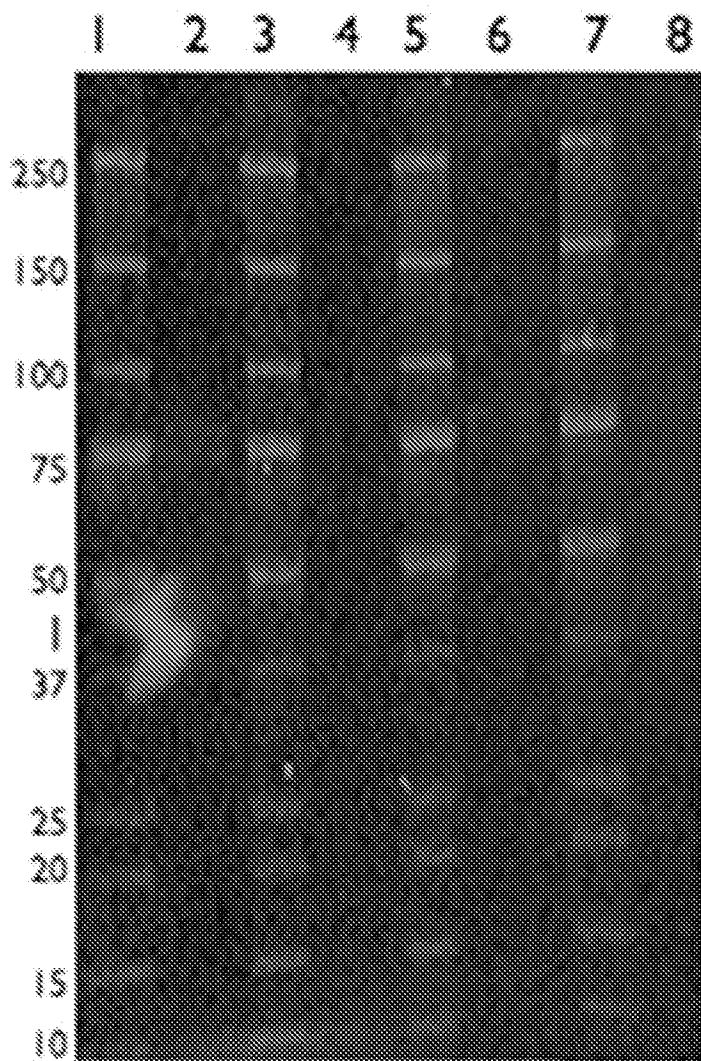


FIG. 2

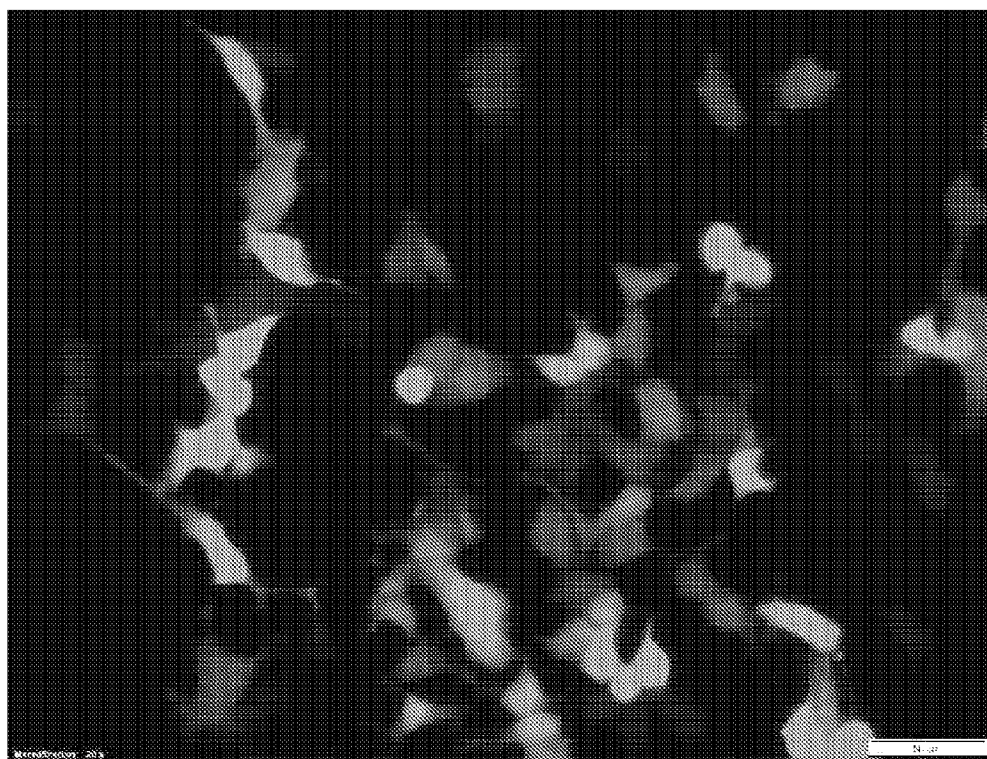


FIG. 3

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FIG. 4A

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