

BglII (12)

1 GACGGATCGGGAGATCTCCCCGATCCCCTATGGTGCACCTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAG
78 TATCTGCTCCCTGCTTGTGTGTTGGAGGTGCTGAGTAGTGCGCGAGCAAATTTAAGCTACAACAAGGCAAGGCTT
155 GACCGACAATTGCATGAAGAATCTGCTTAGGGTTAGGCGTTTTGCGCTGCTTCGCGATGTACGGGCCAGATATACGC

232 GTTGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTC

309 CGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCGCCAACGACCCCCGCCATTGACGTCAATAATGAC

386 GTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACT

463 TGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCAT

540 TATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGT

617 GATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTC

694 ACGTCAATGGGAGTTTTGTTTTGGCACAAAATCAACGGGACTTTCAAAATGTCGTAACAACCTCCGCCCATTCGACG

SacI (818)

771 CAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGCTAACTAGAGAACCCACTGCTTA

HindIII (889)

848 CTGGCTTATCGAAATTAATACGACTCACTATAGGGAGACCCAAGCTTGCCACC ATG GAC TAC AAG GAC GAC
1 Met Asp Tyr Lys Asp Asp

BamHI (949)

EcoRI (980)

919 GAC GAT AAG CCA AAG AAA AAG CGA AAG GTC GGATCCACTAGTAACGGCCCGCAGTGTGCTGGAATTC
7 Asp Asp Lys Pro Lys Lys Lys Arg Lys Val

XhoI (1013)

Apal (1035)

EcoRV (992)

NotI (1007)

XbaI (1025)

986 TGCAGATATCCATCACACTGGCGGCCGCTCGAGCATGCATCTAGAGGGCCCTATTCTATAGTGTACCTAAATGCTA

SacI (1067)

1063 GAGCTCGCTGATCAGCCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGTTTGGCCCTCCCCCGTGCCTTCCTTG

1140 ACCCTGGAAGGTGCCACTCCCCTGTCCTTTCCTAATAAAAATGAGGAAATTGCATCGCATTGTCTGAGTAGGTGTCA

1217 TTCTATTCTGGGGGGTGGGGTGGGGCAGGACAGCAAGGGGGAGGATTGGGAAGACAATAGCAGGCATGCTGGGGATG

1294 CGGTGGGCTCTATGGCTTCTGAGGCGGAAAGAACCAGCTGGGGCTCTAGGGGGTATCCCCACGCGCCCTGTAGCGGC

1371 GCATTAAGCGCGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTT

1448 CGCTTCTTCCCTTCCCTTCTCGCCACGTTCCGCGGCTTCCCGGTCAAGCTCTAAATCGGGGCATCCCTTTAGGGT

1525 TCCGATTTAGTGCTTACGGCACCTCGACCCAAAAAATTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCC

1602 TGATAGACGGTTTTTTCGCCCTTTCGAGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCAAAACCTGGAACAAC

1679 ACTCAACCCTATCTCGGTCTATTCTTTTATTATAAGGGATTTTGGGGATTTTCGGCCTATTGGTTAAAAAATGAGC

1756 TGATTTAACAAAATTTAACGCAATTAATTCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAGTCCCCAGGCTCCC

1833 CAGGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAGTCCCCAGGCTCCCCAGC

1910 AGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCTAACTCCGCCCATCCCCCCCC

1987 TAACTCCGCCAGTTCGCCCATTTCTCCGCCCATGGCTGACTAATTTTTTTTTATTTATGCAGAGGCCGAGGCCGCC

SmaI (2134)

2064 TCTGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTCCCCGGGAGC

2141 TTGTATATCCATTTTCGGATCTGATCAAGAGACAGGATGAGGATCGTTTCGCATGATTGAACAAGATGGATTGCACG

2218 CAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCC

Narl (2321)

2295 GCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCTGAATGAACT
2372 GCAGGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGCTCACTG
2449 AAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAG
2526 AAAGTATCCATCATGGCTGATGCAATGCGGGCGGCTGCATACGCTTGATCCGGCTACCTGCCATTGACCACCAAGC
2603 GAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAAGAGCATC
2680 AGGGGCTCGCGCCAGCCGAAGTGTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCAT
2757 GCGGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTTCGACTGTGGCCGGCTGGGTGT
2834 GCGGACCCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCT
2911 TCCTCGTGCTTACGGTATCGCCGCTCCCGATTGCGAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTCTTCTGA
2988 GCGGGACTCTGGGGTTCGAAATGACCGACCAAGCGACGCCAACCTGCCATCACGAGATTTGATTCCACCGCCGCC
3065 TTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCT

3142 GGAGTTCTTCGCCACCCCAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTCA

3219 CAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTATCATGTCTGTATA

Sall (3298)

3296 CCGTCGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGAAATTGTTATCCGCTCACAAAT
3373 TCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTG
3450 CGTTGCGCTCACTGCCCCTTTCCAGTCGGGAAACCTGTGCTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGG
3527 AGAGGCGGTTTTCGCTATTGGGCGCTCTTCCGCTTCTCCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCTGCGGGC
3604 AGCGGTATCAGCTCAAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAATCATGTGAG
3681 CAAAAGGCCAGAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGAC
3758 GAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCC
3835 TGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCCTGCCGTTACCGGATACCTGTCCGCCTTCTCCCTTCGGGAA
3912 GCGTGGCGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCCGCTCCAAGCTGGGCTGTGTG
3989 CACGAACCCCCGTTACGCCCCGACCCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGA
4066 CTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTCTTGA
4143 AGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGA
4220 AAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCAGAT
4297 TACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGGAAACGAAAAT
4374 CACGTTAAGGGATTTTGGTTCATGAGATTATCAAAAAGGATCTTACCTAGATCCTTTTAAATTAATAAAGTATTT
4451 AAATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGC
4528 GATCTGTCTATTTGTTTCATCCATAGTTGCCTGACTCCCCGCTGCTGTAGATAACTACGATACGGGAGGGCTTACCAT
4605 CTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTACCCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCC
4682 GGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAG
4759 AGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTACGCTCGTCGT
4836 TTGGTATGGCTTCATTCAGCTCCGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTGTGCAAAAAAGCG
4913 GTTAGCTCCTTCGGTCTCCGATCGTTGTCAGAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACT
4990 GCATAATTCTCTTACTGTGCTGATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGGTACTCAACCAAGTCATTCTGAG
5067 AATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAATTTA
5144 AAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAATCTCAAGGATCTTACCGCTGTTGAGATCCAGTTTCGAT
5221 GTAACCCACTCGTGACCCAACTGATCTTACGATCTTTTACTTTACCAGCGTTTCTGGGTGAGCAAAAAACAGGAA
5298 GGCAAAATGCCGCAAAAAAGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCTTTTTCAATATTAT
5375 TGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAACAAATAGGGGT

Sall (5486)

5452 TCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTC