



SELECTED OPPORTUNITIES IN INFECTIOUS DISEASES

An attenuated mutant Zika virus to be used as vaccine
(BIO16236)

▶ **Product:** An attenuated mutant Zika virus (ZIKAmiR)

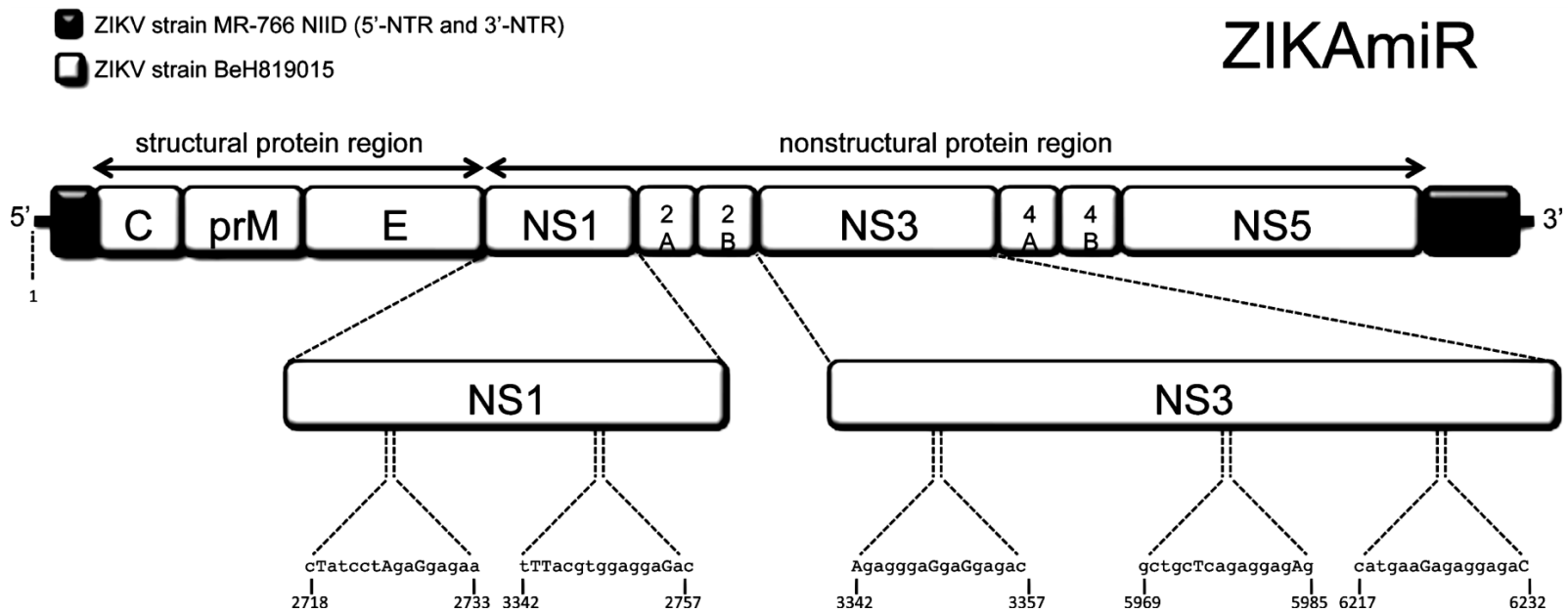
▶ **Rational / POC:**

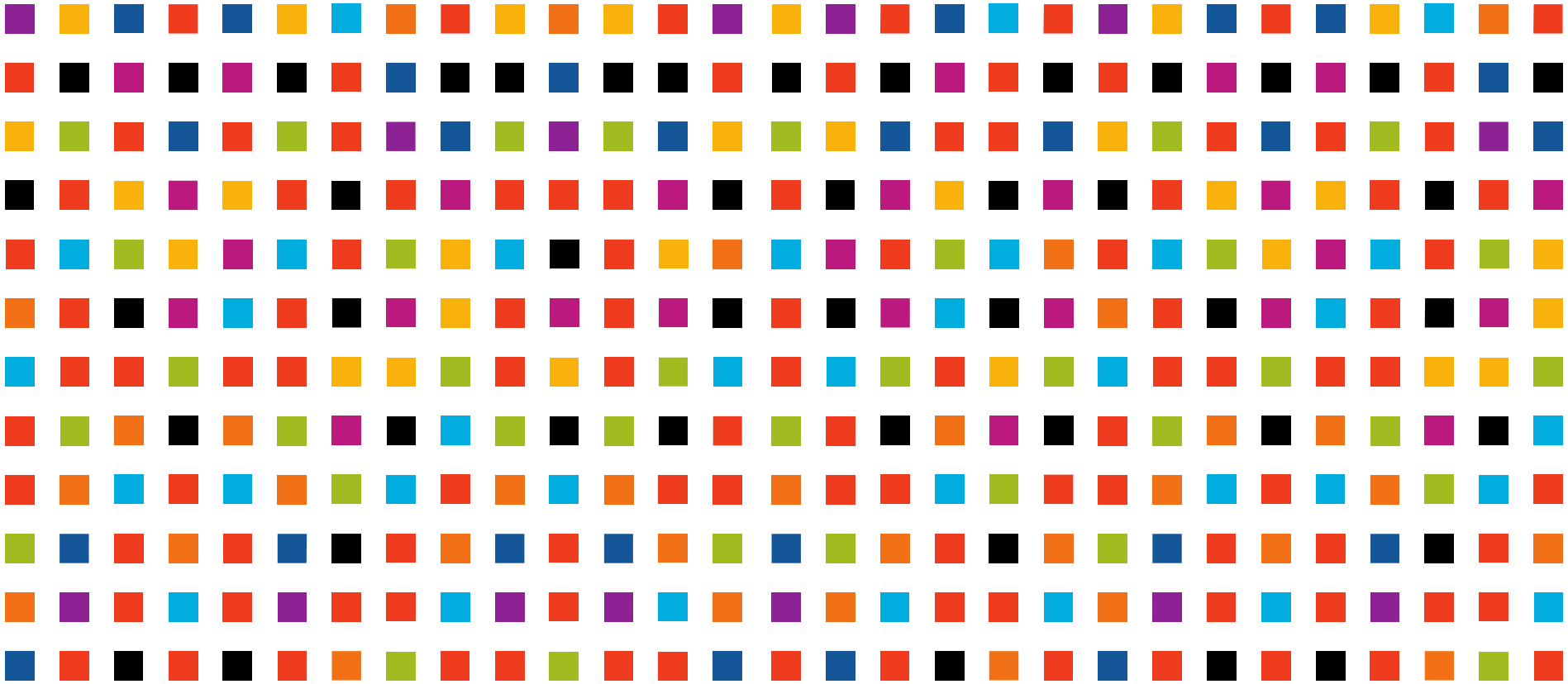
- ◆ The present invention relates to a genomic sequence encoding for an attenuated mutant Zika virus which provides the advantages of to be safe in particular for vaccinating pregnant women.
- ◆ Zika virus The scientists have introduced some specific substitutions at very specific positions in the epidemic genomic sequence for restoring some fixation sites for miR-4279 that were originally present in the endemic genomic sequence.
- ◆ Moreover they have additionally introduced mutation leading to the abrogation of the N-glycosylation site on the E protein which will prevent the generation of auto-antibodies responsible for Guillain-Barré syndrome.
- ◆ They have produced additional mutations of the virus that result to a dramatic reduction of the cytopathic effects without affecting the capacity to produce high titers of virus.

▶ **Patent :**

- ◆ EP16305863.9: Genomic sequences encoding for an attenuated mutant zika virus

Details of the clone ZIKAmiR





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