Figure 1

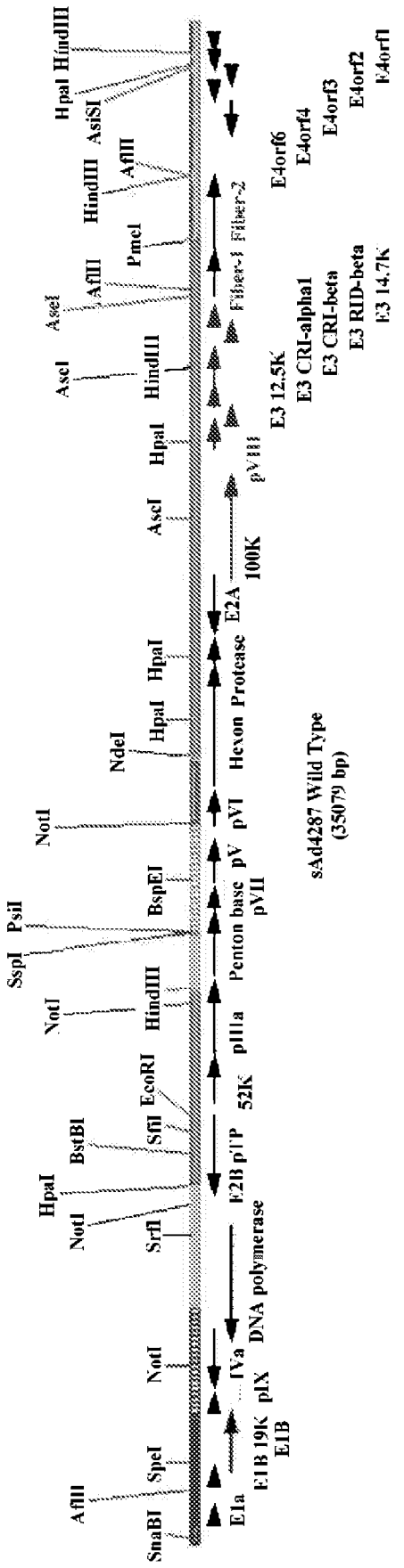

sAd4287 Wild Type
(35079 bp)
E1a
E1B 19K
E1B
pIX
IVa
DNA polymerase
E2B pTP
52K
pIIIa
Penton base
pV
pVII
pVI
Hexon
Protease
E2A
100K
pVIII
E3 12.5K
E3 CRI-alpha1
E3 CRI-beta
E3 RID-beta
E3 14.7K
Fiber-1
Fiber-2
E4orf6
E4orf4
E4orf3
E4orf2
E4orf1
SnaBI
AflII
SpeI
NotI
SrfI
HpaI
NotI
BstBI
SfiI
EcoRI
NotI
HindIII
SspI
PsiI
BspEI
NdeI
HpaI
HpaI
AscI
HpaI
HindIII
AscI
AseI
AflII
PmeI
HindIII
AflII
AsiSI
HpaI
HindIII

Figure 2

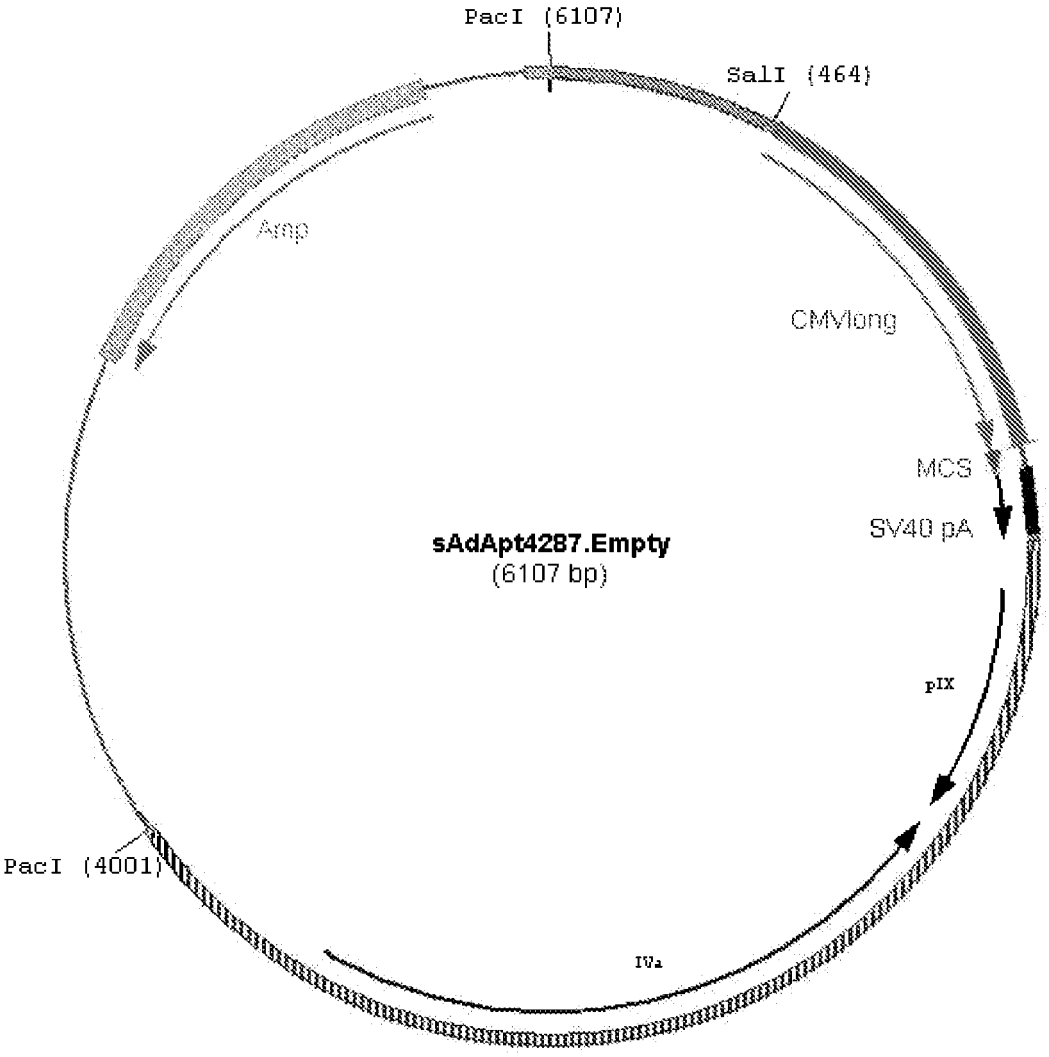

PacI (6107)
SalI (464)
Amp
CMVlong
MCS
SV40 pA
sAdApt4287.Empty
(6107 bp)
pIX
PacI (4001)
IVa

Figure 3

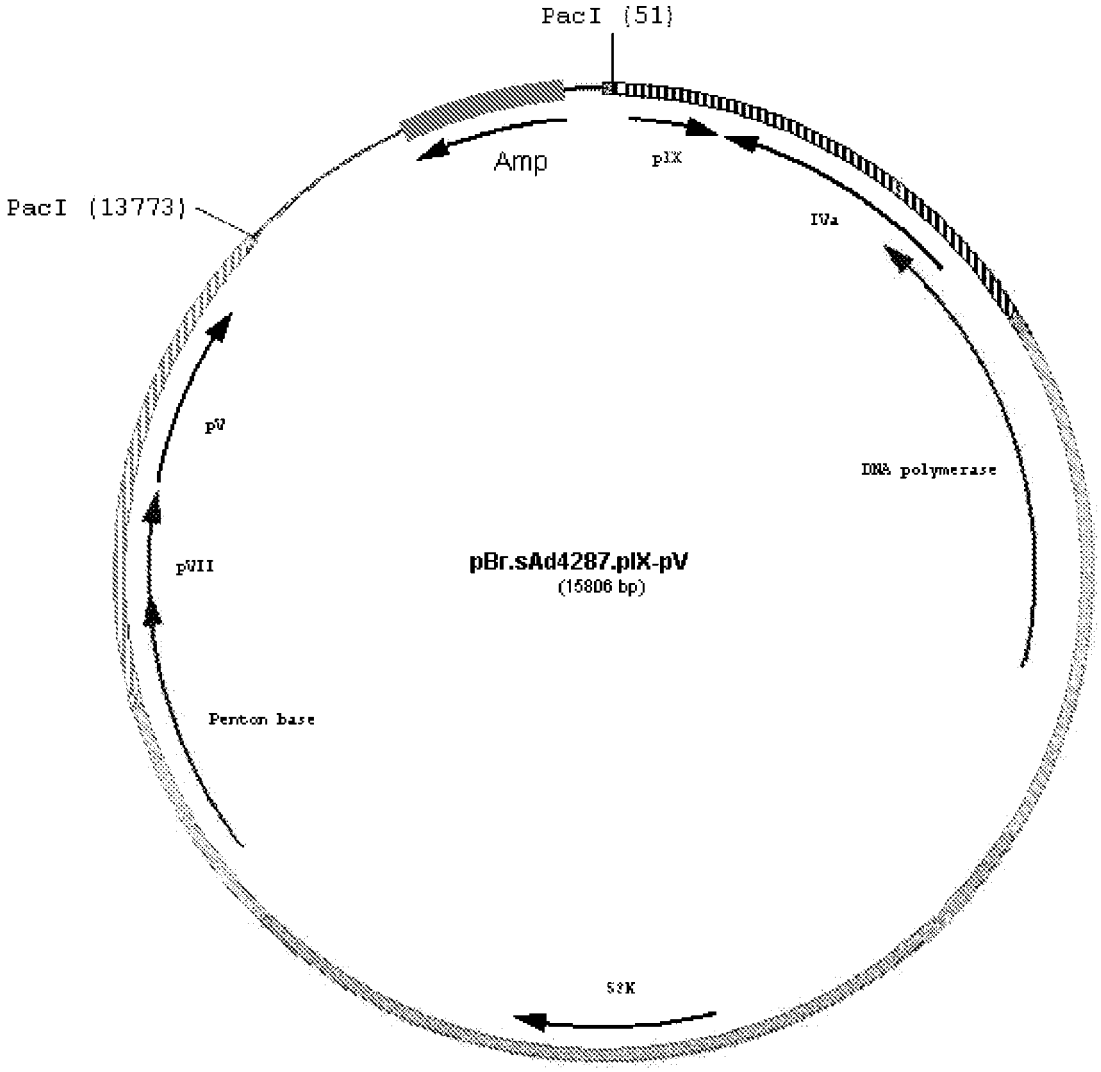

PacI (51)
PacI (13773)
Amp
pIX
IVa
DNA polymerase
pV
pVII
Penton base
52K
pBr.sAd4287.pIX-pV
(15806 bp)

Figure 4

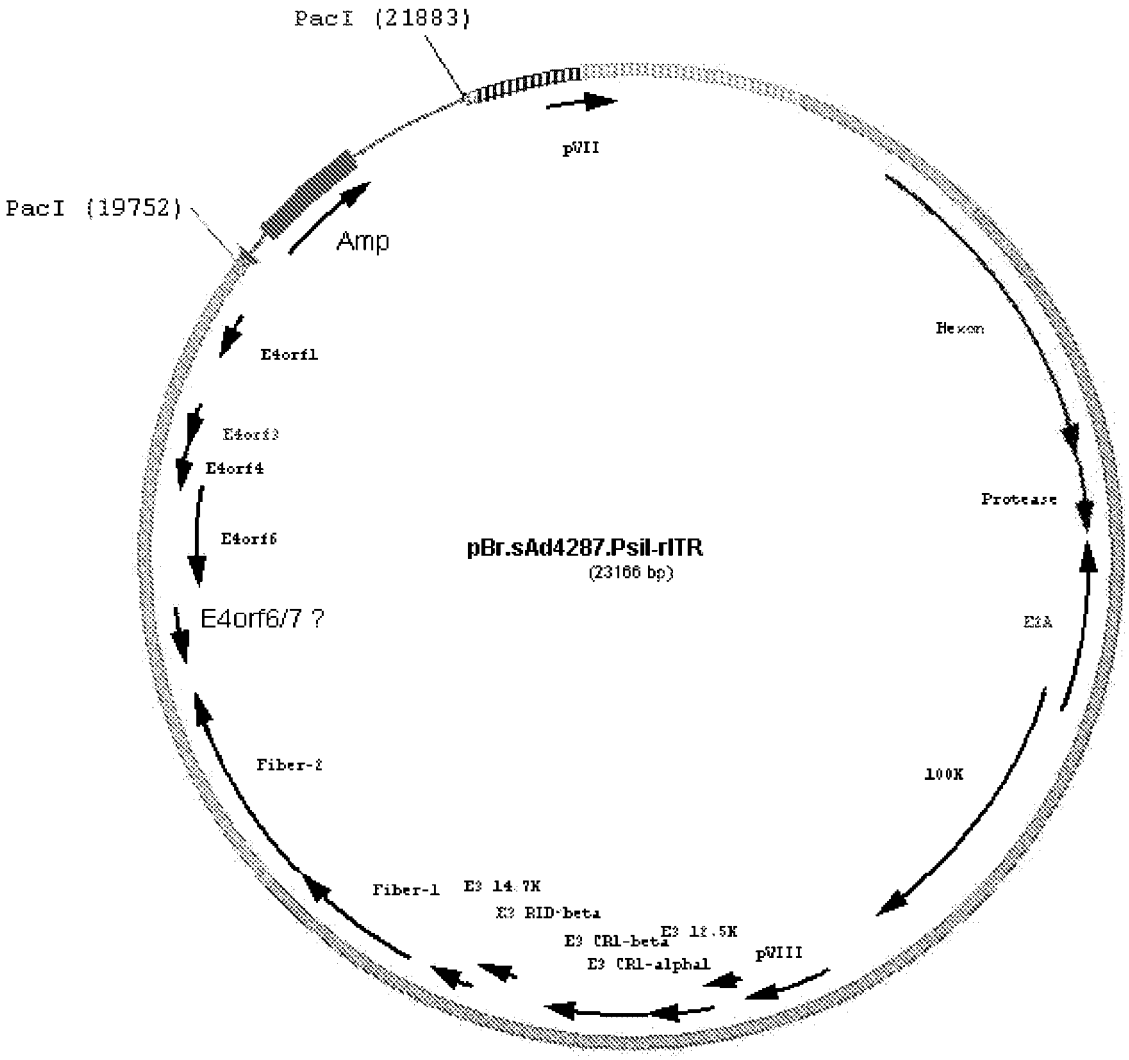

PacI (21883)
PacI (19752)
Amp
pVII
Hexon
Protease
E2A
100K
pVIII
E3 14.5K
E3 CR1-alpha1
E3 CR1-beta
X2 RID-beta
E3 14.7K
Fiber-1
Fiber-2
E4orf6/7 ?
E4orf6
E4orf4
E4orf3
E4orf1
pBr.sAd4287.PsiI-rITR
(23166 bp)

Figure 5

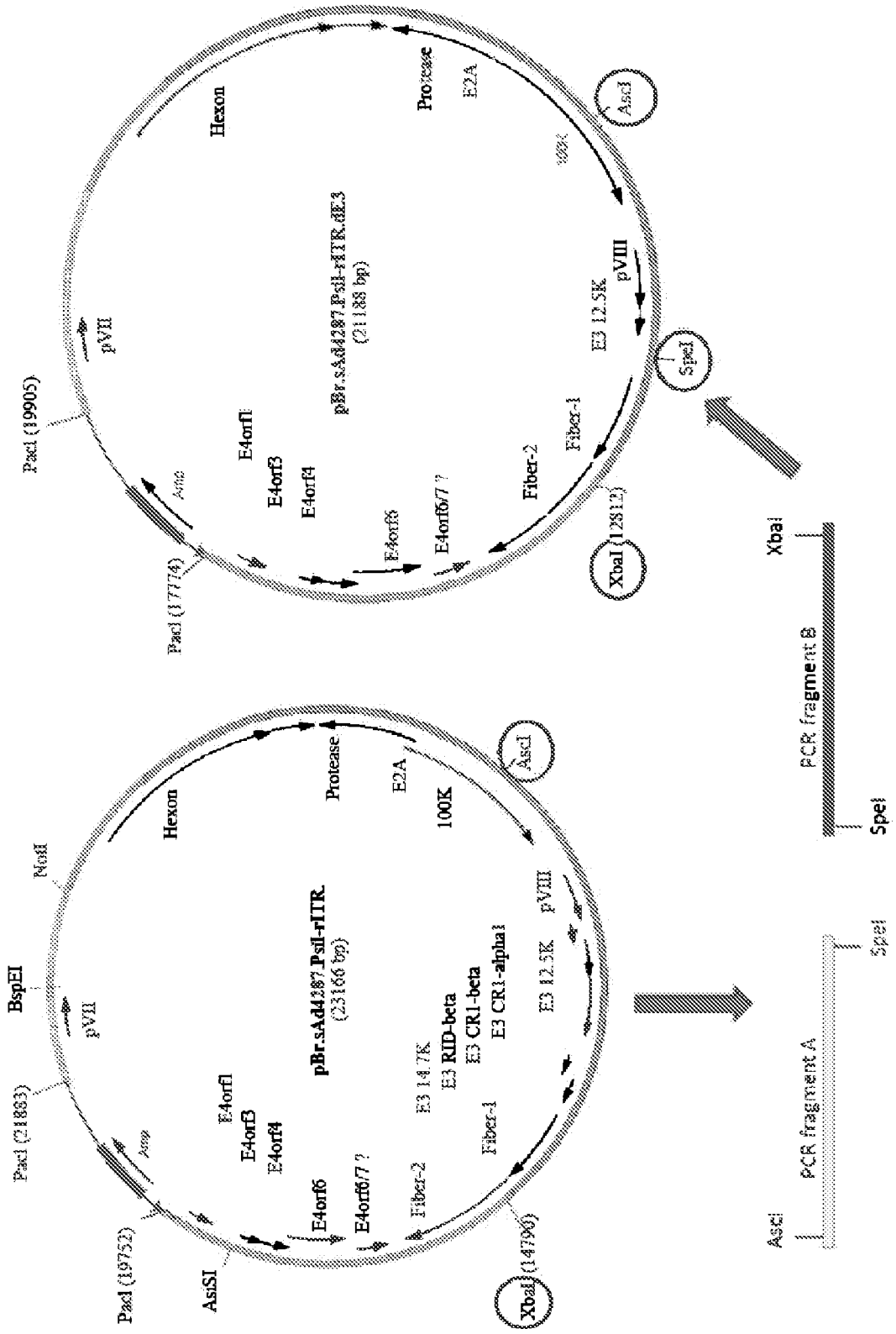

pBr.sAd41287.Psil-rITR.dE3
(21183 bp)
Hexon
Protease
E2A
100K
pVII
pVIII
E3 12.5K
Fiber-1
Fiber-2
E4orf6
E4orf6/7 ?
E4orf4
E4orf3
E4orf1
Amp
PacI (19905)
PacI (17774)
XbaI (12812)
AscI
SpeI
pBr.sAd41287.Psil-rITR.
(23166 bp)
MunI
BspEI
PacI (21863)
PacI (19752)
AsiSI
XbaI (14790)
E3 14.7K
E3 RID-beta
E3 CR1-beta
E3 CR1-alpha
PCR fragment A
PCR fragment B

Figure 6

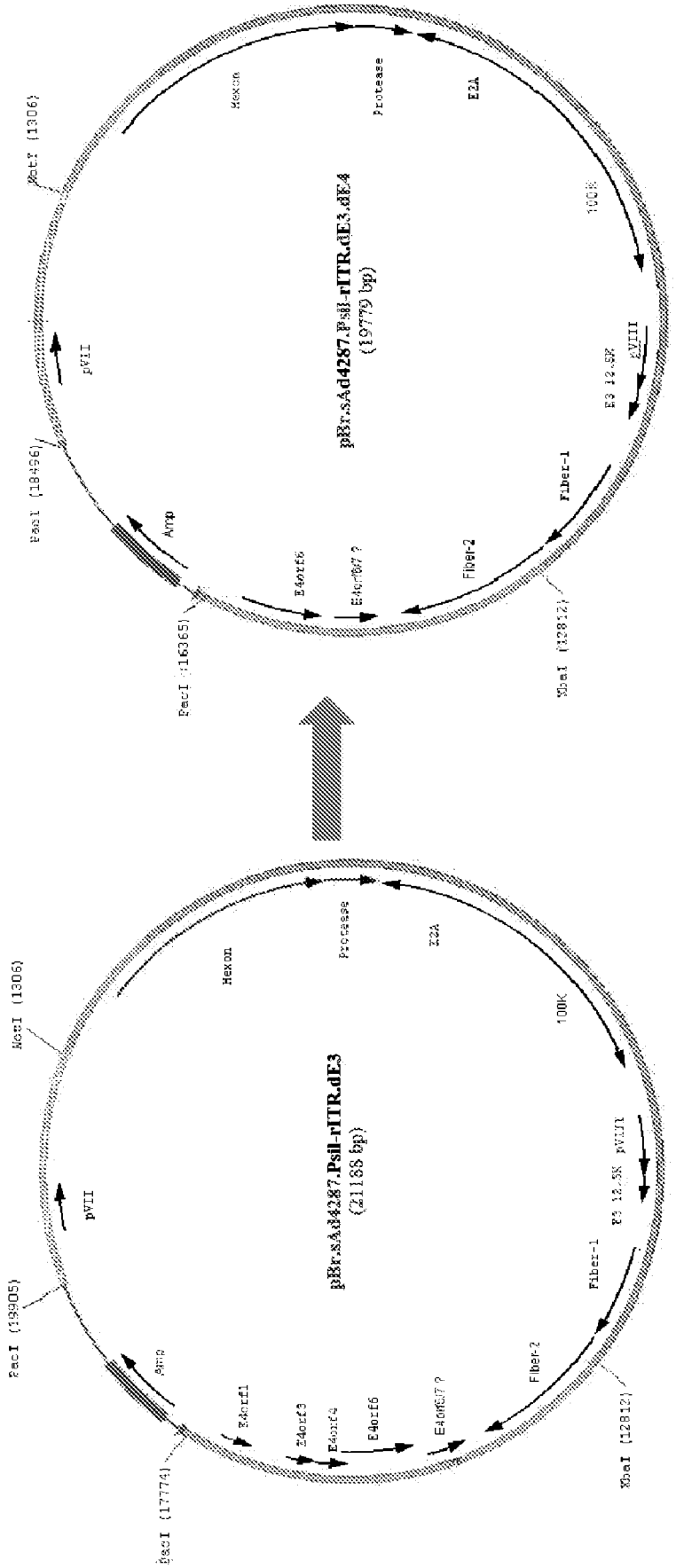

pBr.sAd4287.Psil-rITR.dE3
(21188 bp)
pBr.sAd4287.Psil-rITR.dE3.dE4
(19779 bp)
Hexon
Protease
E2A
100K
pVII
Fiber-1
Fiber-2
Amp
E4orf6
E4orf6/7 ?
E4orf4
E4orf3
E4orf1
MscI (1306)
EagI (19305)
EagI (17774)
XbaI (12812)
EagI (18496)
EagI (16365)

Figure 7

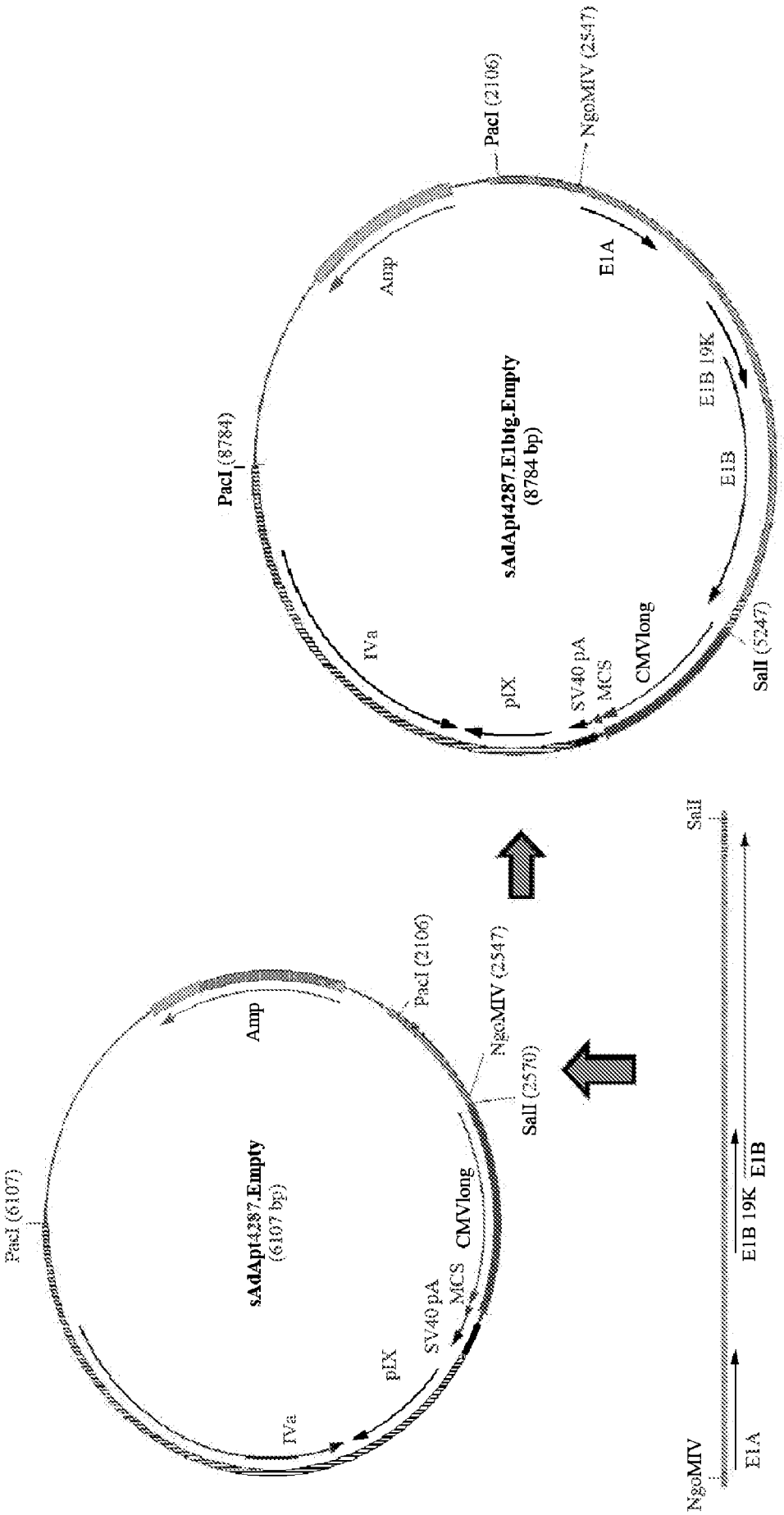

PacI (8784)
PacI (2106)
NgoMIV (2547)
Amp
E1A
E1B 19K
E1B
sAdApt4287.E1bIg.Empty
(8784 bp)
pIX
SV40 pA
MCS
CMVlong
SalI (5247)
PacI (6107)
PacI (2106)
NgoMIV (2547)
SalI (3570)
sAdApt4287.Empty
(6107 bp)
SalI
NgoMIV
E1A
E1B 19K
E1B

Figure 8

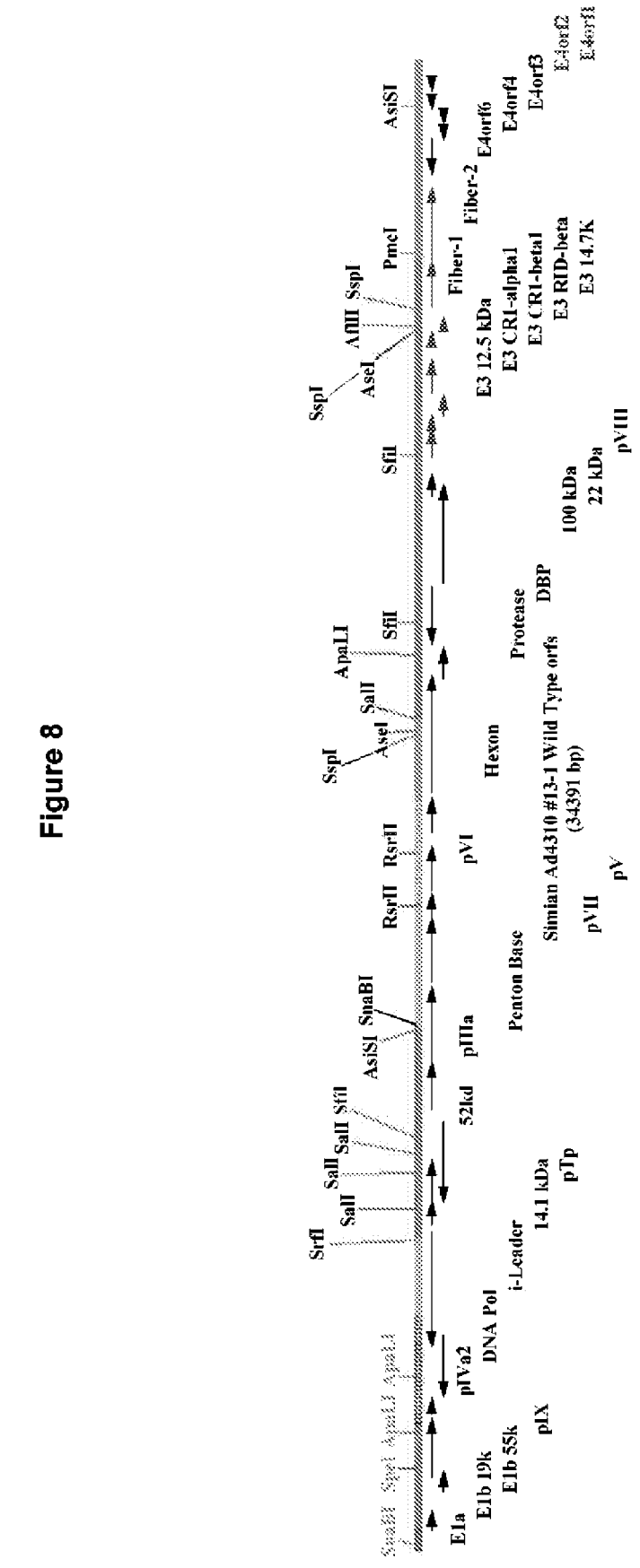

SmaBI SgrI AgeI AgeI
E1a
E1b 19k
E1b 55k
pIX
pIVa2
DNA Pol
i-Leader
14.1 kDa
pTp
52kd
pIIIa
Penton Base
pVII
pV
pVI
Hexon
Protease
DBP
Simian Ad4310 #13-1 Wild Type orfs
(34391 bp)
100 kDa
22 kDa
pVIII
E3 12.5 kDa
E3 CR1-alpha1
E3 CR1-beta1
E3 RID-beta
E3 14.7K
Fiber-1
Fiber-2
E4orf6
E4orf4
E4orf3
E4orf2
E4orf1
AsiSI
PmeI
AflII
SspI
AseI
SfiI
ApaLI
SalI
RsrII
SnaBI
AsiSI
SfiI
SalI
SalI
SalI
SrfI

Figure 9

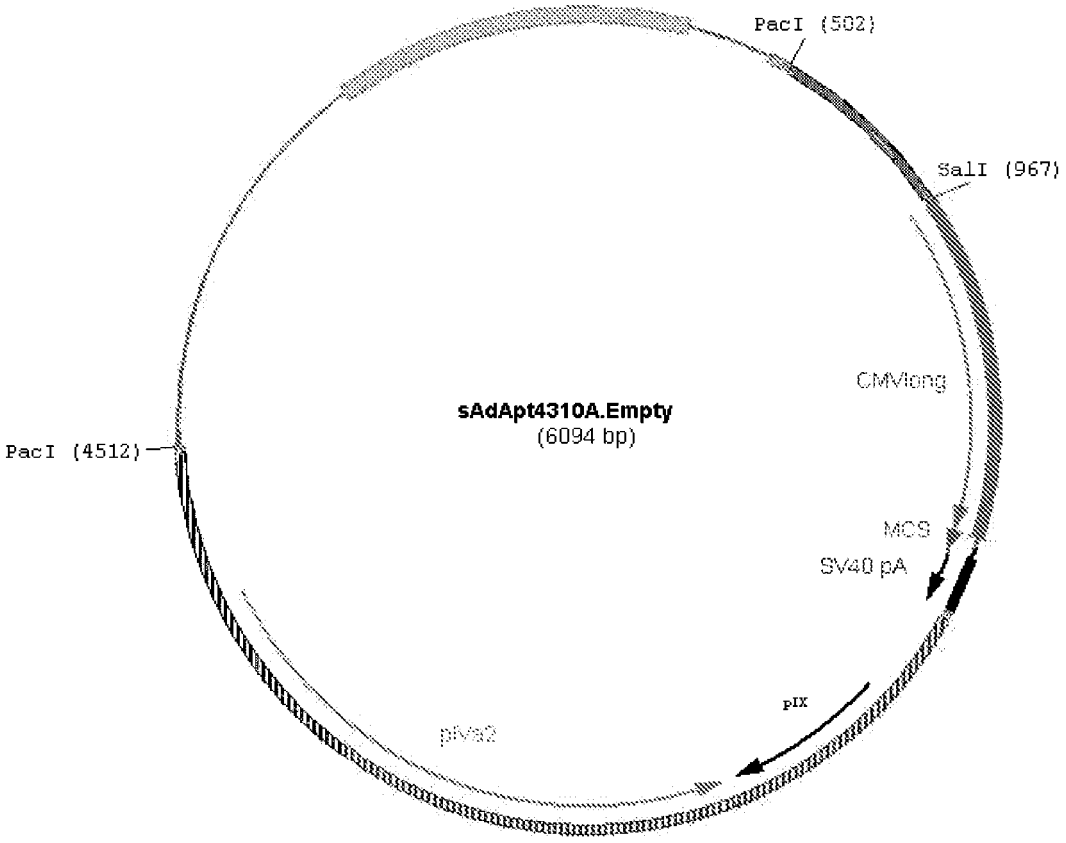

PacI (502)
SalI (967)
CMVlong
sAdApt4310A.Empty
(6094 bp)
PacI (4512)
MCS
SV40 pA
pIX
pIVa2

Figure 10

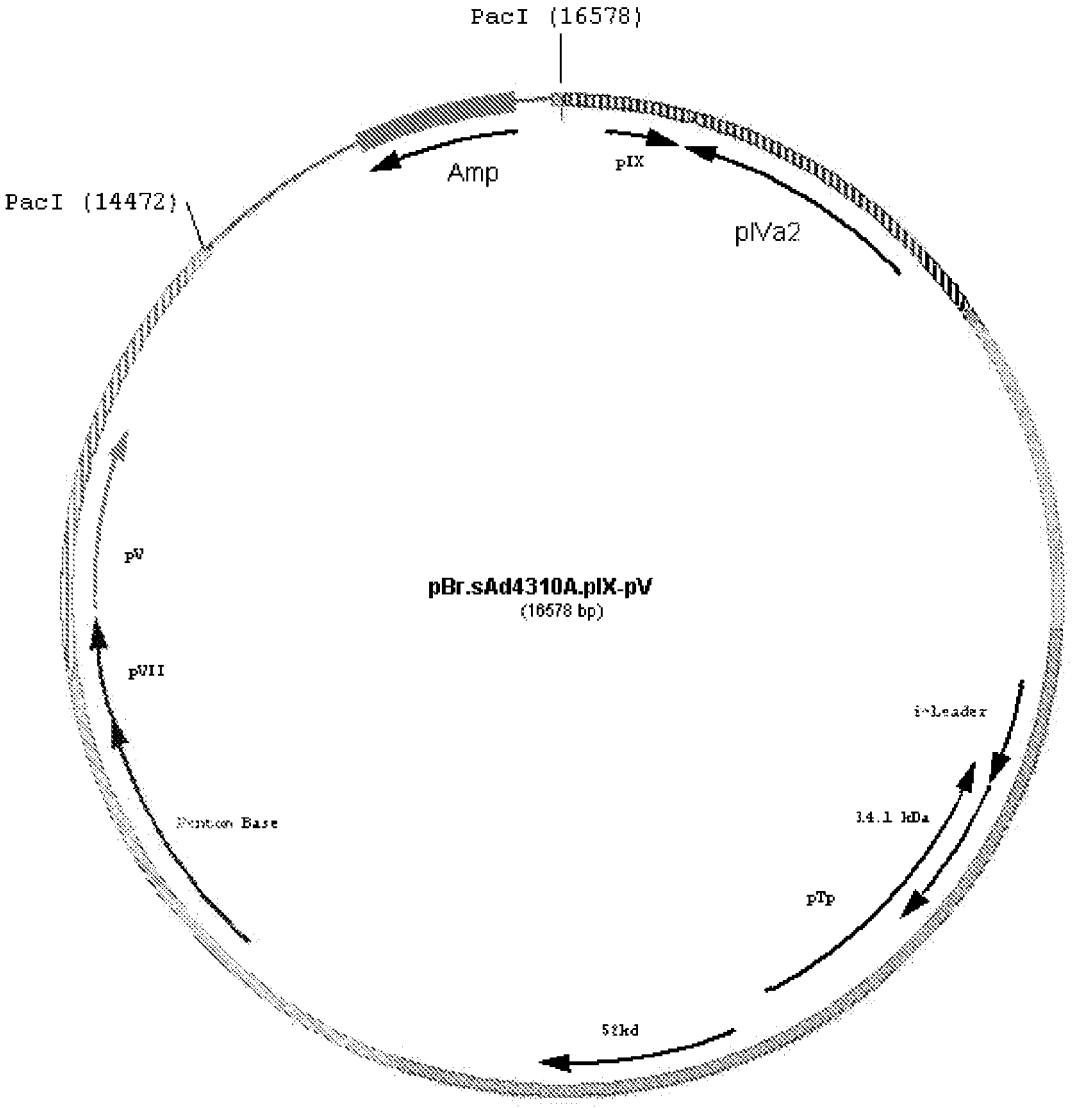

PacI (16578)
PacI (14472)
Amp
pIX
pIVa2
pV
pVII
pBr.sAd4310A.pIX-pV
(16578 bp)
i-leader
34.1 kDa
pTp
52kd

Figure 11

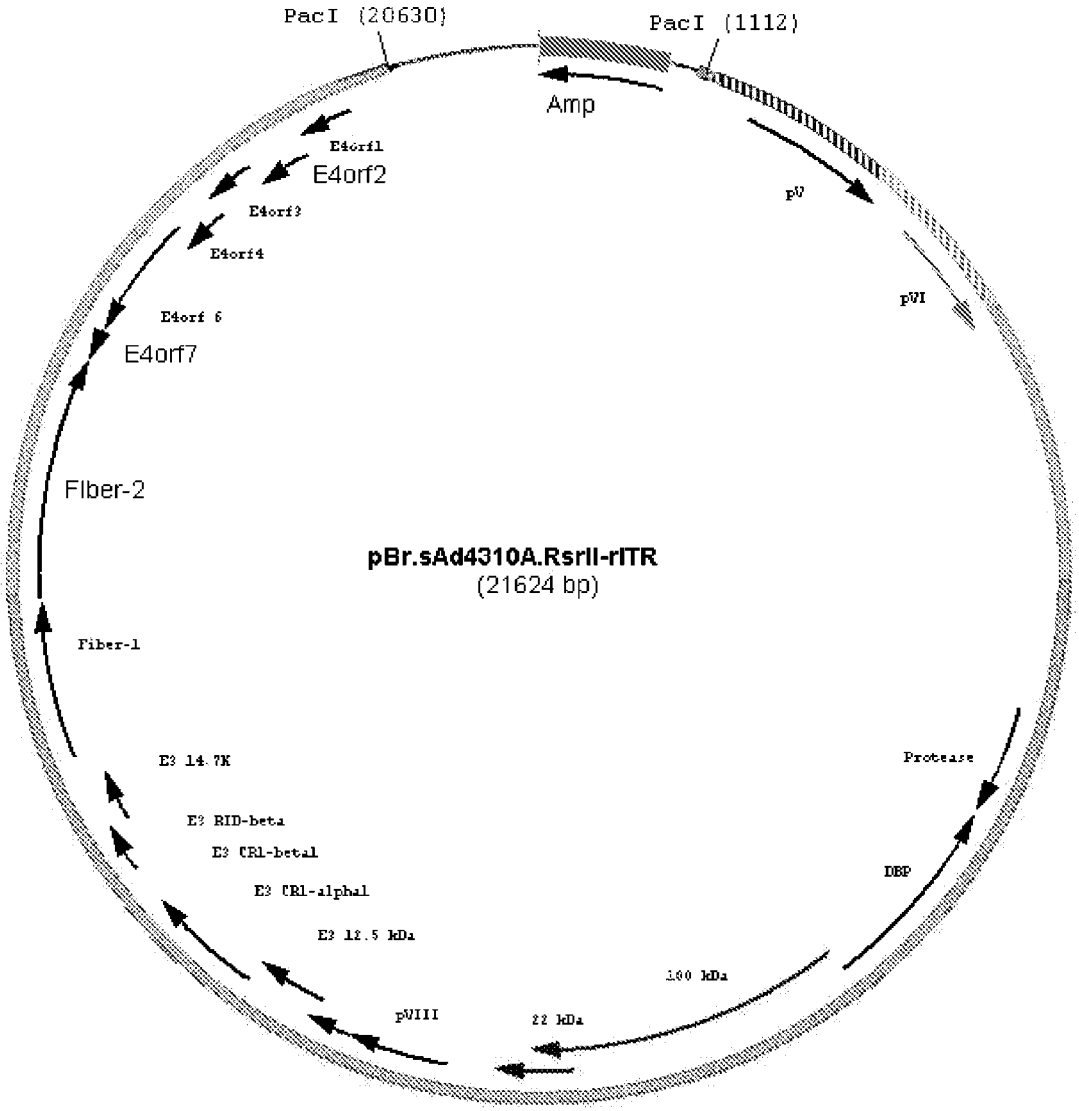

PacI (20630)
PacI (1112)
Amp
E4orf1
E4orf2
E4orf3
E4orf4
E4orf 6
E4orf7
Fiber-2
pV
pVI
pBr.sAd4310A.RsrII-rITR
(21624 bp)
Fiber-1
E3 14.7K
E3 RID-beta
E3 CR1-beta1
E3 CR1-alpha1
E3 12.5 kDa
pVIII
22 kDa
100 kDa
DBP
Protease

Figure 12

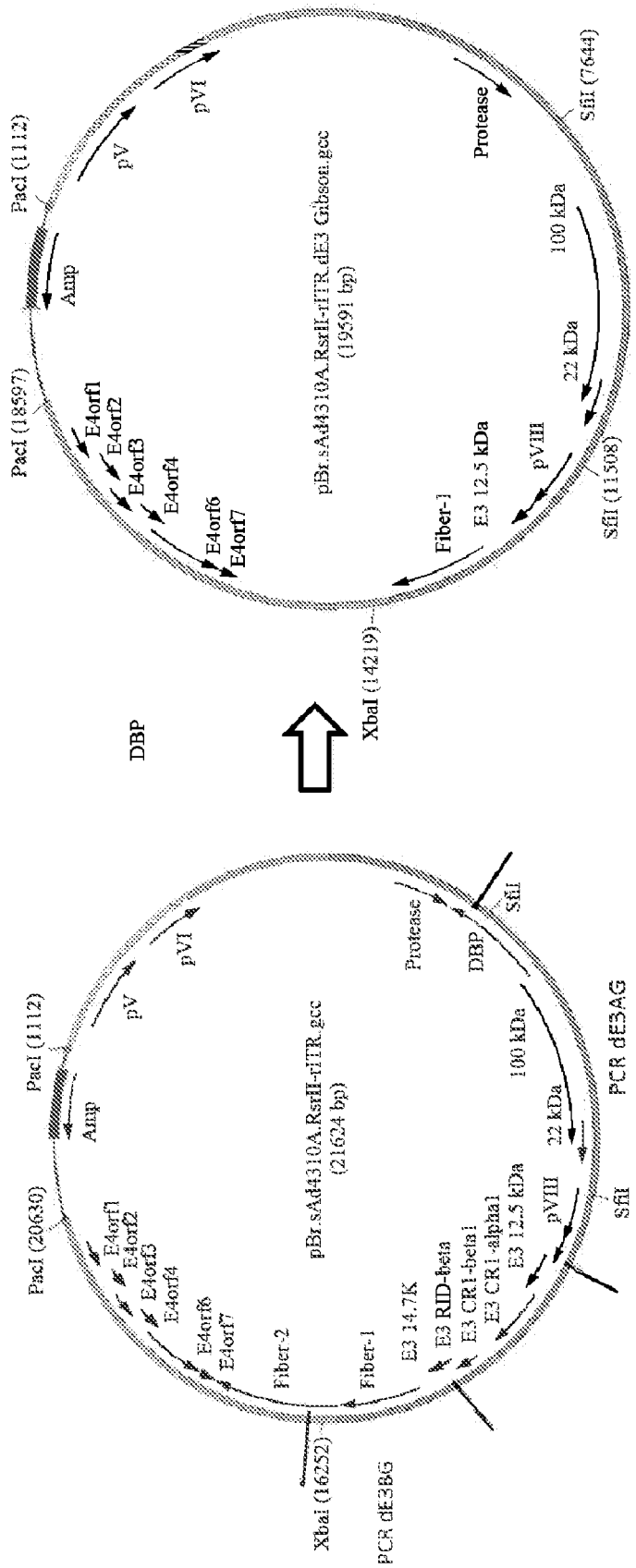

pBr.sAd4310A.RsrII-rITR.gcc
(21624 bp)
PacI (1112)
PacI (20630)
Amp
pV
pVI
Protease
DBP
SfiI
100 kDa
22 kDa
pVIII
E3 12.5 kDa
E3 CR1-alpha1
E3 CR1-beta1
E3 RID-beta
E3 14.7K
Fiber-1
Fiber-2
E4orf6
E4orf7
E4orf4
E4orf3
E4orf2
E4orf1
XbaI (16252)
PCR dE3BG
PCR dE3AG
pBr.sAd4310A.RsrII-rITR.dE3 Gibson.gcc
(19591 bp)
PacI (1112)
PacI (18597)
Amp
pV
pVI
Protease
SfiI (7644)
100 kDa
22 kDa
pVIII
E3 12.5 kDa
Fiber-1
E4orf1
E4orf2
E4orf3
E4orf4
E4orf6
E4orf7
XbaI (14219)
SfiI (11508)
DBP

Figure 13

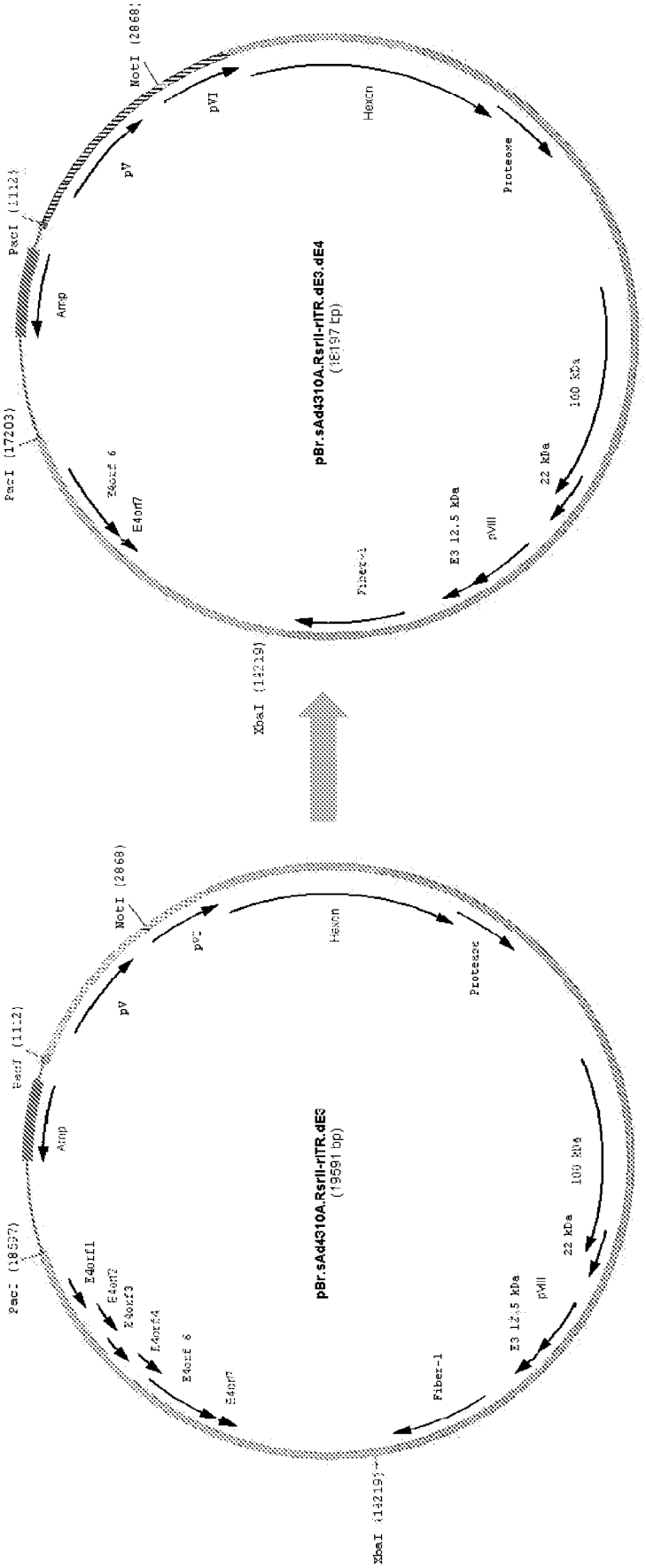

MotI (2868)
pVI
Hexon
Protease
pV
PacI (11124)
Amp
pBr.sAd4310A.RsrII-rITR.dE3.dE4
(16197 bp)
PacI (17203)
E4orf 6
E4orf7
100 kDa
22 kDa
pVIII
E3 12.5 kDa
Fiber-1
XbaI (142159)
MotI (2868)
pVI
Hexon
Protease
pV
PacI (1112)
Amp
pBr.sAd4310A.RsrII-rITR.dE3
(19591 bp)
PacI (18597)
E4orf1
E4orf2
E4orf3
E4orf4
E4orf 6
E4orf7
100 kDa
22 kDa
pVIII
E3 12.5 kDa
Fiber-1
XbaI (142159)

Figure 14

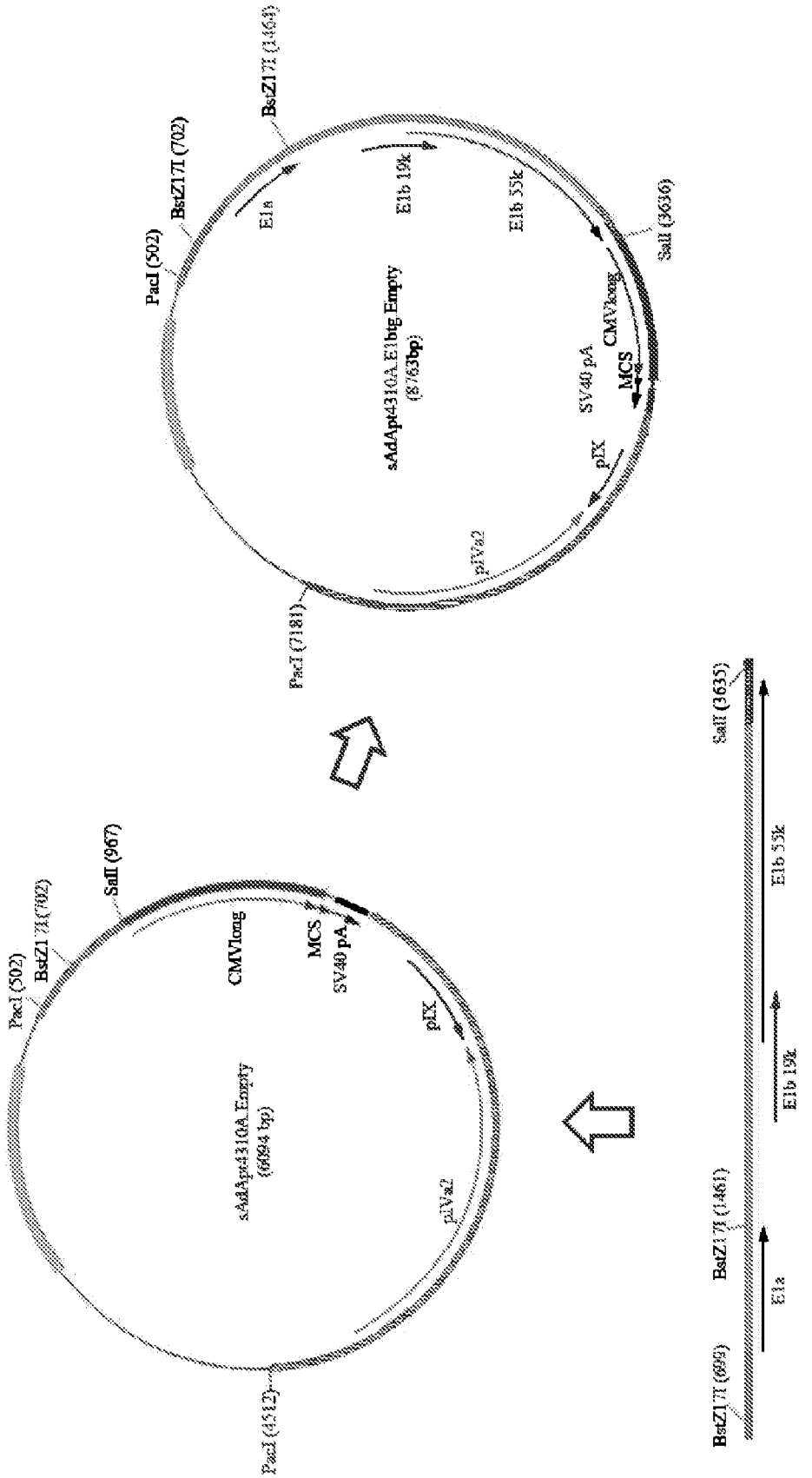

PacI (502)
BstZ17I (702)
SalI (967)
CMVlong
MCS
SV40 pA
pIX
pIVa2
sAdApt4310A Empty
(6694 bp)
PacI (4512)
BstZ17I (6995)
BstZ17I (1461)
SalI (3635)
E1a
E1b 19k
E1b 55k
PacI (7181)
BstZ17I (1464)
SalI (3636)
sAdApt4310A E1btg Empty
(8763bp)

Figure 15

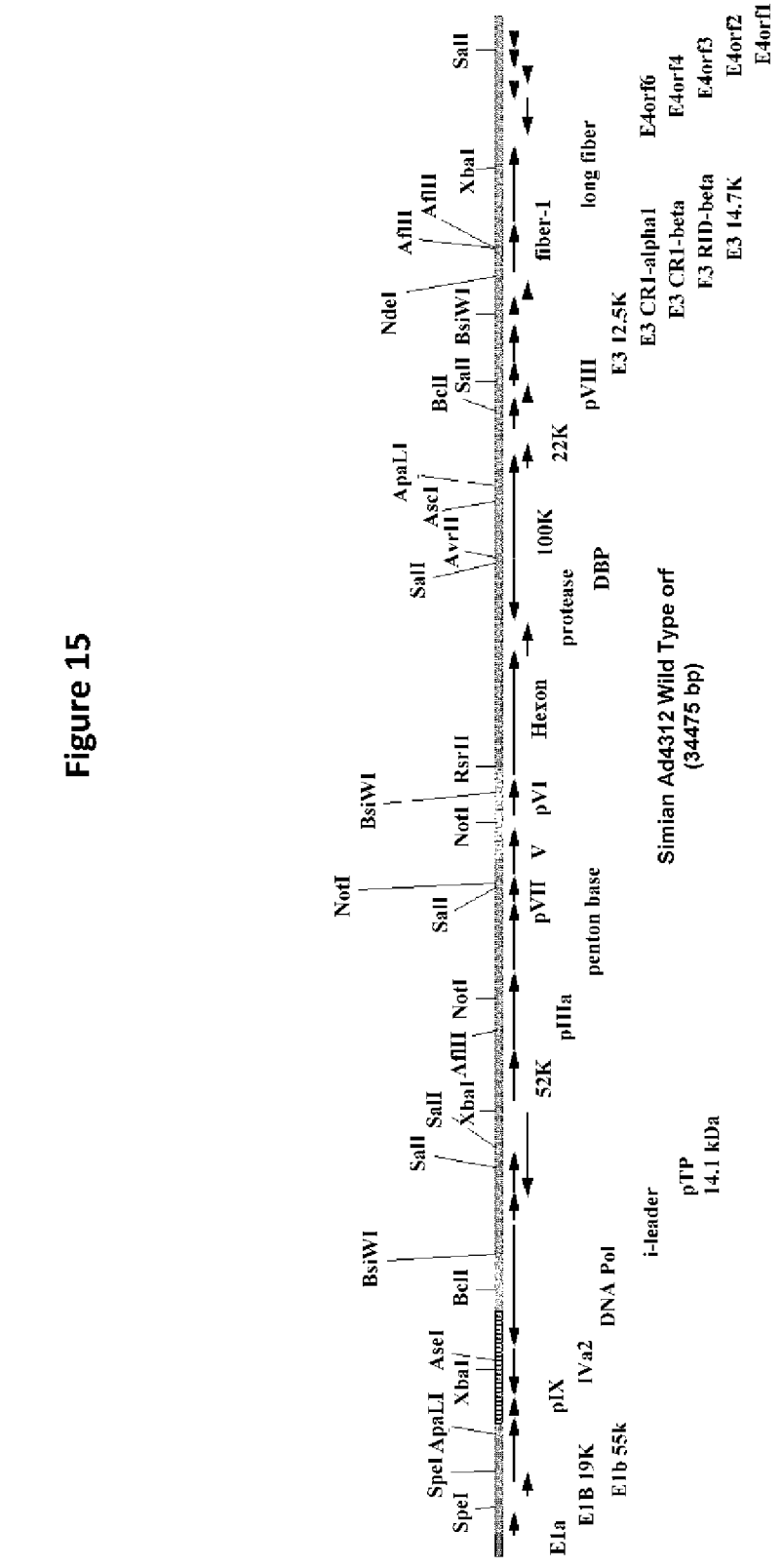

Simian Ad4312 Wild Type orf
(34475 bp)
SpeI
SpeI
ApaLI
AseI
XbaI
BclI
BsiWI
SalI
SalI
XbaI
AflII
NotI
NotI
SalI
BsiWI
NotI
RsrII
SalI
AvrII
AscI
ApaLI
BclI
SalI
BsiWI
NdeI
AflII
AflII
XbaI
SalI
E1B 19K
E1b 55k
E1a
pIX
IVa2
DNA Pol
i-leader
pTP
14.1 kDa
52K
pIIIa
penton base
pVII
V
pVI
Hexon
protease
DBP
100K
22K
pVIII
E3 12.5K
E3 CR1-alpha1
E3 CR1-beta
E3 RID-beta
E3 14.7K
fiber-1
long fiber
E4orf6
E4orf4
E4orf3
E4orf2
E4orf1

Figure 16

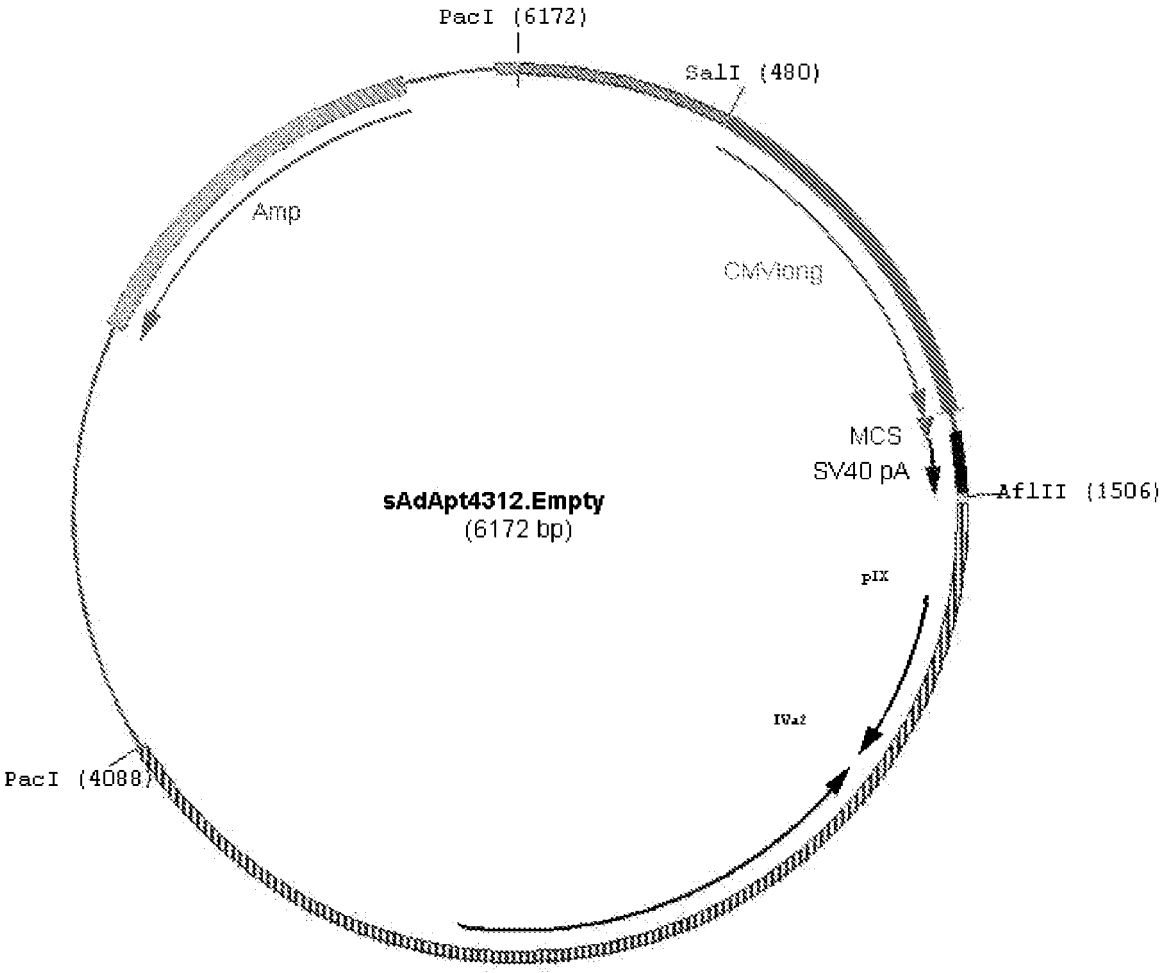

PacI (6172)
SalI (480)
Amp
CMVlong
MCS
SV40 pA
AflII (1506)
sAdApt4312.Empty
(6172 bp)
pIX
IVa2
PacI (4088)

Figure 17

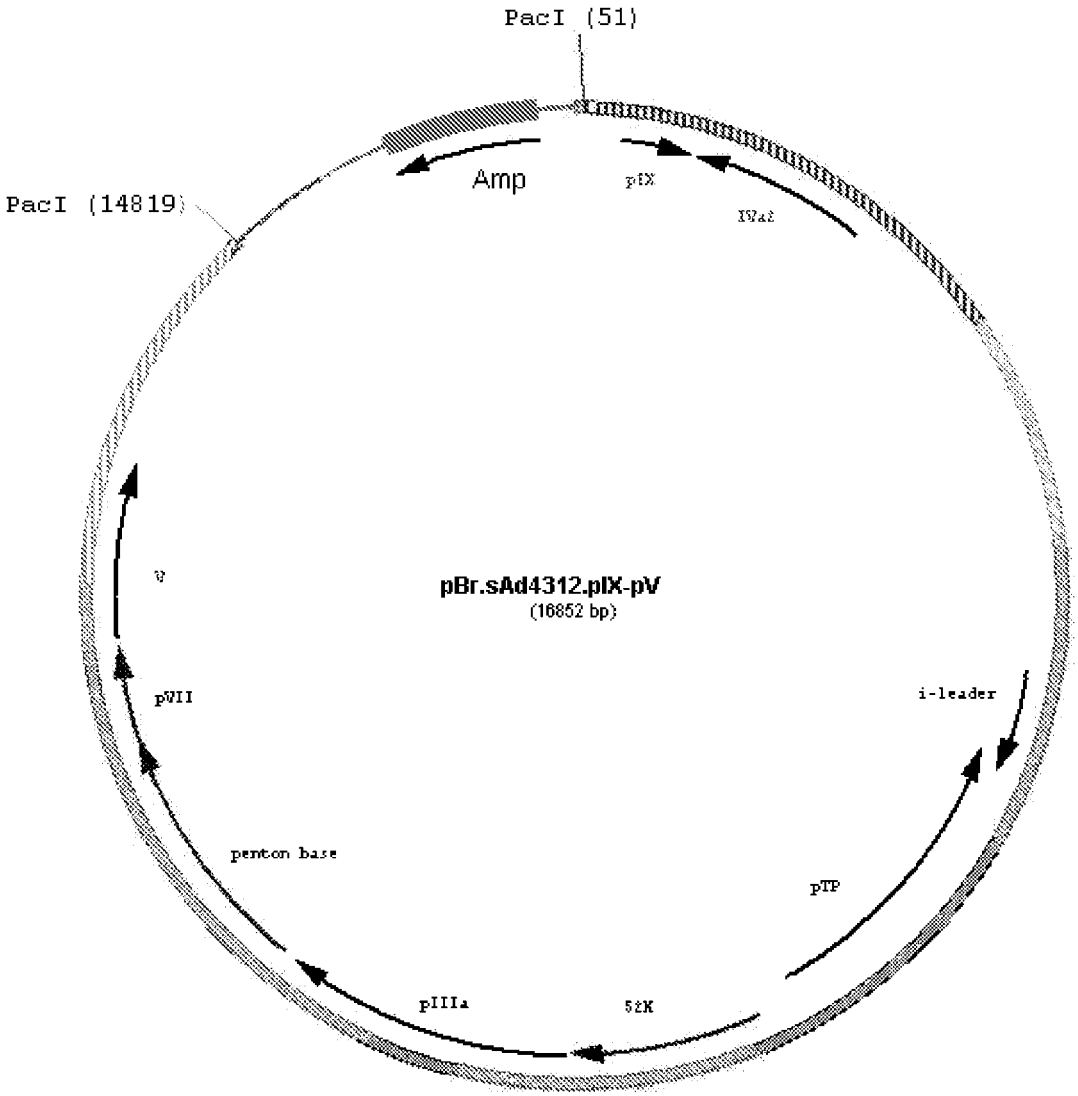

PacI (51)
PacI (14819)
Amp
pIX
IVa2
pBr.sAd4312.pIX-pV
(16852 bp)
V
pVII
penton base
pIIIa
52K
pTP
i-leader

Figure 18

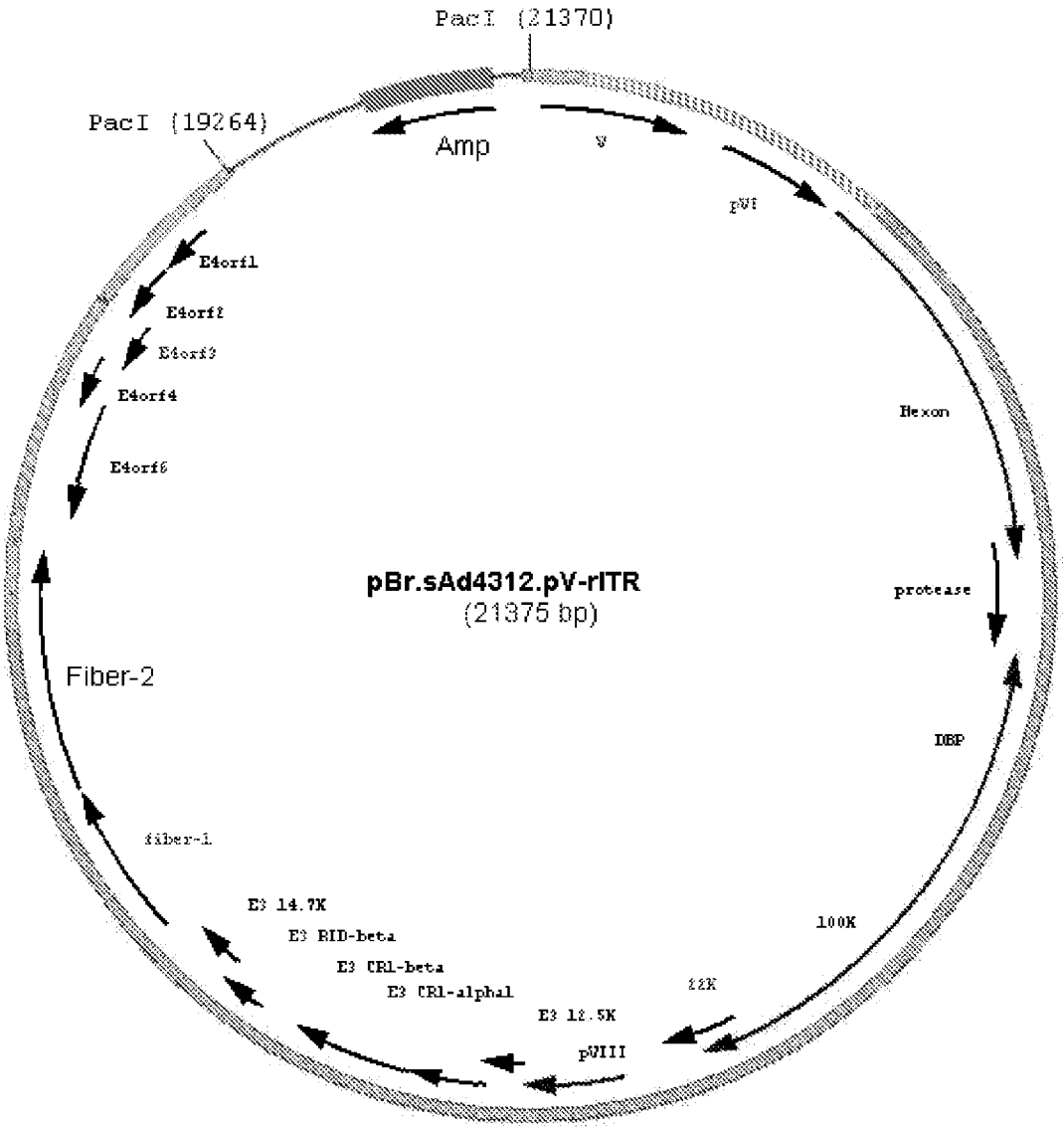

PacI (21370)
PacI (19264)
Amp
V
pVI
Hexon
protease
DBP
100K
22K
pVIII
E3 12.5K
E3 CR1-alpha1
E3 CR1-beta
E3 RID-beta
E3 14.7K
fiber-1
Fiber-2
E4orf6
E4orf4
E4orf3
E4orf2
E4orf1
pBr.sAd4312.pV-rITR
(21375 bp)

Figure 19

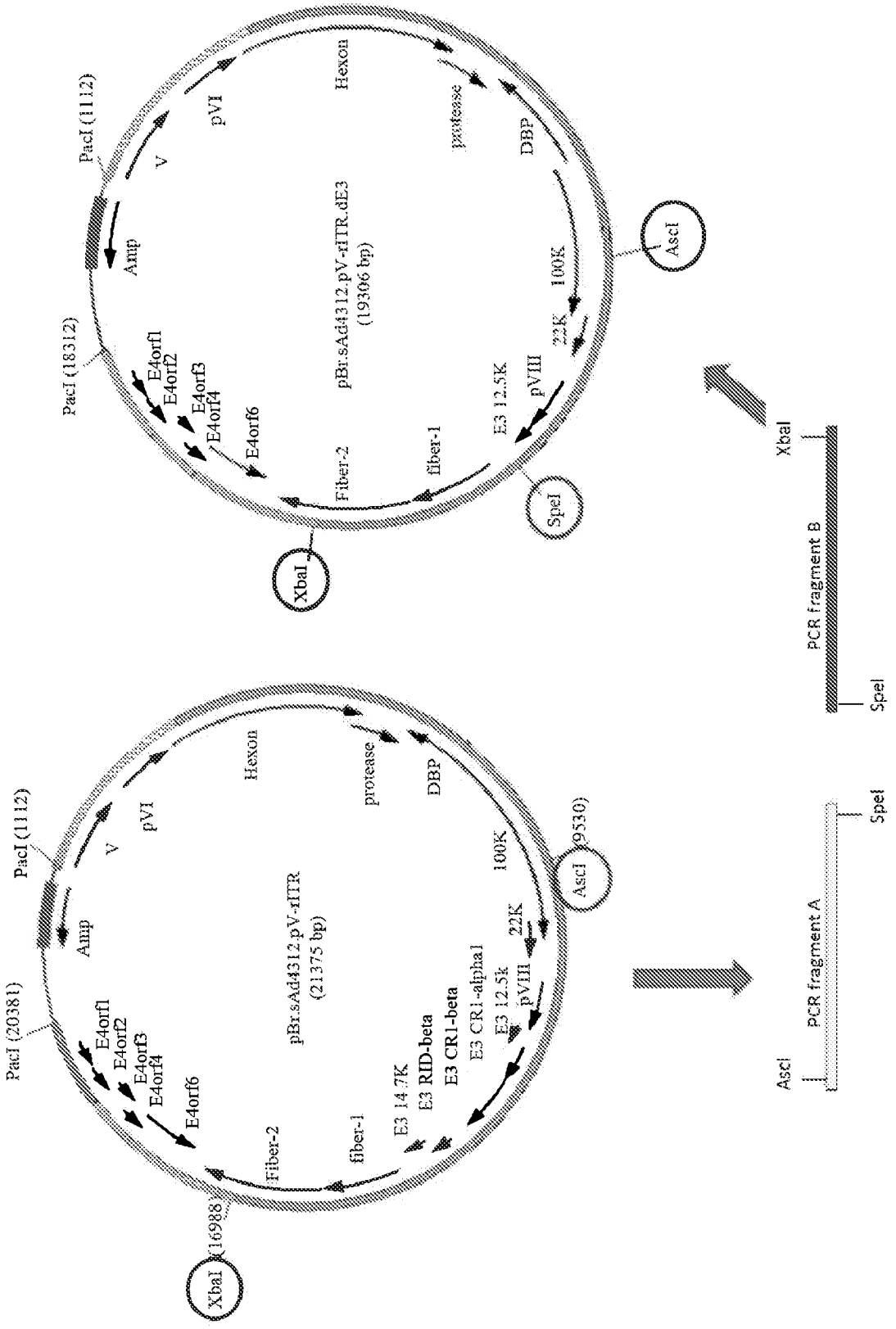

PacI (1112)
PacI (18312)
Amp
V
pVI
Hexon
protease
DBP
100K
22K
pVIII
E3 12.5K
fiber-1
Fiber-2
E4orf6
E4orf4
E4orf3
E4orf2
E4orf1
pBr.sAd4312.pV-rITR.dE3
(19306 bp)
XbaI
SpeI
AscI
PacI (1112)
PacI (20381)
XbaI (16988)
AscI (9530)
pBr.sAd4312.pV-rITR
(21375 bp)
E3 14.7K
E3 RID-beta
E3 CR1-beta
E3 CR1-alpha1
E3 12.5k
PCR fragment A
PCR fragment B

Figure 20

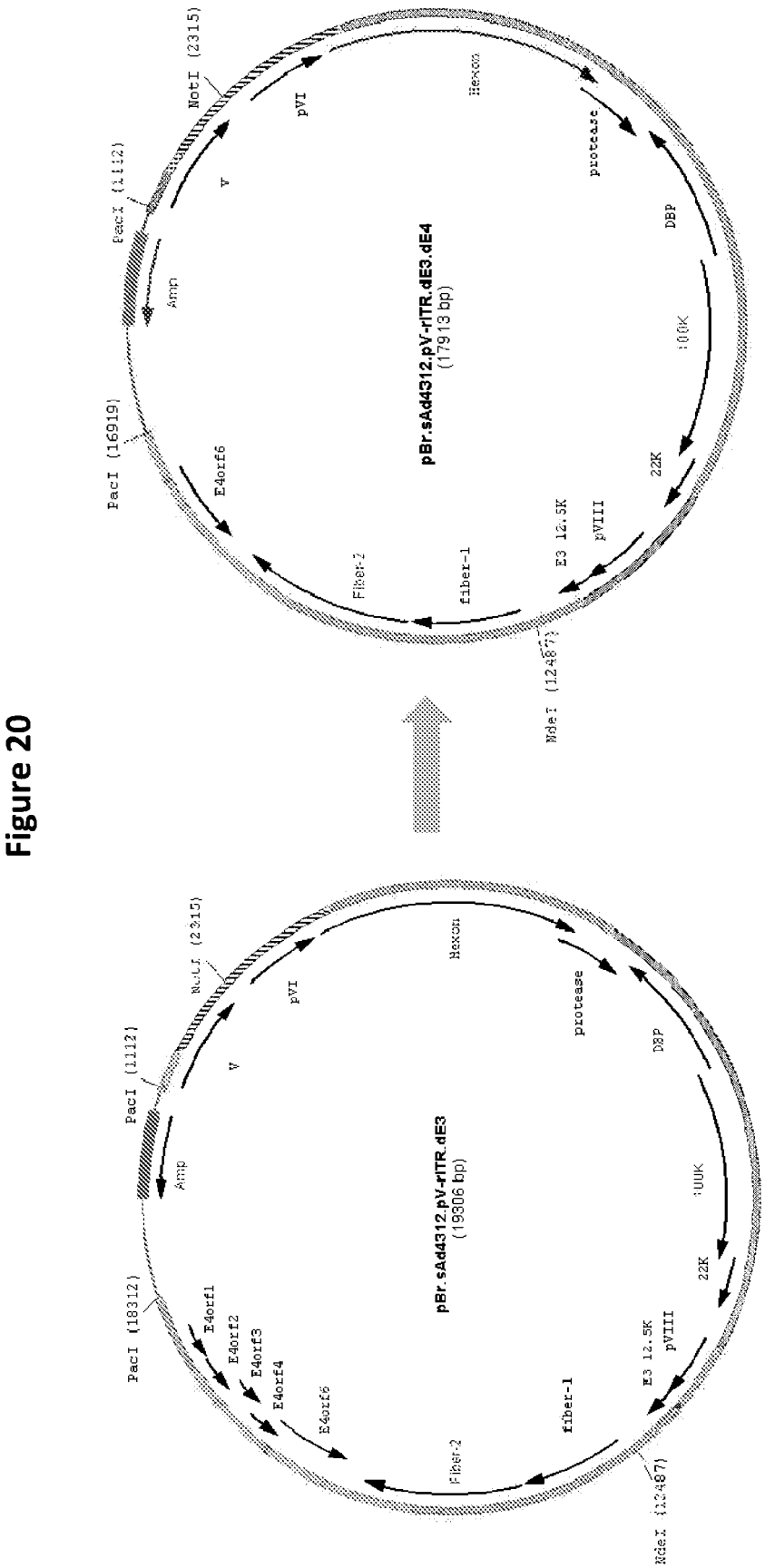
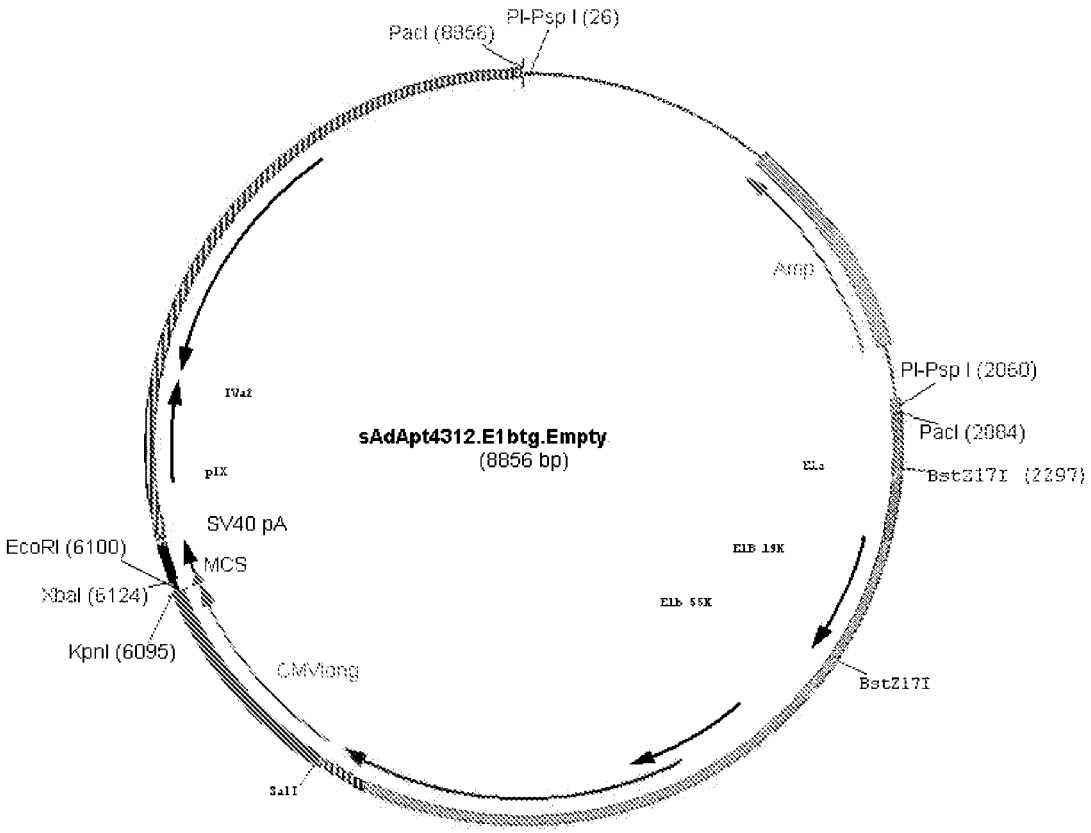
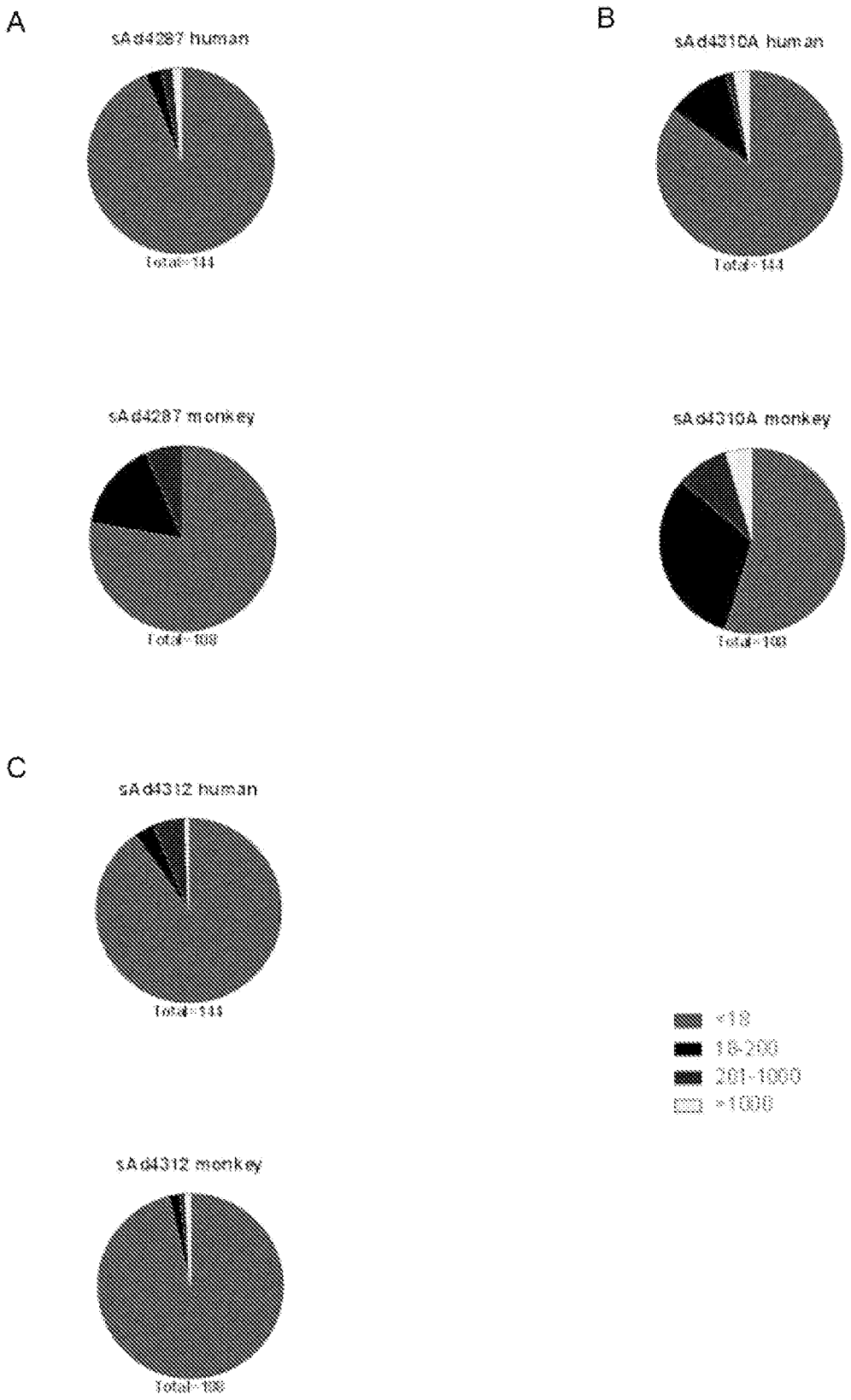

pBr.sAd4312.pV-rITR.dE3.dE4
(17913 bp)
PacI (1112)
MotI (2315)
PacI (16919)
NdeI (12487)
Amp
V
pVI
Hexon
protease
DBP
100K
22K
pVIII
E3 12.5K
fiber-1
Fiber-2
E4orf6
pBr.sAd4312.pV-rITR.dE3
(19306 bp)
PacI (18312)
E4orf1
E4orf2
E4orf3
E4orf4

Figure 21

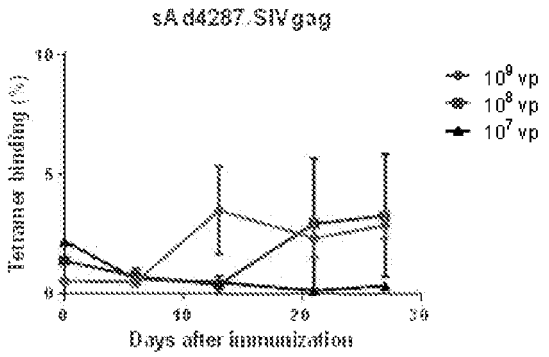

PacI (8856)
PI-Psp I (26)
Amp
PI-Psp I (2060)
PacI (2084)
BstZ17I (2297)
sAdApt4312.E1btg.Empty
(8856 bp)
pIX
SV40 pA
MCS
EcoRI (6100)
XbaI (6124)
KpnI (6095)
CMVlong
BstZ17I
SalI

Figures 22A-22C

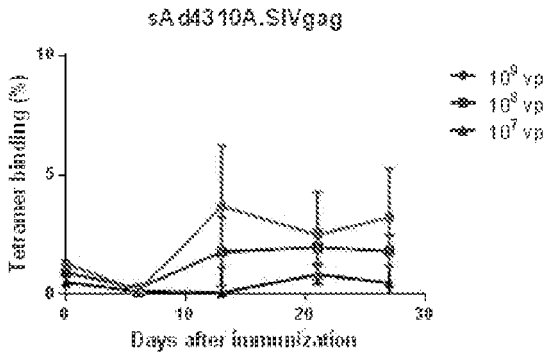


Figures 23A-23B

A



B



Figures 24A-24C

