FIGURES

FIGURE 1

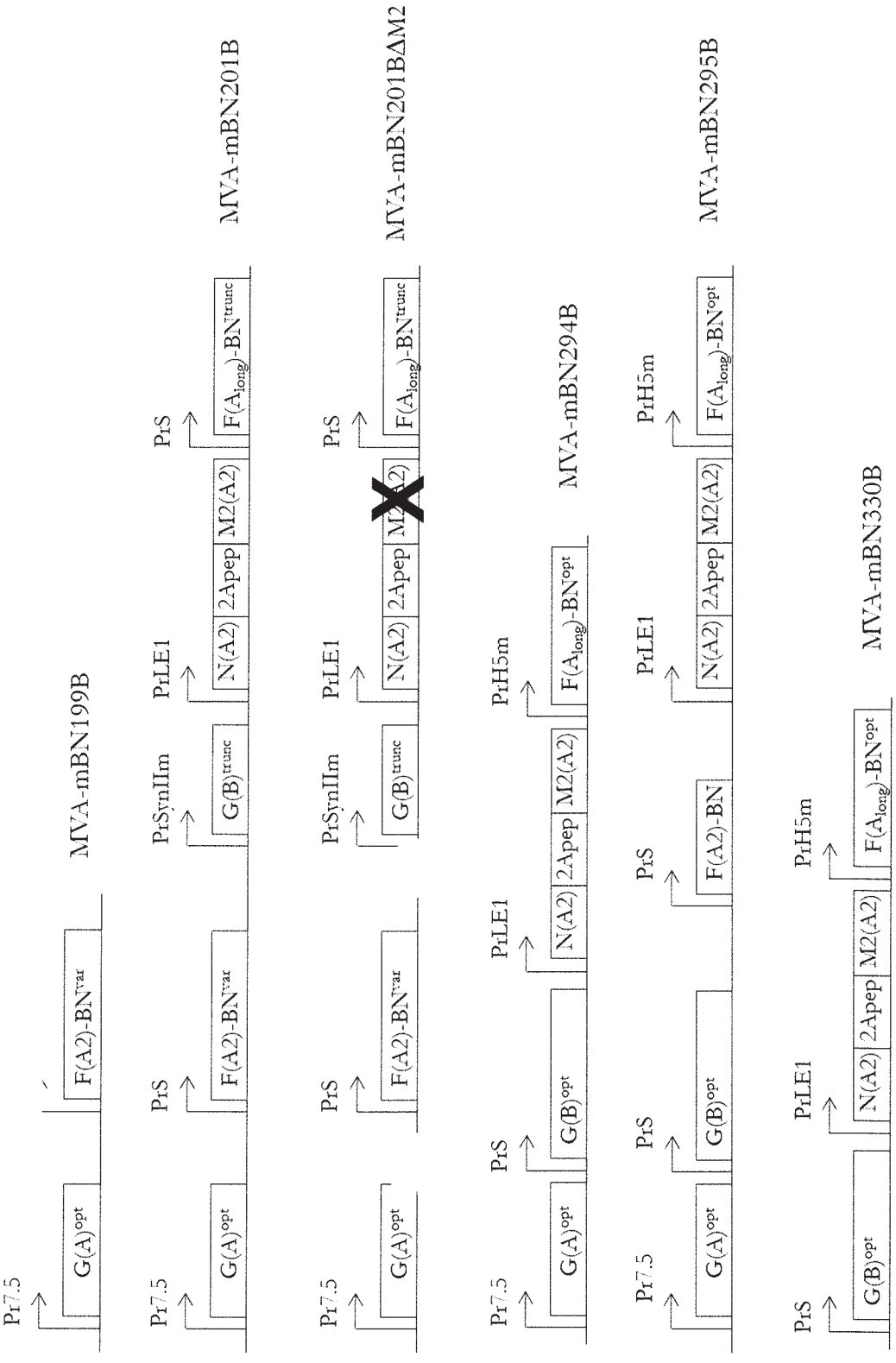


FIGURE 2

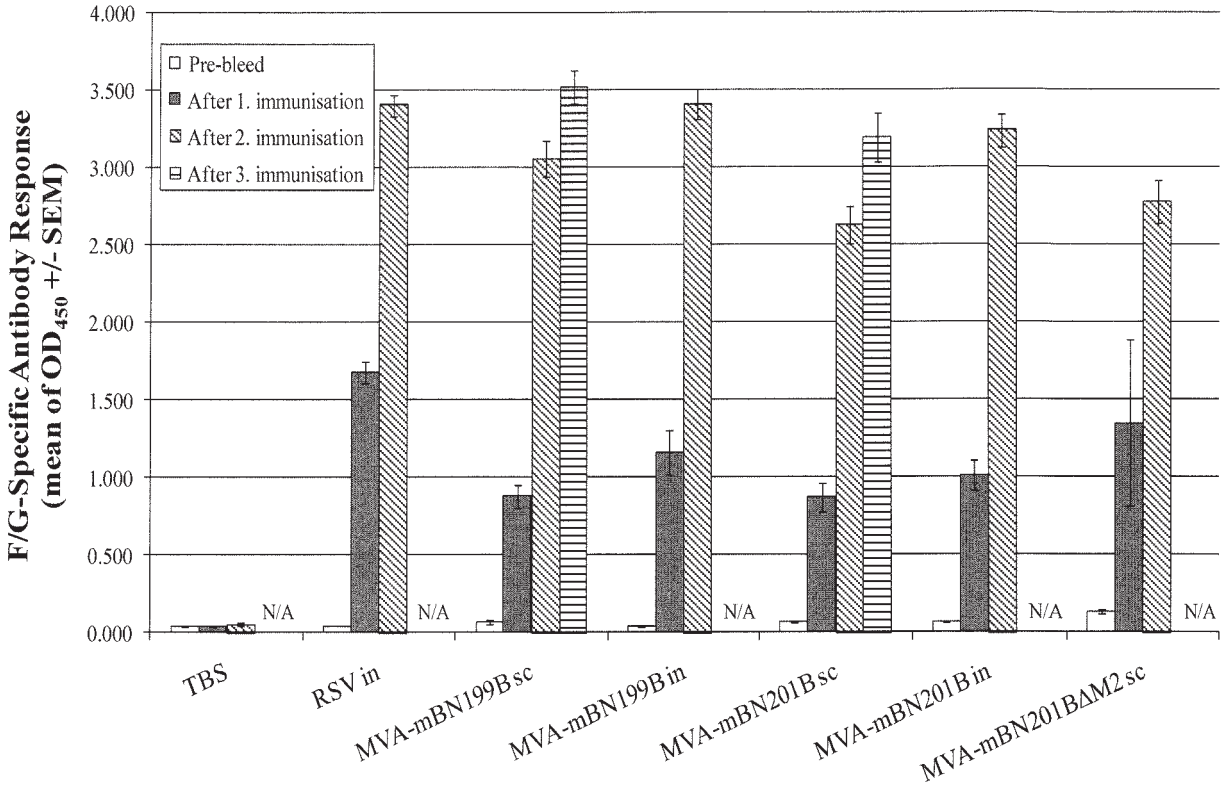

F/G-Specific Antibody Response
(mean of OD450 +/- SEM)
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Pre-bleed
After 1. immunisation
After 2. immunisation
After 3. immunisation
N/A
N/A
N/A
N/A
N/A
TBS
RSV in
MVA-mBN199B sc
MVA-mBN199B in
MVA-mBN201B sc
MVA-mBN201B in
MVA-mBN201BΔM2 sc

FIGURE 3

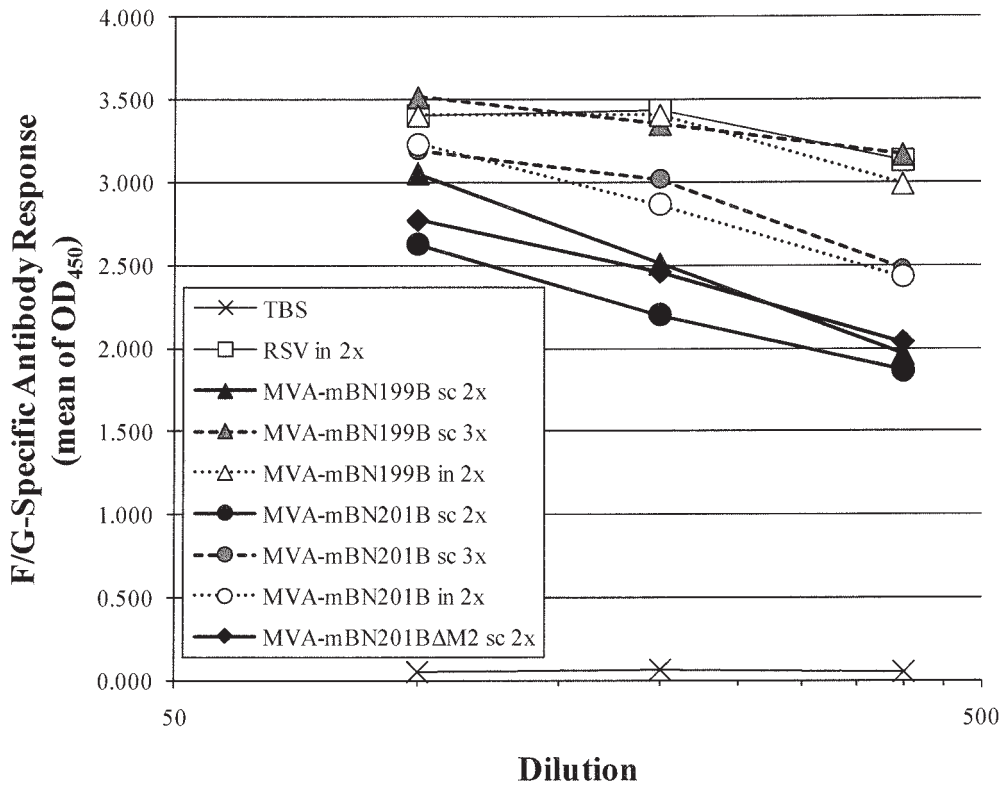

4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
F/G-Specific Antibody Response (mean of OD450)
TBS
RSV in 2x
MVA-mBN199B sc 2x
MVA-mBN199B sc 3x
MVA-mBN199B in 2x
MVA-mBN201B sc 2x
MVA-mBN201B sc 3x
MVA-mBN201B in 2x
MVA-mBN201BΔM2 sc 2x
50
500
Dilution

FIGURE 4

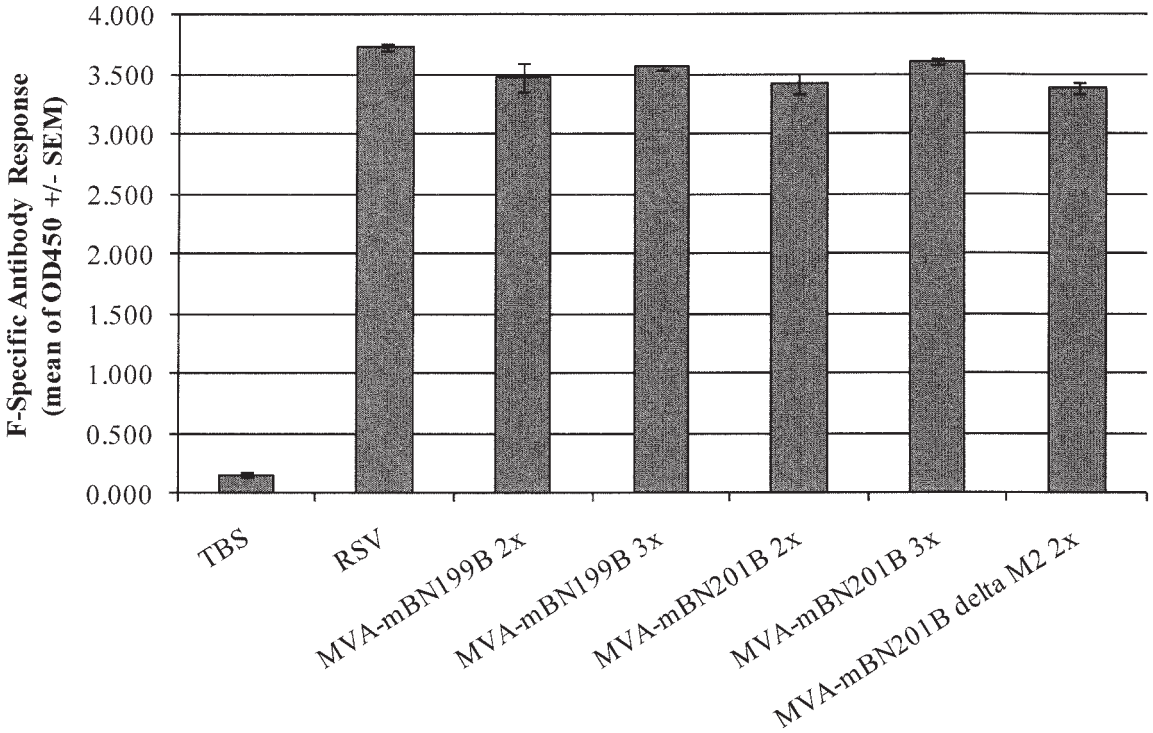

F-Specific Antibody Response
(mean of OD450 +/- SEM)
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
TBS
RSV
MVA-mBN199B 2x
MVA-mBN199B 3x
MVA-mBN201B 2x
MVA-mBN201B 3x
MVA-mBN201B delta M2 2x

FIGURE 5

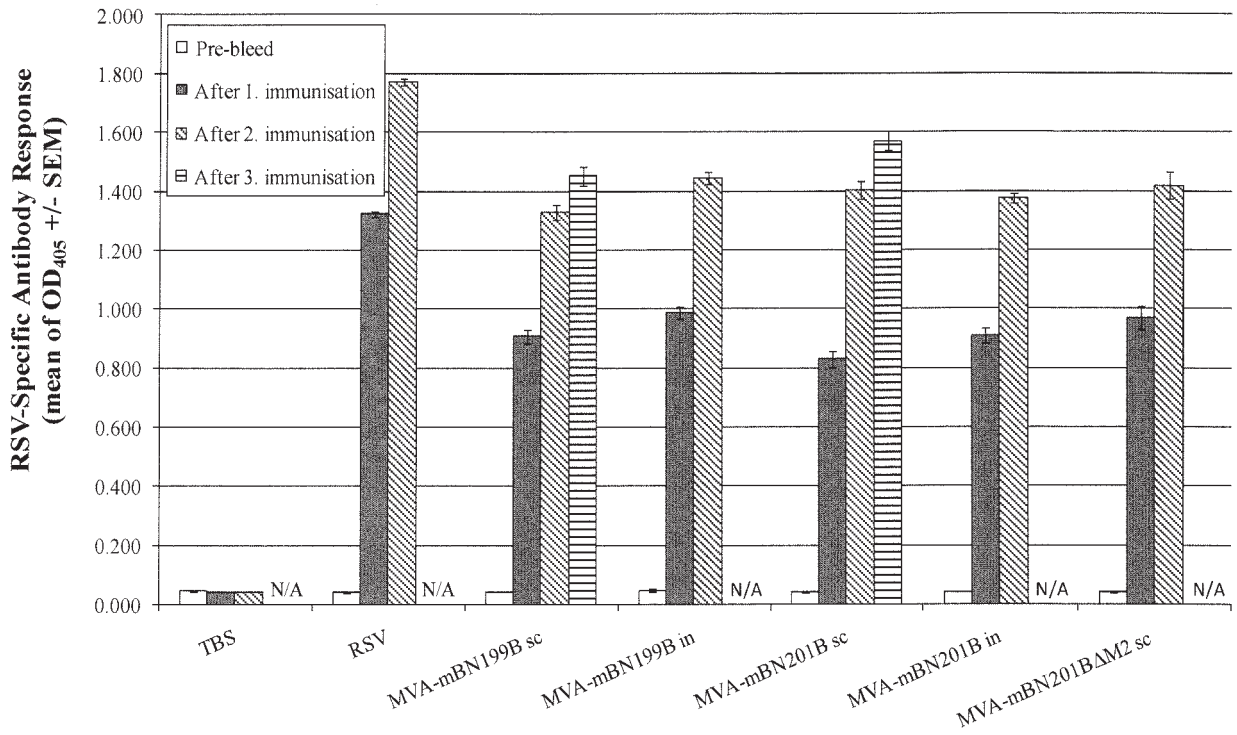

RSV-Specific Antibody Response
(mean of OD405 +/- SEM)
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
Pre-bleed
After 1. immunisation
After 2. immunisation
After 3. immunisation
N/A
N/A
N/A
N/A
N/A
N/A
TBS
RSV
MVA-mBN199B sc
MVA-mBN199B in
MVA-mBN201B sc
MVA-mBN201B in
MVA-mBN201BΔM2 sc

FIGURE 6

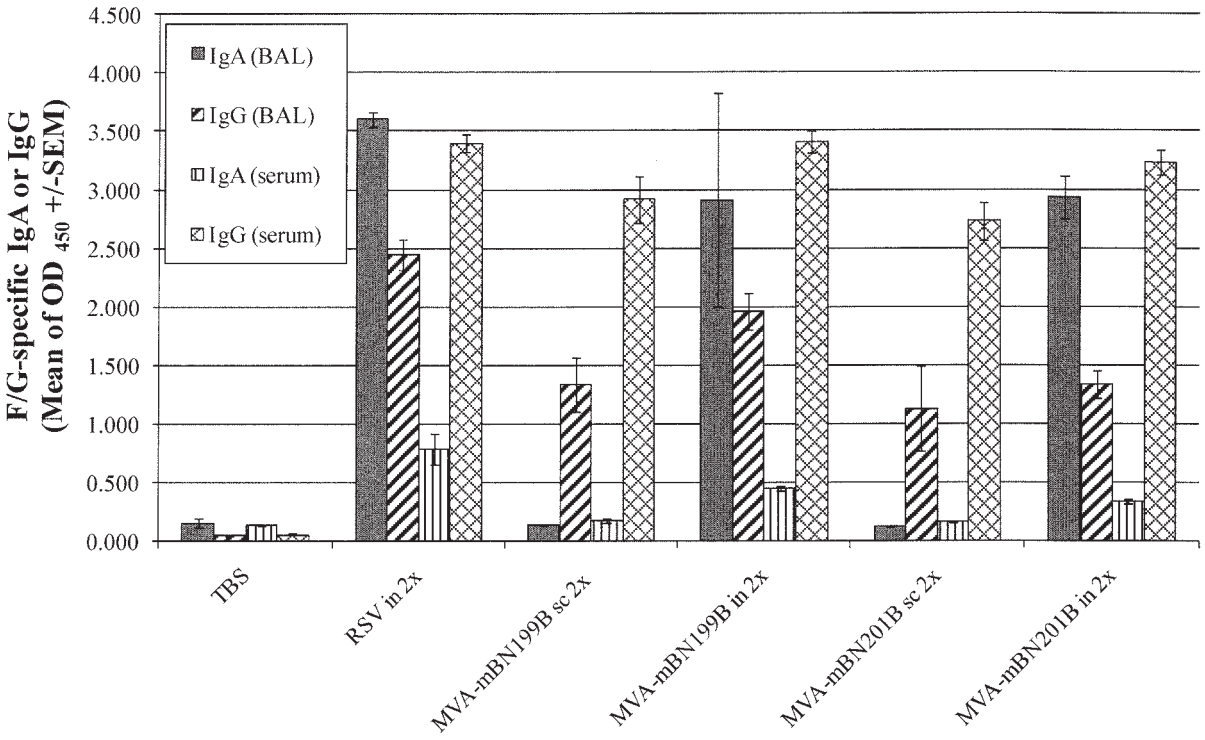

F/G-specific IgA or IgG
(Mean of OD 450 +/-SEM)
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
IgA (BAL)
IgG (BAL)
IgA (serum)
IgG (serum)
TBS
RSV in 2x
MVA-mBN199B sc 2x
MVA-mBN199B in 2x
MVA-mBN201B sc 2x
MVA-mBN201B in 2x

FIGURE 7

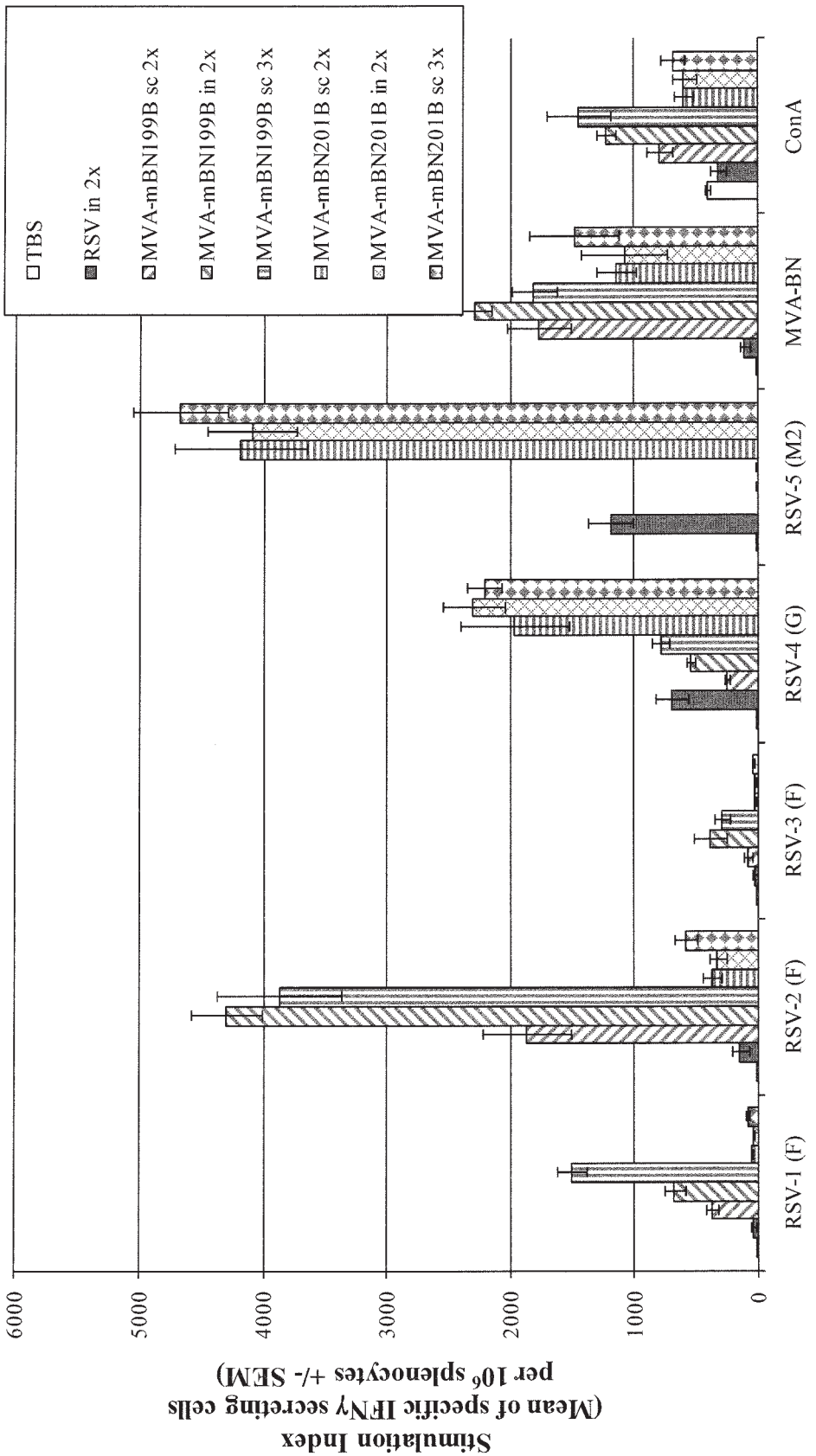

Stimulation Index
(Mean of specific IFNγ secreting cells
per 10⁶ splenocytes +/- SEM)
0
1000
2000
3000
4000
5000
6000
TBS
RSV in 2x
MVA-mBN199B sc 2x
MVA-mBN199B in 2x
MVA-mBN199B sc 3x
MVA-mBN201B sc 2x
MVA-mBN201B in 2x
MVA-mBN201B sc 3x
RSV-1 (F)
RSV-2 (F)
RSV-3 (F)
RSV-4 (G)
RSV-5 (M2)
MVA-BN
ConA

FIGURE 8

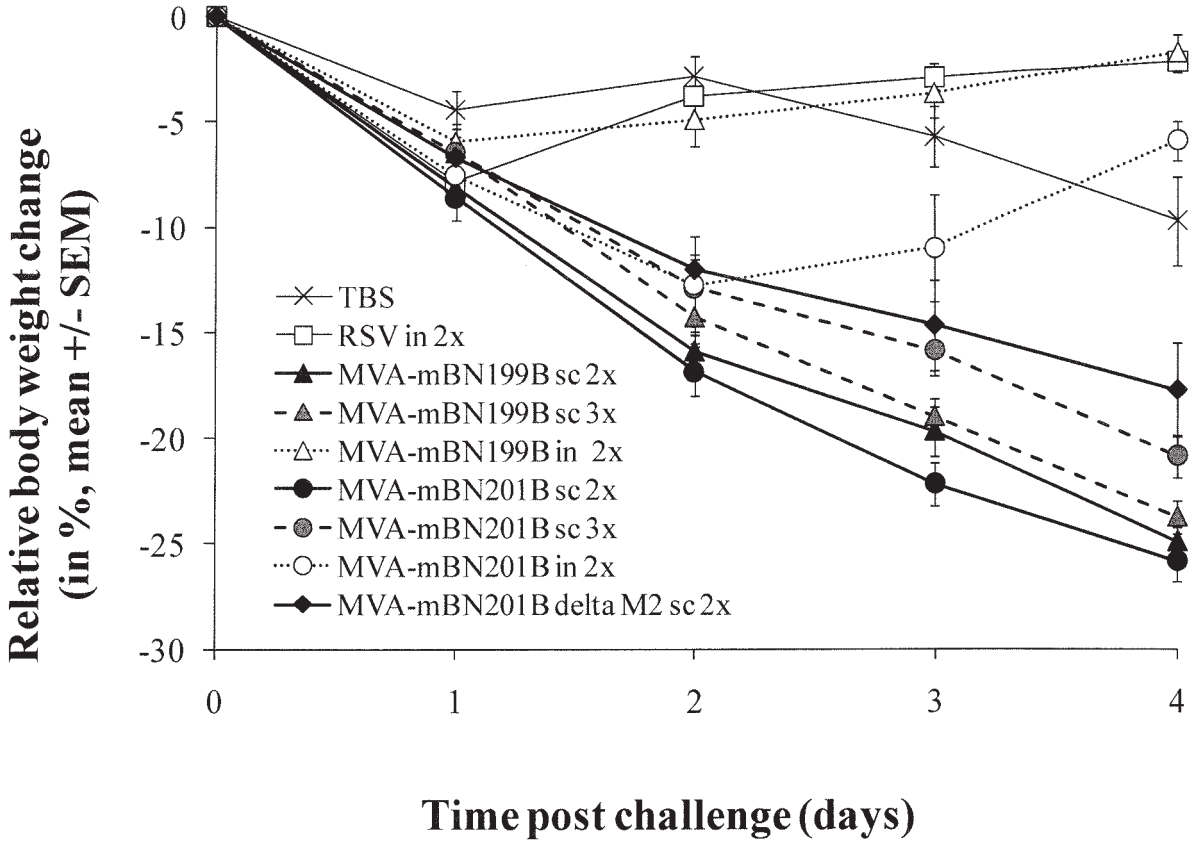

Relative body weight change
(in %, mean +/- SEM)
0
-5
-10
-15
-20
-25
-30
0
1
2
3
4
TBS
RSV in 2x
MVA-mBN199B sc 2x
MVA-mBN199B sc 3x
MVA-mBN199B in 2x
MVA-mBN201B sc 2x
MVA-mBN201B sc 3x
MVA-mBN201B in 2x
MVA-mBN201B delta M2 sc 2x
Time post challenge (days)

FIGURE 9

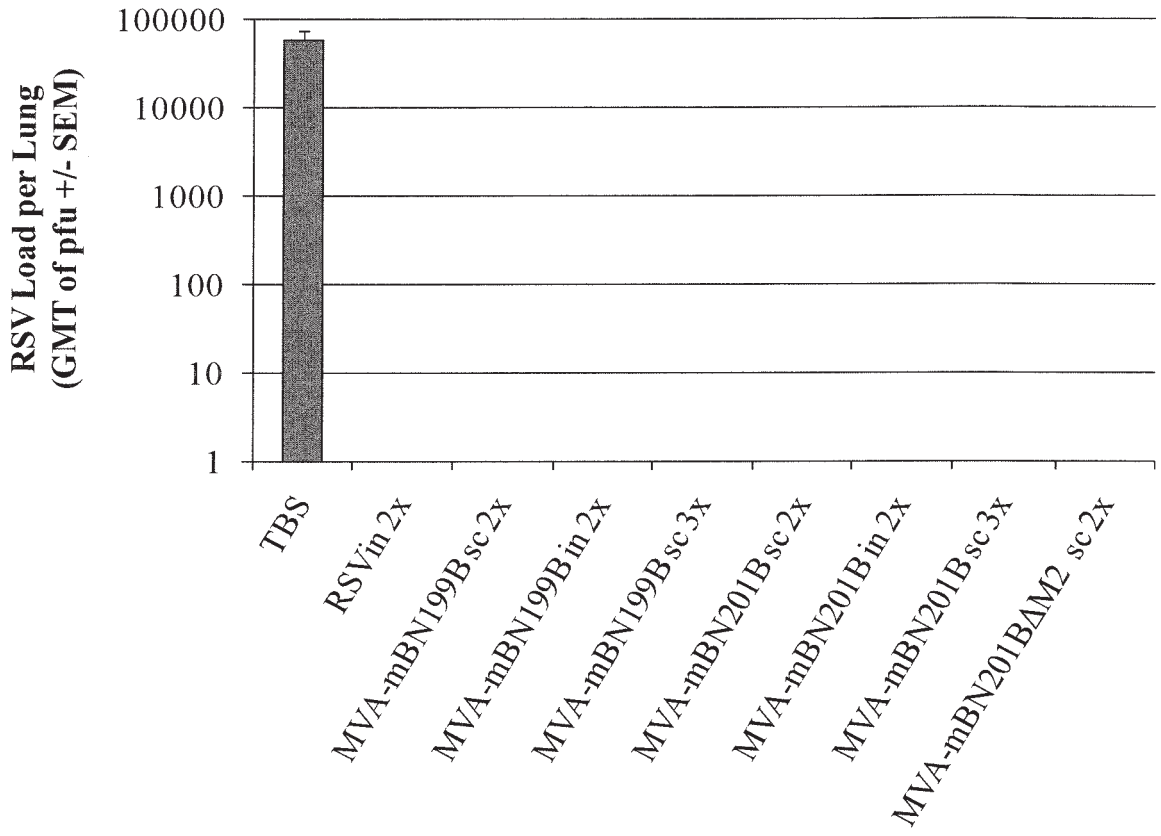

RSV Load per Lung
(GMT of pfu +/- SEM)
100000
10000
1000
100
10
1
TBS
RSV in 2x
MVA-mBN199B sc 2x
MVA-mBN199B in 2x
MVA-mBN199B sc 3x
MVA-mBN201B sc 2x
MVA-mBN201B in 2x
MVA-mBN201B sc 3x
MVA-mBN201BΔM2 sc 2x

FIGURE 10

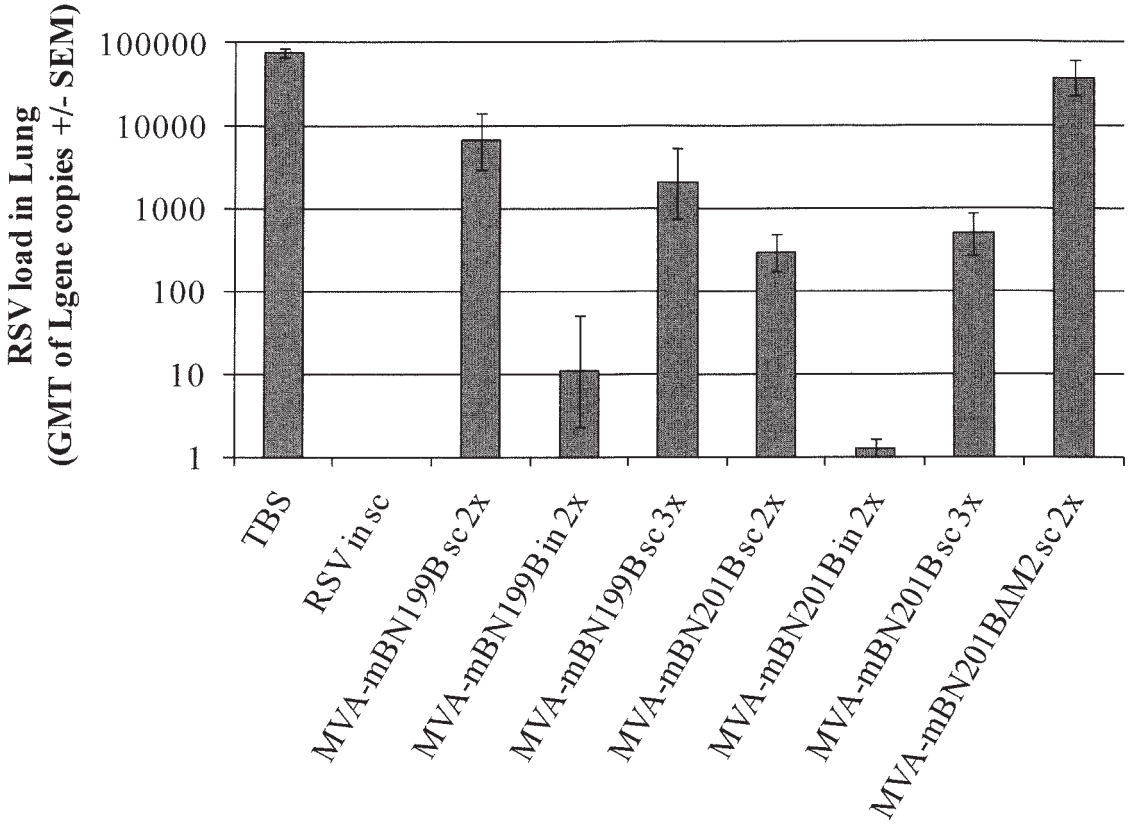

RSV load in Lung
(GMT of Lgene copies +/- SEM)
100000
10000
1000
100
10
1
TBS
RSV in sc
MVA-mBN199B sc 2x
MVA-mBN199B in 2x
MVA-mBN199B sc 3x
MVA-mBN201B sc 2x
MVA-mBN201B in 2x
MVA-mBN201B sc 3x
MVA-mBN201BΔM2 sc 2x

FIGURE 11

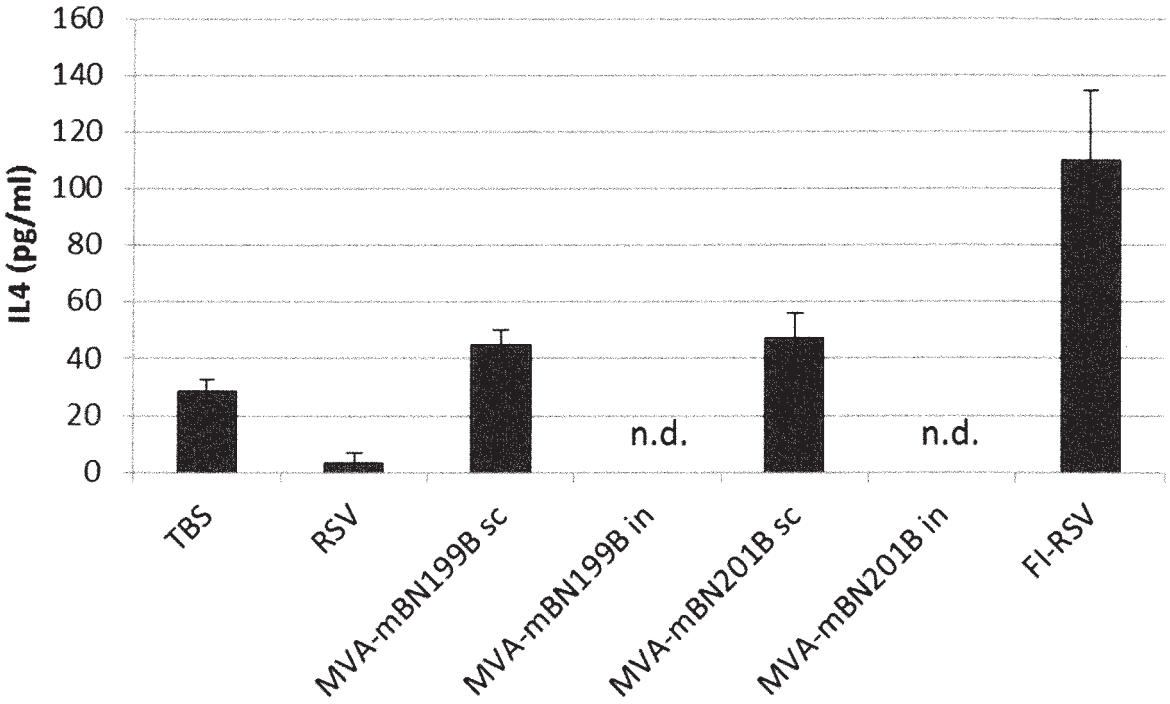

160
140
120
100
80
60
40
20
0
IL4 (pg/ml)
n.d.
n.d.
TBS
RSV
MVA-mBN199B sc
MVA-mBN199B in
MVA-mBN201B sc
MVA-mBN201B in
FI-RSV

FIGURE 12

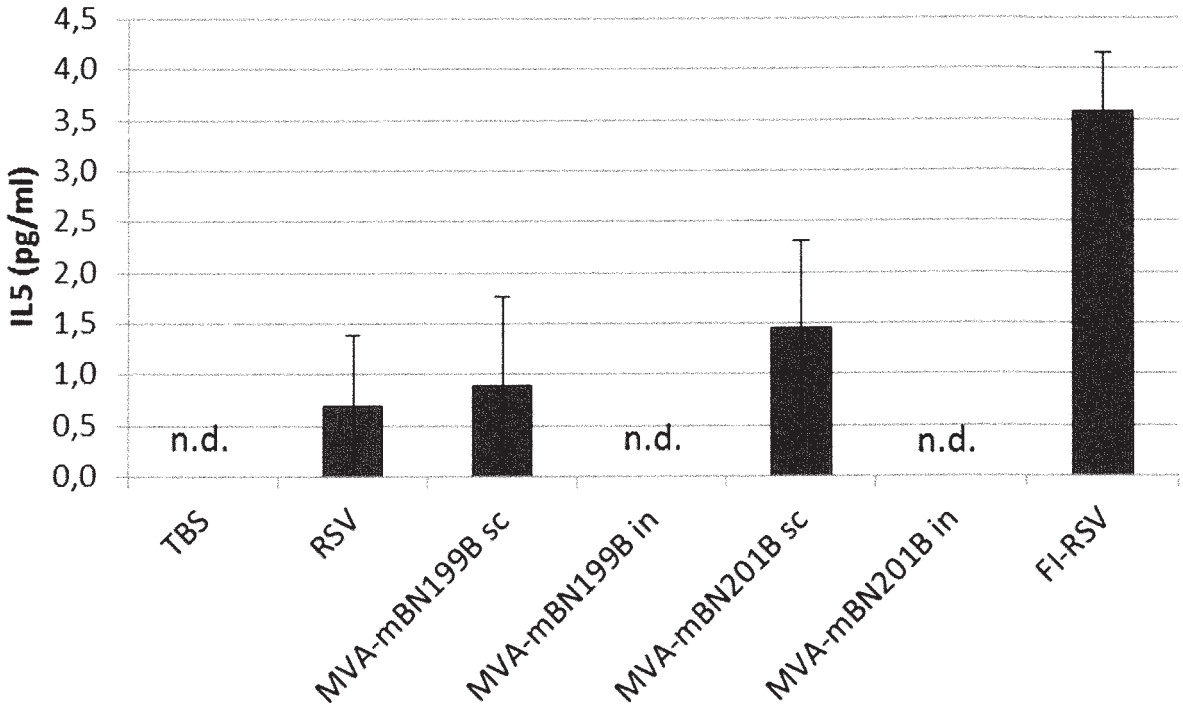

IL5 (pg/ml)
4,5
4,0
3,5
3,0
2,5
2,0
1,5
1,0
0,5
0,0
n.d.
n.d.
n.d.
TBS
RSV
MVA-mBN199B sc
MVA-mBN199B in
MVA-mBN201B sc
MVA-mBN201B in
FI-RSV

FIGURE 13

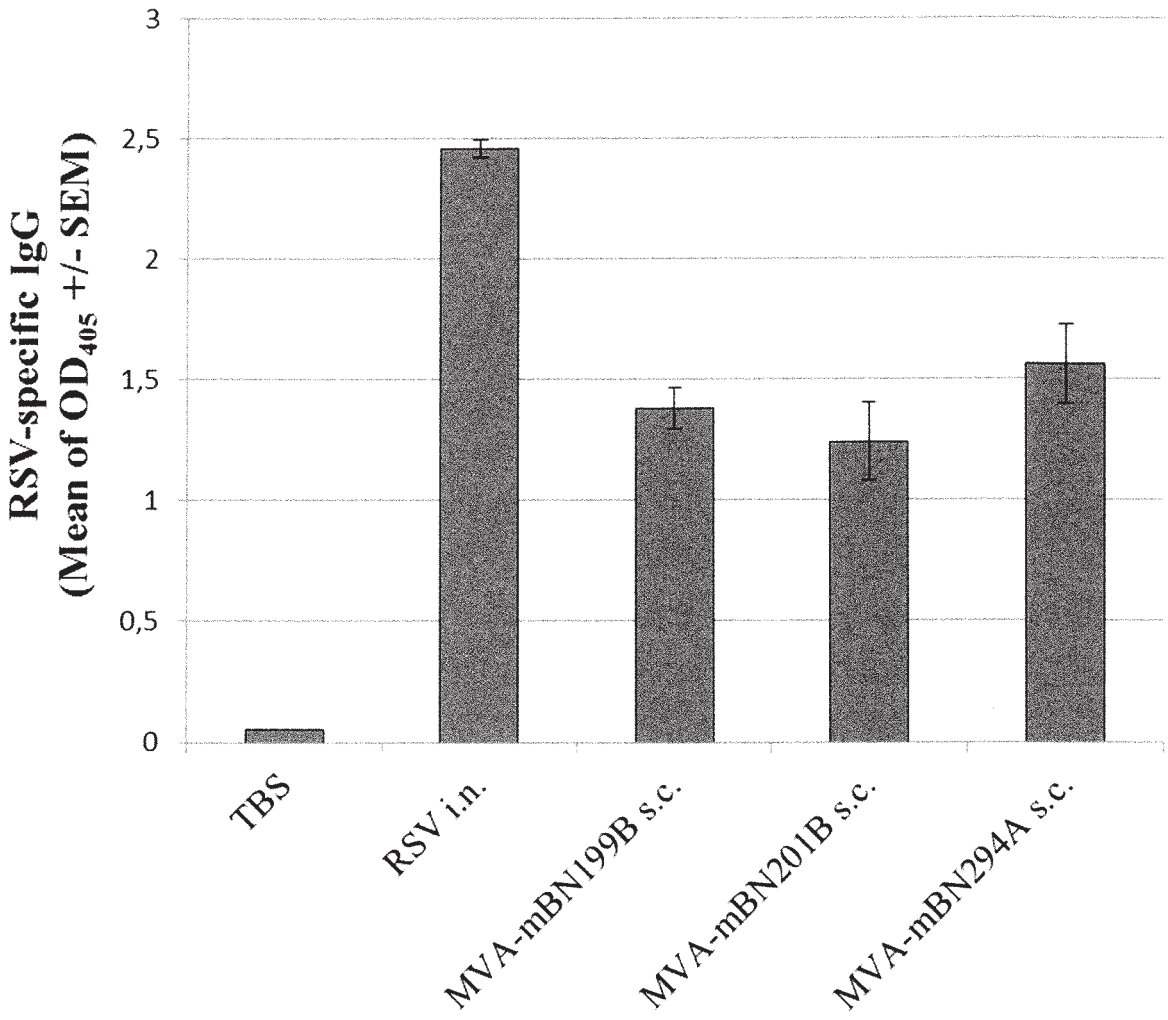

RSV-specific IgG
(Mean of OD405 +/- SEM)
3
2,5
2
1,5
1
0,5
0
TBS
RSV i.n.
MVA-mBN199B s.c.
MVA-mBN201B s.c.
MVA-mBN294A s.c.

FIGURE 14

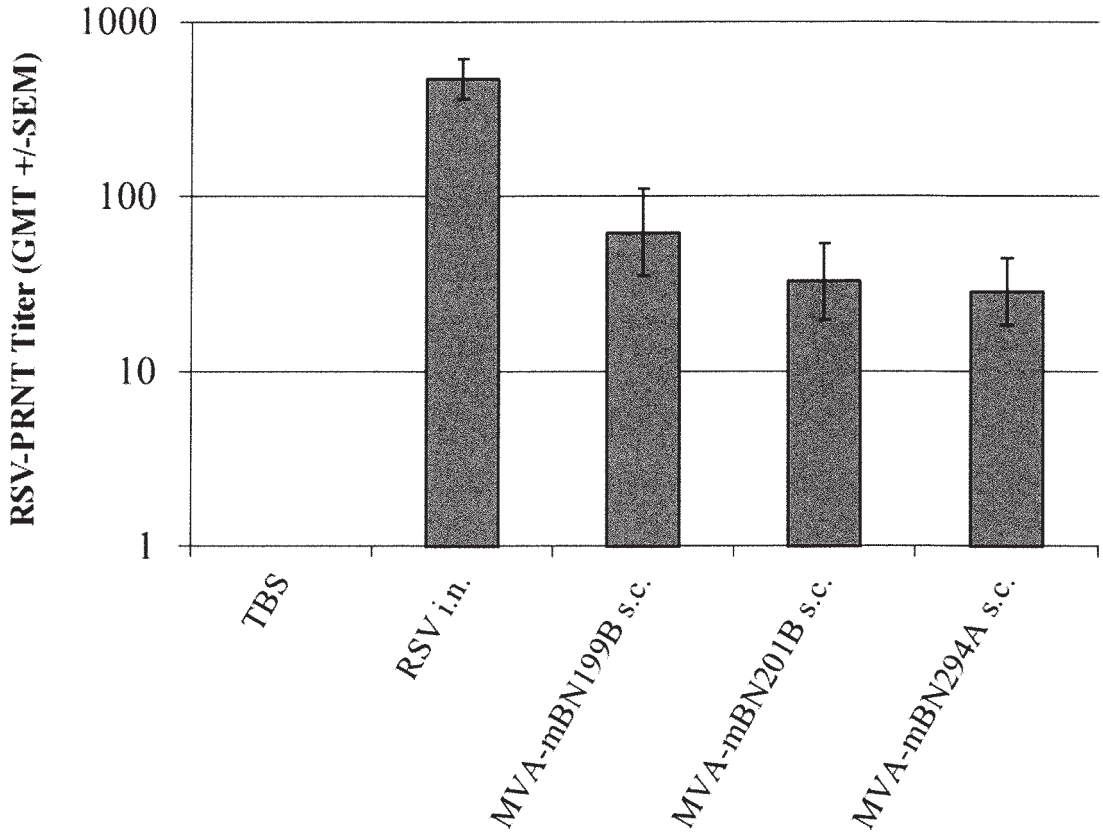

RSV-PRNT Titer (GMT +/-SEM)
1000
100
10
1
TBS
RSV i.n.
MVA-mBN199B s.c.
MVA-mBN201B s.c.
MVA-mBN294A s.c.

FIGURE 15

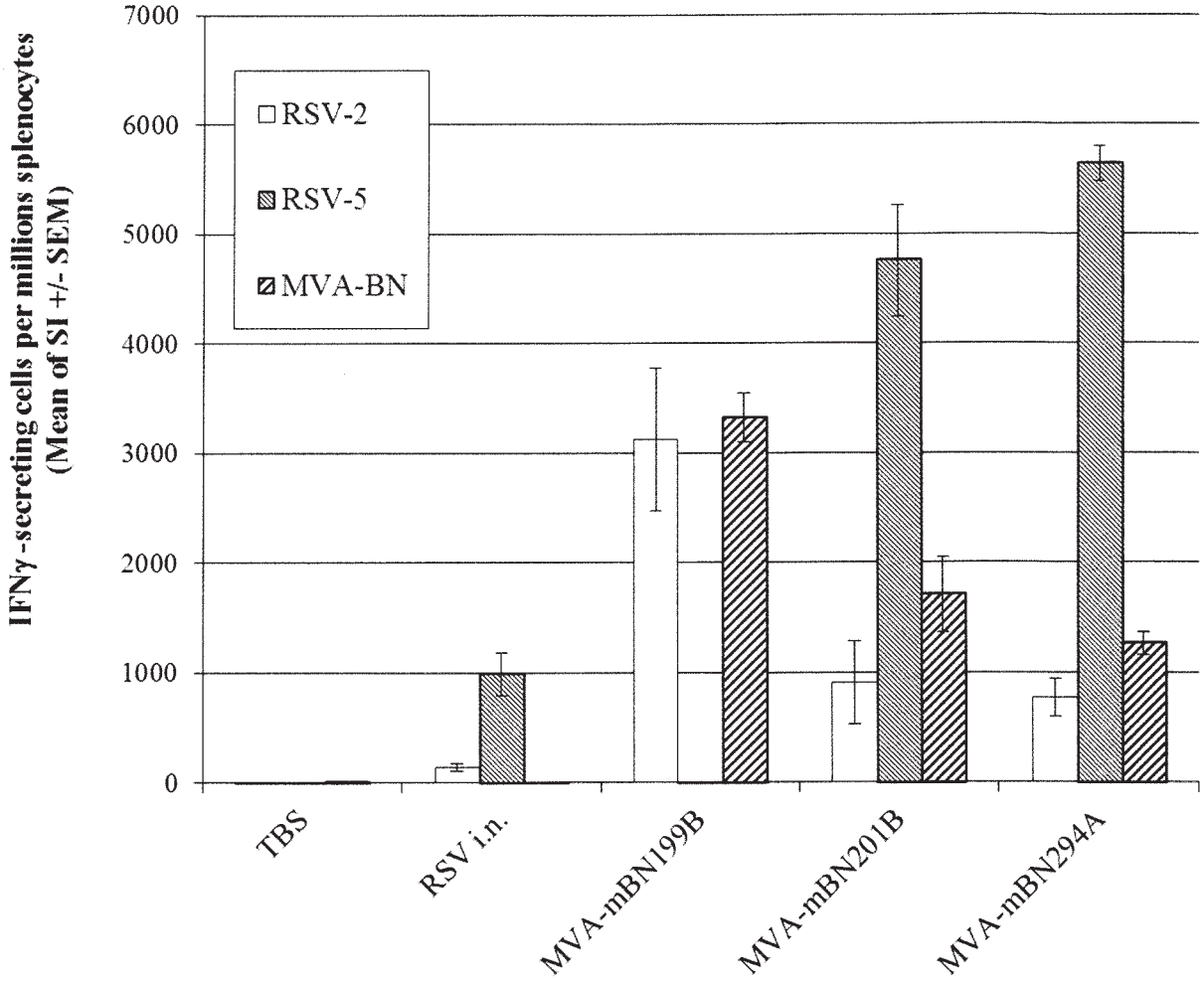

IFNγ -secreting cells per millions splenocytes
(Mean of SI +/- SEM)
7000
6000
5000
4000
3000
2000
1000
0
RSV-2
RSV-5
MVA-BN
TBS
RSV i.n.
MVA-mBN199B
MVA-mBN201B
MVA-mBN294A

FIGURE 16

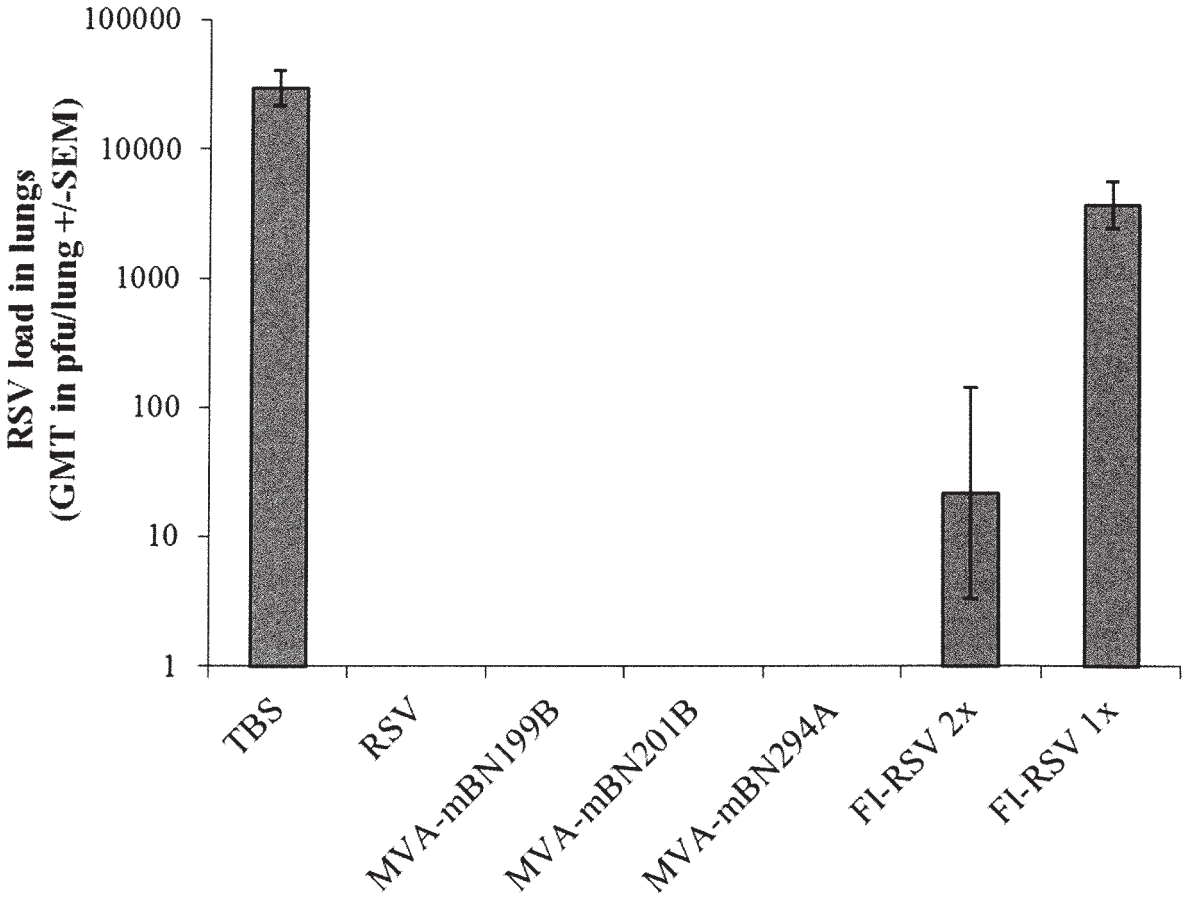

RSV load in lungs
(GMT in pfu/lung +/-SEM)
100000
10000
1000
100
10
1
TBS
RSV
MVA-mBN199B
MVA-mBN201B
MVA-mBN294A
FI-RSV 2x
FI-RSV 1x

FIGURE 17

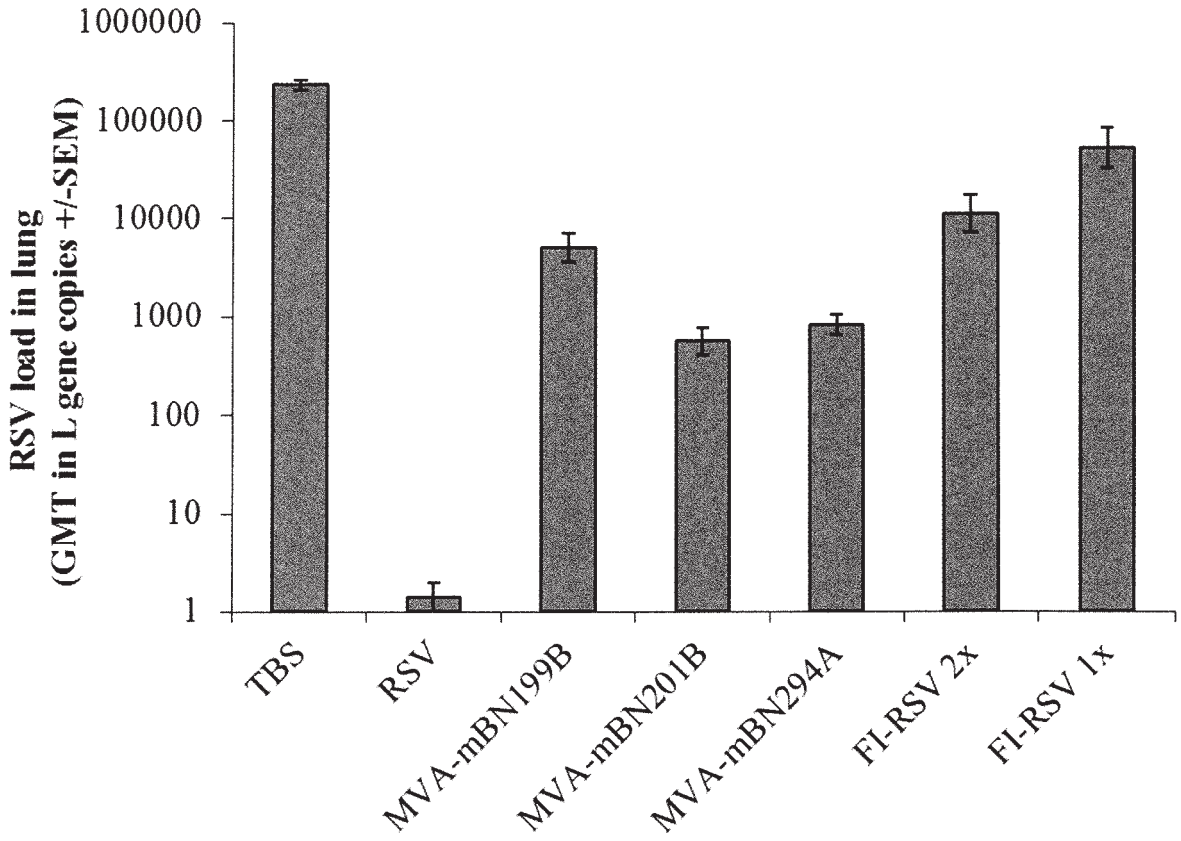
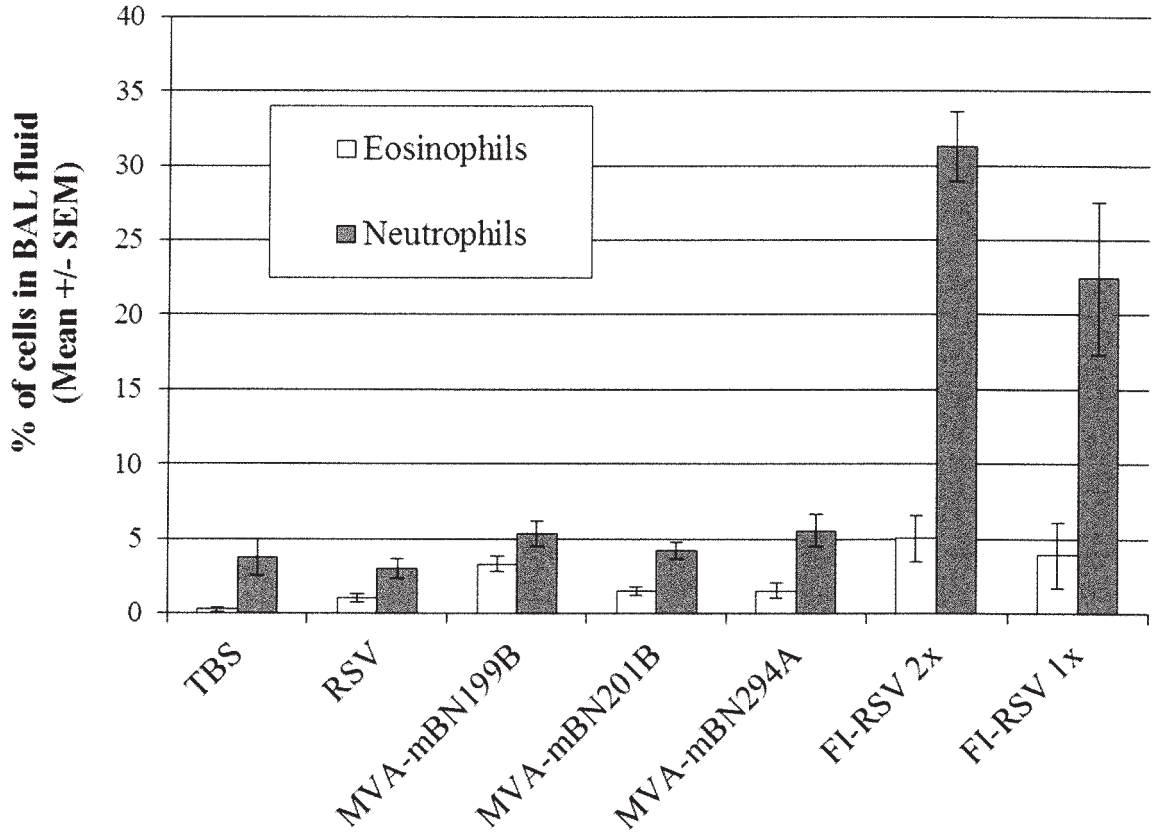

RSV load in lung
(GMT in L gene copies +/-SEM)
1000000
100000
10000
1000
100
10
1
TBS
RSV
MVA-mBN199B
MVA-mBN201B
MVA-mBN294A
FI-RSV 2x
FI-RSV 1x

FIGURE 18


% of cells in BAL fluid (Mean +/- SEM)
40
35
30
25
20
15
10
5
0
Eosinophils
Neutrophils
TBS
RSV
MVA-mBN199B
MVA-mBN201B
MVA-mBN294A
FI-RSV 2x
FI-RSV 1x