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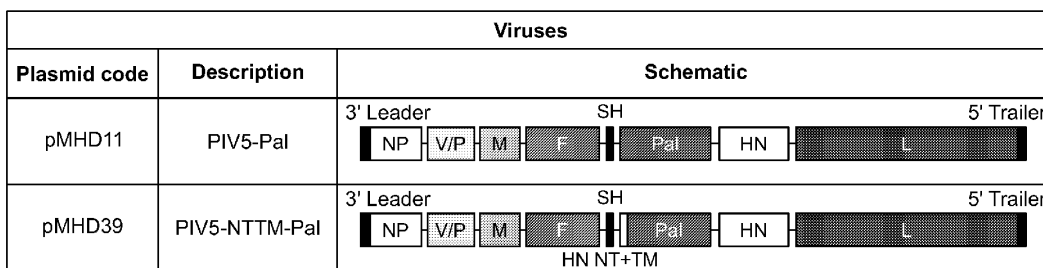


FIG. 1

(57) Abstract: The present invention is directed to a recombinant vaccine comprising a PIV5-based viral expression vector having a gene inset and methods of producing and using the same. The recombinant vaccine includes a modified bacterial or viral antigen to enhance the expression of the Antigen on the Surface of cells (AOS) resulting in an increase in the immunogenicity to the antigen.