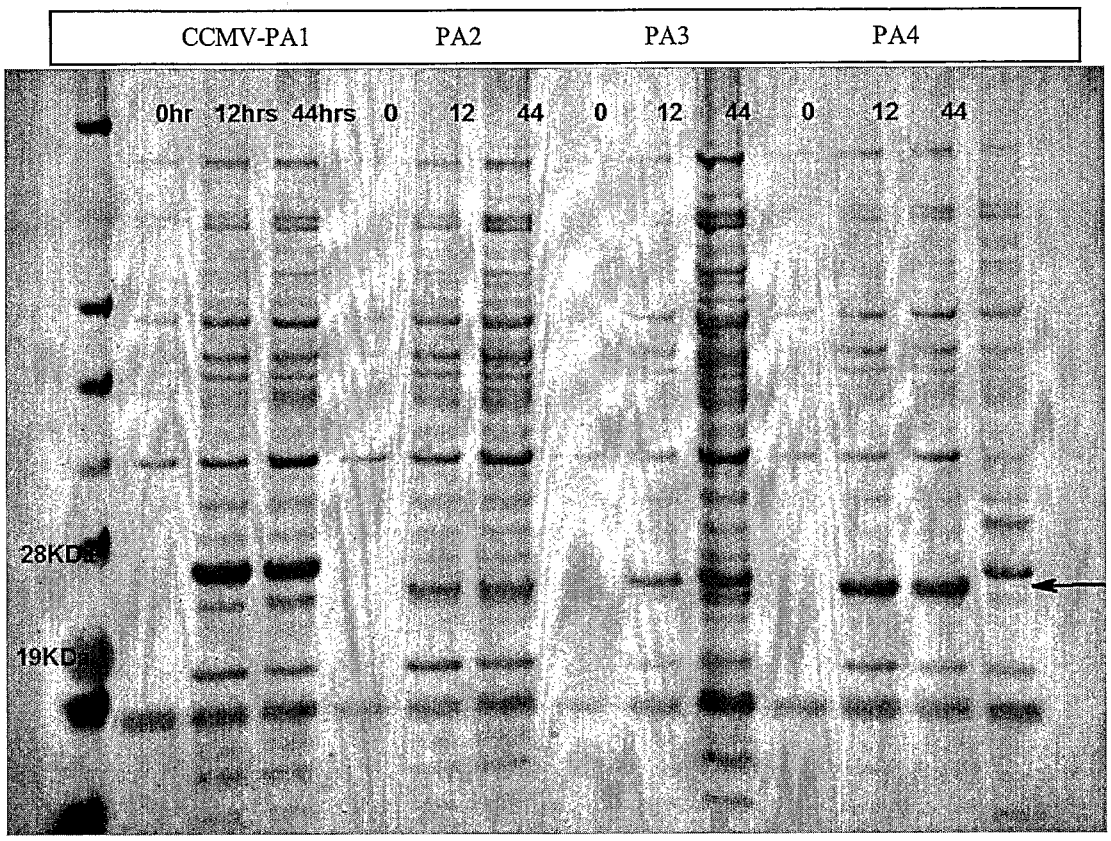

CCMV-PA1
PA2
PA3
PA4
0hr
12hrs
44hrs
0
12
44
0
12
44
0
12
44
28KDa
19KDa

FIGURE 1

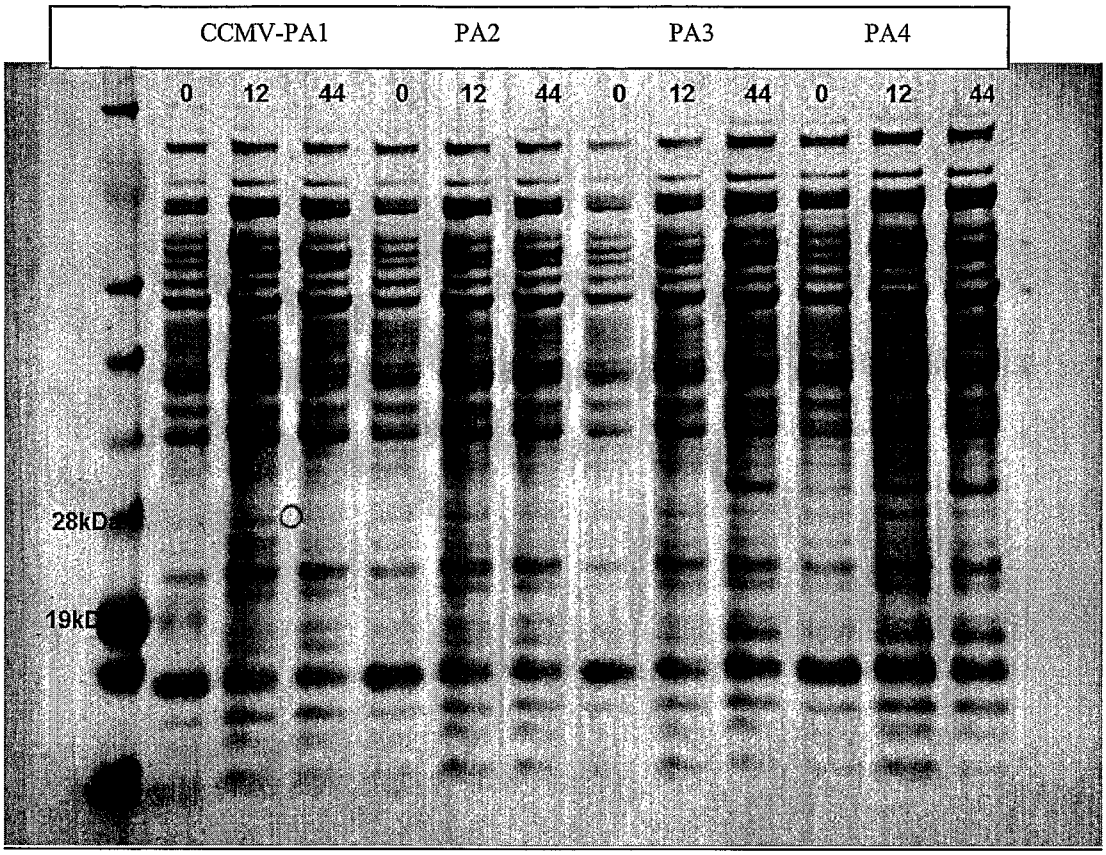
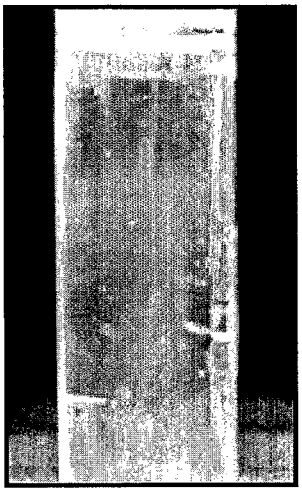


FIGURE 2

PA3 with no RNA



PA3 with CCMV RNA2

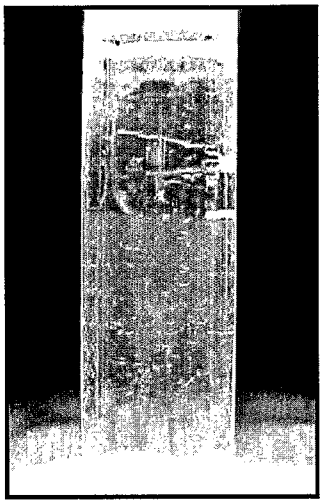


FIGURE 3

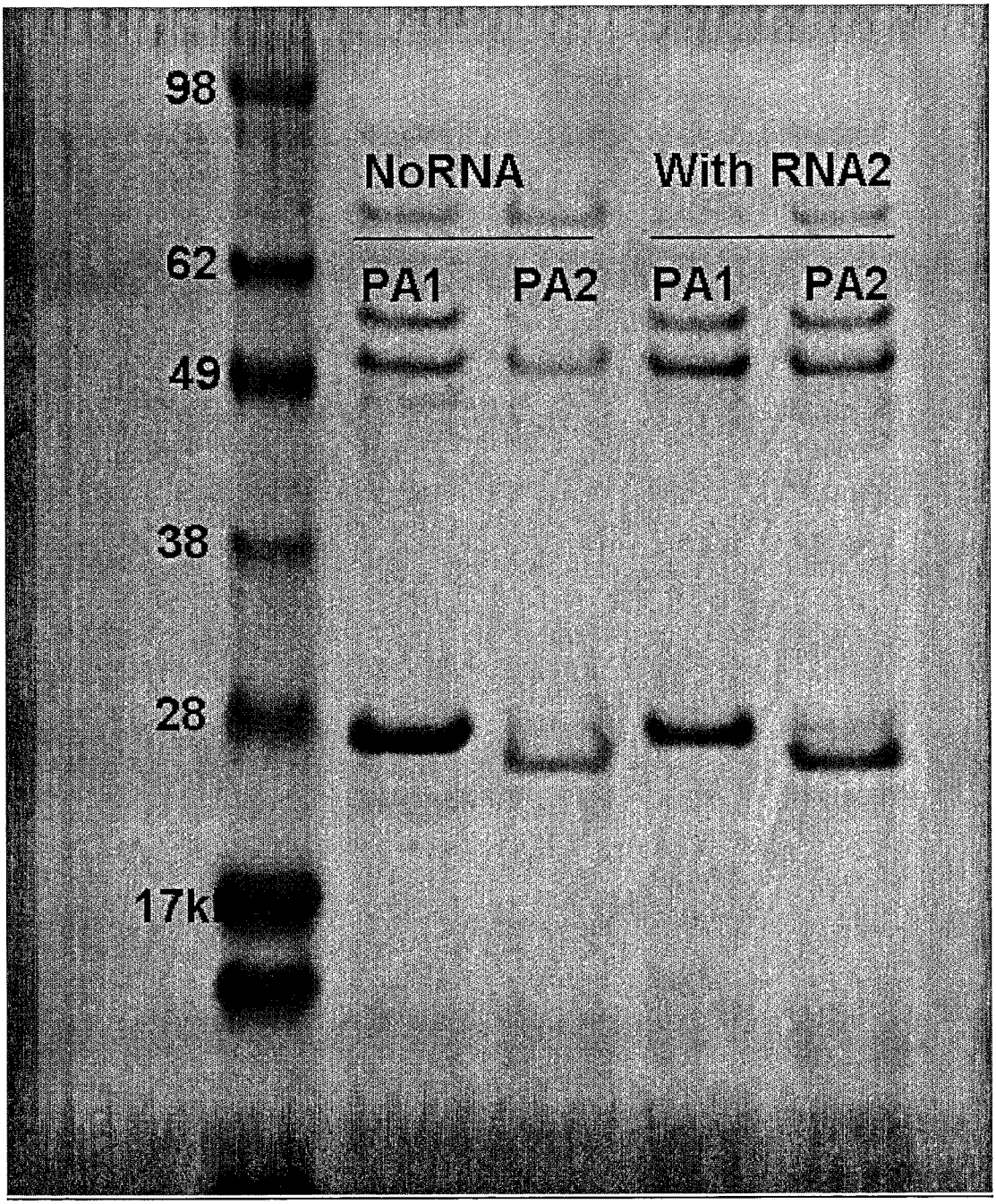


FIGURE 4

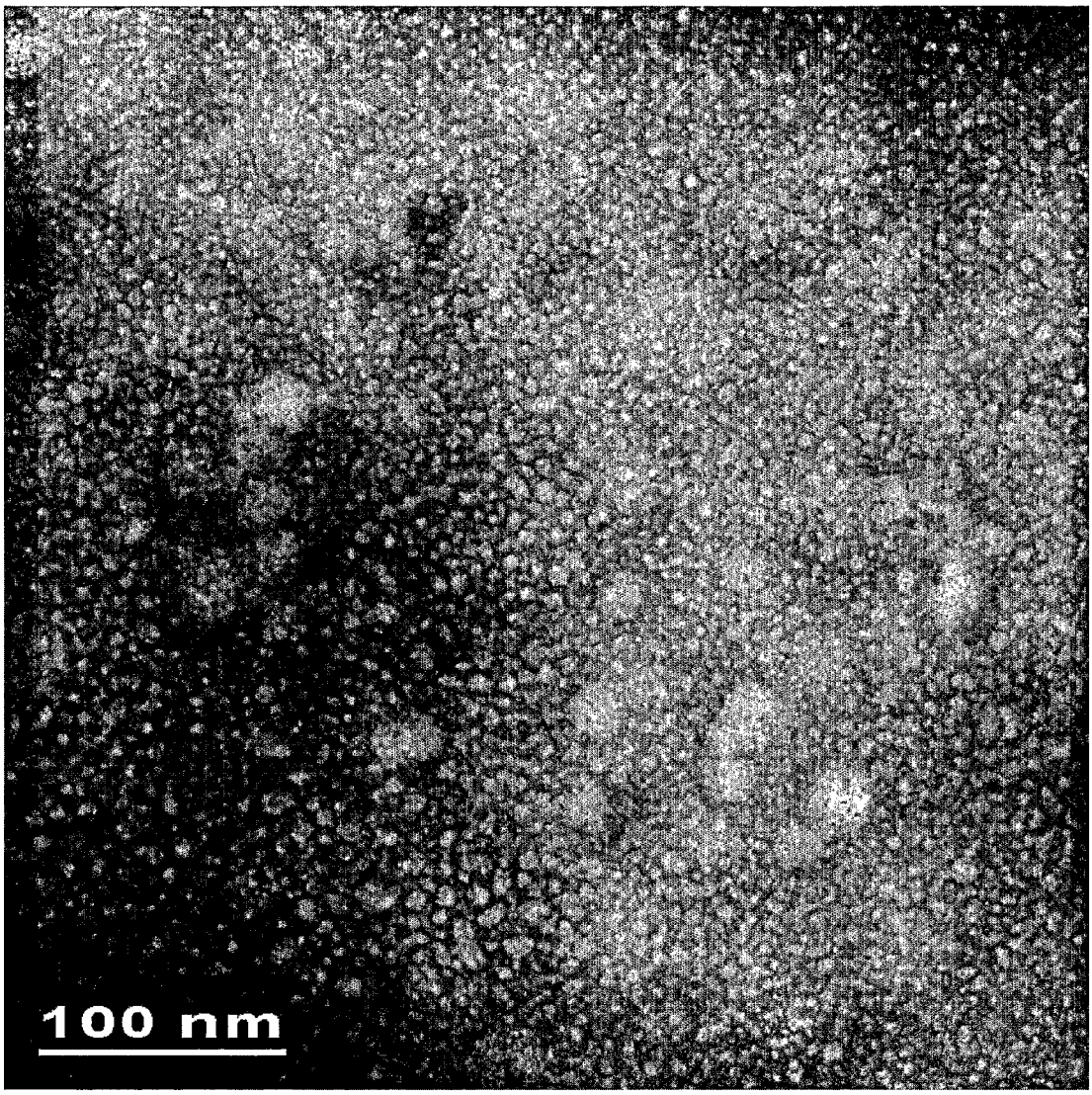


FIGURE 5

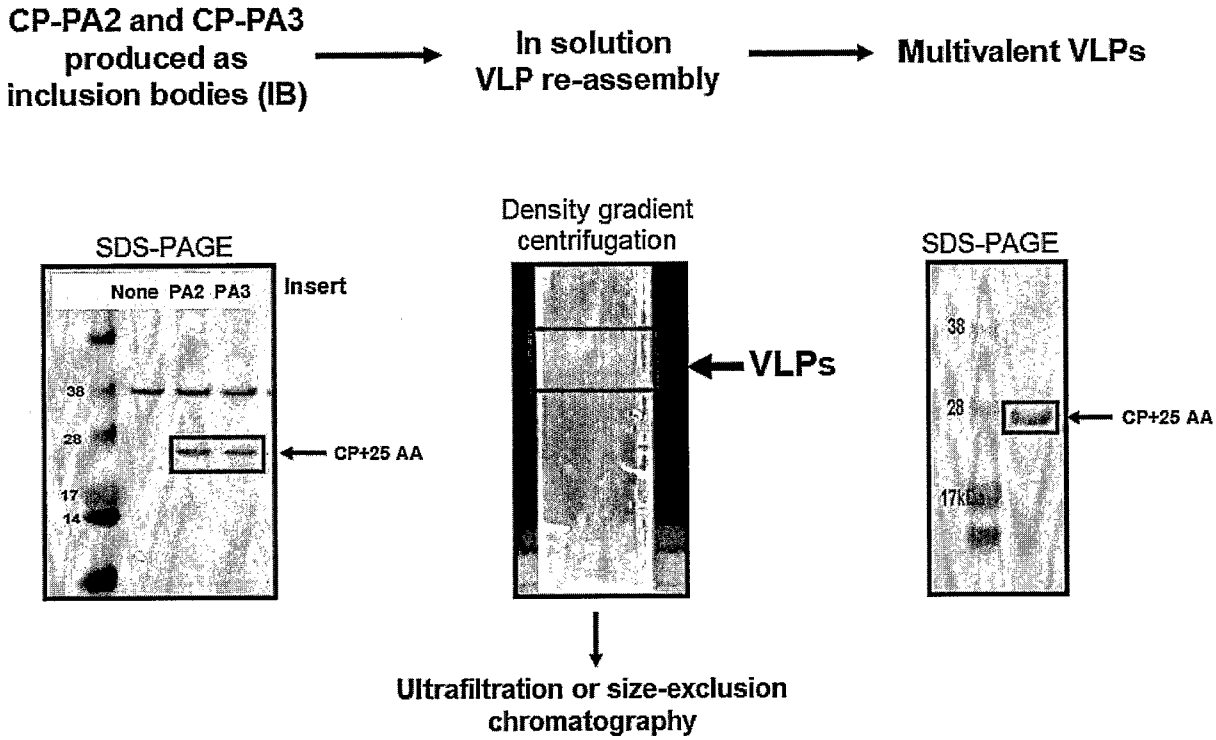

CP-PA2 and CP-PA3 produced as inclusion bodies (IB)
In solution VLP re-assembly
Multivalent VLPs
SDS-PAGE
None PA2 PA3
Insert
38
28
17
14
CP+25 AA
Density gradient centrifugation
VLPs
SDS-PAGE
38
28
17kDa
CP+25 AA
Ultrafiltration or size-exclusion chromatography

FIGURE 6

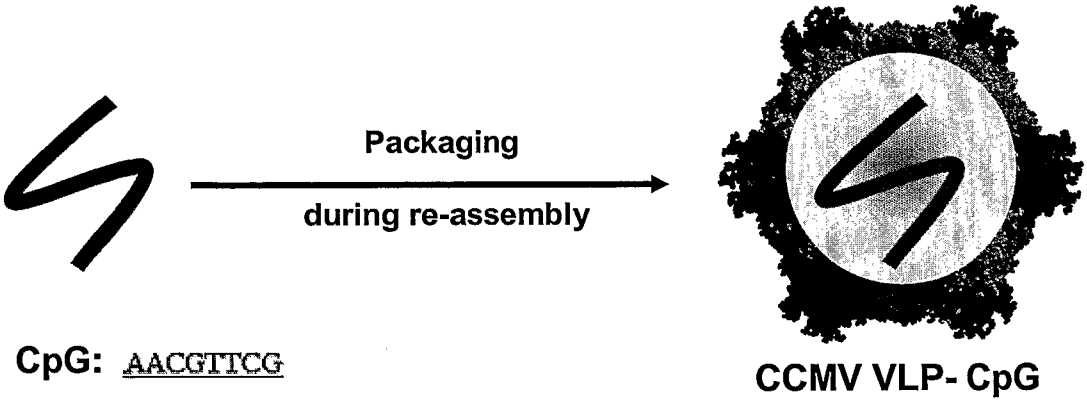


FIGURE 7

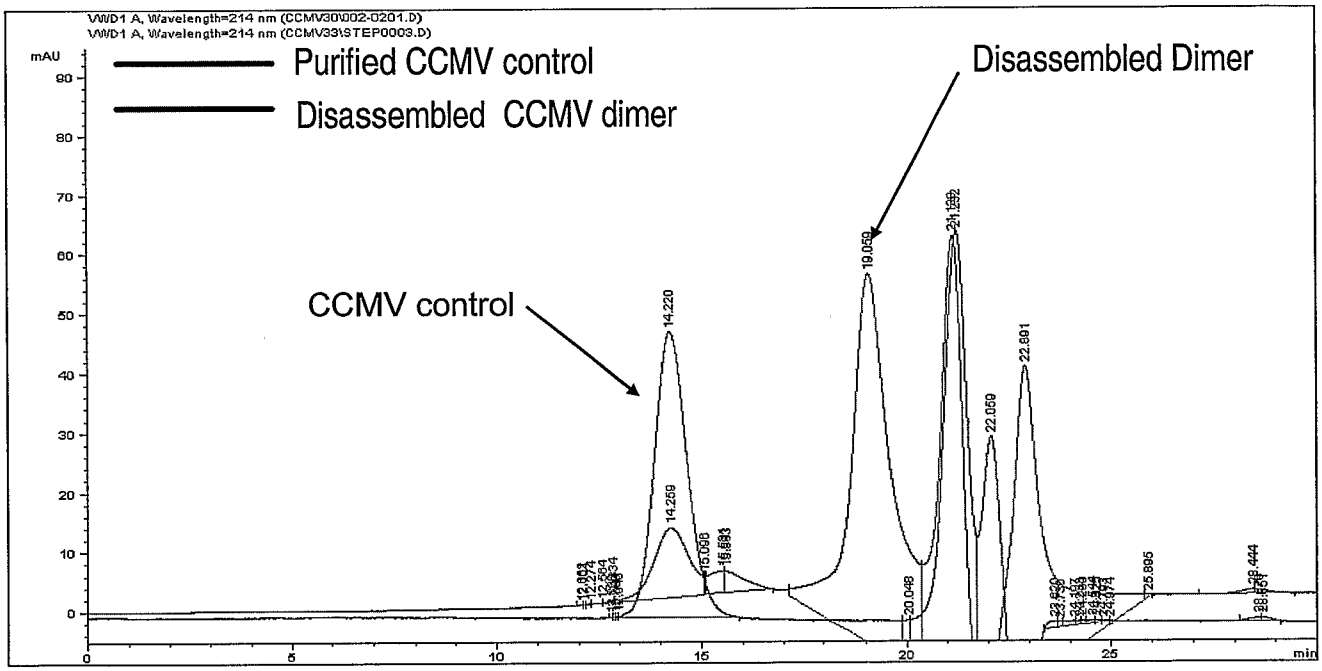

VWD1 A, Wavelength=214 nm (CCMV30\002-0201.D)
VWD1 A, Wavelength=214 nm (CCMV33\STEP0003.D)
mAU
Purified CCMV control
Disassembled CCMV dimer
Disassembled Dimer
CCMV control
14.220
14.259
19.059
22.059
22.891
20.048
25.895
min

Figure 8A

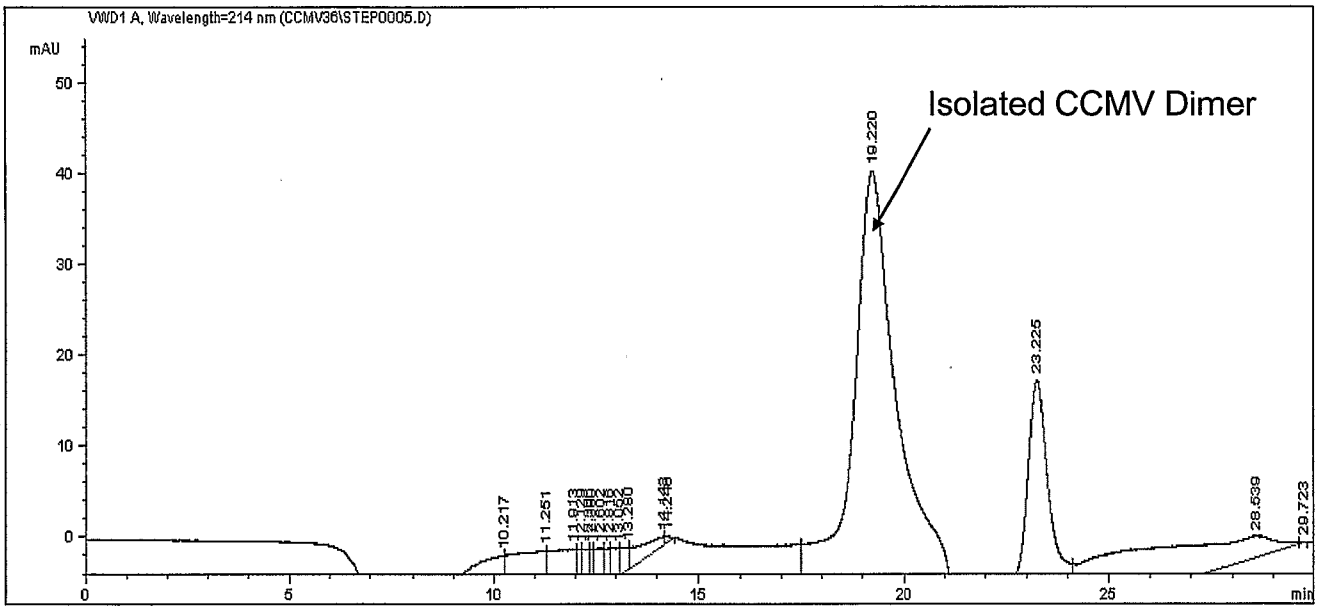

VWD1 A, Wavelength=214 nm (CCMV36\STEP0005.D)
mAU
50
40
30
20
10
0
Isolated CCMV Dimer
19.220
23.225
10.217
11.251
14.448
28.539
29.723
0
5
10
15
20
25
min

Figure 8B

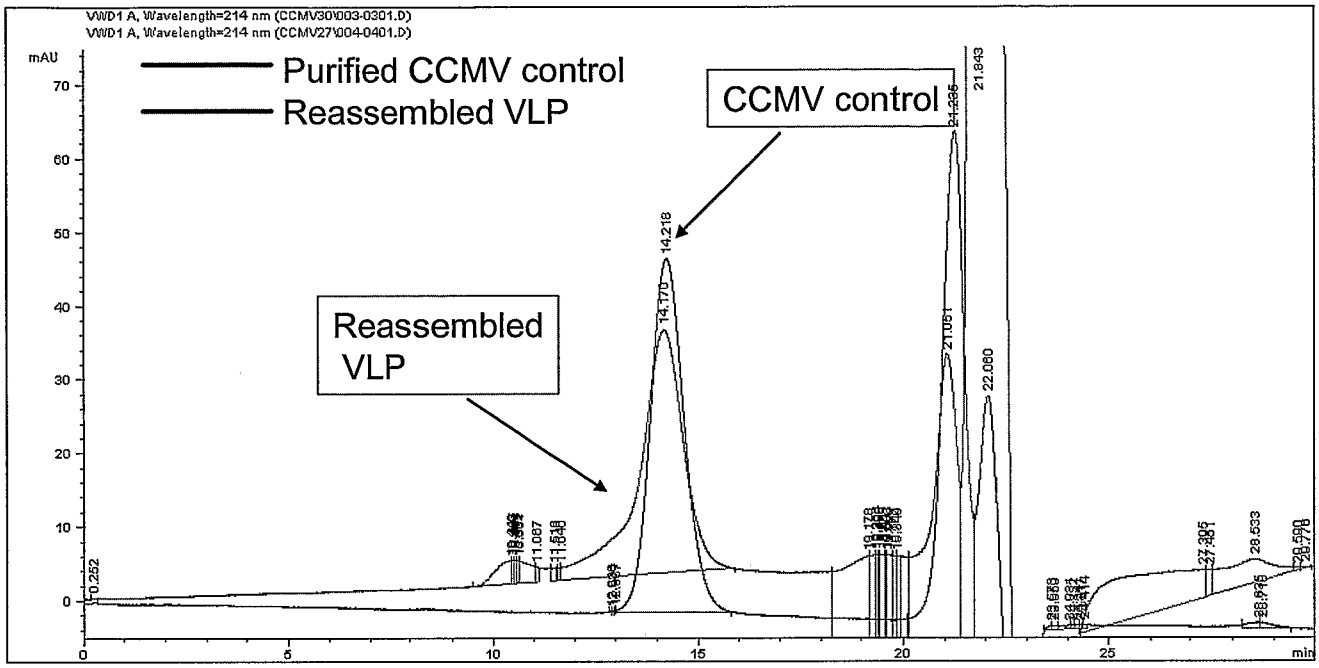

VWD1 A, Wavelength=214 nm (CCMV30\003-0301.D)
VWD1 A, Wavelength=214 nm (CCMV27\004-0401.D)
mAU
Purified CCMV control
Reassembled VLP
CCMV control
Reassembled VLP
14.218
14.170
21.061
21.843
22.060
0.252
11.087
28.533
min

Figure 8C

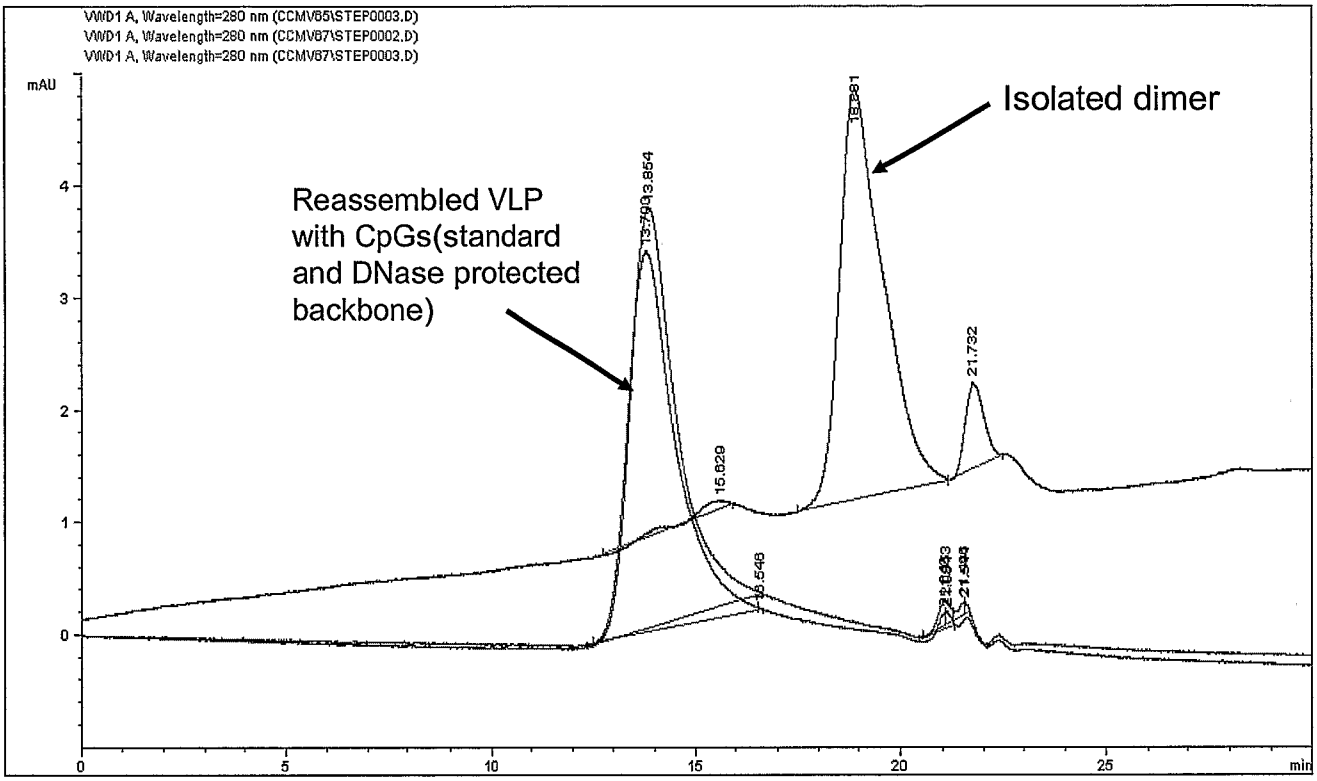
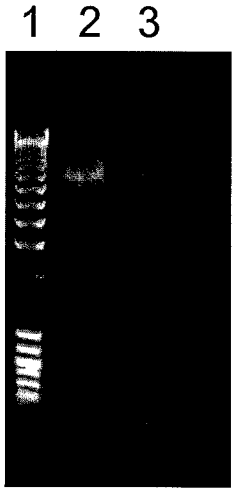
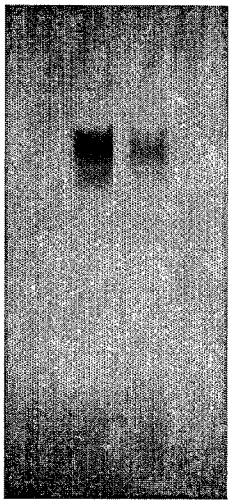

VWD1 A, Wavelength=280 nm (CCMV65\STEP0003.D)
VWD1 A, Wavelength=280 nm (CCMV67\STEP0002.D)
VWD1 A, Wavelength=280 nm (CCMV67\STEP0003.D)
mAU
Isolated dimer
Reassembled VLP with CpGs(standard and DNase protected backbone)
13.854
19.381
21.732
15.629
min

Figure 9



1.2% agarose gel stained with EtBr



1.2% agarose gel stained with protein stain

Figure 10