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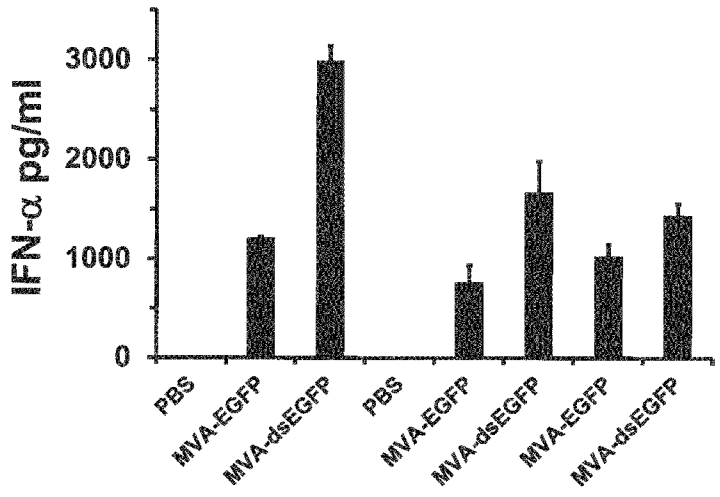
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(54) Title: COMPOSITIONS AND METHODS VECTORS FOR INDUCING AN ENHANCED IMMUNE RESPONSE USING POXVIRUS VECTORS

Figure 13A



(57) Abstract: Provided herein are recombinant poxviruses comprising heterologous or native nucleic acids specifying excess double-stranded RNA (dsRNA) early in infection, which may further comprise heterologous nucleic acids encoding one or more costimulatory molecules, and/or heterologous nucleic acids encoding one or more infectious disease-associated antigens or tumor-associated antigens, as well as pharmaceutical compositions comprising such recombinant poxviruses and methods and uses thereof. The recombinant poxviruses provided herein enhance innate and adaptive immune activation in subjects compared to identical recombinant poxviruses lacking heterologous or native transcription units specifying excess early dsRNA.

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