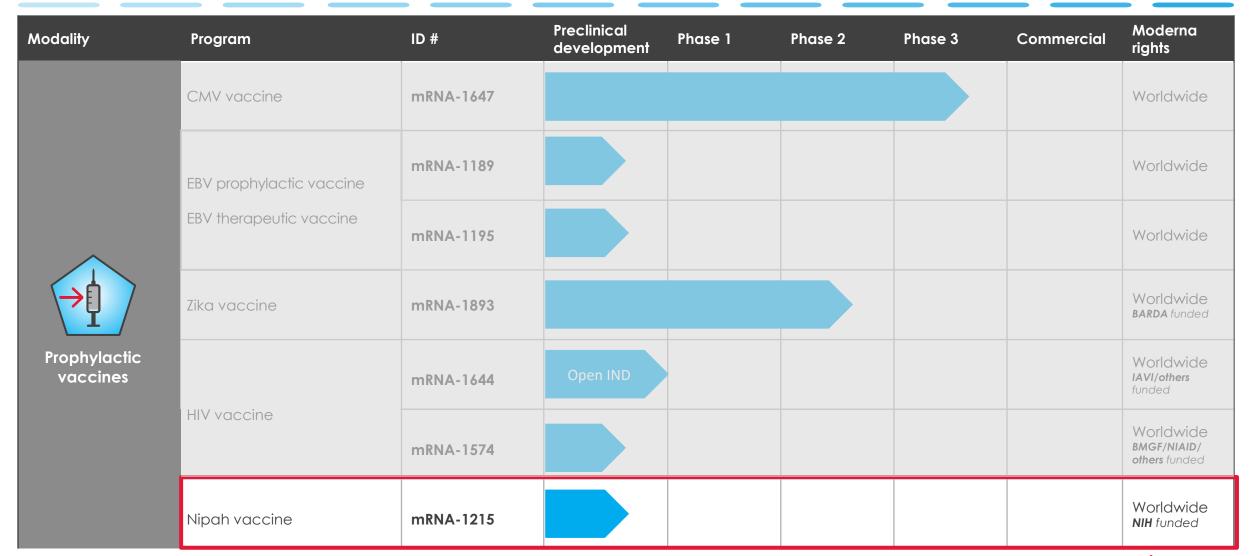
Moderna's latent & other vaccines: Nipah vaccine (mRNA-1215)

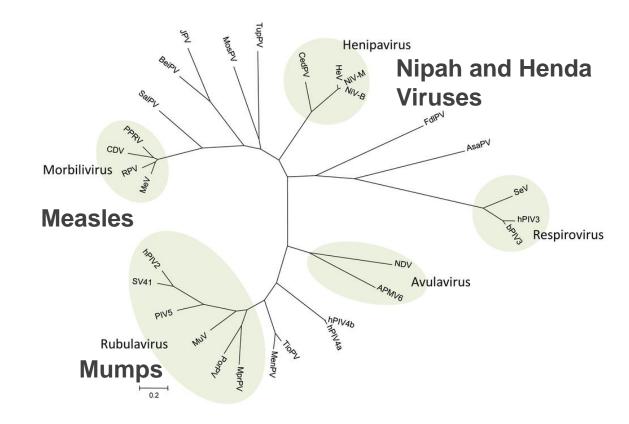
Last program update: November 4, 2021



Nipah vaccine (mRNA-1215) Phase 1 testing is for pandemic preparedness

- Aim to define general solution for vaccine antigen design and to develop approaches for platform manufacturing
- Clinical testing can help determine whether having successful antigen designs for viruses within a given family might facilitate rapid development of vaccines against similar viruses
- NIH to sponsor Phase 1 study

Nipah virus is closely related to some of the most common human pathogens





Nipah (NiV) virus overview

 NiV, a zoonotic virus transmitted to humans from animals, contaminated food, or through direct human-to-human transmission, causes a range of illnesses including fatal encephalitis

Disease burden:

- "The worst disease no one has ever heard of"
- Identified as the cause of isolated outbreaks since 2000 in India, Bangladesh, Malaysia, and Singapore and is considered a significant pandemic threat^{2,3}
- Case fatality rate among infected is estimated at 40-75%^{2,3}
- Severe respiratory and neurologic complications have no treatment other than intensive supportive care^{1,2}
- NiV outbreaks cause significant economic burden to impacted regions due to loss of human life and interventions to prevent further spread, e.g. slaughter of infected animals⁴
- Target population: Pandemic preparedness
- Unmet need: No approved vaccine or treatment

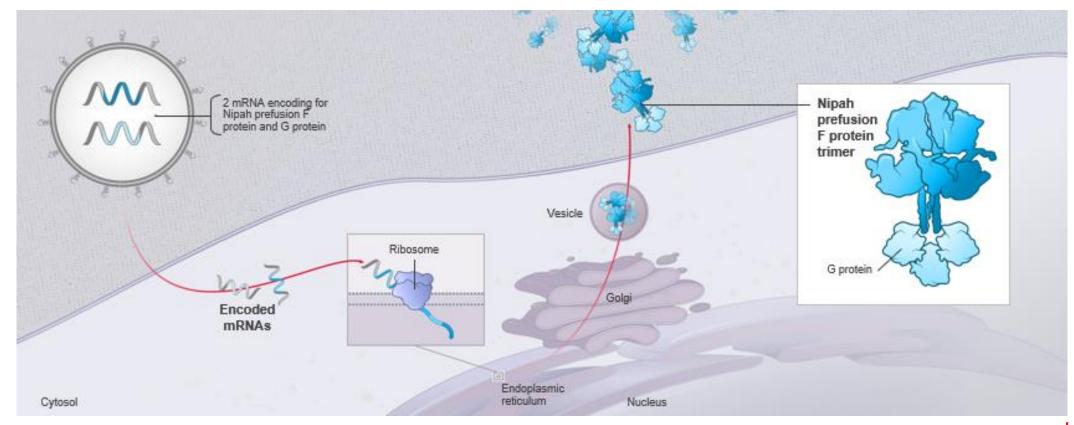
Spectrum of Nipah symptoms ²	
Mild	Fever Headaches Myalgia Vomiting Sore throat
Severe	Severe respiratory distress Pneumonia Seizures Altered consciousness Encephalitis Coma Death



Nipah vaccine (mRNA-1215) overview

Moderna/NIH collaboration

- Nomination of mRNA-1215 to test a Nipah vaccine candidate in humans
- mRNA vaccine co-developed by Moderna/NIH-VRC
- Phase 1 clinical testing for pandemic preparedness





Forward-looking statements

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