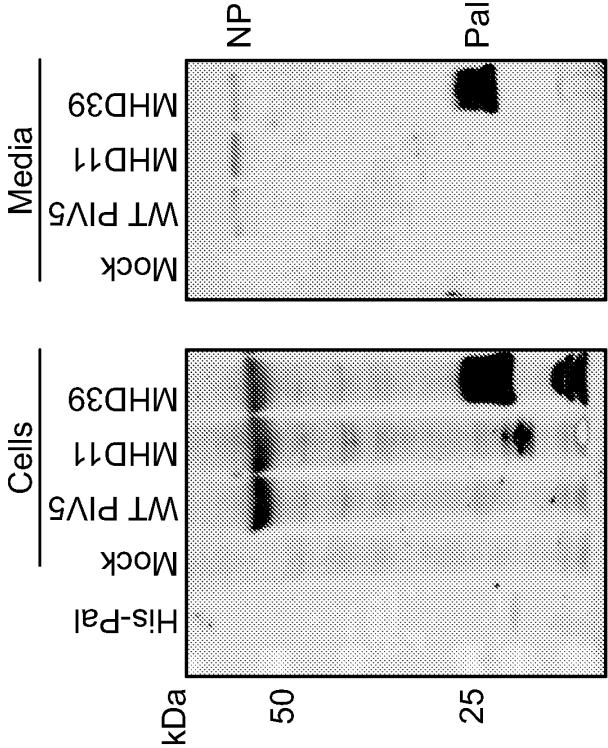


Viruses		
Plasmid code	Description	Schematic
pMHD11	PIV5-Pal	3' Leader NP V/P M F SH Pal HN L 5' Trailer
pMHD39	PIV5-NTTM-Pal	3' Leader NP V/P M F SH Pal HN L 5' Trailer HN NT+TM

FIG. 1
1/12

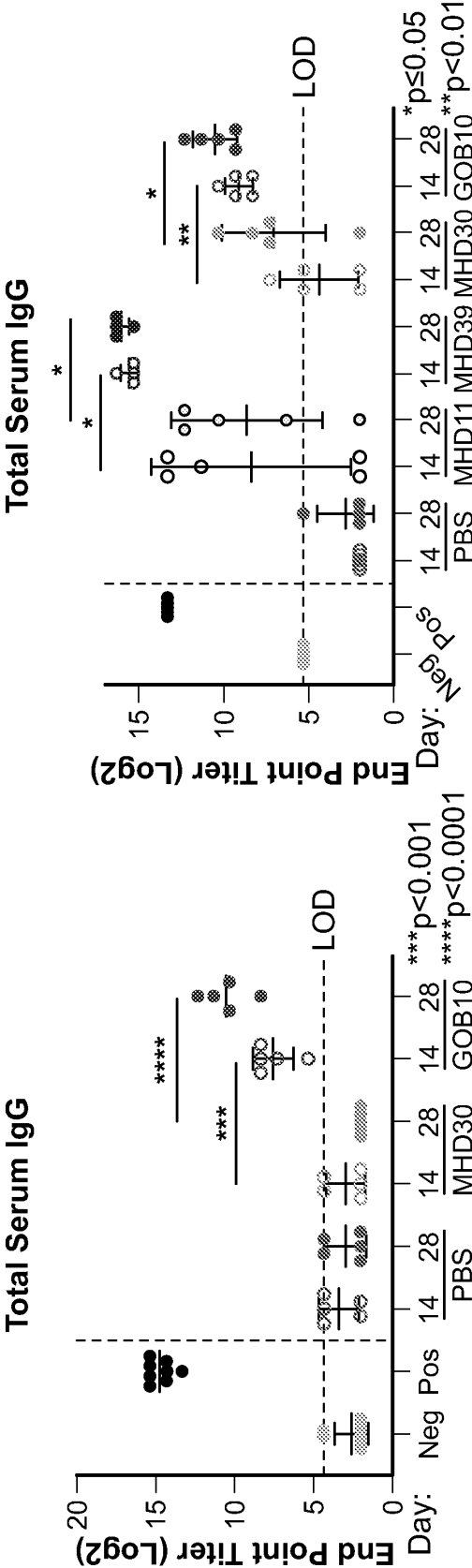


Anti-Pal mAb mixture with anti-PIV5-NP antibody

FIG. 2

Plasmid code	Description	Schematic	
pMHD30	AVLP-Pal	3' Leader NP V/P Pal	Hyg-TK-nL L 5' Trailer
pGOB10	AVLP-NTTM-Pal	3' Leader NP V/P Pal HN NT+TM	Hyg-TK-nL L 5' Trailer

FIG. 3A



pCAGGS		
Plasmid code	Description	Schematic
pMHD22	pCAGGS-OspA _{BPBPk}	
pMHD24	pCAGGS-NTTM-OspA _{BPBPk}	

FIG. 4A

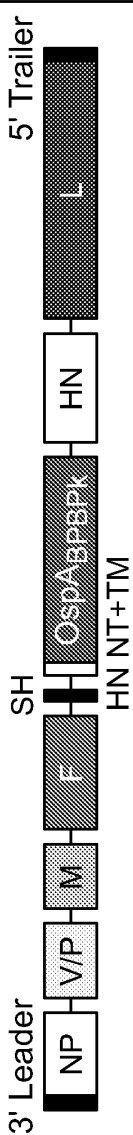
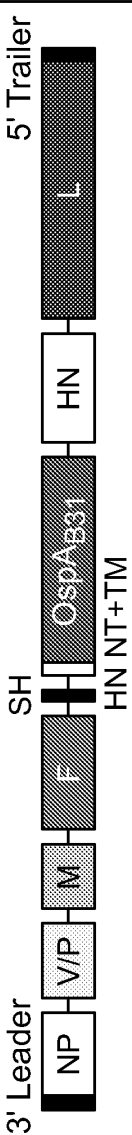
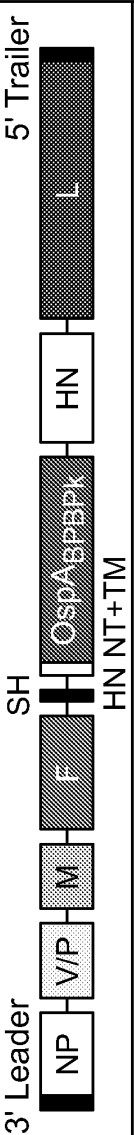
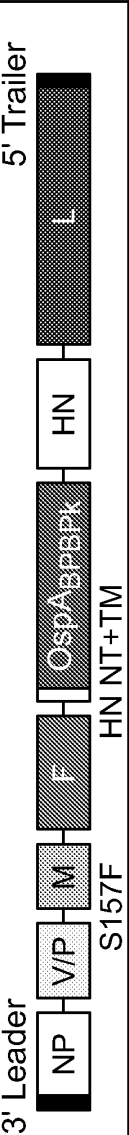
Viruses		
Plasmid code	Description	
pMHD35	PIV5-NTTM-OspA _{BPBPk}	
pMHD36	PIV5-NTTM-OspA _{B31}	
pCVL106	CPI-NTTM-OspA _{BPBPk}	
pCVL116	CVB-NTTM-OspA _{BPBPk}	

FIG. 4B

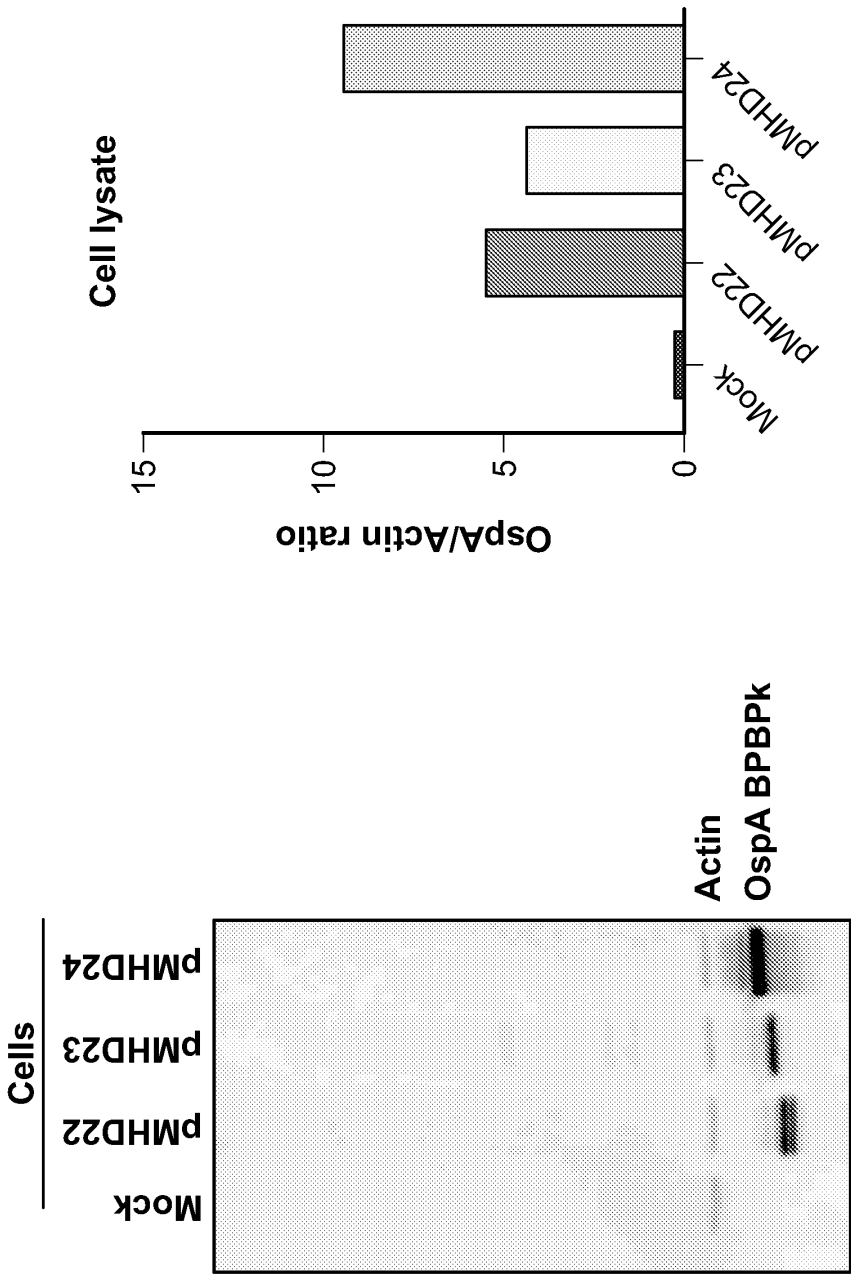
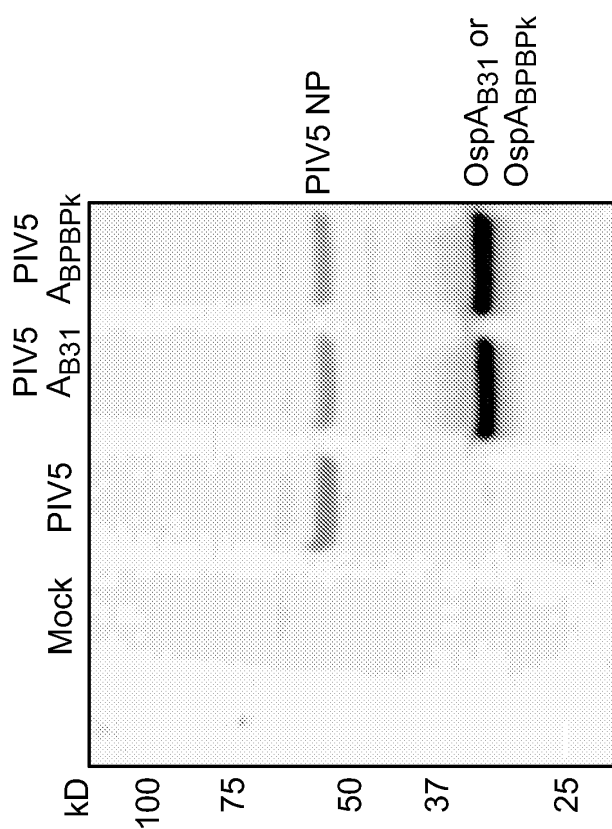


FIG. 5B

FIG. 5A



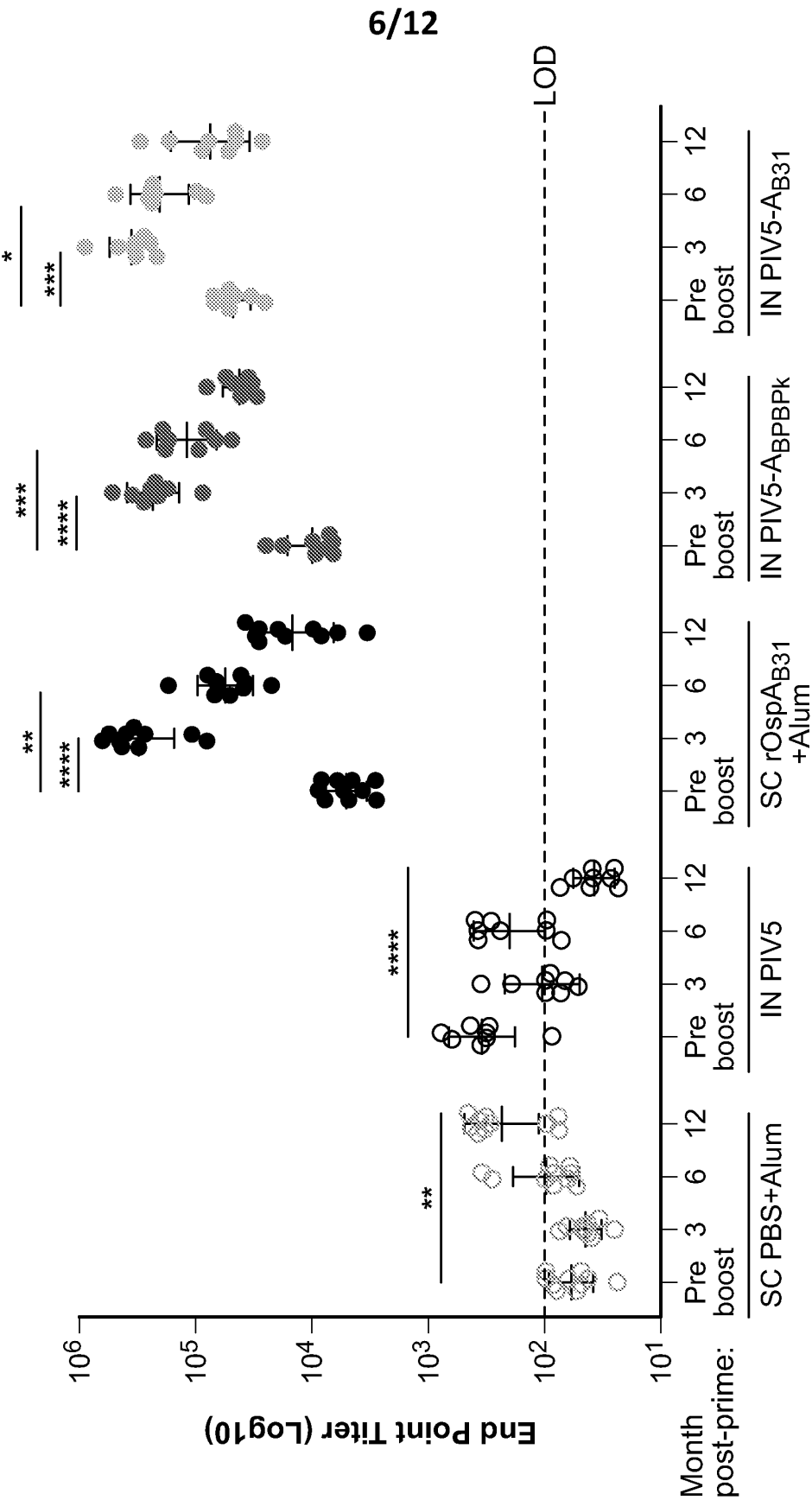


FIG. 8

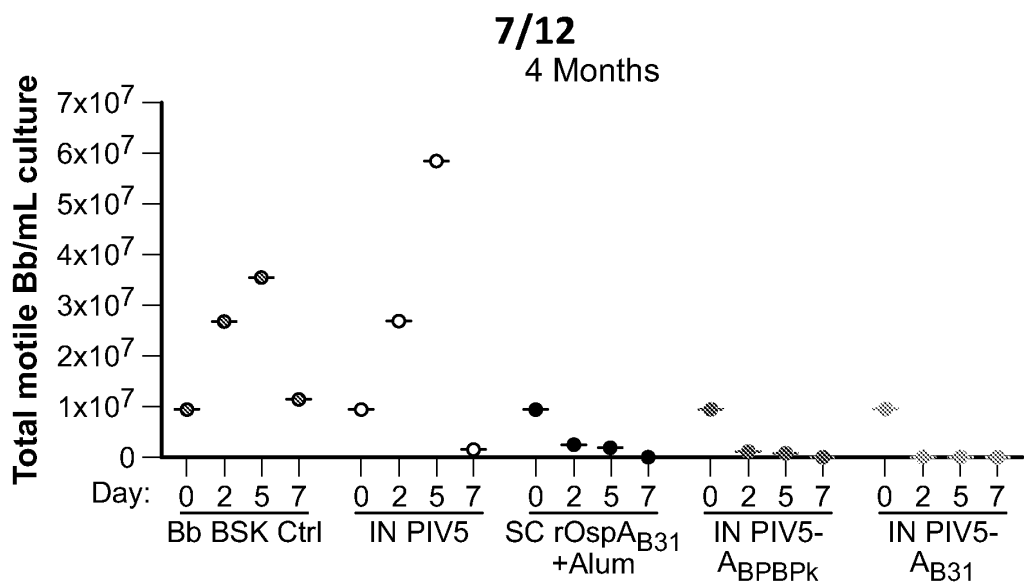


FIG. 9A

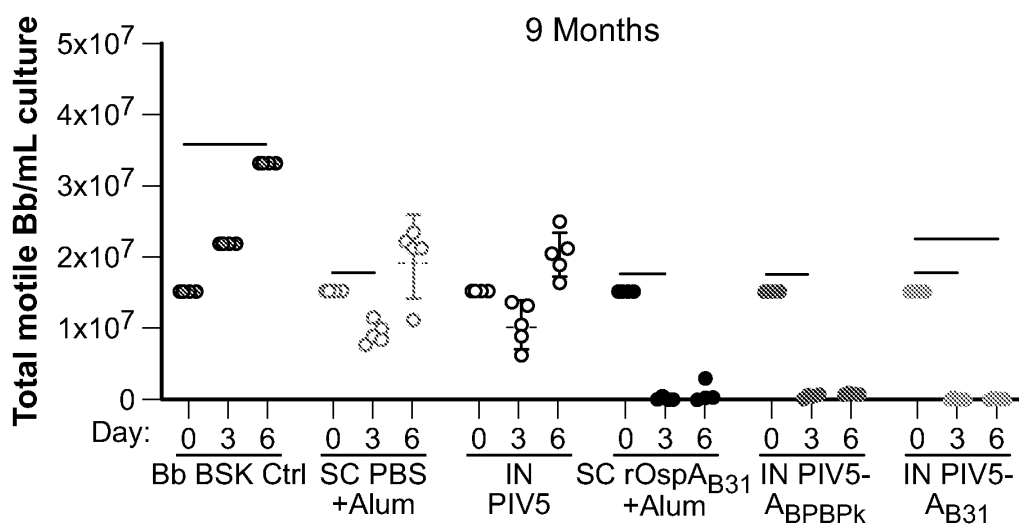


FIG. 9B

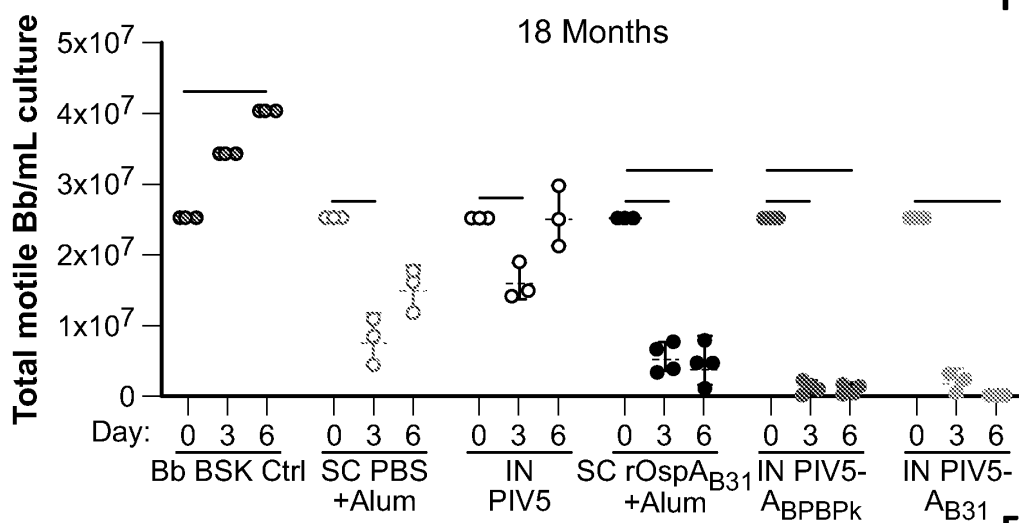
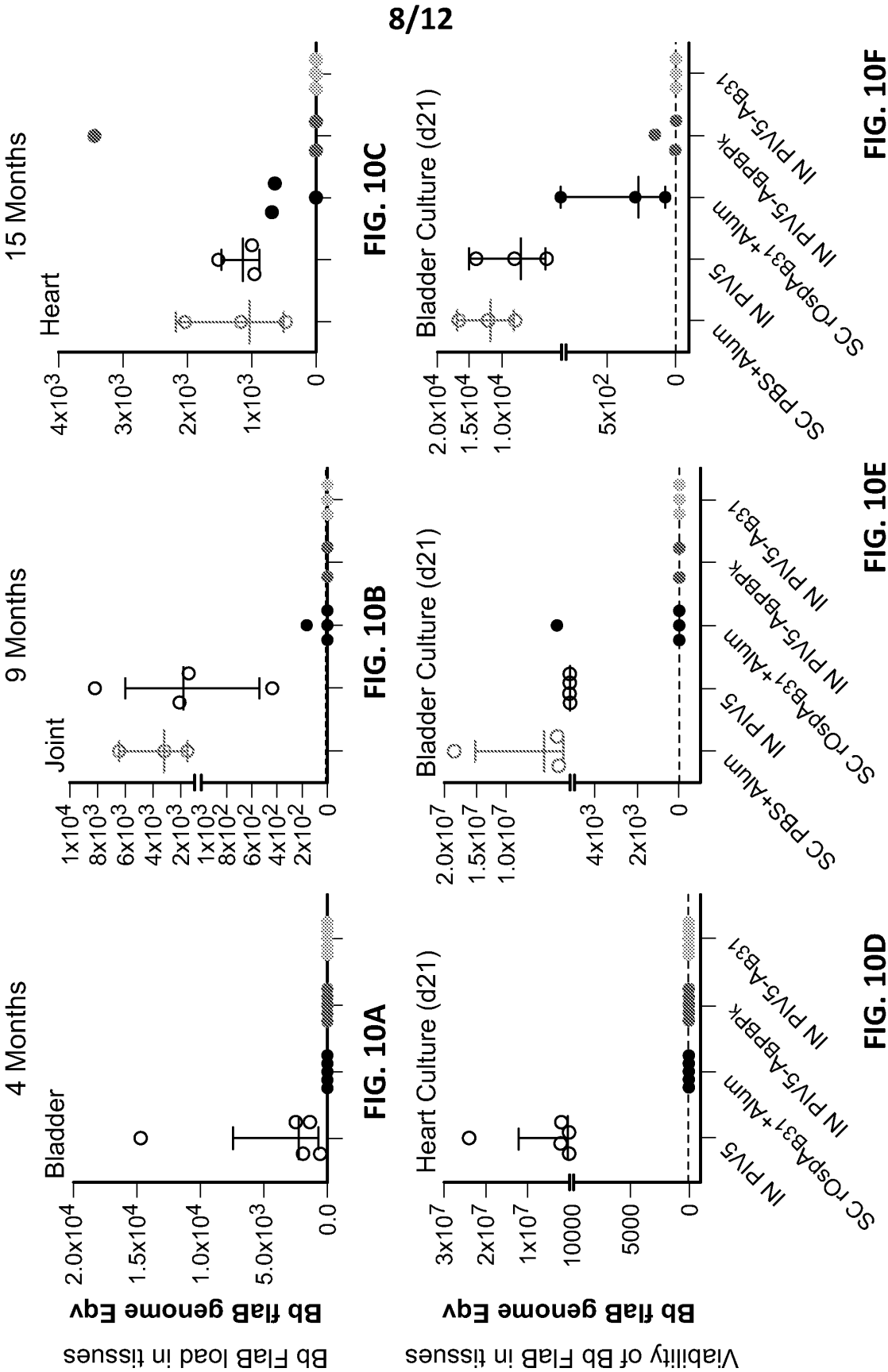


FIG. 9C



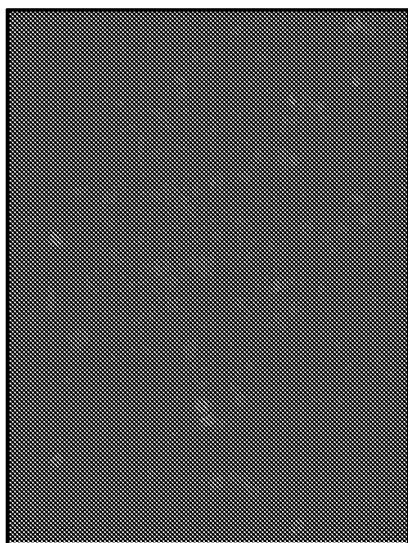
pCAGGS		
Plasmid code	Description	Schematic
pCVL168	pCAGGS-MOMP	
pCVL169	pCAGGS-MOMPΔsp-CD5sp	
pCVL170	pCAGGS-NTTM-MOMP	
pCVL171	pCAGGS-NTTM-MOMPΔsp	
pCVL172	pCAGGS-NT-MOMPΔsp	

FIG. 11

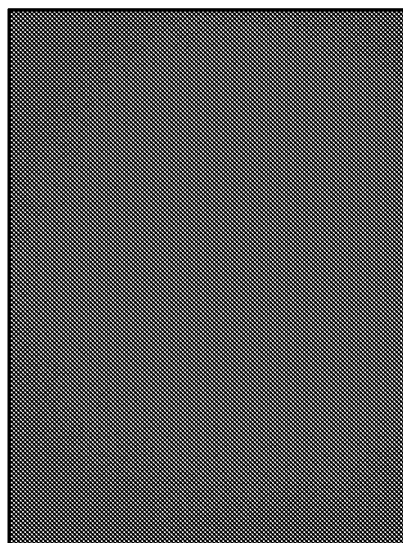
Viruses		
Plasmid code	Description	
pCVL175	CPI-MOMP Δ sp- CD5sp	3' Leader NP V/P M F SH MOMPΔsp HN 5' Trailer L CD5sp
pCVL177	CPI-NT- MOMP Δ sp	3' Leader NP V/P M F SH MOMPΔsp HN 5' Trailer L HN NT
pCVL181	CVB-MOMP Δ sp- CD5sp	3' Leader NP V/P M F S157F MOMPΔsp HN 5' Trailer L CD5sp
pCVL182	CVB-NT- MOMP Δ sp	3' Leader NP V/P M F S157F MOMPΔsp HN 5' Trailer L HN NT

FIG. 12

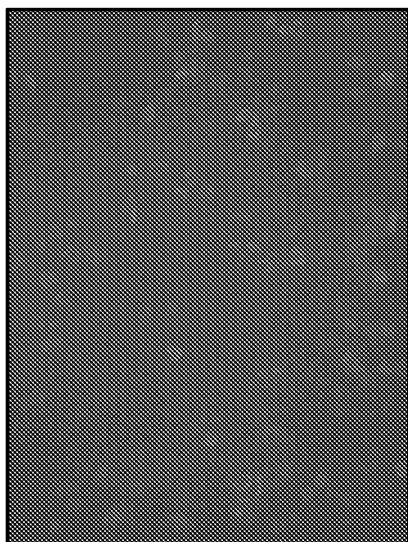
11/12



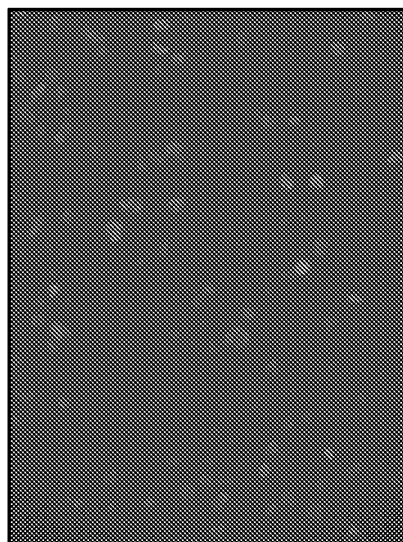
pCVL170
FIG. 13C



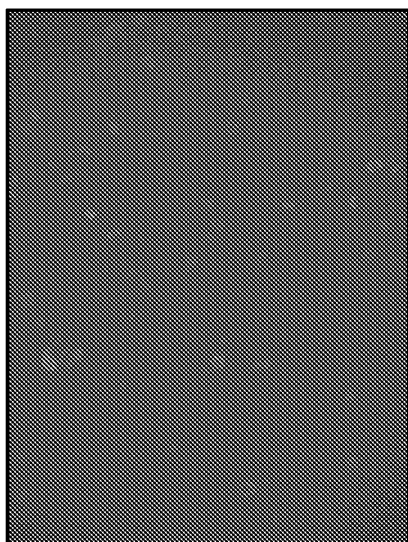
MOCK
FIG. 13F



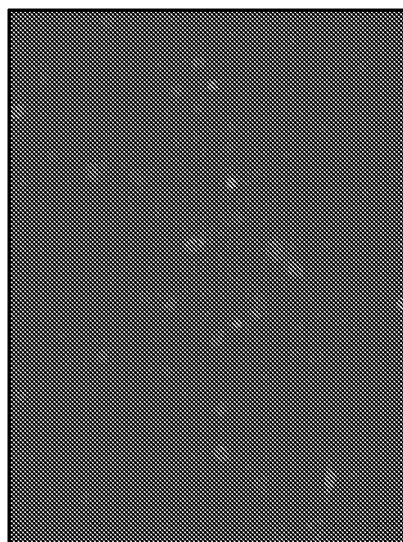
pCVL169
FIG. 13B



pCVL172
FIG. 13E



pCVL168
FIG. 13A



pCVL171
FIG. 13D

12/12

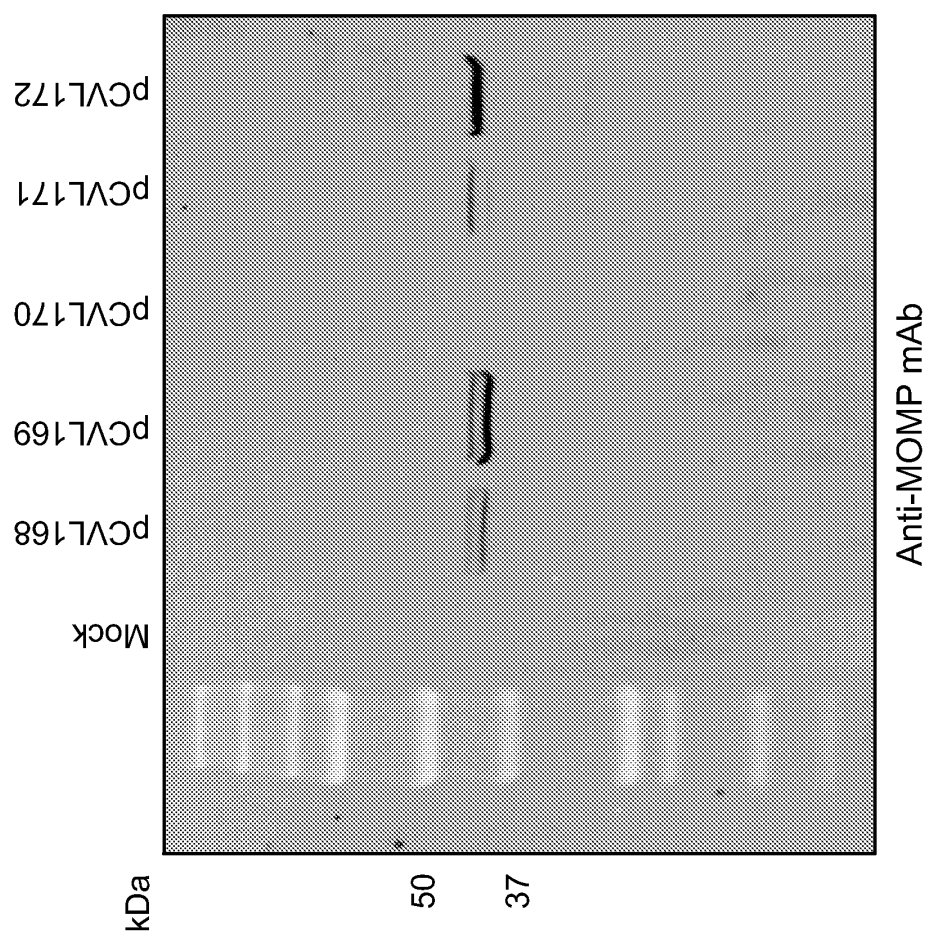


FIG. 14