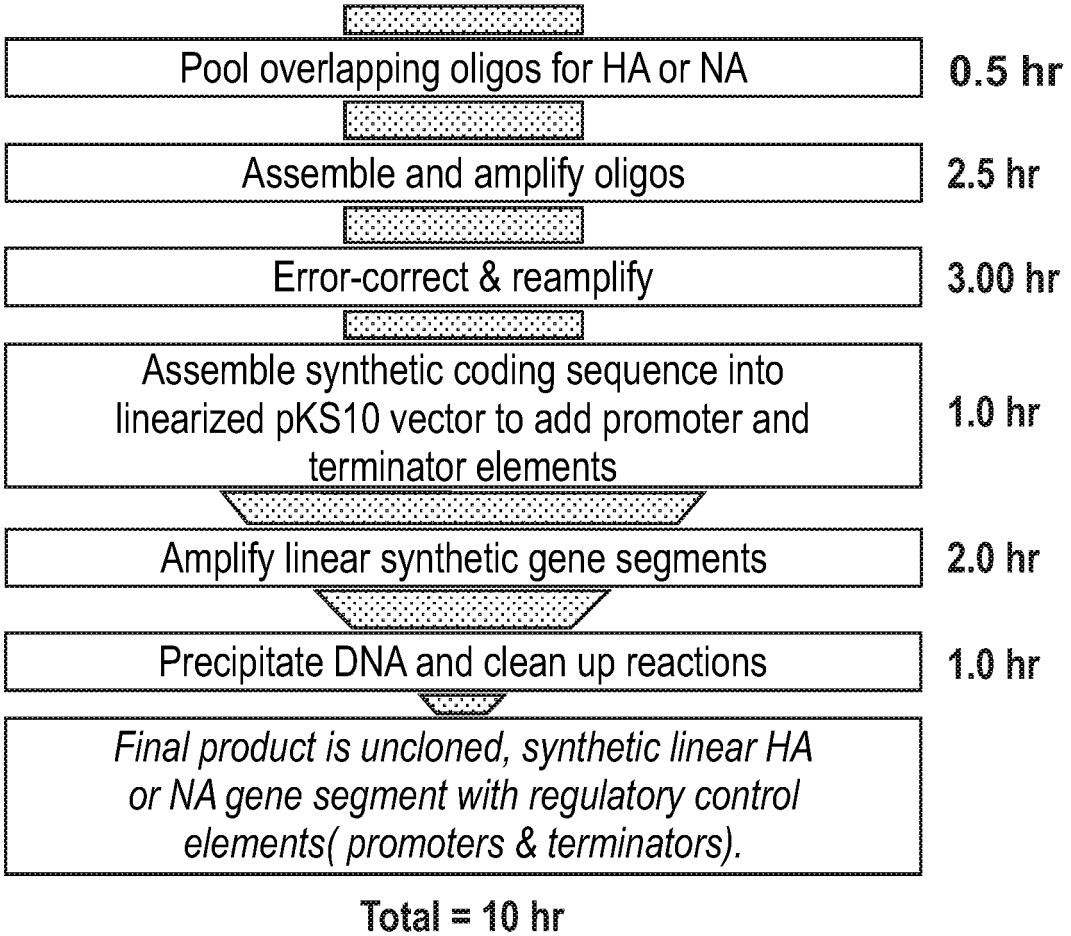
FIG. 1(A)



Total = 10 hr

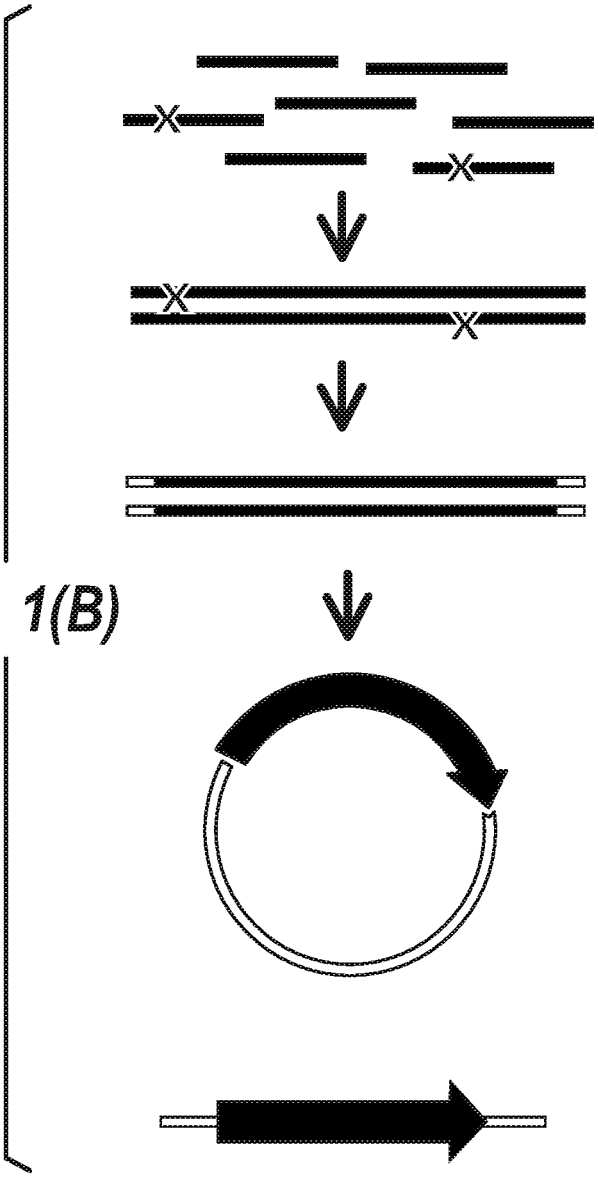


FIG. 1(B)

FIG. 1(C)

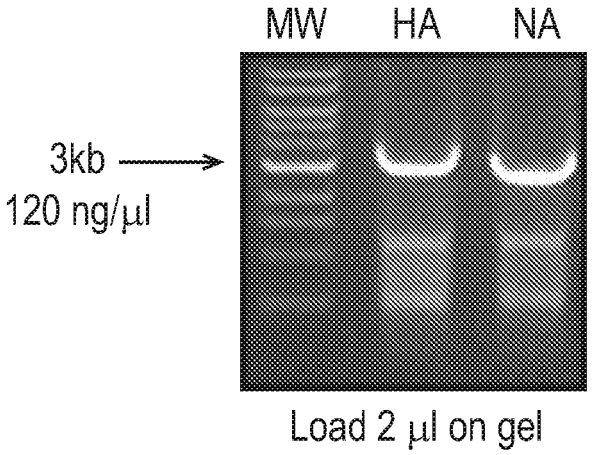


FIG. 2

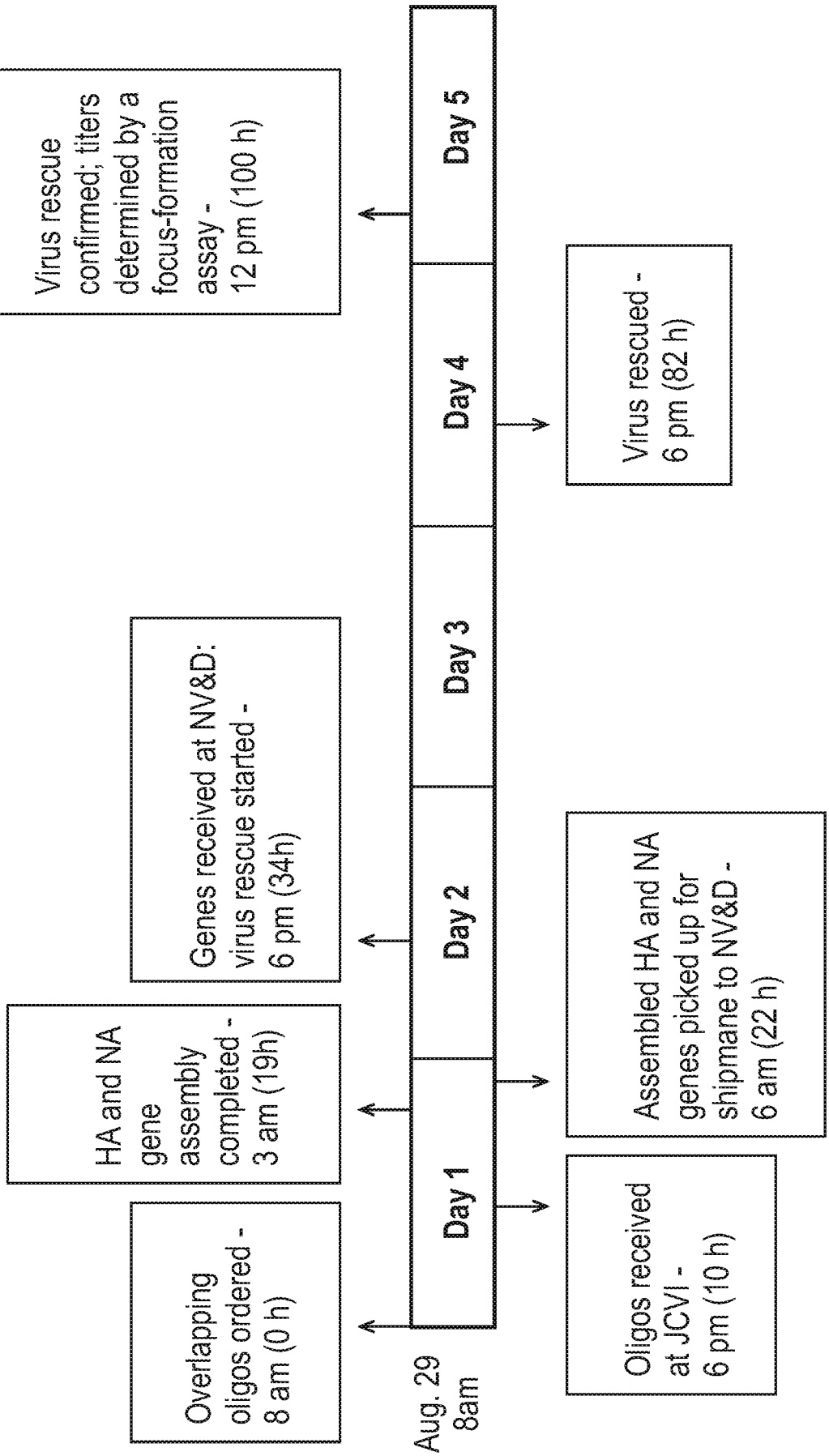

Aug. 29
8am
Day 1
Day 2
Day 3
Day 4
Day 5
Overlapping oligos ordered - 8 am (0 h)
HA and NA gene assembly completed - 3 am (19h)
Genes received at NV&D: virus rescue started - 6 pm (34h)
Virus rescue confirmed; titers determined by a focus-formation assay - 12 pm (100 h)
Oligos received at JCVI - 6 pm (10 h)
Assembled HA and NA genes picked up for shipmane to NV&D - 6 am (22 h)
Virus rescued - 6 pm (82 h)

FIG. 3(A)

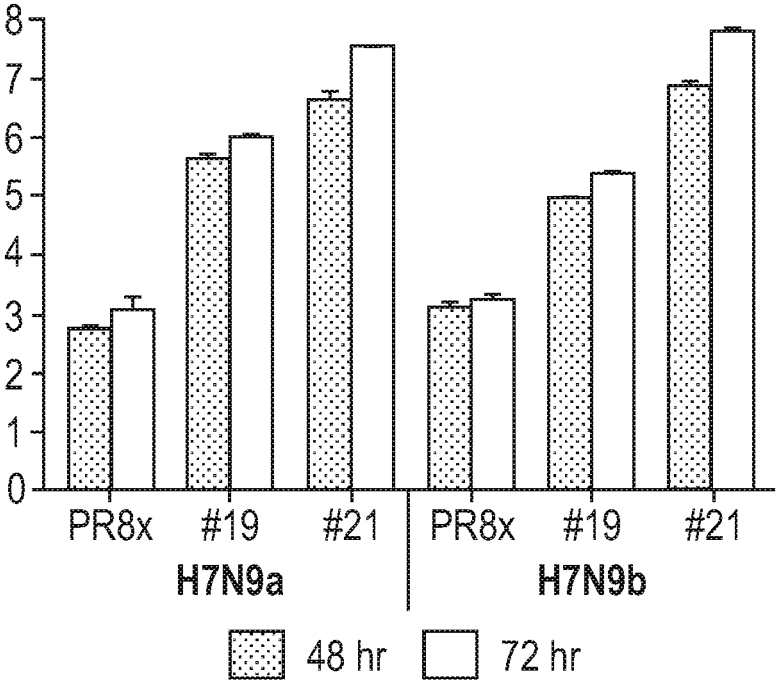

8
7
6
5
4
3
2
1
0
PR8x
#19
#21
PR8x
#19
#21
H7N9a
H7N9b
48 hr
72 hr

FIG. 3(B)

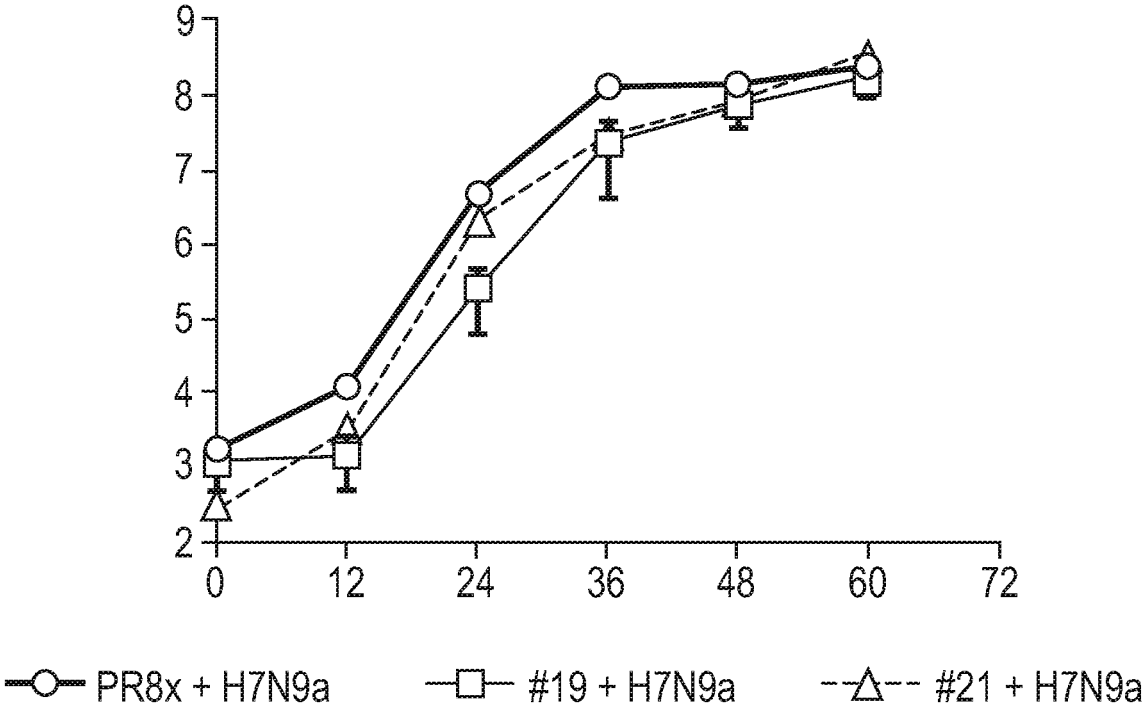

9
8
7
6
5
4
3
2
0
12
24
36
48
60
72
PR8x + H7N9a
#19 + H7N9a
#21 + H7N9a

FIG. 3(C)

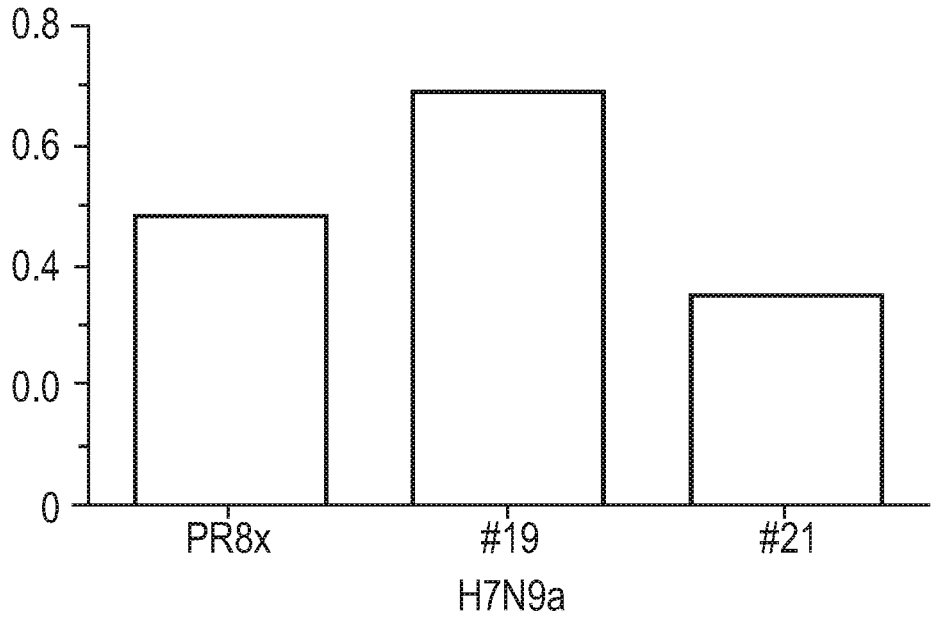


FIG. 4(A)

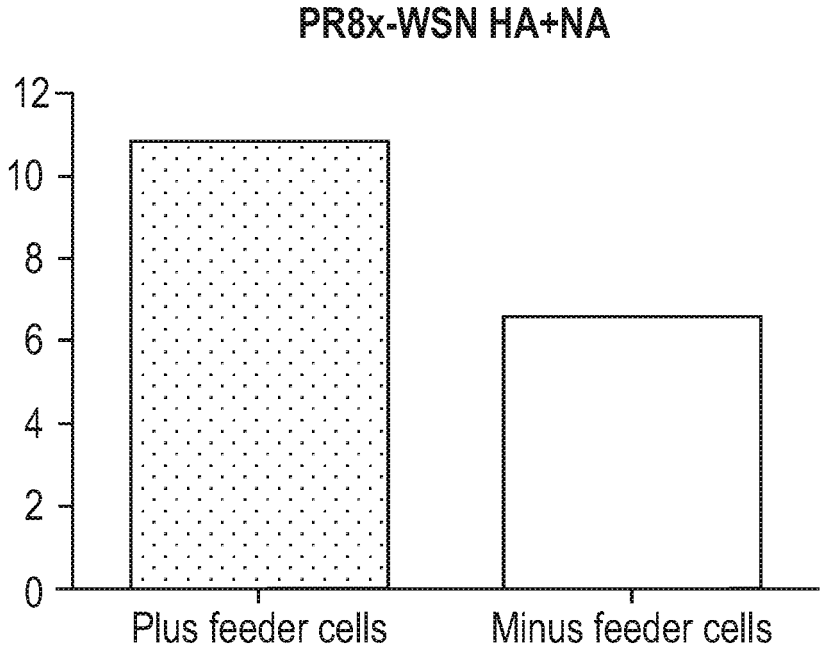

PR8x-WSN HA+NA
12
10
8
6
4
2
0
Plus feeder cells
Minus feeder cells

FIG. 4(B)

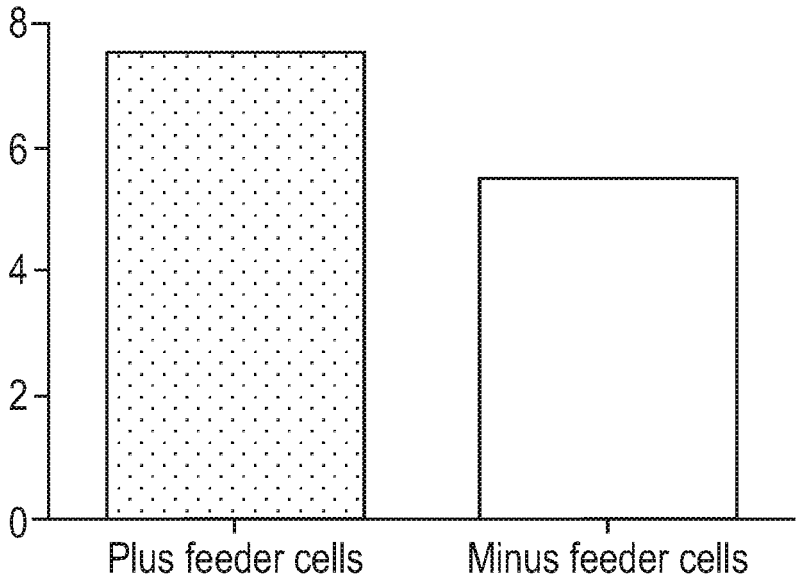

PR8x-A/CA HA+NA
8
6
4
2
0
Plus feeder cells
Minus feeder cells

FIG. 5(A)

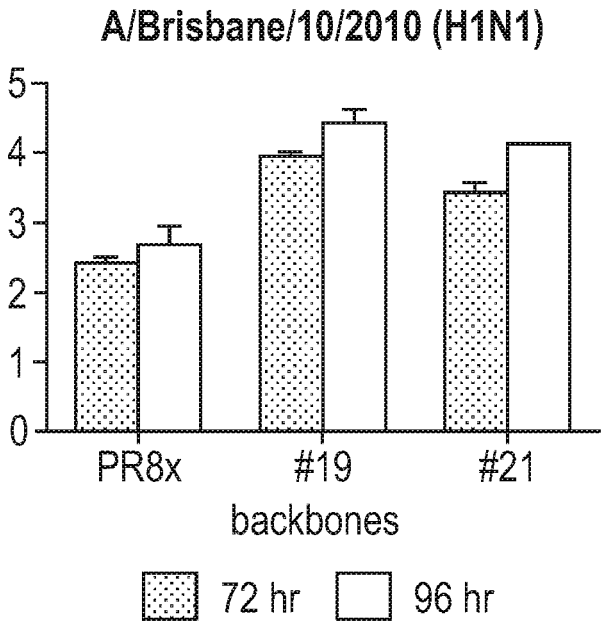

A/Brisbane/10/2010 (H1N1)
5
4
3
2
1
0
PR8x
#19
#21
backbones
72 hr
96 hr

FIG. 5(B)

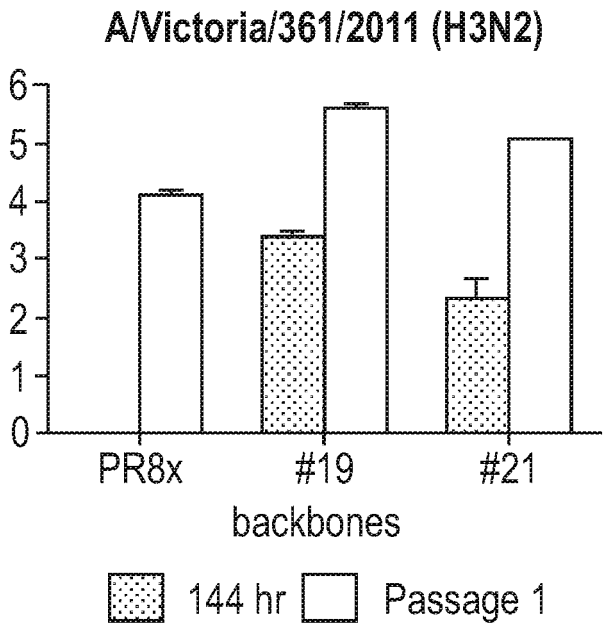

A/Victoria/361/2011 (H3N2)
6
5
4
3
2
1
0
PR8x
#19
#21
backbones
144 hr
Passage 1

FIG. 5(C)

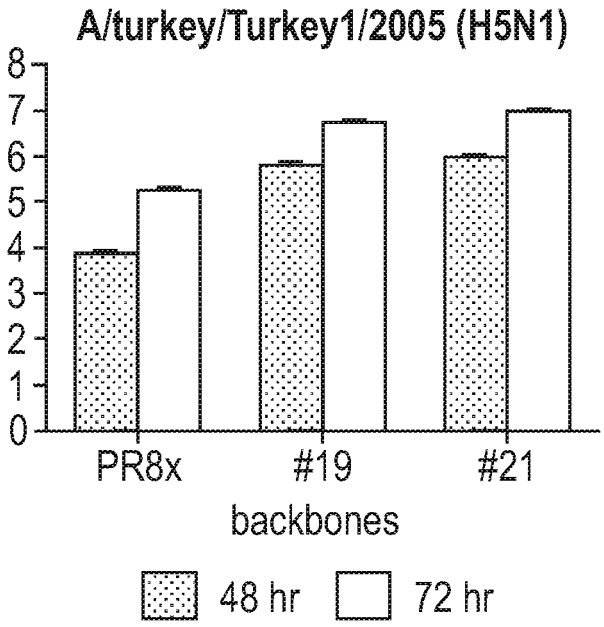

A/turkey/Turkey1/2005 (H5N1)
8
7
6
5
4
3
2
1
0
PR8x
#19
#21
backbones
48 hr
72 hr

FIG. 5(D)

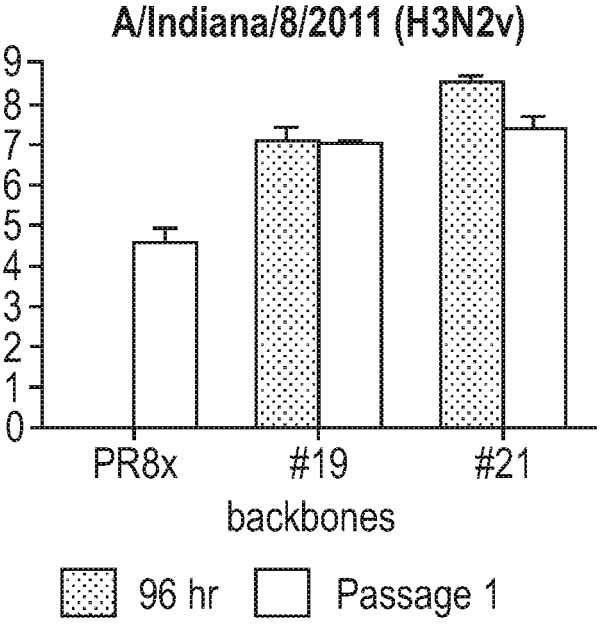

A/Indiana/8/2011 (H3N2v)
9
8
7
6
5
4
3
2
1
0
PR8x
#19
#21
backbones
96 hr
Passage 1

FIG. 5(E)

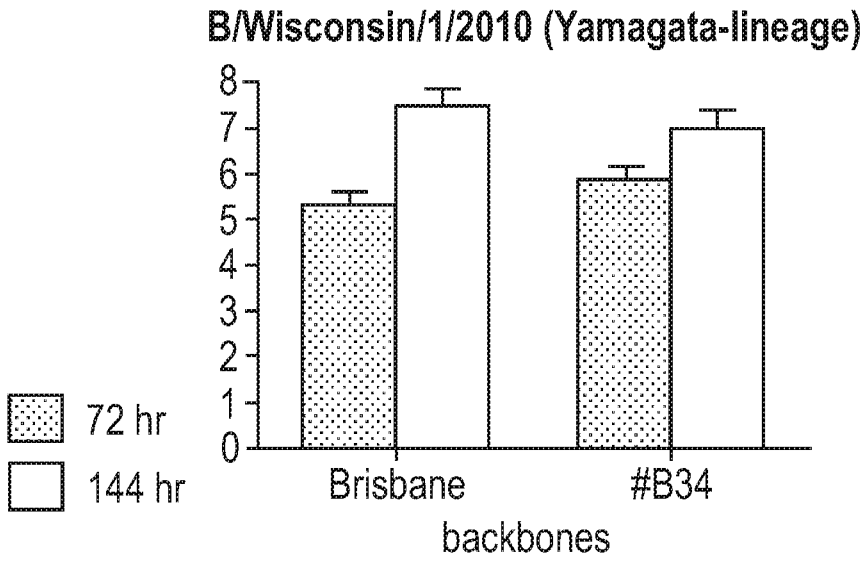


FIG. 5(F)

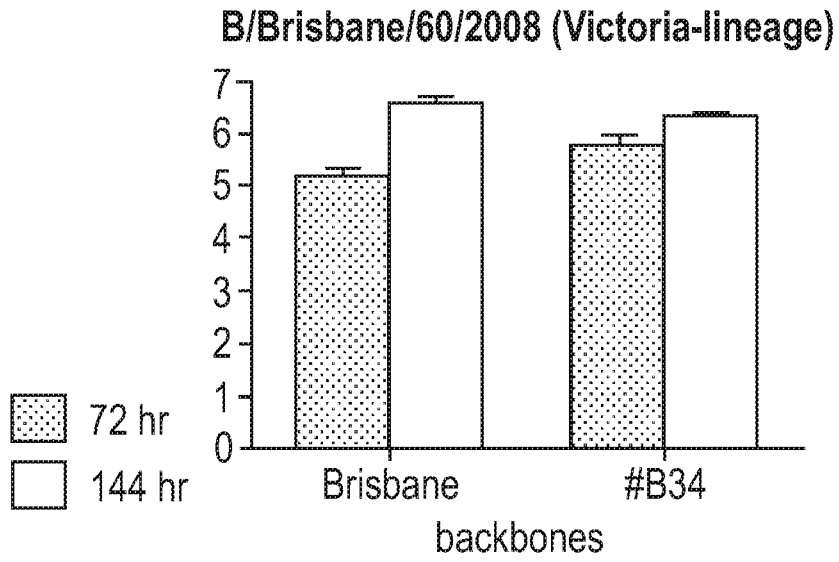


FIG. 6

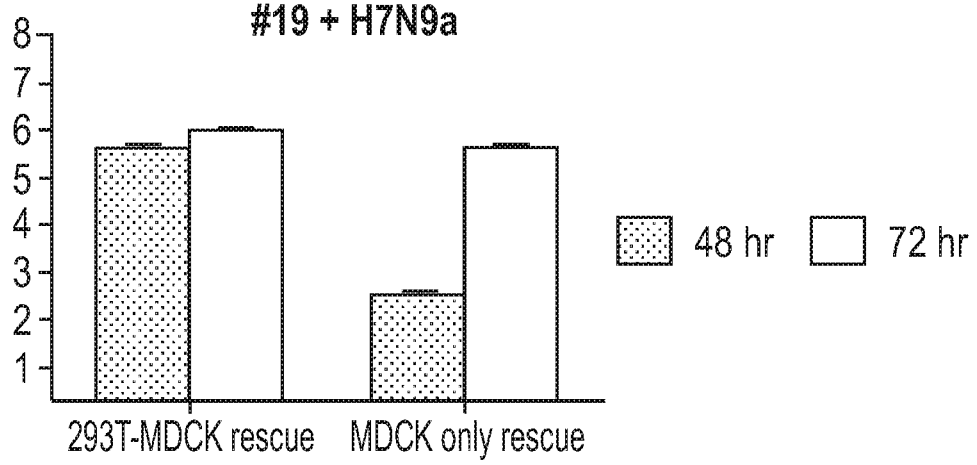


FIG. 7(A)

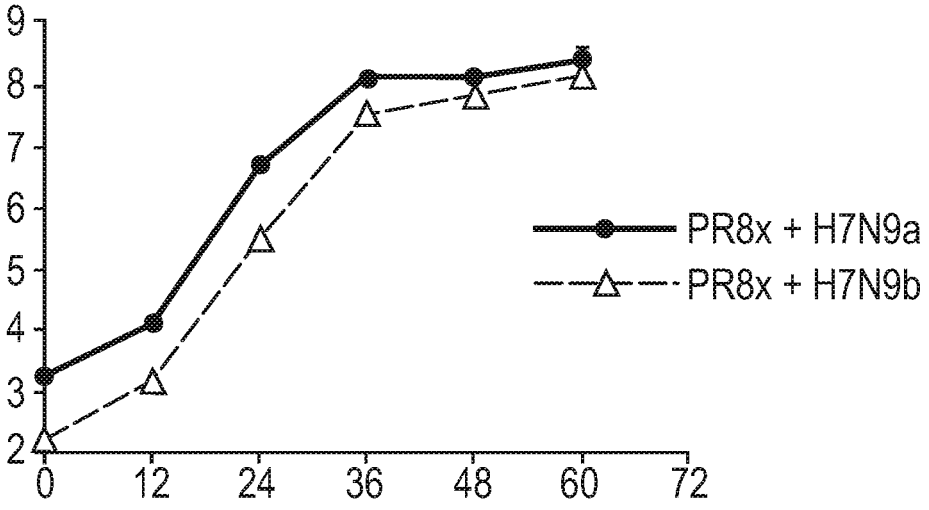


FIG. 7(B)

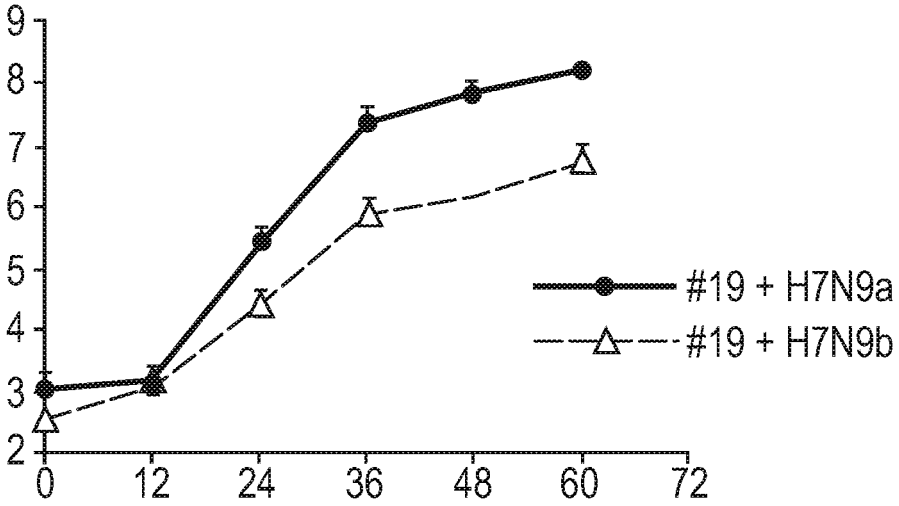


FIG. 7(C)

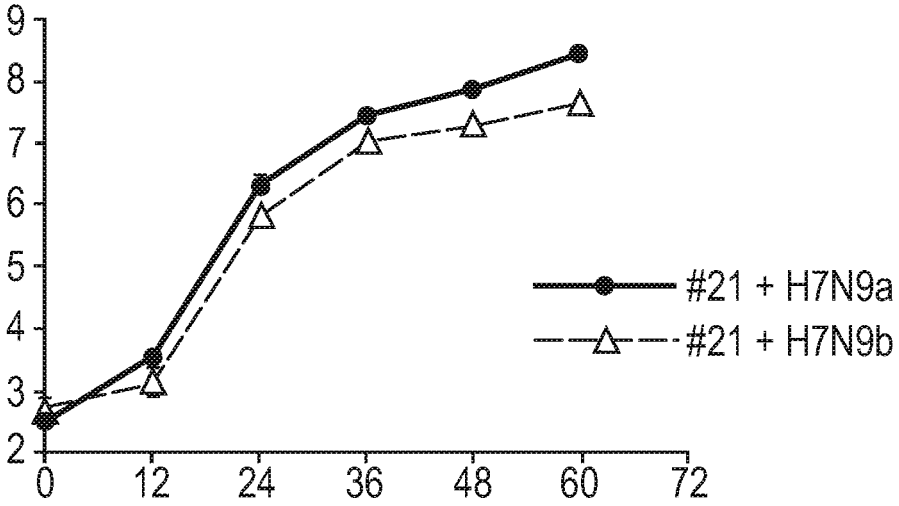


FIG. 8

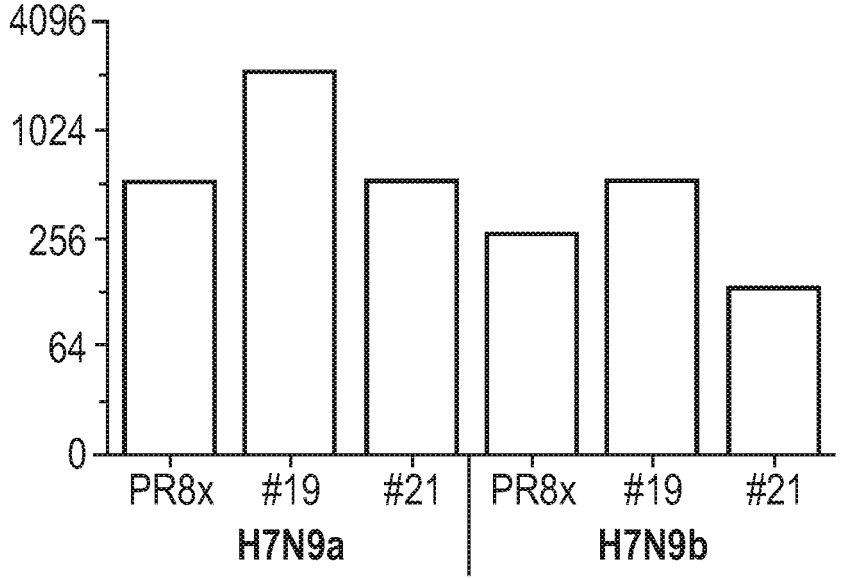


FIG. 9(A)

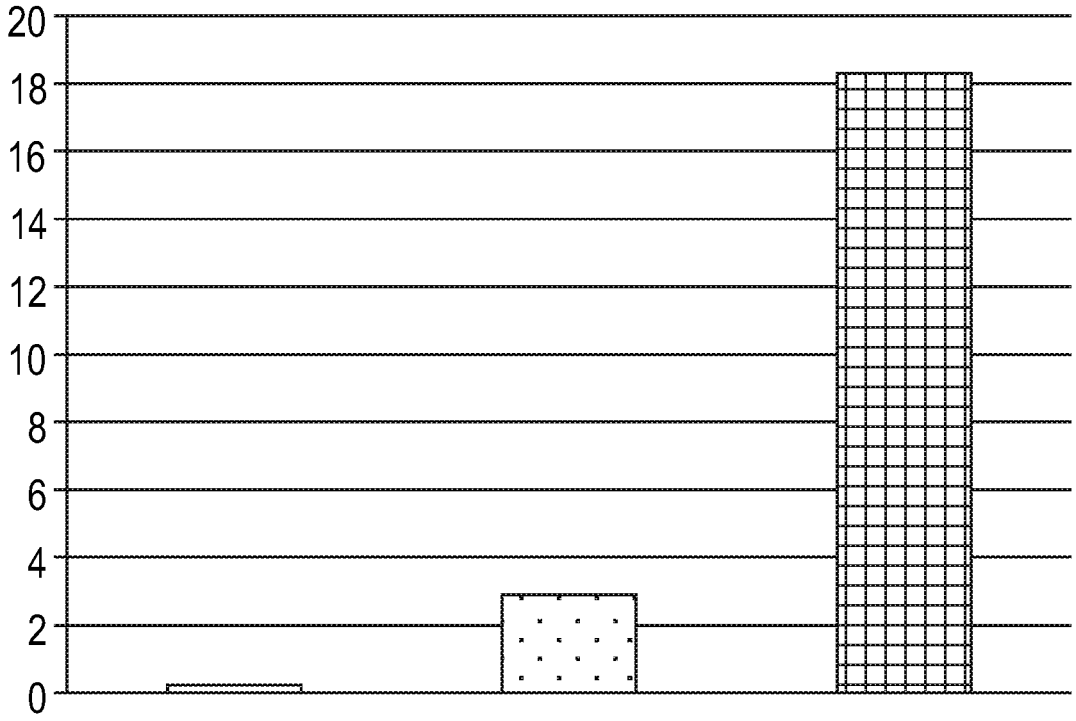


FIG. 9(B)

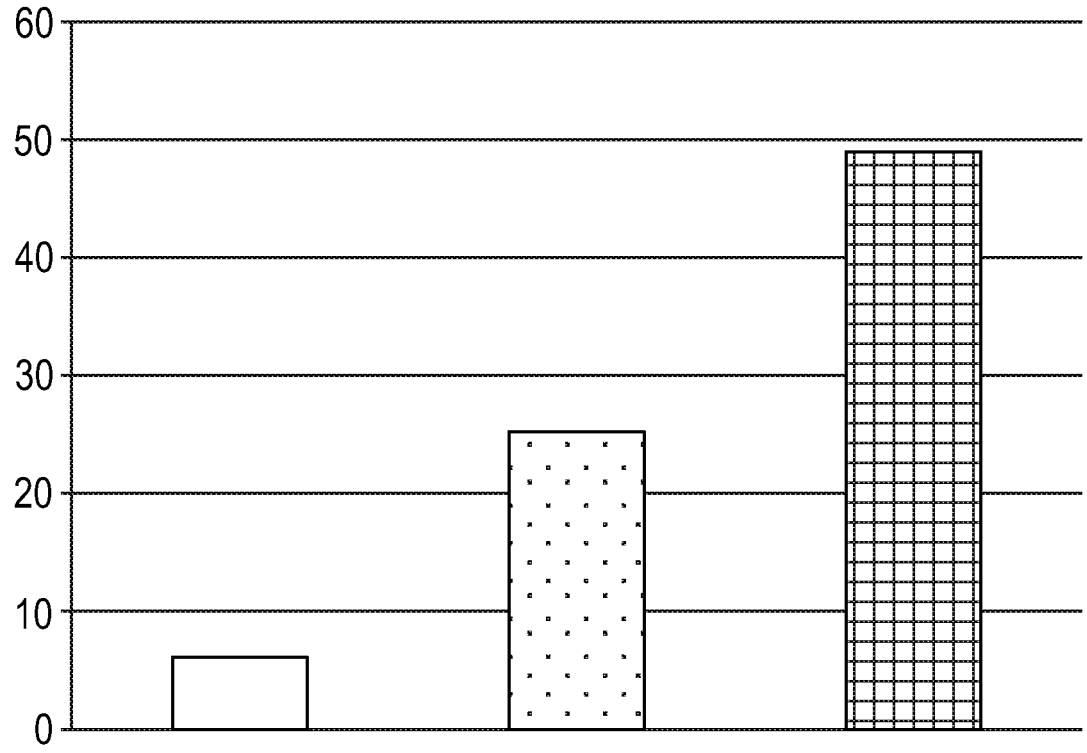


FIG. 10(A)

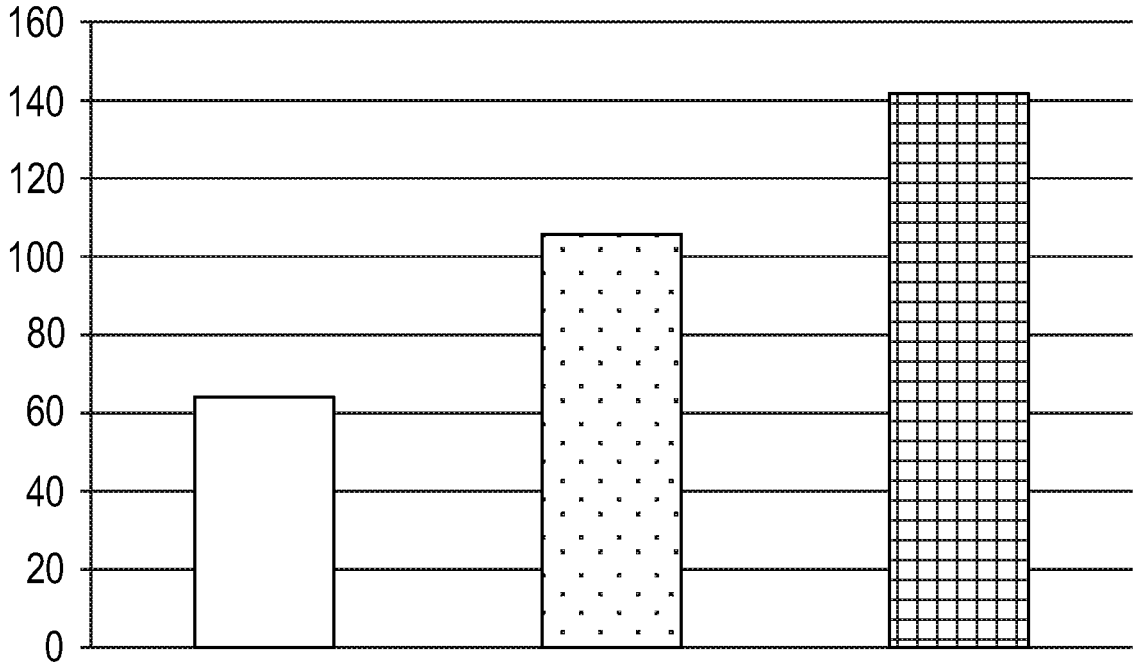


FIG. 10(B)

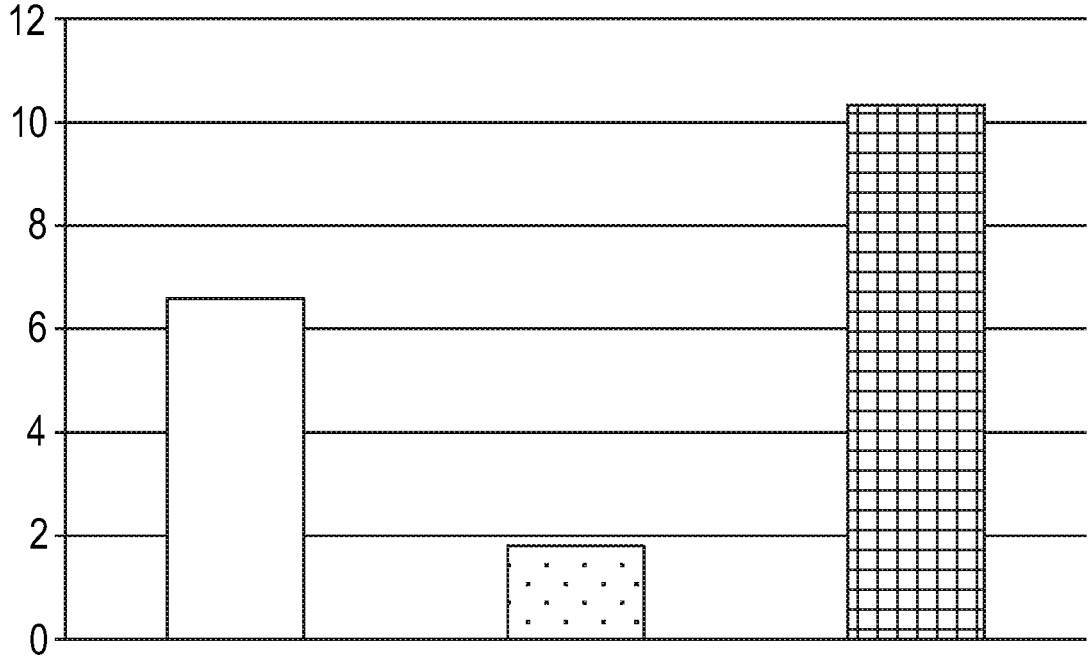


FIG. 11

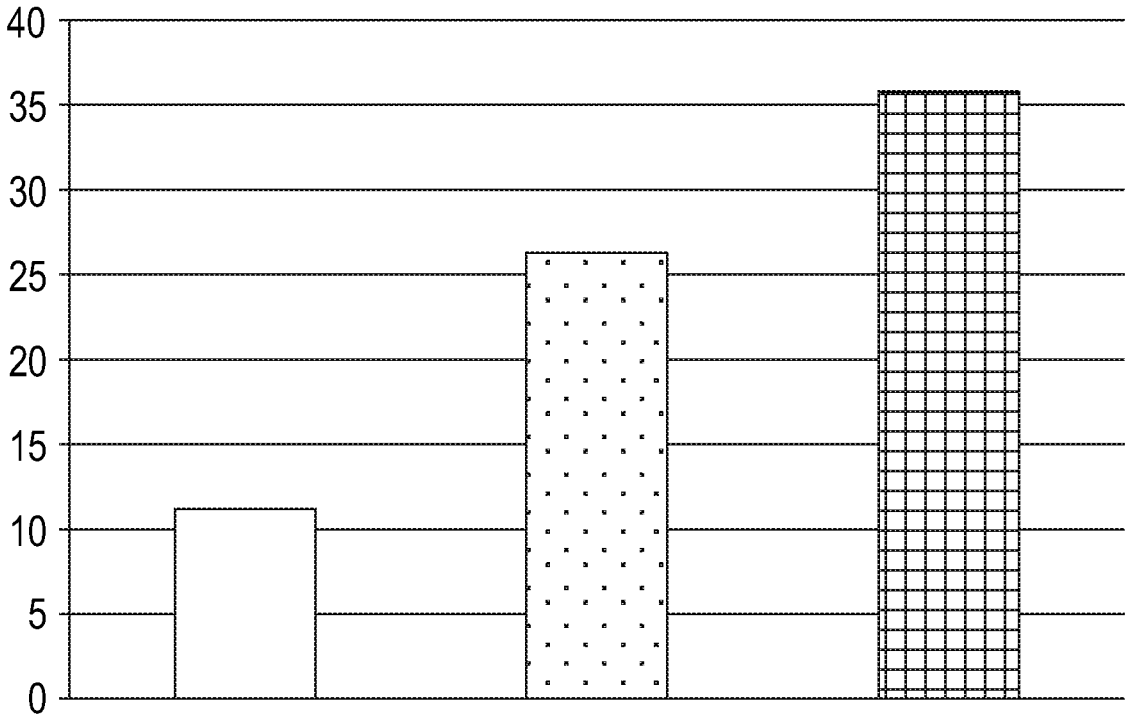


FIG. 12(A)

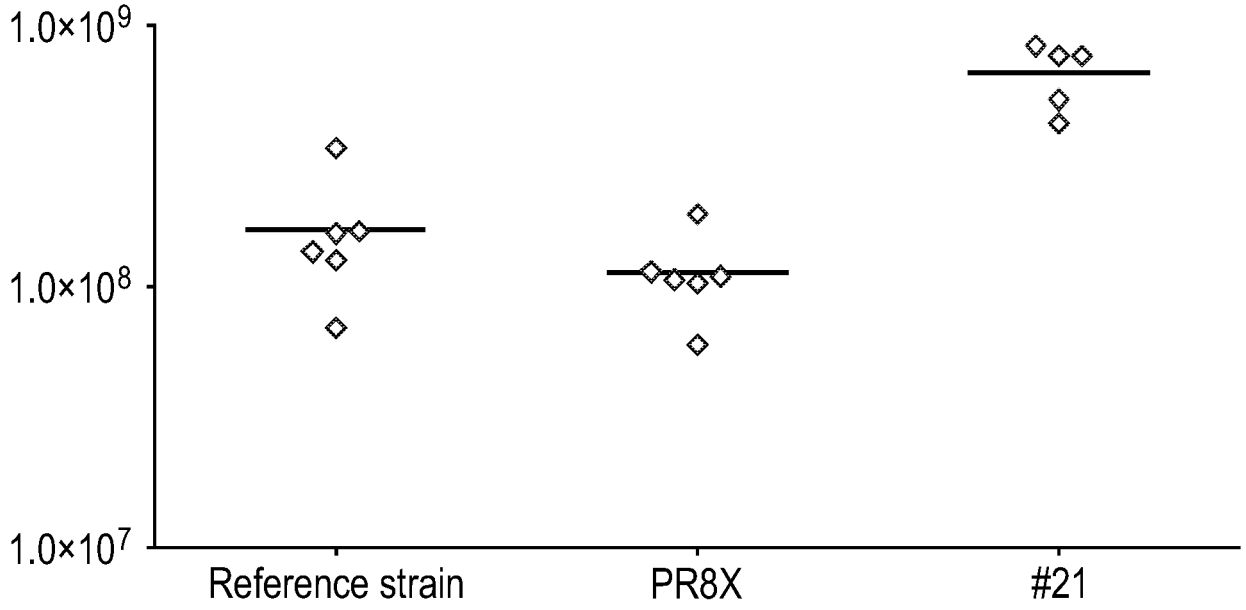


FIG. 12(B)

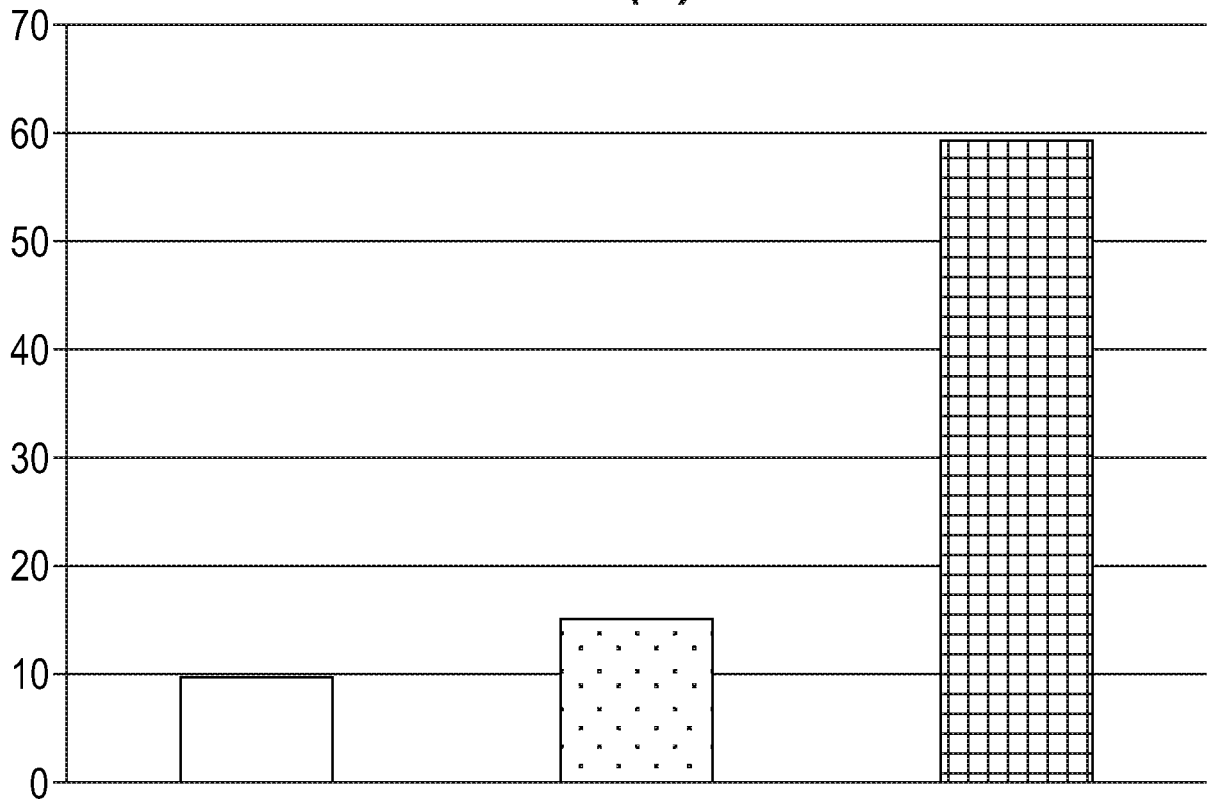


FIG. 13

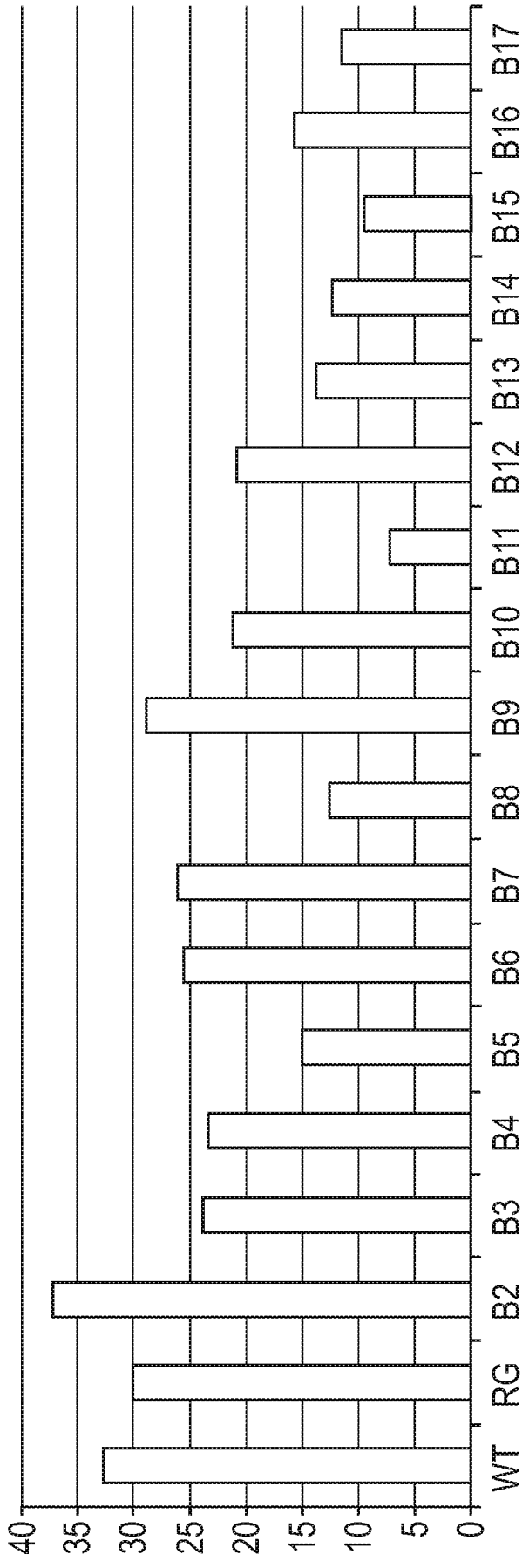
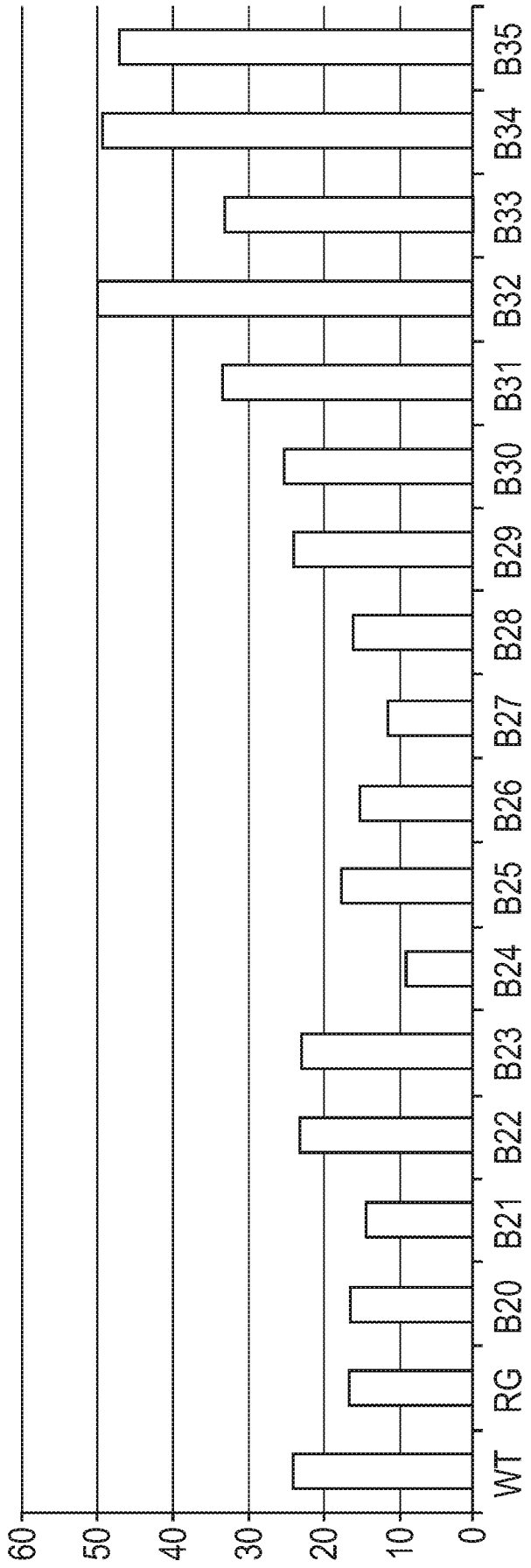

40
35
30
25
20
15
10
5
0
WT
RG
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17

FIG. 14


60
50
40
30
20
10
0
WT
RG
B20
B21
B22
B23
B24
B25
B26
B27
B28
B29
B30
B31
B32
B33
B34
B35