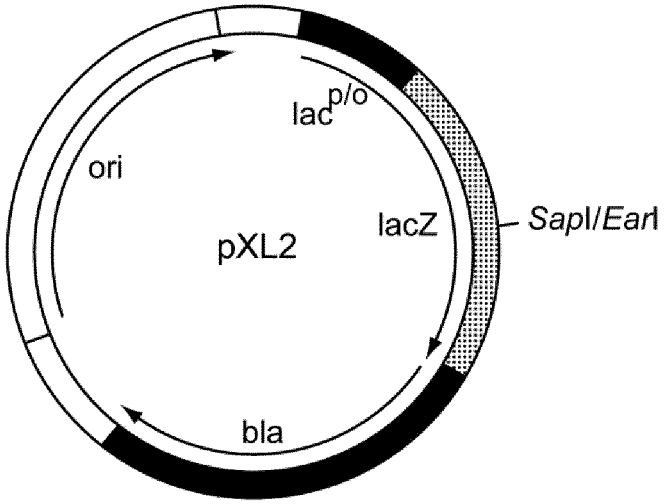
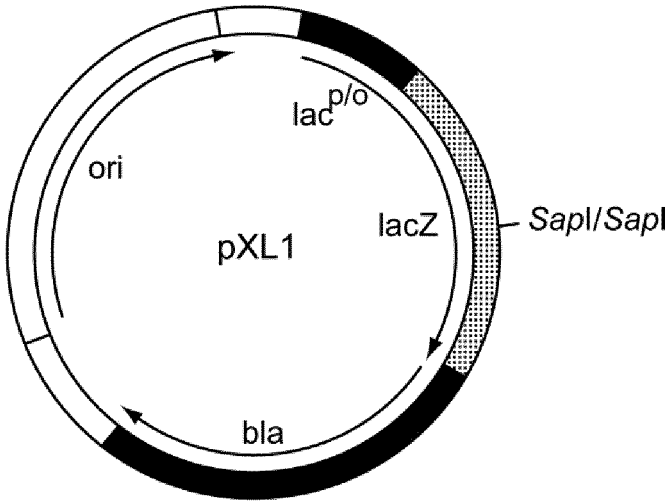
Figure 1

A:



B:



C:

```
                    SapI
5′-TACGCCAAGCTTGGCTCTTCTGCCAGAAGAGTAGAATTCACTGGCC-3′
   ||||||||||||||||||||||||||||||||||||||||||||||
3′-ATGCGGTTCGAACCGAGAAGACGGTCTTCTCATCTTAAGTGACCGG-5′
                          EarI
```

Figure 1 (cont.)

D:

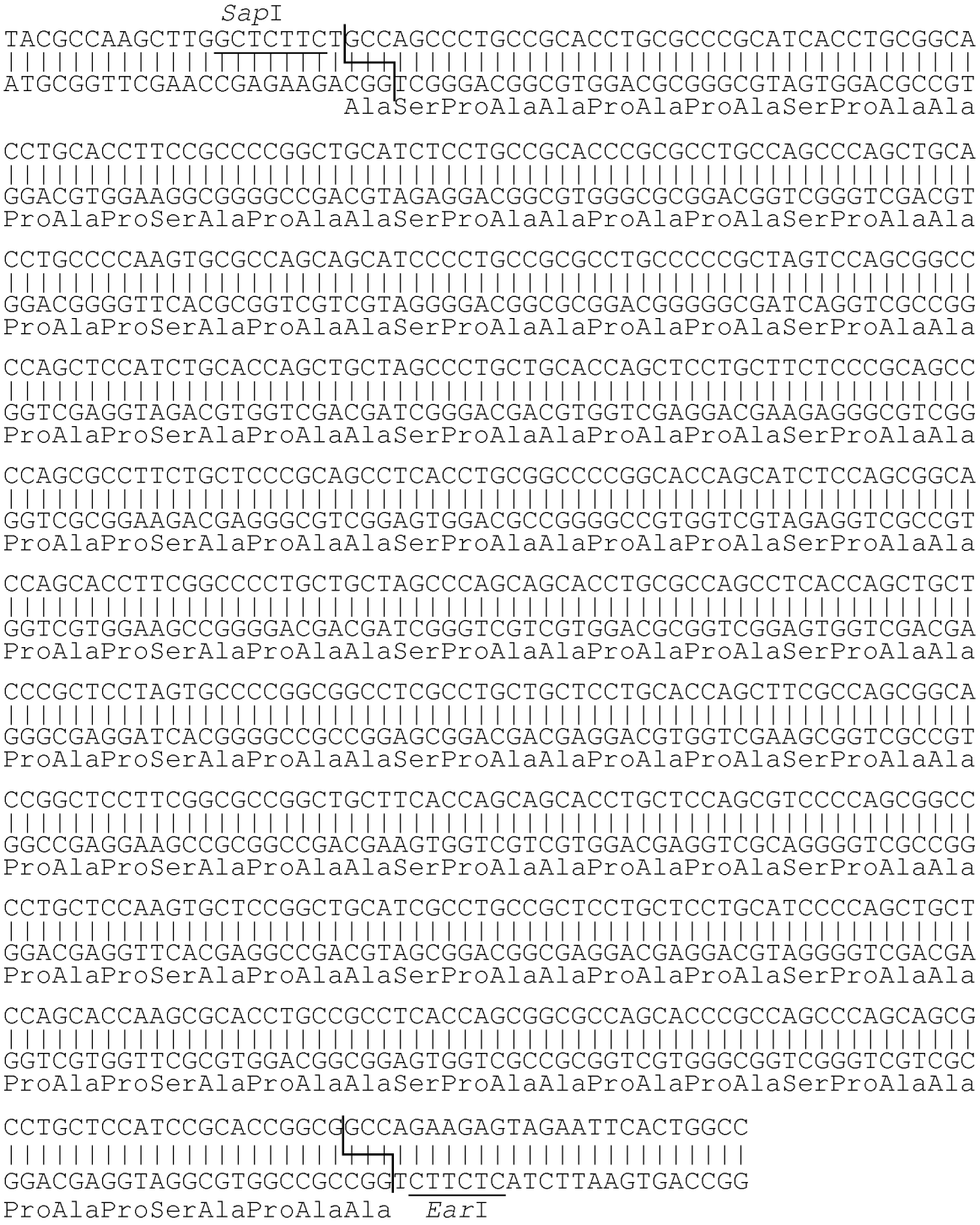


Figure 1 (cont.)

E:

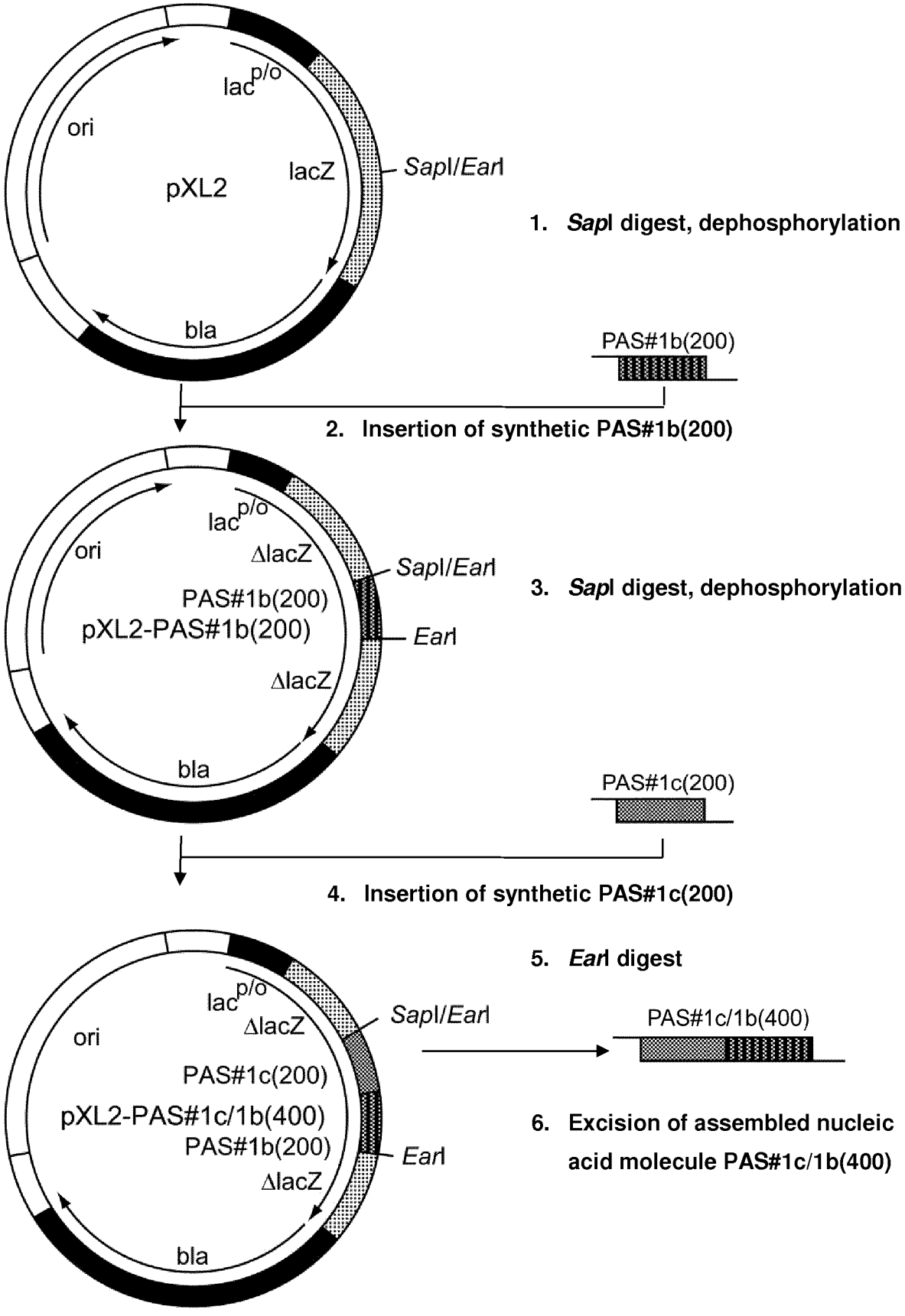
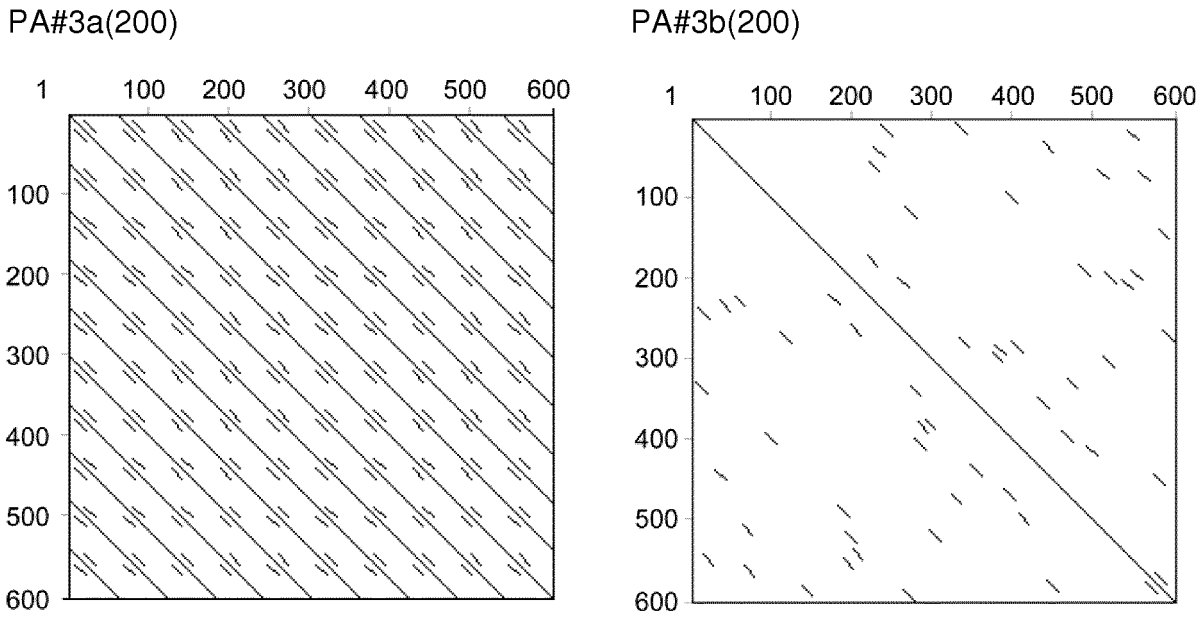


Figure 2

A:

Repeat window 14:



Repeat window 15:

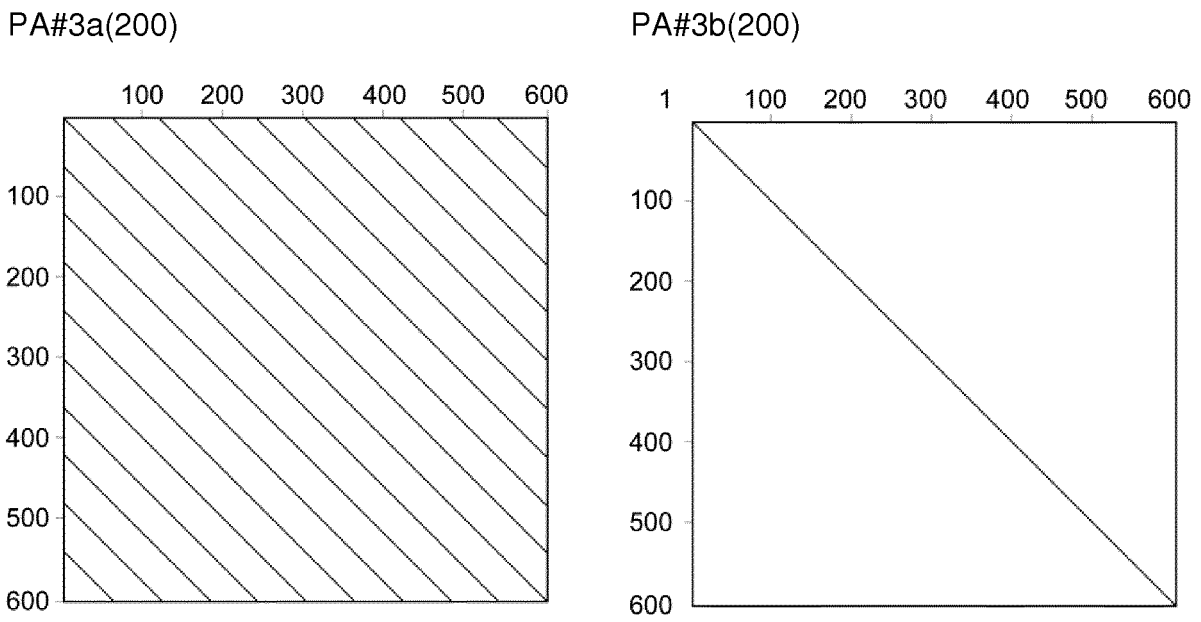
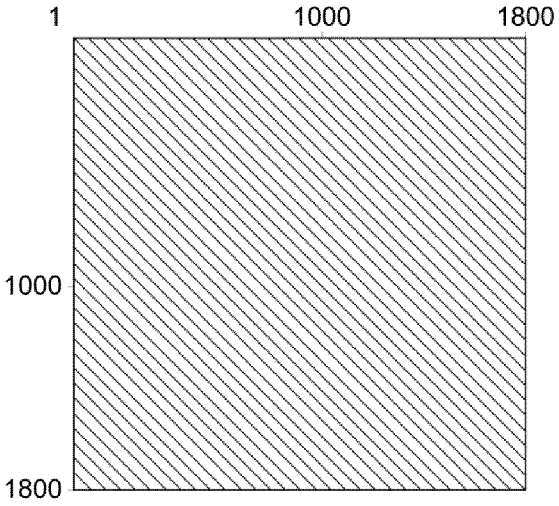


Figure 2 (cont.)

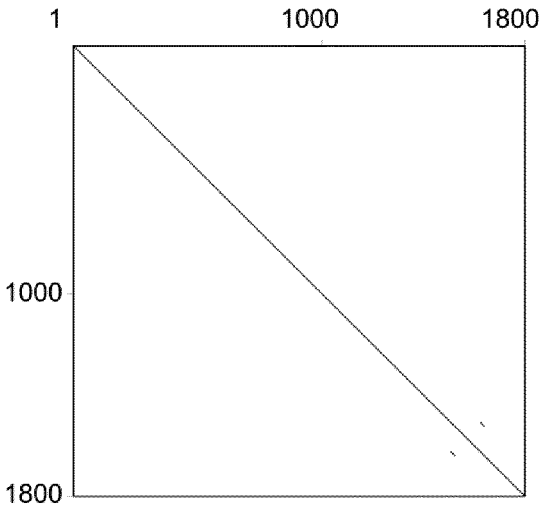
B:

Repeat window 14:

PAS#1a(600)



PAS#1f/1c/1b(600)



PAS#1d/1f/1c/1b(800)

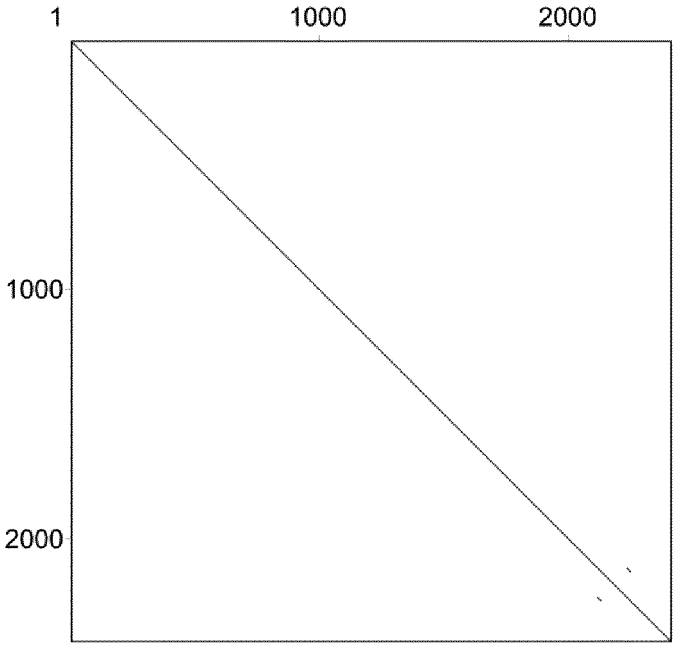
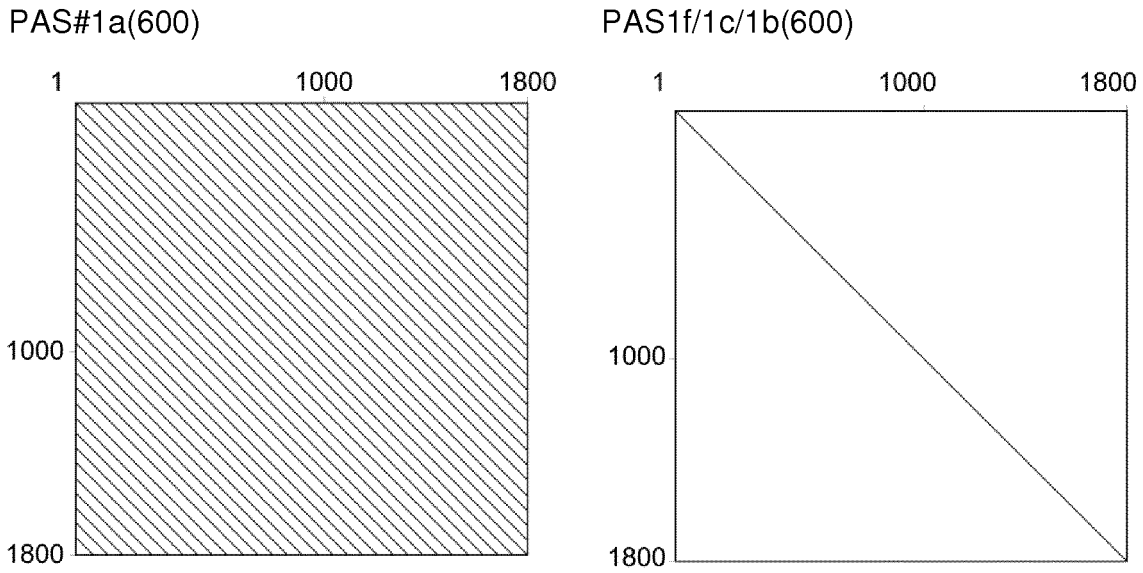


Figure 2 (cont.)

B (cont.):

Repeat window 15:



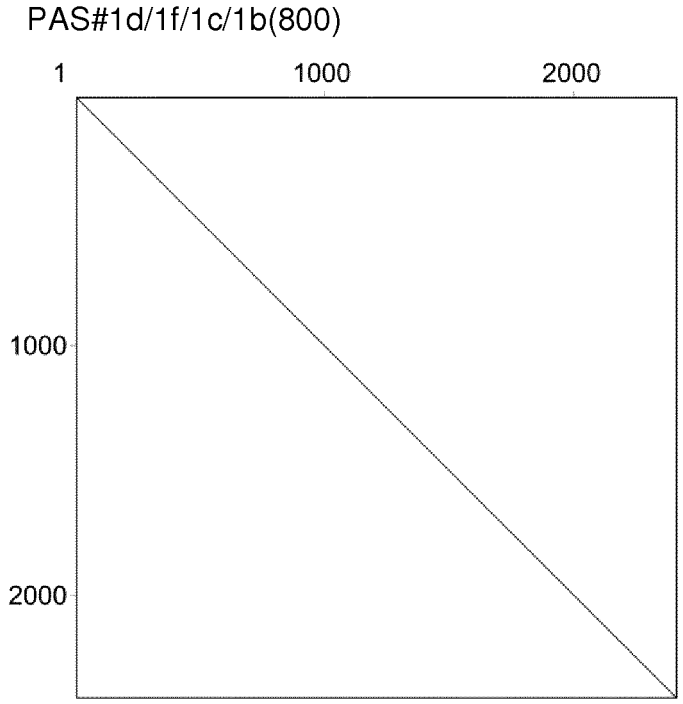
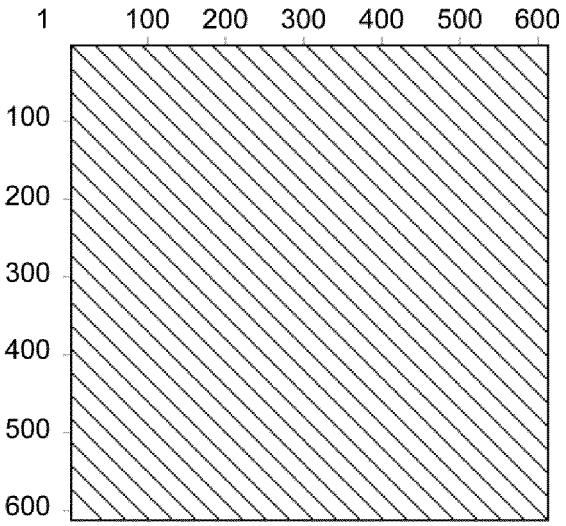


Figure 2 (cont.)

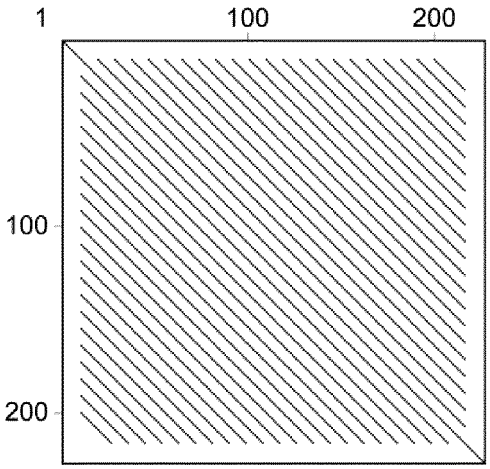
C:

Repeat window 14:

$[(AP)5]_{20}$APA glycomodule



Very large tegument protein



PA#1b(200)

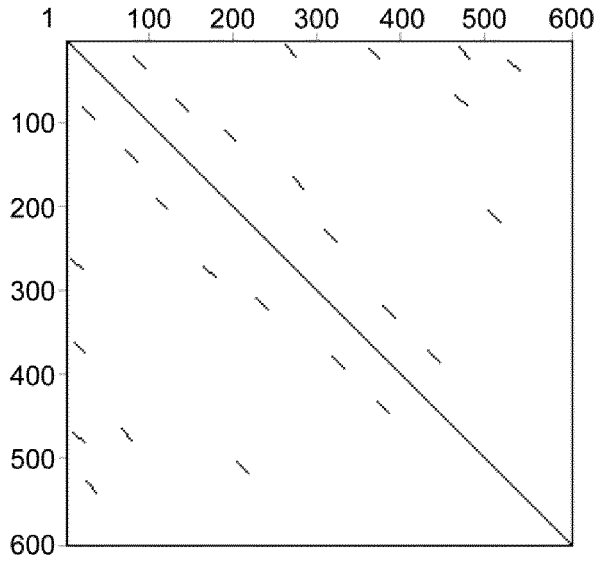
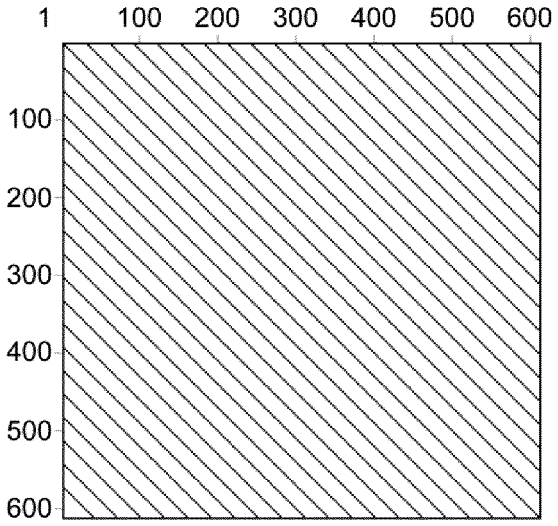


Figure 2 (cont.)

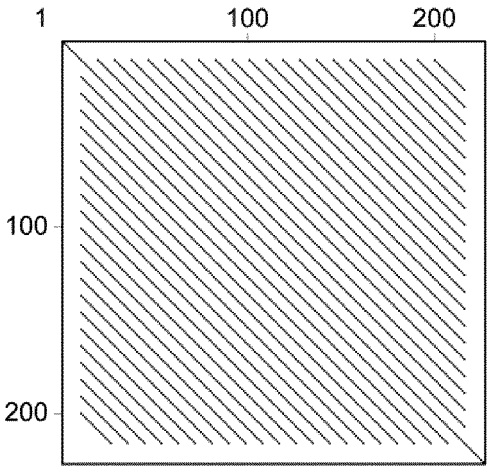
C (cont.):

Repeat window 15:

[(AP)5]$_{20}$APA glycomodule



Very large tegument protein



PA#1b(200)

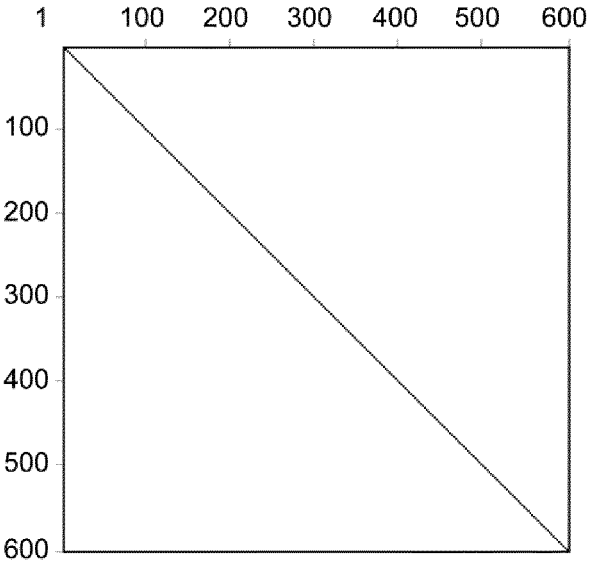


Figure 3

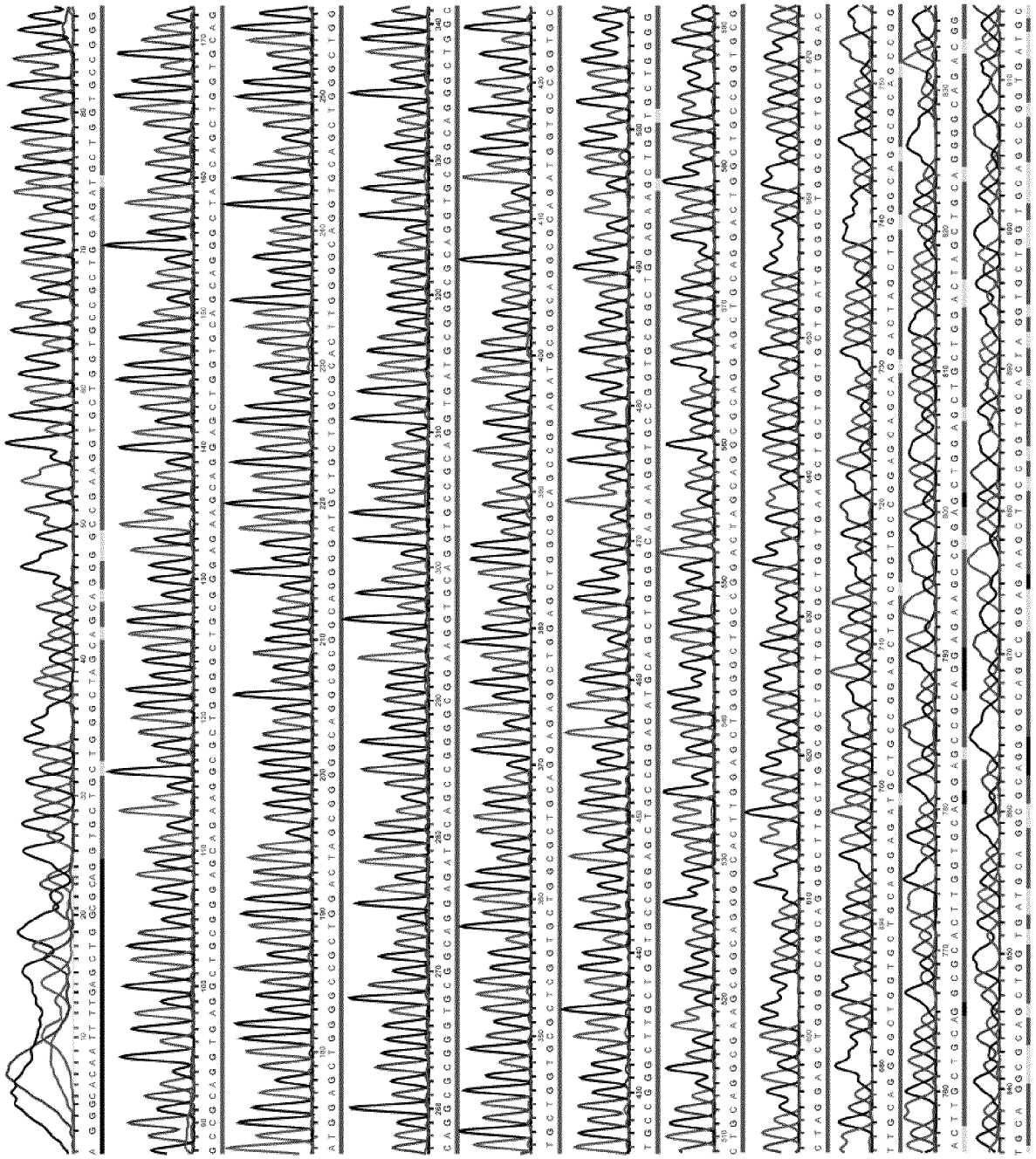
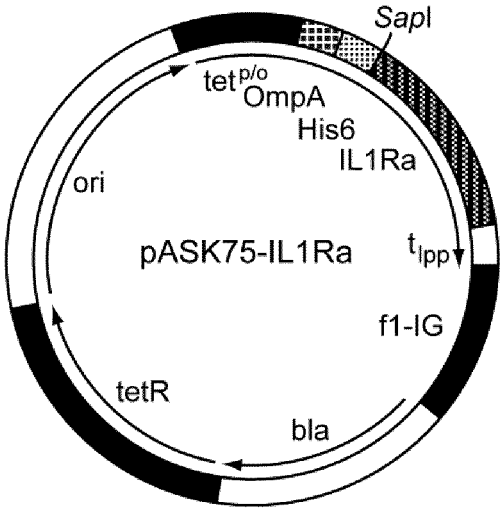


Figure 4

A:


SapI
tet p/o
OmpA
His6
IL1Ra
ori
pASK75-IL1Ra
t lpp
f1-IG
tetR
bla

B:

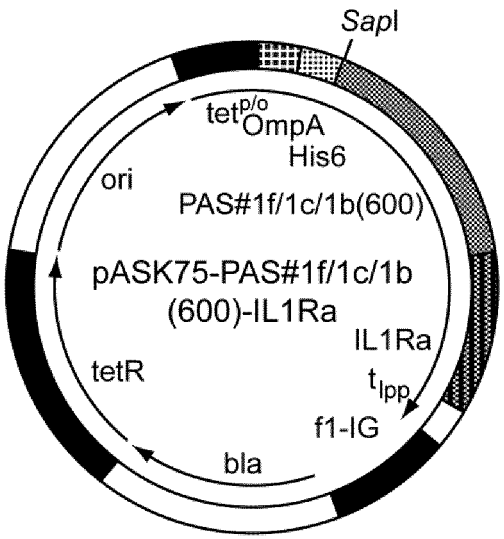

SapI
tet p/o
OmpA
His6
ori
PAS#1f/1c/1b(600)
pASK75-PAS#1f/1c/1b
(600)-IL1Ra
IL1Ra
tetR
t lpp
f1-IG
bla

Figure 5

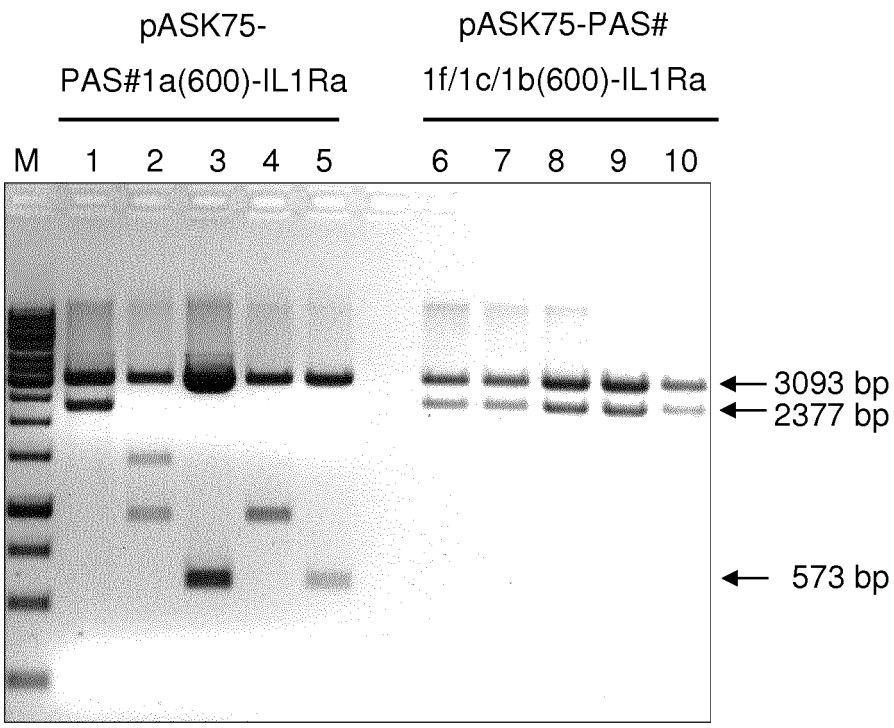
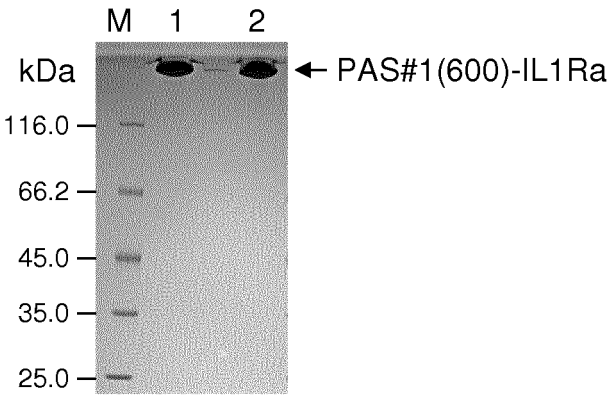

pASK75-
PAS#1a(600)-IL1Ra
pASK75-PAS#
1f/1c/1b(600)-IL1Ra
M 1 2 3 4 5 6 7 8 9 10
3093 bp
2377 bp
573 bp

Figure 6

A:
XbaI +1 SapI HindIII
TCTAGA...ATGAAA--//--GCCGCCAGAAGAGCGCGCTCTTCTGCCCGA--//--GAGTAAGCTT
AGATCT...TACTTT--//--CGGCGGTCTTCTCGCGCGAGAAGACGGGCT--//--CTCATTCGAA
MetLys AlaAla SapI AlaArg GluEnd
OmpA sp IL1Ra
B:
XbaI +1 HindIII
TCTAGA...ATGAAA--//--GCC GCCCGA--//--GAGTAAGCTT
AGATCT...TACTTT--//--CGGCGG GCT--//--CTCATTCGAA
MetLys AlaAla Arg GluEnd
OmpA sp IL1Ra
C:
PA#1b(200) cassette
GCCGCTCCTGCT--//--GCACCAGCC
CGAGGACGA--//--CGTGGTCGGCGG
AlaProAla AlaProAlaAla
XbaI +1 HindIII
TCTAGA...ATGAAA--//--GCC GCCCGA--//--GAGTAAGCTT
AGATCT...TACTTT--//--CGGCGG GCT--//--CTCATTCGAA
MetLys AlaAla Arg GluEnd
OmpA sp IL1Ra
XbaI +1 HindIII
TCTAGA...ATGAAA--//--GCCGCTCCTGCT -//- --GCACCAGCCGCCCGA-//--GAGTAAGCTT
AGATCT...TACTTT--//--CGGCGAGGACGA -//- --GCTGGTCGGCGGGCT //
MetLys AlaAlaProAla AlaProAlaAlaArg GluEnd
OmpA sp PA#1b(200) cassette IL1Ra

Figure 7

A:


M
1
2
kDa
PAS#1(600)-IL1Ra
116.0
66.2
45.0
35.0
25.0

B:

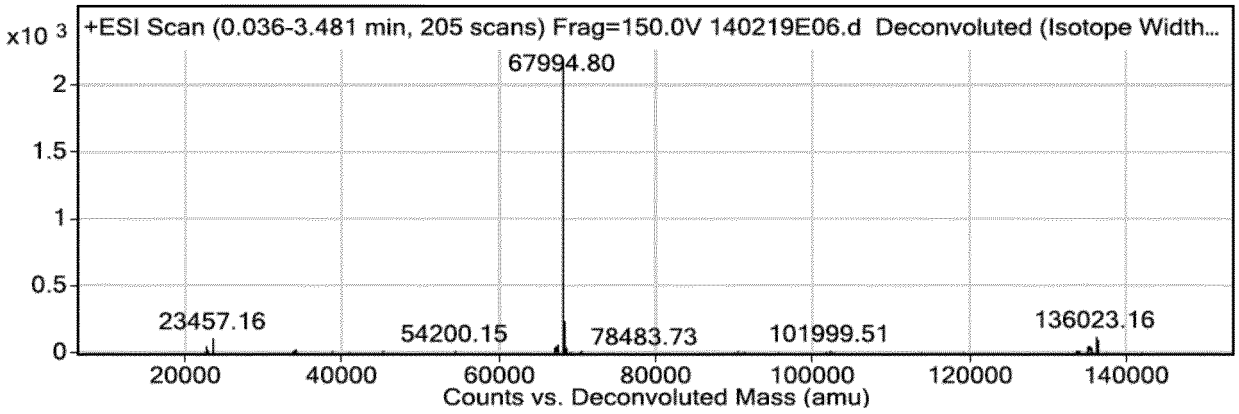
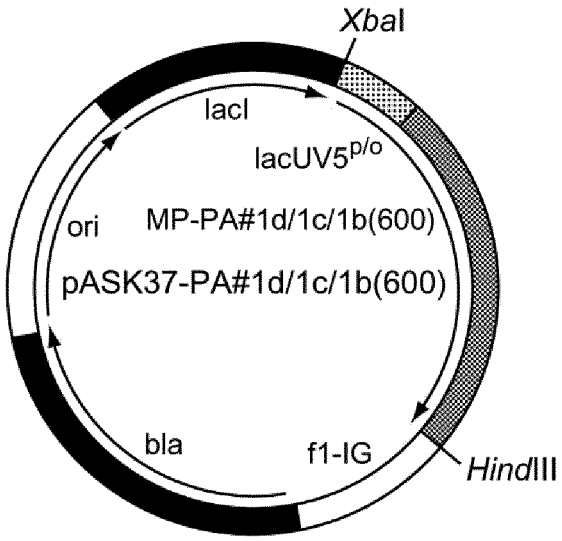
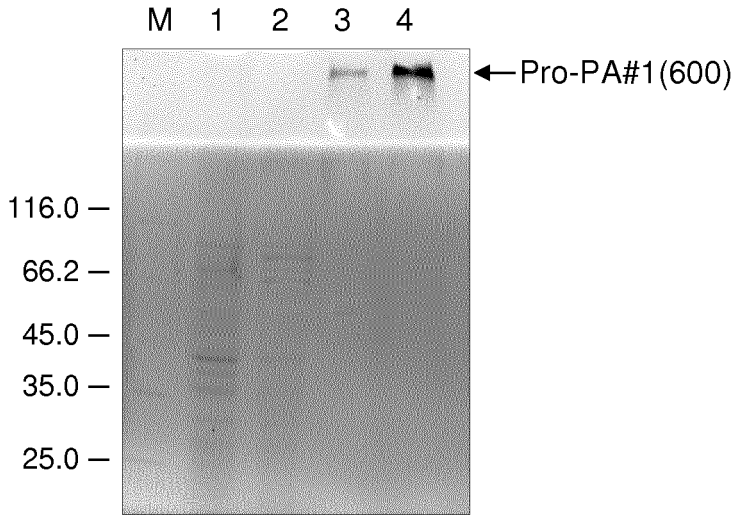

x10 3
+ESI Scan (0.036-3.481 min, 205 scans) Frag=150.0V 140219E06.d Deconvoluted (Isotope Width...
67994.80
2
1.5
1
0.5
0
23457.16
54200.15
78483.73
101999.51
136023.16
20000
40000
60000
80000
100000
120000
140000
Counts vs. Deconvoluted Mass (amu)

Figure 8

A:


XbaI
lacI
lacUV5p/o
ori
MP-PA#1d/1c/1b(600)
pASK37-PA#1d/1c/1b(600)
bla
f1-IG
HindIII

B:


M 1 2 3 4
Pro-PA#1(600)
116.0
66.2
45.0
35.0
25.0

C:

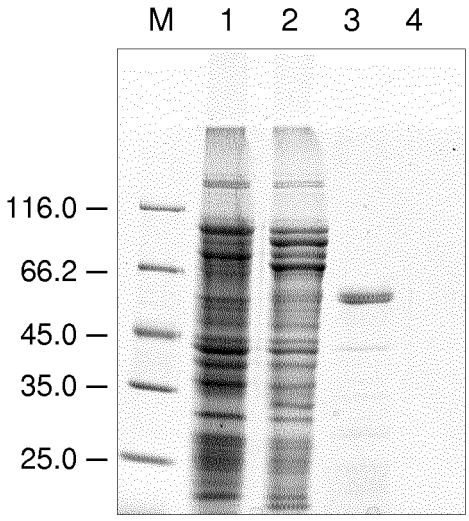

M 1 2 3 4
116.0
66.2
45.0
35.0
25.0

Figure 8 (cont.)

D:

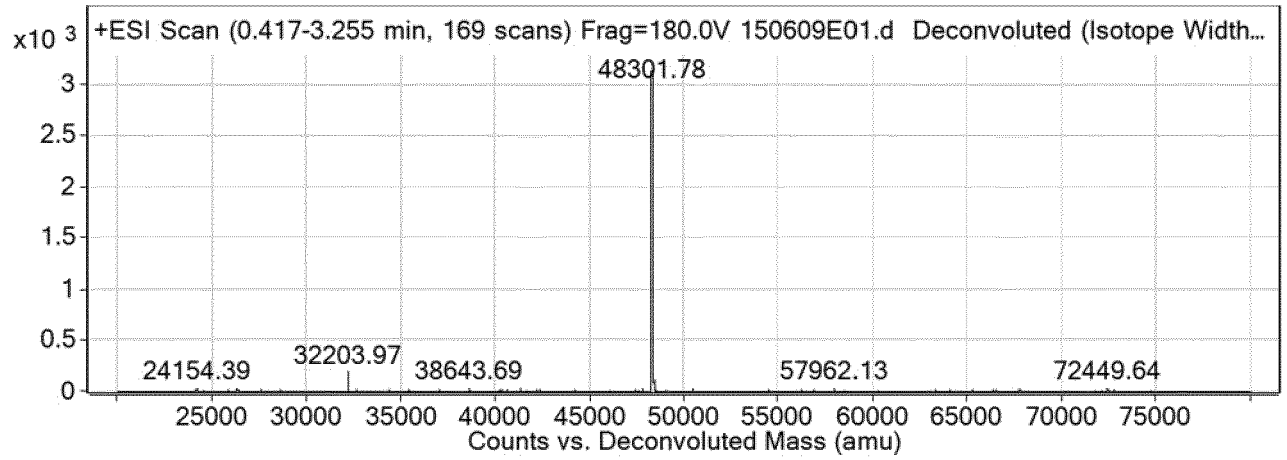
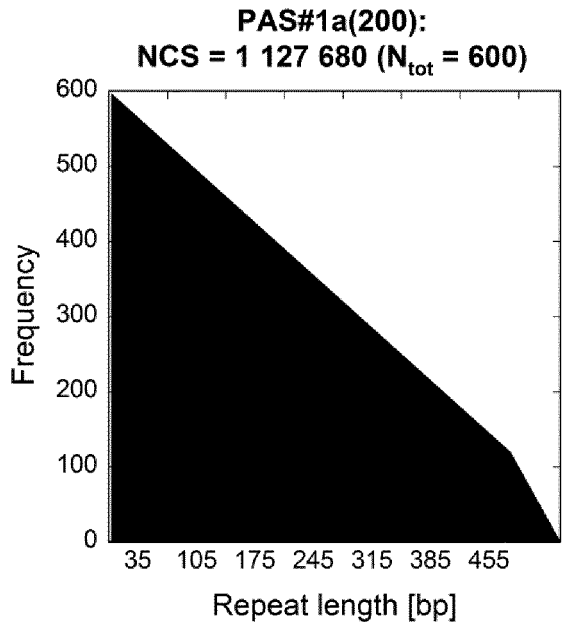
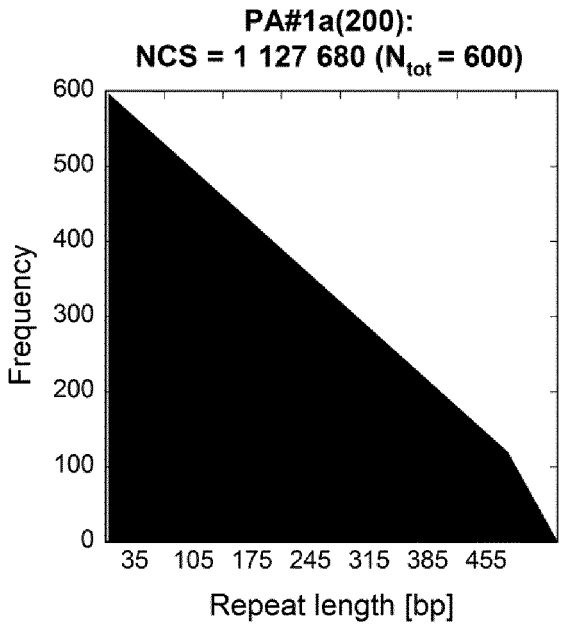


Figure 9

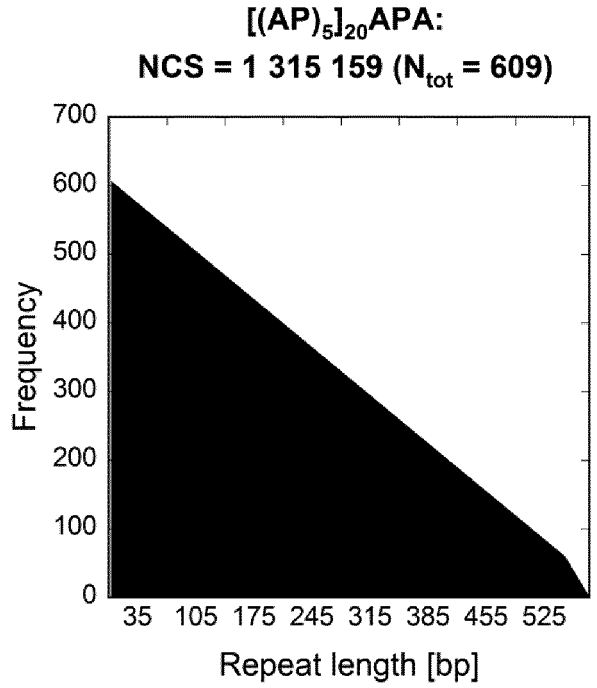
A:



B:



C:



D:

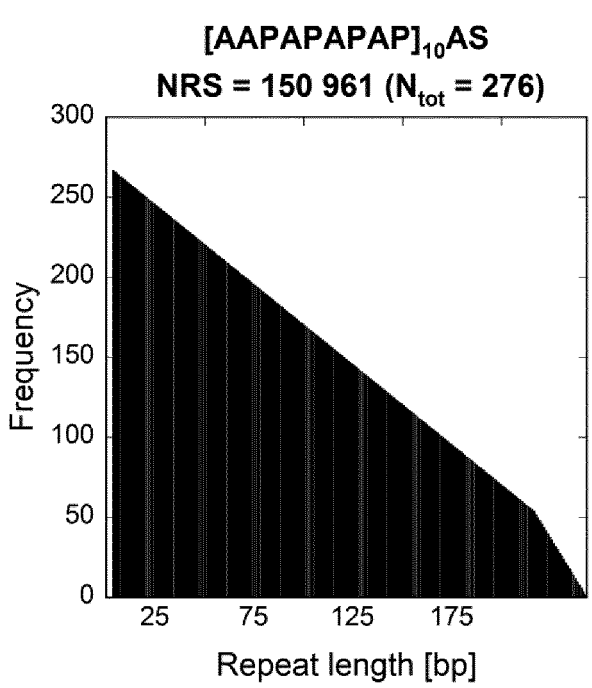
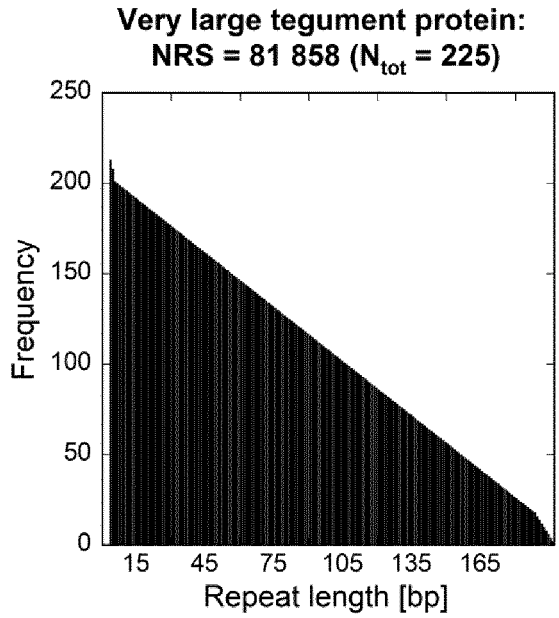
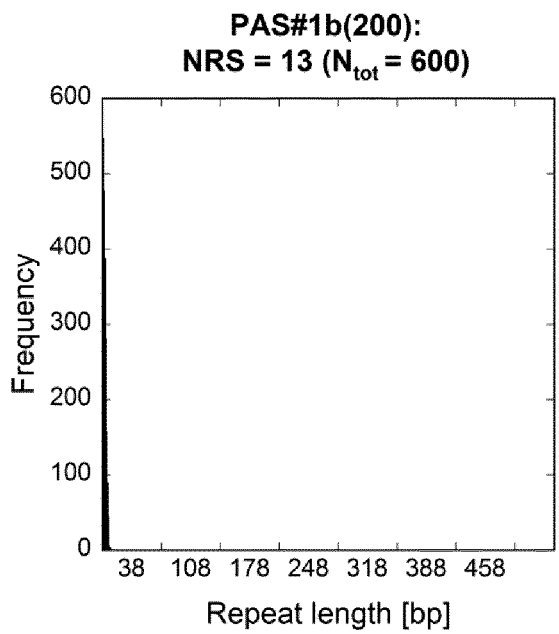


Figure 9 (cont.)

E:



F:



G:

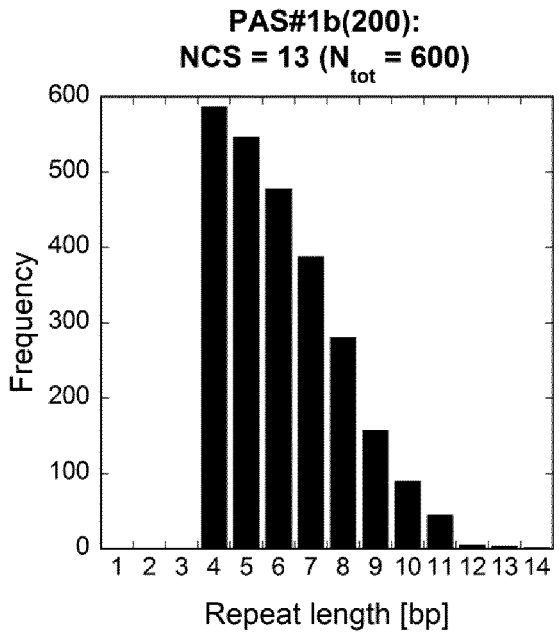
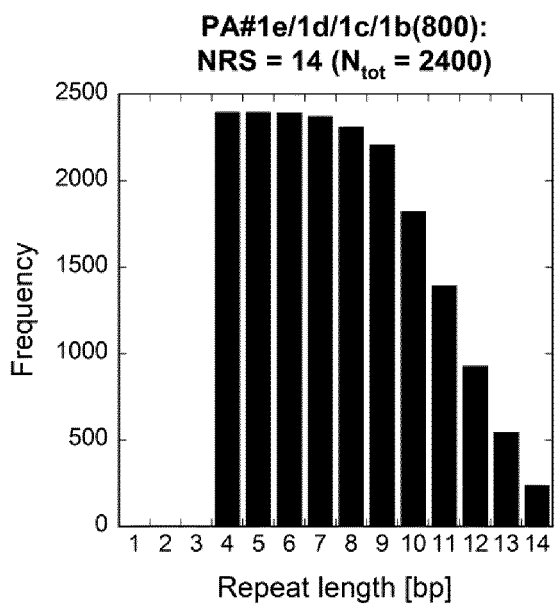


Figure 9 (cont.)

H:



I:

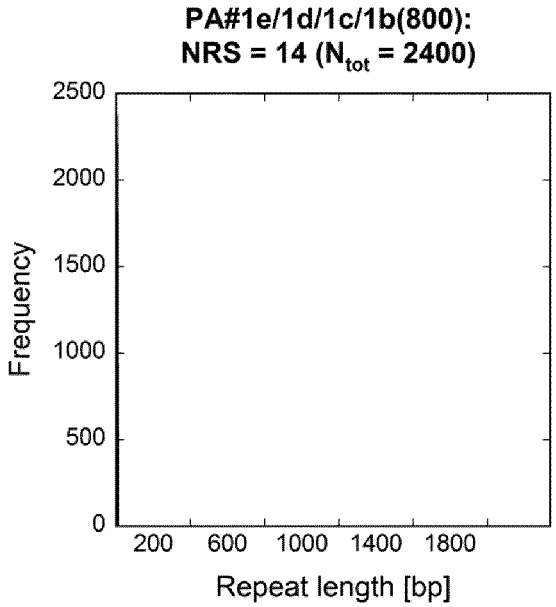


Figure 10

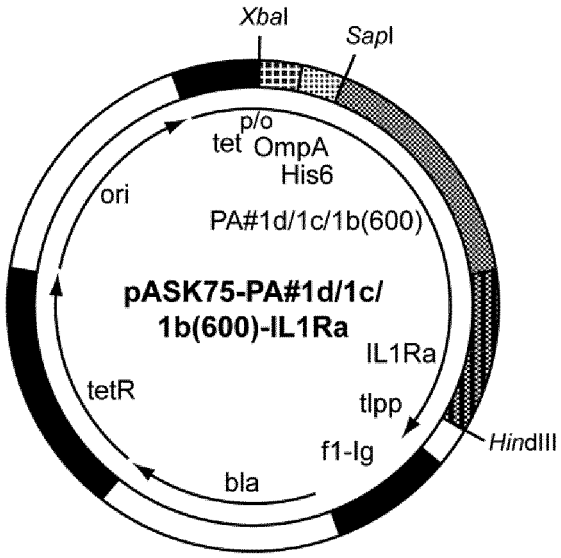
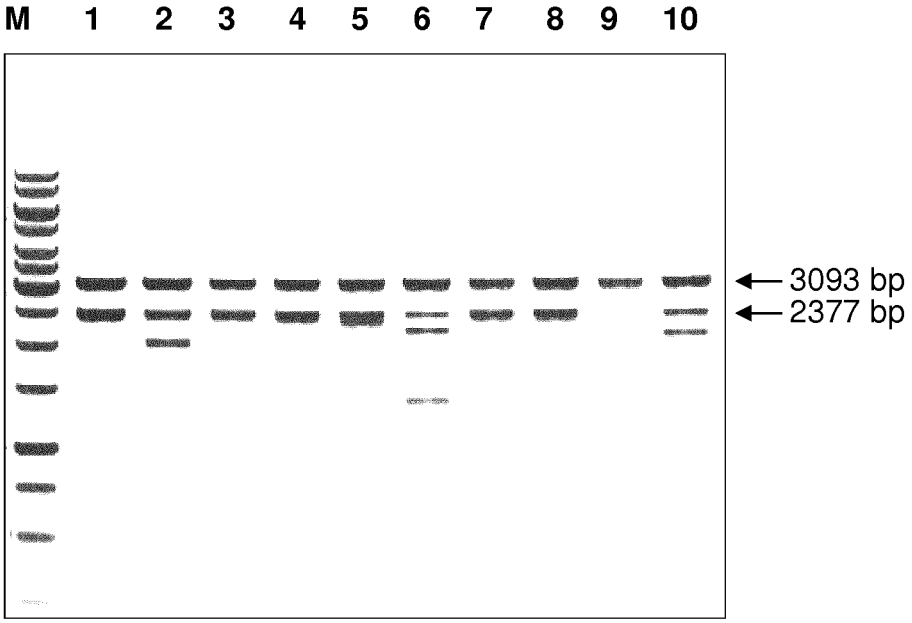

XbaI
SapI
p/o
tet
OmpA
His6
ori
PA#1d/1c/1b(600)
pASK75-PA#1d/1c/
1b(600)-IL1Ra
IL1Ra
tetR
tlpp
f1-Ig
HindIII
bla

Figure 11

A:

pASK75-PA#1a(600)-IL1Ra



B:

pASK75-PA#1d/1c/1b(600)-IL1Ra

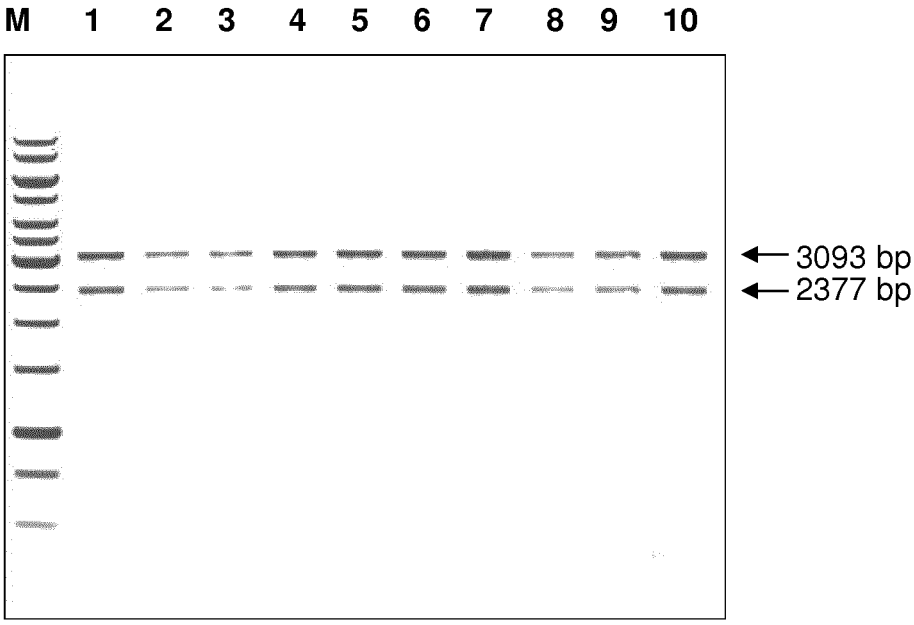
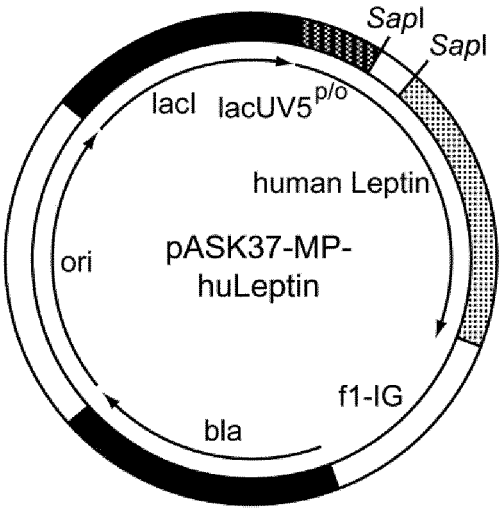
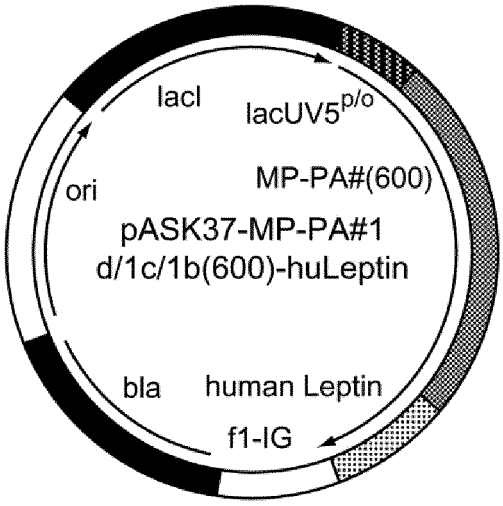


Figure 12

A:



B:



C:

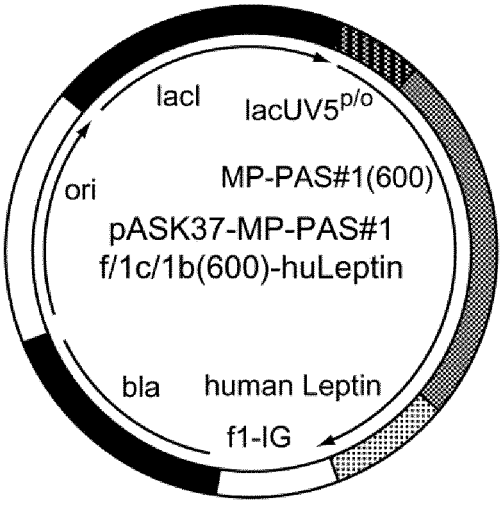
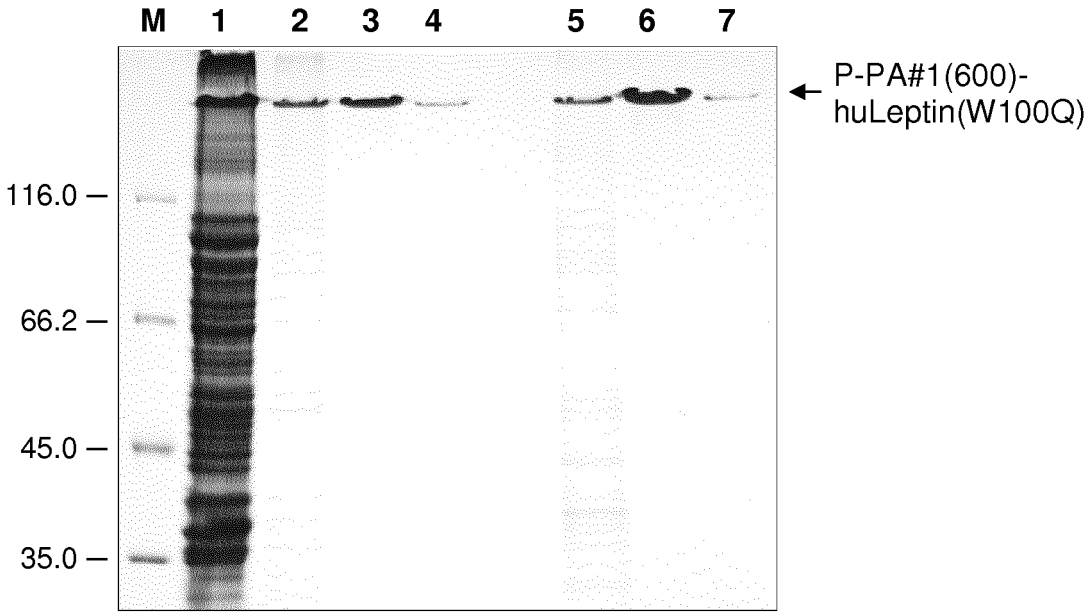
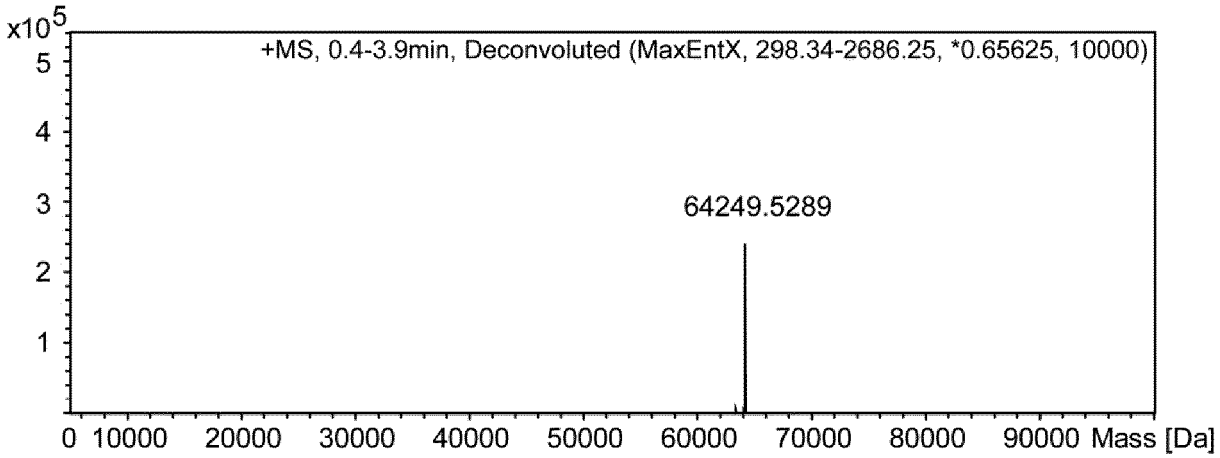


Figure 13

A:


M
1
2
3
4
5
6
7
116.0
66.2
45.0
35.0
P-PA#1(600)-
huLeptin(W100Q)

B:


x10^5
5
4
3
2
1
+MS, 0.4-3.9min, Deconvoluted (MaxEntX, 298.34-2686.25, *0.65625, 10000)
64249.5289
0
10000
20000
30000
40000
50000
60000
70000
80000
90000
Mass [Da]