

BglII (12) MfeI (161) Bpu10I (180)

1 GACGGATCGGGAGATCTCCCGATCCCCATGGTGCAGTCTCAGTACAATCTGCTCTGATGCCGATAGTTAAAGCCAGTATCTGCTCCCTGCTTGTGTGTGGAGGTTCGCTGAGTAGTGCAGGAGCAAAATTTAAGCTACAACAAGGCAAGGCTTGACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTCGCGCTAGCCCTCTAGAGGGCTAGGGGATACAGCTGAGAGTCATGTTAGACGAGACTACGGCGTATCAATTCGGTCTATAGACGAGGACGAAACACACAACCTCCAGCGACTCATCACGGCTCGTTTAAATTCGATGTTGTTCCGTTCCGAACCTGGCTGTTAACTGACTCTCTTAGACGAATCCCAATCCGCAAAACGC

NruI (208) MluI (228)

201 CTGCTTCGCGATGACGGGCAGATATACGCGTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCACTTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCCCTGGCTGACGCCCAACGACCCCGCCCAATTGACGTCAATAATGACGTATGTTCCCATAGTGACGAGCGCTACATGCCCGTCTATATGCGCAACTGTAAGTAACTGATCAATAATTTATCATTTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGCGCAATGTAATGAATGCCATTTACCGGGCGGACCGACTGCGGGTTCGTTGGGGCGGGTAACTGCAGTTATTACTGCATCAAGGGTATCA

NdeI (484) SnaBI (590)

401 AACGCCAATAGGACTTTTCATTGACGTCAATGGGTGGACTATTTACGTTAACTGCCACTTGGCAGTACATCAAGTATGATGCAAGTACGCCCTATTGACGTCAATGACGGTAAATGGCCCCCTGGCATTTATGCCAGTACATGACCTTATGGGACTTTCTACTTGGCAGTACATCTACGTATTAGTCA TTGCGGTTATCCCTGAAAGTAAGTGCAGTTACCCACCTGATAAATGCCATTTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGATAACTGCAGTTACTGCCATTTACCGGGCGGACCGTAATACGGGTCACTGACTGGAATACCCCTGAAAGGATGAACCGTCACTGATAGTGCATATCAGT

601 TCGCTATTACCATGGTGTGCGGTTTGGCAGTACATCAATGGCGTGGATAGCGGTTTGACTCACGGGATTTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTGTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACCTCCGCCCATTTGACGCAATGGCGGTAGCGGTGTAGCGTGGGAG AGCGATAATGTTACCACTACGCAAAACCGTCACTGAGTTACCGCACCTATGCGCAAACTGAGTGCCCTAAAGGTTTCAGAGTGGGGTAACTGCAGTTACCCCTCAAAACAAACCGGTGTTTATGTTGCCCTGAAAGGTTTACAGCATGTTGTTAGGCGGGGTAACTGCGTTTACCGCCATCCGCACATGCCACCTC

KpnI (899) Acc65I (895) HindIII (889) BamHI (907) EcoRI (938) EcoRV (950) NotI (965)

801 GTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCTGCTTACTGGCTTATCGAAATTAATACGACTCCTATAGGGAGACCCAAAGCTTGGTACCGAGCTCGGATCCACTAGTAACCGGCCAGTGTGTGGAAATTCGACAGATATCCATACACTGGCGGCCGCATGGTGAGCAAGGGGAGGAGTAACAT CAGATATATTCGCTCGAGAGACCGATTGATCTCTTGGTGACGAATGACCGAATAGCTTTAATTTATGCTGAGTGATATCCCTCTGGGTTGCAACCATGGCTCGAGCCTAGGTGATCAITGCGCGCGGTACACAGCACTTAAGACGTCTATAGTGTAGTGTGACCGCGCGGC TACCACCTCGTTCCCGCTCCTCTTATTGTGA

1▶ R P P V C W N S A D I H T G R 1▶ M V S K G E E N N M

BpI (1117)

1001 GGCCATCATCAAGAGTTTCATGCGCTTCAAGGTGCGCATGGAGGGCTCCGTGAACGGCCACGAGTTTCAGATCGAGGGCGAGGGCGGGCCCTACGAGGGCTTTCAGACCGCTAAGCTGAAGGTGACCAAGGTGGCCCCCTGCCCTTCGCGTGGGACATCTGTCCCCCTCATTTCACTACGGCTCCAAGGCCT CCGGTAGTAGTTCTCAAGTACGCGAAGTTCCACGCGTACCTCCGAGGCACTTGC CGGTGCTCAAGCTCTAGCTCCCGCTCCCGTCCCGCGGGGATGCTCCCGAAAGTCTGGCGATTGACATTCCACTGGTTCCACCGGGGACGGGAAGCGGACCTGTAGGACAGGGGAGTAAAGTGGATGCCGAGGTTCCGGA

10▶ A I I K E F M R F K V R M E G S V N G H E F E I E G E G E G R P Y E G F Q T A K L K V T K G G P L P F A W D I L S P H F T Y G S K A

SbfI (1327)

1201 ACGTGAAGCACCCCGCGACATCCCGACTACTTCAAGCTGTCTTCCCGAGGGCTTCAAGTGGGAGCGGTGATGAATACGAGGACGCGCGCTGGTGACCGTGACCCAGGAATCTCCCTGCAGGACGCGGAGTTTATCTACAAAGTGAAGTGCAGGACCACTTCCCTCCGACGCGCCCGGTGATGACAGAAG TGCATCTCGTGGGCGCGCTGAGGGCTGATGAAGTTTCGACAGGAAGGGCTCCCGAAGTTCAACCTCGCGCACTACTTGATGCTCCTGCGCGCACCACTGGCAGTGGTCTGAGGAGGAGCTCCTCGCGCTCAAGTAGATGTTCCACTTCGACGCGCGGTGTTGAAGGGGAGGCTGCCGGGCACTACGCTCTC

77▶ Y V K H P A D I P D Y F K L S F P E G F K W E R V M N Y E D G G V V T V T Q D S S L Q D G E F I Y K V K L R G T N F P S D G P V M Q K

PfIMI (1411) BspI (1566) RleAI (161)

1401 AAGACCATGGGCTGGGAGGCTCCTCCGAGCGGATGTACCCGAGGACGGTCCCTGAAGGGCAAGATCAAGTAGGGCTGAAGCTGAAGGACGCGGCACTACACCTCCGAGGTCAAGACCACCTACAAGGCCAAGAAGCCGTGCAGCTGCCCGGCCCTACATCGTCGACATCAAGTTGGACATCACTCCACAAA TTCGTGGTACCCGACCTCCGGAGGAGGCTCGCCTACATGGGGTCTTGCACGGGACTTCCCGTTCTAGTTCTACTCCGACTTCGACTTCTCTCGCGCGGTGAITGTGGAGGCTCCAGTTCTGGTGGATGTTCCGGTTCTTCGGGCACGTGCAGGGCCGGGATGTAGCAGCTGAGTTCAACCTGTAGTGGAGGGTGT

144▶ K T M G W E A S S E R M Y P E D G A L K G K I K M R L K L K D G G H Y T S E V K T T Y K A K K P V Q L P G A Y I V D I K L D I T S H N

Bsp120I (1686)

1601 CGAGGACTACACATCGTGAACAGTACGAACGCGCGGAGGGCCGCCACTCCACCGCGGCACTGGACGAGCTGTACAAGTCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTAGAGCTCGCTGATCAGCTCGACTGTGCTCTTCTAGTTGCCAGCCATCTGTGTTTGGCCCTCCCGGCTGCTTCTTGACCTG GCTCCTGATGTGTTAGCACTTTGTCATGCTTGGCGGGCTCCCGCGGTGAGGTGGCGCGGTACTCTGCTGCAGATGTTCAAGTCTCCCGGATTAAGATATCAGATGGAATTTACGATCTCGAGCGACTAGTCGGAGCTGACACGGAAGTCAACGGTCCGTAGACAACAAACGGGAGGGGGACCGGAAGGAACCTGGGAC

1▶ S R G P Y S I V S P K C

210▶ E D Y T I V E Q Y E R A E G R H S T G G M D E L Y K

1801 GAAGGTGCCACTCCCACTGCTCTTCTTAATAAAATGAGGAATTCATCGCATTTGTCTGAGTAGGTGTCACTTCTATTCTGGGGGTGGGTGGGGCAGGACAGCAAGGGGAGGATTTGGGAAGACAATAGCAGGATGCTGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGAAGAACCAGCTGGGGCTCTAGGGG CTTCACCGGTGAGGTGACAGGAAGGATTATTTTACTCTTTAACTGAGGTAAACAGACTCATCCACAGTAAGATAAGACCCCCACCCACCCCGTCTGCTGCTGCTCCCTCTCAACCTTCTGTTATCGTCCGTACAGCCCTACGCCACCGGAGATACCGAAGACTCCCGCTTTCTTGTGTGACCCCGAGATCCCC

2001 GTATCCCCACGCGCCCTGTAGCGCGCATTAAGCGCGCGGGTGTGGTGGTTACGCGCAGCGTGAACGCTTACACTTGCACGCGCCCTAGCGCGCCCTCCTTTCGCTTCTTCCCTTCTTCTGCGCACGTGCGCGGCTTTCCCGCTCAAGCTCTAAATCGGGGCACTCCCTTTAGGGTTCCGATTTAGTGTGTTACGGC CATAGGGGTGCGCGGACATCGCGCGTAAATTCGCGCGCCACACCAATGCGGCTGCGACTGCGGATGTGAACGCTGCGGGATGCGGGGAGGAAAGGAAAGGAAAGAGCGGTGCAAGCGCGGAAAGGGGAGTTCGAGATTTAGCCCGTAGGGAATCCCAAGGCTAAATACGAAATGCGG

DrallI (2242)

2201 ACCTCGACCCAAAAAATTTGATTAGGGTGTAGTTTACGTAGTGGGCAATCGCCCTGATAGACGGTTTTCGCCCTTTGACGTTGGAGTCCAGTCTCTTAAATAGTGGACTTGTGTTCAAACTGGAACAACACTCAACCTATCTCGGTCTATTTCTTTTGAATTTAAGGGATTTTGGGGATTTCGGCCTATTGGTTA TGGAGCTGGGGTTTTTTGAACATAATCCCACTACCAAGTGCATACCCGGTAGCGGGACTATCTGCGCAAAAGCGGGAATTCGAACCTCAGGTGCAAGAAATTTACCTGAGAACAAAGTTTGACCTTGTGTGAGTTGGGATAGAGCCAGATAAGAAAATTAATTTCCCTTAAACCCCTTAAAGCGGATAACCAAT

SexAI (2533)

2401 AAAAAAGAGCTGATTAAACAAAAATTTAACGCAATTAATTTCTGTGAATGTGTGTCAGTTAGGGTGTGGAAGTCCCCAGGCTCCCCAGCGAGGAGAAGTATGCAAGCATGCATCTCAATTAGTCAGCAACCAAGTATGCAAGCACTCAATCCCAACCTTTCAGGGTCCGAGGGGTCCGTCGCTCTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTCCACACTTTCAGGGTCCGAGGGGTCTGCTGCTCTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTCCACACTTTCAGGGTCCGAGGGGTCTGCTGCTCTCATACGTTTCGTACGTAGAGTTAATCAG

AvrII (2766) XmaI (2787) SmaI (2789)

2601 AGCAACCATAGTCCGCCCCCTAACTCCGCCATCCCGCCCCCTAACTCCGCCCTTCCGCCCATATGGCTGACTAATTTTTTTTTTATTTATGAGAGGCGAGGCGGCTCTGCTCTGAGCTATTCAGAAAGTGTGAGGAGGCTTTTTTGGAGGCTAGGCTTTTTCGAAAAGCTCCCGGAGCTTTGTA TCGTTGGTATCAGGCGGGGATTGAGCGGGTAGGGCGGGTCAAGCGGGTAAGAGCGGGTACCAGTGAATTAATAAAGTAAATGAGTCTCCCGCTCCCGCGGAGCAGGAGACTCGATAAGGTTCTTATCATCTCTCCGAAAACCTCCCGATCCGAAAACGTTTTTTCGAGGGCCCTCGAACAT

2801 TATCCATTTTCGATCTGATCAAGAGACAGGATGAGGATCGTTTCGATGATTGAACAAGATGGATTGCACGCAAGTTCTCCGCGCTTGGGTGGAGAGGCTATTTCGGCTATGACTGGGCACAACAGACAATCGGTGCTGATGCGCGCGTGTTCGGCTGTGACGCGAGGGGCGCCCGGTCTTTTGTTCAGAGC ATAGGTAAGGCTAGACTAGTTCTCTGCTTACTCTAGCAAGCGTACTAATCTGTTTCTTACCTTAACGTGCGTCAAGAGGCGGGGAAACCCACTCTCCGATAAGCGGATAGTACCCGCTGTGTTGTTAGCGTACAGTCCGCTCCCGCGGGCGCAAGAAAACAGTTCTCGG

1▶ M I E Q D G L H A G S P A A W E R L F G Y D W A Q Q T I G C S D A A V F R L S A Q G R P V L F V K T

Tth111I (3094)

3001 GACCTGTCCGCTGCTGAATGAATGACGAGGACGAGCGCGCTATCGTGGCTGGCCACGACGCGGCTTCTTGGCGAGCTGTGCTGCAGCTTGTCTACTGAAGCGGGAAGGACTGGCTGTATTGGCGAAGTCCGCGGGCAGGATCTCTGTCTATCTCACTTGTCTTCCCTGCGGAGAAAGTATCCATCATGGCTGA CTGGACAGGCAAGGACTTACTTTCAGCTGCTGCTCCGTGCGCGGATAGCACCGCGGTGCTGCCCGCAAGGAACCGGACTGACAGAGCTGCAACAGTCACTTCCGCTTCCCTGACCGACGATAACCCGCTTACGGGCCCGCTTACGAGGACAGTAGAGTGGAAACGAGGACGGCTCTTTCATAGGTAGTACCGACT

52▶ D L S G A L N E L Q D E A A R L S W L A T T G V P C A A V L D V V T E A G R D W L L L G E V P G Q D L L S S H L A P A E K V S I M A D

BspGI (3318) BssHII (3373)

3201 TGCAATGCGGCGGTGCATACGCTTGATCCGGCTACCTGCCAATTCGACACCAAGCAACATCGCATCGAGCGAGCAGTACTCGGATGGAAGCGGCTTGTGATGAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCGAACTGTTCGCCAGGCTCAAGGCGCGCATGCCGACGGCGAGGATCTCG ACGTACGCGCGAGCTATGCGAACTAGGCGGATGAGCGGGTAAGCTGGTGGTTCGTTTGTAGCGTAGCTCCTCGTGTGATGAGCTACTTCCGCGAGAACAGCTAGTCTACTAGACCTGCTTCTGATGTCGCCGAGCGGTCGGCTTTCGACGGGTCCGAGTTCCGCGCTAGCGGCTGCCGCTCTAGAGC

118▶ A M R R L H T L D P A T C P F D H Q A K H R I E R A R T R M E A G L V D Q D D L D E E H Q G L A P A E L F A R L K A R M P D G E D L

RsrII (3492)
3401 TCGTGACCCATGGCGATGCCTGCTTGC CGAATATCATGGTGGAAATGGCCGCTTTTCTGGATTACGACTGTGCGCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGTCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCCTCGTGTCTTACGGTATCGCCGCTCCGATTGCG
AGCACTGGGTACCGCTACGGAGCAACCGCTTATAGTACCACCTTTTACCGCGAAAGACCTAAGTAGCTGACACCGCGCGACCCACACCGCGCTGGCGATAGTCTGTATTCGCAACCGATGGGCATATAAACGATTTCTCGAACC CGCGCTTACCCGACTGGCGAAGGAGCACGAAATGCCATAGCGCGAGGGCTAAGC
185▶ V V T H G D A C L P N I M V E N G R F S G F I D C G R L G V A D R Y Q D I A L A T R D I A E E L G G E W A D R F L V L Y G I A A P D S

BstBI (3658)
3601 CAGCGCATCGCTTCTATCGCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTTCGAAATGACCGACCAAGCAGCGCCAACTGCCATCACGAGATTTCGATTCCACCGCGCCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCGGGACGCGGCTGGATGATCTCCAGCGCGGGGATCTCATGCTGGAG
GTCGCGTAGCGGAAGATAGCGGAAGAACTGCTCAAGAAGACTCGCCCTGAGACCCCAAGCTTTACTGGCTGGTTCGCTCGGGTTGGACGGTAGTGCTCTAAAGCTAAGGTGGCGGCGGAAGATACTTTTCAACCCGGAAGCCTTAGCAAAGGCCCTGCGCGGACCTACTAGGAGGTGCGGCCCTTAGAGTACGACCTC
252▶ Q R I A F Y R L L D E F F

SnaI (3945)
BstZ17I (3948)
3801 TTCTTCGCCCAACCCCACTTGTTTTATGTCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTTCAAAATAAAGCAATTTTTCCTACTGCACTTCTAGTTGTGGTTTGTGTCAAACTCATCAATGTATCTTATCATGTCTGTATACCGTCGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCTATAGTGTTTCC
AAGAAGCGGGTGGGTTGAACAAATAACGTCGAATATTACCAATGTTTATTTCTGTTATCGTAGTGTTTAAAGTGTTTATTTCTGTAATAAAAAAGTGACGTAAGATTCAACACCAACAGGTTTGAGTAGTTACATAGAAATAGTACAGACATATGGCAGCTGGAGATCGATCTCGAACCCGATTAGTACAGTATCGACAAAGG
4001 TGTGTGAAATTTGTTATCCGCTCACAATTCACACAACTACGAGCGCGAAGCATAAAGTGTAAAGCTTGGGGTGCCTAATGAGTGAGCTAACTACATTAATTTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCTGTCCAGCTGCAATTAATGAATCGGCCAACCGCGGGGAGAGCGGTTTTCGCTATTG
ACACACTTTTAAACAATAGCGAGTGTTAAAGTGTGTGTATGCTCGGCCCTTCTGATTTTACATTTTCGGACCCCAAGGATTACTACTCGATTGAGTGTAAATTAACGCAACGCGAGTGACGGGCGAAAGGTGACGCCCTTTGGACAGCACCGGTGACGTAATTACTTAGCCGTTGCGCGCCCTCTCCGCCAAACGCATAAC

BspLU11I (4327)
4201 GCGCTCTTCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTGCTTCCGGTTCGGCGAGCGGTATCAGCTCACTCAAAGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGAGGAAAGACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTGTCTGCGCTTTTTCATAGGCTC
CGCGGAGAAGCGAAGGAGCGAGTGACTGAGCGACGCCGAGCCAGCAAGCCGCTCGCCATAGTCGAGTGAGTTTCGCGCATTTATGCCAATAGGTGTCTTAGTCCCTATTGCGCTCTTTCTGTACACTCGTTTTTCGGTGTCTTTTCGGCGCAACGACCGCAAAAGGTATCCGAG
4401 CGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGTGGCGAAACCCGACAGGACTATAAAGATACCAGCGCTTTCCCGCTTGAAGCTCCCTCGTGGCTCTCTGTTTCCGACCTCGCCGTTTACCGGATACCTGTCCGCTTTTCTCCCTTCGGGAAGCGTGGCGCTTTTCTCAATGCTCACGCTGTAGGTA
GCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTTCAGTCTCCACCGCTTTGGGCTGTCTGATATTTCTATGGTTCGCAAGGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCTATGAGCAGCGCGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTTACGAGTGCACATCCAT
4601 TCTCAGTTTCGCTGAGGTGCTTTCGCTCCAAGCTGGGCTGTGTGTCAGCAACCCCGCTTCAGCCCGACCGCTGCGCTTATCCGGTAACCTATCGCTTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGTGTAACAGGATTTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGT
AGAGTCAAGCCACATCCAGCAAGCGAGGTTCGACCCGACACAGTGTCTGGGGGGCAAGTCGGGCTGCGGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCAATTCTGTGTGAATAGCGGTGACCTGCTCGGTGACCAATTGTCTTAATCGTCTCGCTCCATACATCCGCCACGATGCTCAAGAACTTCA
4801 GGTGGCTTAACACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAACAAACACCGCTGGTAGCGGTGGTTTTTTTGTGTGCAAGCAGCAGATTACCGCGAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTAGC
CCACCGGATTGATCGGATGTGATCTTCTGTCTATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGTTGGTGCGACCATCGCCACCAAAAAACAACCTTCGTGCTTAATGCGCTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAAGATGC
5001 GGGTCTGACGCTCAGTGAACGAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAAGGATCTTCACCTAGATCCTTTTAAATTAATAAATGAAGTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTAGGACACTATCTCAGCGATCTGTCTATTTCGTTTC
CCCAGACTGCGAGTCACCTTGCTTTTGAGTGCAATTCCTAAAAACGACTCTAATAGTTTTCCTAGAGTGATCTAGGAAAATTTAATTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACAGACTGTCAATGGTTACGAATTAGTCACTCCGTGGATAGAGTCTAGACAGATAAAGCAAG

286▶ W H K I L S A G I E A I Q R N R E
5201 ATCCATAGTTGCCTGACTCCCGCTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCACGCTCACCGGCTCCAGATTATCAGCAATAAACACGACGCGGAGGGCGAGCGCAGAAAGTGGTCTTGAACCTTTATCCGCTCCATCCAGTCTATTAAATTTGTT
TAGGTATCAACGGATGAGGGGCGAGCACATCTATTGATGCTATGCGCTCCGGAATGGTAGACCGGGGTCACGAGTTTACTATGGCGCTCTGGGTGCGAGTGGCGAGGTCTAAATAGTGTGTTATTGTTGGTGGTGGCGCTTCCCGCTCGCGCTTACCAGGACGTTGAATAGGCGAGGTAGGTGAGATAATTAAACA
269▶ D M T A Q S G T T Y I V V I R S P K G D P G L A A I I G R S G R E G A G S K D A I F W G A P L A S R L L P G A V K D A E M W D I L Q Q

PvuI (5590)
5401 GCCGGGAAGCTAGAGTAAGTAGTTTCGCGAGTTAATAGTTTGGCGCAACGTGTGTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCACTACGTCCTCCGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCTCTCGGTCTCCGATCGTTGTGTCAGA
CGGCCCTTCGATCTCATCTATCAAGCGGTCAATTATCAACCGCGTTGCAACAACGGTAACGATGTCGCTAGCACACAGTGCAGGACGACAAACCATACCGAAGTAAGTCAGGCGCAAGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACGTTTTTTTCGCGCAATCGAGGAAGCGAGGCTAGCAACAGTCT
202▶ R S A L T L L E G T L L K R L T T A M A V P M T T D R E D N P I A E N L E P E W R D L R T V H D G M N H L F A T L E K P G G I T T L

Scal (5700)
5601 AGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATTTCTTCTACTGTCTATGCCATCCGTAAGATGCTTTTCTGTACTGGTGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGGCCCGCGTCAATACGGGATAATACCGGCCCATAGCAGAACTTTAAA
TCATTCAACCGGCGTCACAATAGTGAGTACCAATACCGTGTGACGTAATTAAGAGAAATGACAGTACGGTAGGCATTTACGAAAAAGCACTGACCACTCATGAGTTGGTTTCAGTAAGACTCTTATCACATACGCGCTGGCTCAACGAGAGACGGGCCGAGTTATGCGCTATTATGGCGGGTGTATCGTCTTGAAATTT
135▶ L L N A A T N D S M T I A A S C L E R V T M G D T L H K E T V P S Y E V L D N Q S Y H I R R G L Q E Q G A D I R S L V A G C L L V K F
5801 AGTGCTCATCATTTGAAAAAGCTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGACCCCACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAAAGGCAAAATCCGCGAAAAAGGGAATAGGGCGACACGAAATGTTGAA
TCACGAGTAGTAACCTTTTGAAGAAGCCCGCTTTTGAGAGTTCTTAGAATGGCGACAACTCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAAATGAAAGTGGTCGCAAGACCCACTCGTTTTTGTCTCTCCGTTTACGGCGTTTTTTCCTTATTTCCGCTGTGCTTTACAACCT
69▶ T S M M P F R E E P R F S E L I K G S N L D L E I Y G V R A G L Q D E A D K V K V L T E P H A F V P L C F A A F F P I L A V R F H Q I

SspI (6024)
6001 TACTCATACTCTTCTTTTCAATATTATTGAAGCAATTATCAGGGTTATTGTCTCATGAGCGGATACATATTGTAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAAGTGCCACCTGACGTC
ATGAGTATGAGAAGGAAAAAGTTATAATACTTCGTAATAGTCCCAATAACAGAGTACTCGCTTATGTATAAATTTACATAAATCTTTTATTGTTTATCCCAAGGCGGTGTAAGGGGTTTTCACCGTGGAATGTCAG
2▶ S M