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(19) **United States**(12) **Patent Application Publication****Albertini et al.**(10) **Pub. No.: US 2020/0216502 A1**(43) **Pub. Date: Jul. 9, 2020**(54) **MUTATED GLYCOPROTEIN OF VESICULAR STOMATITIS VIRUS**(30) **Foreign Application Priority Data**

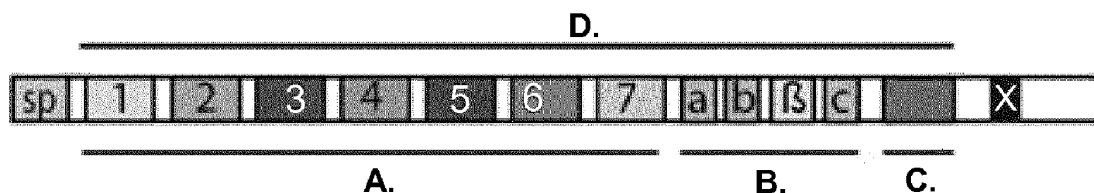
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(71) Applicants: **Centre National de la Recherche Scientifique (CNRS)**, Paris (FR); **UNIVERSITE PARIS-SUD**, Orsay (FR)**Publication Classification**(51) **Int. Cl.****C07K 14/005** (2006.01)**C12N 7/00** (2006.01)(52) **U.S. Cl.**CPC ..... **C07K 14/005** (2013.01); **C12N 7/00** (2013.01); **C12N 2760/20262** (2013.01); **C12N 2760/20232** (2013.01); **C12N 2760/20245** (2013.01); **C12N 2760/20222** (2013.01)(72) Inventors: **Aur lie Albertini**, Gometz Le Chatel (FR); **Yves Gaudin**, Paris (FR); **H l ne Raux**, Antony (FR); **Laura Belot**, Maurepas (FR); **Jovan Nikolic**, Paris (FR)(57) **ABSTRACT**

The invention relates to an isolated non-naturally occurring protein comprising the amino acid sequence as set forth in SEQ ID NO: 1, and wherein the amino acid in position 8, 47, 209 and/or 354 is substituted by any amino acid different from the amino acid indicated at that position in said sequence SEQ ID NO: 1.

**Specification includes a Sequence Listing.**(21) Appl. No.: **16/649,271**(22) PCT Filed: **Sep. 24, 2018**(86) PCT No.: **PCT/EP2018/075824**

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(2) Date: **Mar. 20, 2020**

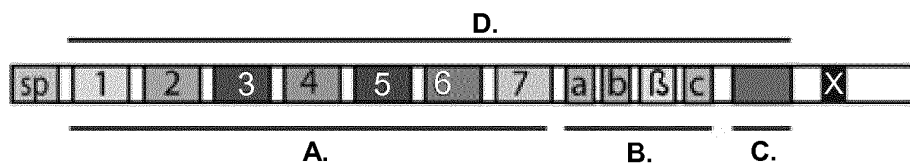


Fig. 1

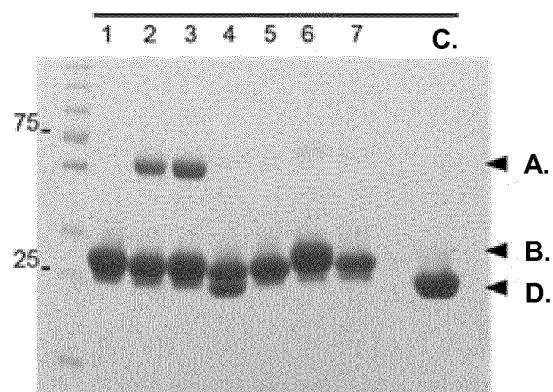


Fig. 2

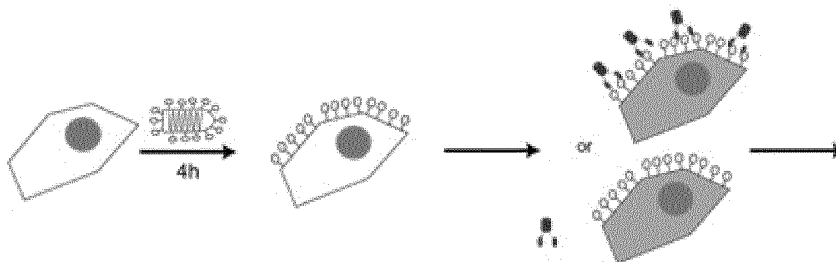
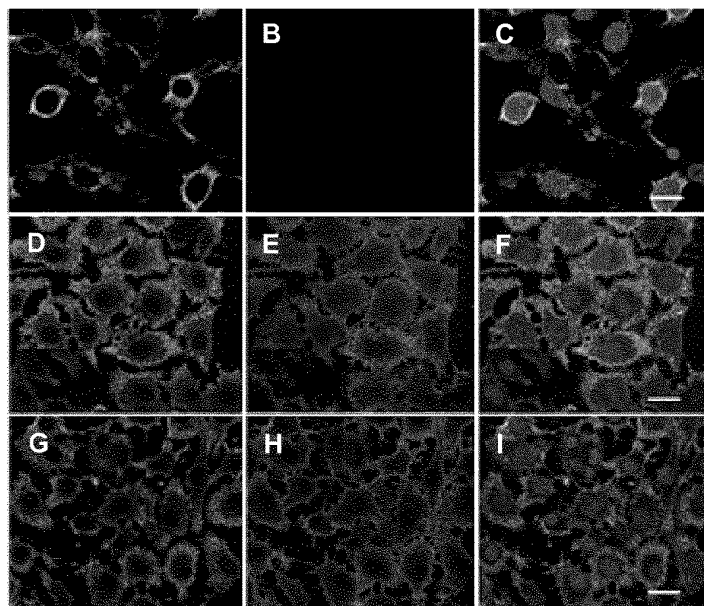


Fig. 3



Figs. 4

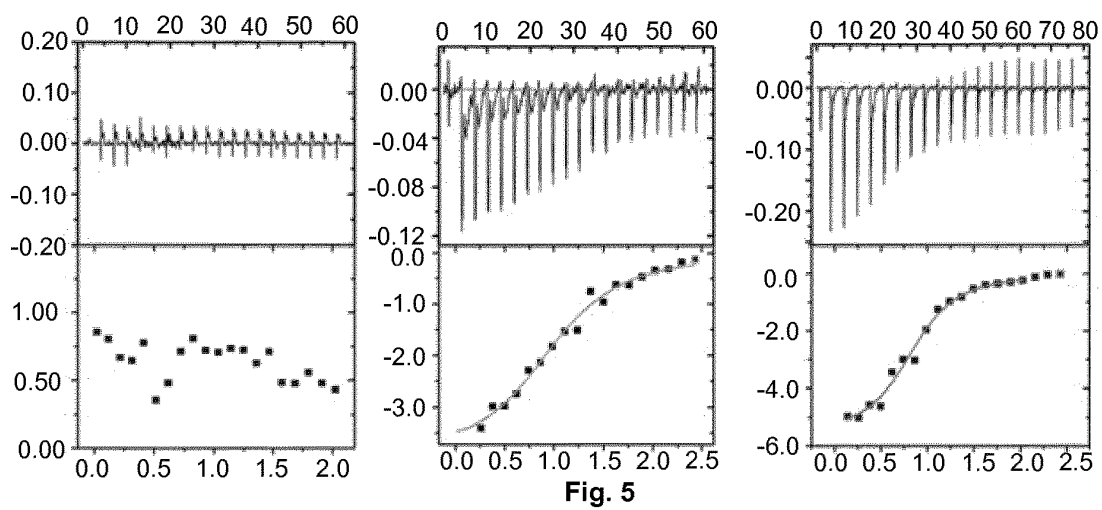
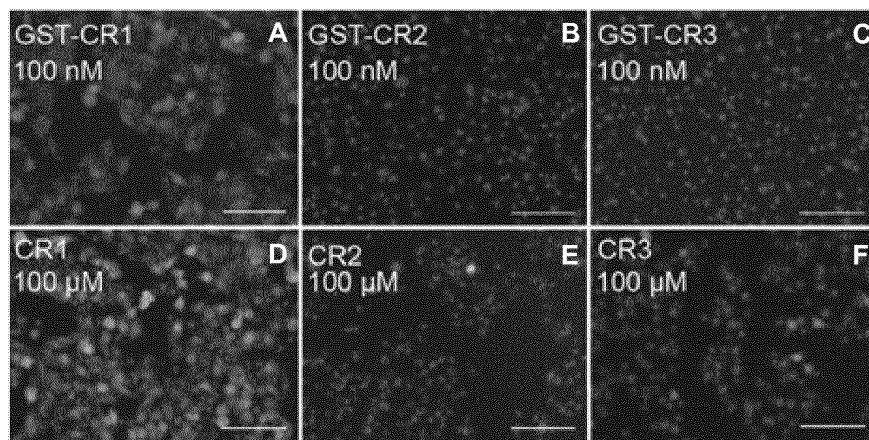


Fig. 5



Figs. 6

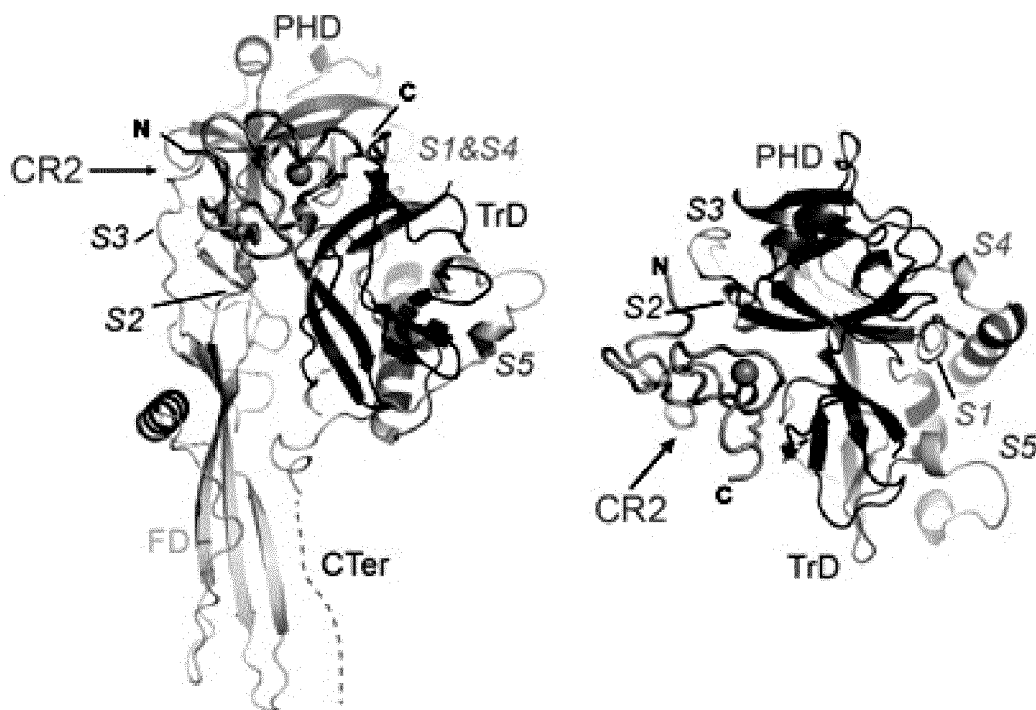


Fig. 7





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