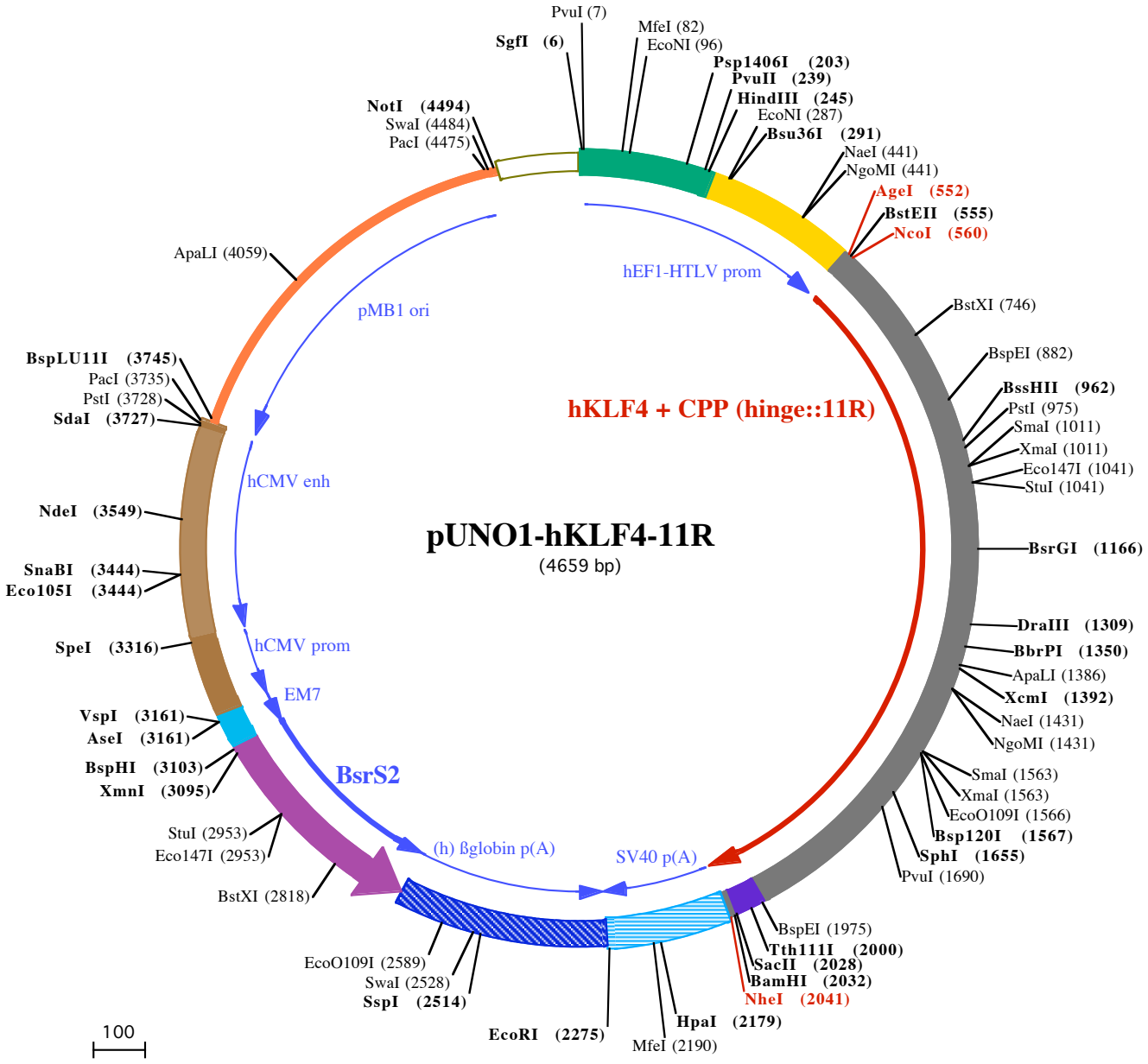
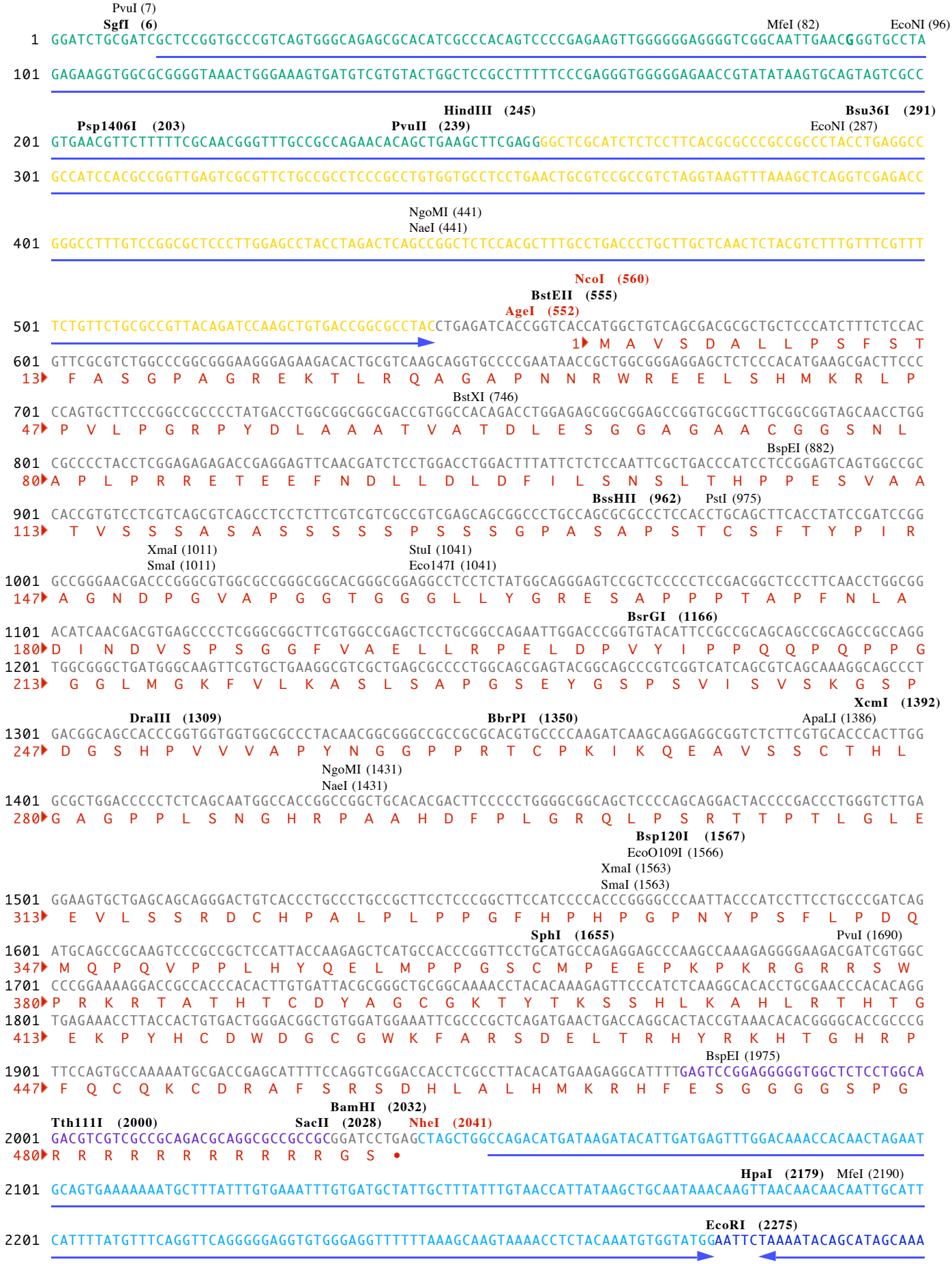
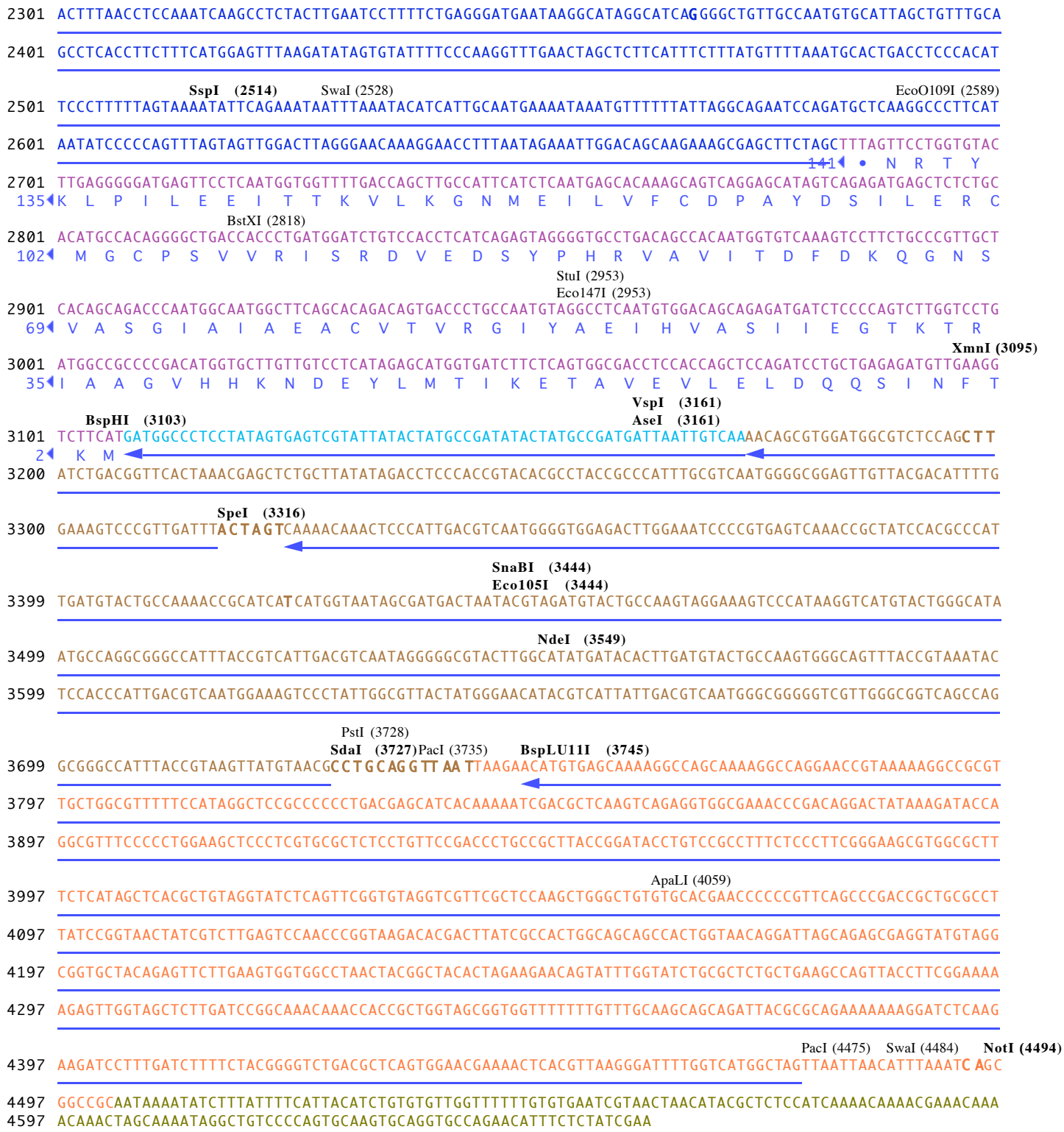

pUNO1-hKLF4-11R
(4659 bp)
hKLF4 + CPP (hinge::11R)
hEF1-HTLV prom
pMB1 ori
hCMV enh
hCMV prom
EM7
BsrS2
(h) ßglobin p(A)
SV40 p(A)
PvuI (7)
SgfI (6)
MfeI (82)
EcoNI (96)
Psp1406I (203)
PvuII (239)
HindIII (245)
EcoNI (287)
Bsu36I (291)
NaeI (441)
NgoMI (441)
AgeI (552)
BstEII (555)
NcoI (560)
NotI (4494)
SwaI (4484)
PacI (4475)
ApaLI (4059)
BstXI (746)
BspEI (882)
BssHII (962)
PstI (975)
SmaI (1011)
XmaI (1011)
Eco147I (1041)
StuI (1041)
BsrGI (1166)
DraIII (1309)
BbrPI (1350)
ApaLI (1386)
XcmI (1392)
NaeI (1431)
NgoMI (1431)
SmaI (1563)
XmaI (1563)
EcoO109I (1566)
Bsp120I (1567)
SphI (1655)
PvuI (1690)
BspEI (1975)
Tth111I (2000)
SacII (2028)
BamHI (2032)
NheI (2041)
HpaI (2179)
MfeI (2190)
EcoRI (2275)
EcoO109I (2589)
SwaI (2528)
SspI (2514)
BstXI (2818)
StuI (2953)
Eco147I (2953)
BspHI (3103)
XmnI (3095)
VspI (3161)
AseI (3161)
SpeI (3316)
SnaBI (3444)
Eco105I (3444)
NdeI (3549)
BspLU11I (3745)
PacI (3735)
PstI (3728)
SdaI (3727)
100

InvivoGen


PvuI (7)
SgfI (6)
MfeI (82)
EcoNI (96)
1 GGATCTGCGATCGCTCCGGTGCCCGTCAGTGGGCAGAGCGCACATCGCCCACAGTCCCCGAGAAGTTGGGGGGAGGGGTCGGCAATTGAACGGGTGCCTA
101 GAGAAGGTGGCGCGGGGTAAACTGGGAAAGTGATGTCGTGTACTGGCTCCGCCTTTTTCCCGAGGGTGGGGGAGAACCGTATATAAGTGCAGTAGTCGCC
HindIII (245)
Bsu36I (291)
Psp1406I (203)
PvuII (239)
EcoNI (287)
201 GTGAACGTTCTTTTTCGCAACGGGTTTGCCGCCAGAACACAGCTGAAGCTTCGAGGGGCTCGCATCTCTCCTTCACGCGCCCGCCGCCCTACCTGAGGCC
301 GCCATCCACGCCGGTTGAGTCGCGTTCTGCCGCCTCCCGCCTGTGGTGCCTCCTGAACTGCGTCCGCCGTCTAGGTAAGTTTAAAGCTCAGGTCGAGACC
NgoMI (441)
NaeI (441)
401 GGGCCTTTGTCCGGCGCTCCCTTGGAGCCTACCTAGACTCAGCCGGCTCTCCACGCTTTGCCTGACCCTGCTTGCTCAACTCTACGTCTTTGTTTCGTTT
NcoI (560)
BstEII (555)
AgeI (552)
501 TCTGTTCTGCGCCGTTACAGATCCAAGCTGTGACCGGCGCCTACCTGAGATCACCGGTCACCATGGCTGTCAGCGACGCGCTGCTCCCATCTTTCTCCAC
1 M A V S D A L L P S F S T
601 GTTCGCGTCTGGCCCGGCGGGAAGGGAGAAGACACTGCGTCAAGCAGGTGCCCCGAATAACCGCTGGCGGGAGGAGCTCTCCCACATGAAGCGACTTCCC
13 F A S G P A G R E K T L R Q A G A P N N R W R E E L S H M K R L P
BstXI (746)
701 CCAGTGCTTCCCGGCCGCCCCTATGACCTGGCGGCGGCGACCGTGGCCACAGACCTGGAGAGCGGCGGAGCCGGTGCGGCTTGCGGCGGTAGCAACCTGG
47 P V L P G R P Y D L A A A T V A T D L E S G G A G A A C G G S N L
BspEI (882)
801 CGCCCCTACCTCGGAGAGAGACCGAGGAGTTCAACGATCTCCTGGACCTGGACTTTATTCTCTCCAATTCGCTGACCCATCCTCCGGAGTCAGTGGCCGC
80 A P L P R R E T E E F N D L L D L D F I L S N S L T H P P E S V A A
BssHII (962)
PstI (975)
901 CACCGTGTCCTCGTCAGCGTCAGCCTCCTCTTCGTCGTCGCCGTCGAGCAGCGGCCCTGCCAGCGCGCCCTCCACCTGCAGCTTCACCTATCCGATCCGG
113 T V S S S A S A S S S S S P S S S G P A S A P S T C S F T Y P I R
XmaI (1011)
SmaI (1011)
StuI (1041)
Eco147I (1041)
1001 GCCGGGAACGACCCGGGCGTGGCGCCGGGCGGCACGGGCGGAGGCCTCCTCTATGGCAGGGAGTCCGCTCCCCCTCCGACGGCTCCCTTCAACCTGGCGG
147 A G N D P G V A P G G T G G G L L Y G R E S A P P P T A P F N L A
BsrGI (1166)
1101 ACATCAACGACGTGAGCCCCTCGGGCGGCTTCGTGGCCGAGCTCCTGCGGCCAGAATTGGACCCGGTGTACATTCCGCCGCAGCAGCCGCAGCCGCCAGG
180 D I N D V S P S G G F V A E L L R P E L D P V Y I P P Q Q P Q P P G
1201 TGGCGGGCTGATGGGCAAGTTCGTGCTGAAGGCGTCGCTGAGCGCCCCTGGCAGCGAGTACGGCAGCCCGTCGGTCATCAGCGTCAGCAAAGGCAGCCCT
213 G G L M G K F V L K A S L S A P G S E Y G S P S V I S V S K G S P
XcmI (1392)
DraIII (1309)
BbrPI (1350)
ApaLI (1386)
1301 GACGGCAGCCACCCGGTGGTGGTGGCGCCCTACAACGGCGGGCCGCCGCGCACGTGCCCCAAGATCAAGCAGGAGGCGGTCTCTTCGTGCACCCACTTGG
247 D G S H P V V V A P Y N G G P P R T C P K I K Q E A V S S C T H L
NgoMI (1431)
NaeI (1431)
1401 GCGCTGGACCCCCTCTCAGCAATGGCCACCGGCCGGCTGCACACGACTTCCCCCTGGGGCGGCAGCTCCCCAGCAGGACTACCCCGACCCTGGGTCTTGA
280 G A G P P L S N G H R P A A H D F P L G R Q L P S R T T P T L G L E
Bsp120I (1567)
EcoO109I (1566)
XmaI (1563)
SmaI (1563)
1501 GGAAGTGCTGAGCAGCAGGGACTGTCACCCTGCCCTGCCGCTTCCTCCCGGCTTCCATCCCCACCCGGGGCCCAATTACCCATCCTTCCTGCCCGATCAG
313 E V L S S R D C H P A L P L P P G F H P H P G P N Y P S F L P D Q
SphI (1655)
PvuI (1690)
1601 ATGCAGCCGCAAGTCCCGCCGCTCCATTACCAAGAGCTCATGCCACCCGGTTCCTGCATGCCAGAGGAGCCCAAGCCAAAGAGGGGAAGACGATCGTGGC
347 M Q P Q V P P L H Y Q E L M P P G S C M P E E P K P K R G R R S W
1701 CCCGGAAAAGGACCGCCACCCACACTTGTGATTACGCGGGCTGCGGCAAAACCTACACAAAGAGTTCCCATCTCAAGGCACACCTGCGAACCCACACAGG
380 P R K R T A T H T C D Y A G C G K T Y T K S S H L K A H L R T H T G
1801 TGAGAAACCTTACCACTGTGACTGGGACGGCTGTGGATGGAAATTCGCCCGCTCAGATGAACTGACCAGGCACTACCGTAAACACACGGGGCACCGCCCG
413 E K P Y H C D W D G C G W K F A R S D E L T R H Y R K H T G H R P
BspEI (1975)
1901 TTCCAGTGCCAAAAATGCGACCGAGCATTTTCCAGGTCGGACCACCTCGCCTTACACATGAAGAGGCATTTTGAGTCCGGAGGGGGTGGCTCTCCTGGCA
447 F Q C Q K C D R A F S R S D H L A L H M K R H F E S G G G G S P G
BamHI (2032)
Tth111I (2000)
SacII (2028)
NheI (2041)
2001 GACGTCGTCGCCGCAGACGCAGGCGCCGCCGCGGATCCTGAGCTAGCTGGCCAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAT
480 R R R R R R R R R R R G S •
HpaI (2179)
MfeI (2190)
2101 GCAGTGAAAAAAATGCTTTATTTGTGAAATTTGTGATGCTATTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTAACAACAACAATTGCATT
EcoRI (2275)
2201 CATTTTATGTTTCAGGTTCAGGGGGAGGTGTGGGAGGTTTTTTAAAGCAAGTAAAACCTCTACAAATGTGGTATGGAATTCTAAAATACAGCATAGCAAA


SspI (2514)
SwaI (2528)
EcoO109I (2589)
BstXI (2818)
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XmnI (3095)
VspI (3161)
AseI (3161)
BspHI (3103)
SpeI (3316)
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NdeI (3549)
PstI (3728)
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PacI (3735)
BspLU11I (3745)
ApaLI (4059)
PacI (4475)
SwaI (4484)
NotI (4494)