

Sequences of constructs obtained through synthesis

pEV Sequence (681 bp)

CTTGTTACTTAGCGGCAGTGTGTGCTTGCGTGTGGAGTATAGTTAACTGGTAATACGACTCACTAAAAAT
TAATACGACTCACTATAGGGCCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATACA
TATGATGATGGGACGTATTTATAGCGGCAACCTGAACGATTACAAAGATGCGGTAGCGCGTCTACAGGA
AGACCATGATGTGACCGTGAAGATGGAGTCATTCAGCTACGAAAACCCAGCGAAGATGTGCAGGTCATG
CGGTGAGGTTCTCAGTGTGTTACACGCTCCGGGCATCTGGTGGCATCCAGAACCTTCGAGCATAGCGA
CAGCGATGTACAAATCAACGCGCAGACTGCATGGCTCCGTAAGGTTACAGCGAATTGAAACACTGGAA
GTAAGTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTTGTGAATGAATGATAATTA
ATACGACTCACTATAGGGAGACCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATAC
ATCGGCCGCGGGCCCCTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGAGGAGG
TACACACCATGATGTACTTAATGCCATTACTCATCGTCATTGTAGGATGCCTTGCGCTCC

pALP (2124 bp)

CTTGTTACTTAGCGGCAGTGTGTGCTTGCGTGTGGAGTATAGTTAACTGGTAATACGACTCACTAAAAAT
TAATACGACTCACTATAGGGCCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATACA
TATGATGATGGGACGTATTTATAGCGGCAACCTGAACGATTACAAAGATGCGGTAGCGCGTCTACAGGA
AGACCATGATGTGACCGTGAAGATGGAGTCATTCAGCTACGAAAACCCAGCGAAGATGTGCAGGTCATG
CGGTGAGGTTCTCAGTGTGTTACACGCTCCGGGCATCTGGTGGCATCCAGAACCTTCGAGCATAGCGA
CAGCGATGTACAAATCAACGCGCAGACTGCATGGCTCCGTAAGGTTACAGCGAATTGAAACACTGGAA
GTAAGTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTTGTGAATGAATGATAATTA
ATACGACTCACTATAGGGAGACCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATAC
ATCGTGAAACAAAGCACTATTGCACTGGCACTCTTACCGTTACTGTTTACCCCTGTGACAAAAGCCCGG
ACACCAGAAATGCCTGTTCTGGAAAACCGGGCTGCTCAGGGCGATATTACTGCACCCGGCGGGTGCTCGC
CGTTTTAACGGGTGATCAGACTGCCGCTCTGCGTGATTCTCTTAGCGATAAACCTGCAAAAAATATTATT
TTGCTGATTGGCGATGGGATGGGGGACTCGGAAATTACTGCCGCACGTAATTATGCCGAAGGTGCGGGC
GGCTTTTTTTAAAGGTATAGATGCCTTACCGCTTACCGGGCAATACACTCACTATGCGCTGAATAAAAAA
ACCGGCAAACCGGACTACGTCACCGACTCGGCTGCATCAGCAACCGCCTGGTCAACCGGTGTCAAACC
TATAACGGCGCGCTGGGCGTCGATATTACGAAAAGATCACCCAACGATTCTGGAAATGGCAAAGCC
GCAGGTCTGGCGACCGGTAACGTTTCTACCGCAGAGTTGCAGGATGCCACGCCCGCTGCGCTGGTGGCA
CATGTGACCTCGCGCAAATGCTACGGTCCGAGCGCGACCAAGTAAAAATGTCCGGGTAAACGCTCTGGAA
AAAGGCGGAAAAGGATCGATTACCGAACAGCTGCTTAACGCTCGTGCCGACGTTACGCTTGCGGGCGGC
GCAAAAACCTTTGCTGAAACGGCAACCGCTGGTGAATGGCAGGGAAAAACGCTGCGTGAACAGGCACAG
GCGCGTGGTTATCAGTTGGTGAGCGATGCTGCCTCACTGAATTCGGTGACGGAAGCGAATCAGCAAAAA
CCCCTGCTTGGCCTGTTTGCTGACGGCAATATGCCAGTGCGCTGGCTAGGACCGAAAGCAACGTACCAT
GGCAATATCGATAAGCCCGCAGTCACCTGTACGCCAAATCCGCAACGTAATGACAGTGTACCAACCCTG
GCGCAGATGACCGACAAAGCCATTGAATTGTTGAGTAAAAATGAGAAAGGCTTTTTCTCTGCAAGTTGAA
GGTGCGTCAATCGATAAACAGGATCATGCTGCGAATCCTTGTGGGCAAATTGGCGAGACGGTCGATCTC
GATGAAGCCGTACAACGGGCGCTGGAATTCGCTAAAAAGGAGGGTAACACGCTGGTCATAGTCACCGCT
GATCACGCCACGCCAGCCAGATTGTTGCGCCGGATACCAAAGCTCCGGGCCTCACCCAGGCGCTAAAT
ACCAAAGATGGCGCAGTGATGGTGATGAGTTACGGGAACCTCCGAAGAGGATTACAAAGAACATACCGGC
AGTCAGTTGCGTATTGCGGCGTATGGCCCGCATGCCGCCAATGTTGTTGGACTGACCGACCAGACCGAT
CTCTTCTACACCATGAAAGCCGCTCTGGGGCTGAAAGGTAGTGGACACCATCACCATCACCATTAAGGC
CGCGGGCCCCCTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGAGGAGGTACACA
CCATGATGTACTTAATGCCATTACTCATCGTCATTGTAGGATGCCTTGCGCTCC

pALP* (ALP D153 D330N) (2124 bp)

CTTGTTACTTAGCGGCAGTGTGTGCTTGCGTGTGGAGTATAGTTAACTGGTAATACGACTCACTAAAAT
TAATACGACTCACTATAGGGCCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATACA
TATGATGATGGGACGTATTTATAGCGGCAACCTGAACGATTACAAAGATGCGGTAGCGCGTCTACAGGA
AGACCATGATGTGACCGTGAAGATGGAGTCATTACGCTACGAAAACCCAGCGAAGATGTGCAGGTCATG
CGGTGAGGTTCTCAGTGTGTTACACGCTCCGGGCATCTGGTGGCATCCAGAACCTTCGAGCATAGCGA
CAGCGATGTACAAATCAACGCGCAGACTGCATGGCTCCGTAAGGTTACAGCGAATTGAAACACTGGAA
GTAAGTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGTGAATGAATGATAATTA
ATACGACTCACTATAGGGAGACCACAACGGTTTCCAATAATTTTGTTTAACTTTAAGAAGGAGATATAC
ATCGTGAAACAAAGCACTATTGCACTGGCACTCTTACCGTTACTGTTTACCCCTGTGACAAAAGCCCGG
ACACCAGAAATGCCTGTTCTGGAAAACCGGGCTGCTCAGGGCGATATTACTGCACCCGGCGGGTGCTCGC
CGTTTAAACGGGTGATCAGACTGCCGCTCTGCGTGATTCTCTTAGCGATAAACCTGCAAAAAATATTATT
TTGCTGATTGGCGATGGGATGGGGGACTCGGAAATTACTGCCGCACGTAATTATGCCGAAGGTGCGGGC
GGCTTTTTTAAAGGTATAGATGCCTTACCGCTTACCGGGCAATACACTCACTATGCGCTGAATAAAAAA
ACCGGCAAACCGGACTACGTCACCGACTCGGCTGCATCAGCAACCGCTGGTCAACCGGTGTCAAACCC
TATAACGGCGCGCTGGGCGTCGATATTCACGAAAAAGATCACCCAACGATTCTGGAAATGGCAAAGCC
GCAGGTCTGGCGACCGGTAACGTTTCTACCGCAGAGTTGCAGGGTGCCACGCCCGCTGCGCTGGTGGCA
CATGTGACCTCGCGCAAATGCTACGGTCCGAGCGCGACCAGTGAAAAATGTCCGGGTAAACGCTCTGGAA
AAAGGCGGAAAAGGATCGATTACCGAACAGCTGCTTAACGCTCGTGCCGACGTTACGCTTGGCGGCGGC
GCAAAAACCTTTGCTGAAACGGCAACCGCTGGTGAATGGCAGGGAAAAACGCTGCGTGAACAGGCACAG
GCGCGTGGTATCAGTTGGTGAGCGATGCTGCCTCACTGAATTCGGTGACGGAAGCGAATCAGCAAAAA
CCCCTGCTTGGCCTGTTTGCTGACGGCAATATGCCAGTGCGCTGGCTAGGACCGAAAGCAACGTACCAT
GGCAATATCGATAAGCCCGCAGTCACCTGTACGCCAAATCCGCAACGTAATGACAGTGTACCAACCCTG
GCGCAGATGACCGACAAAGCCATTGAATTGTTGAGTAAAAATGAGAAAGGCTTTTTCTCTGCAAGTTGAA
GGTGCGTCAATCGATAAACAGAATCATGCTGCGAATCCTTGTGGGCAAATTGGCGAGACGGTCGATCTC
GATGAAGCCGTACAACGGGCGCTGGAATTCGCTAAAAAGGAGGGTAACACGCTGGTCATAGTCACCGCT
GATCACGCCCACGCCAGCCAGATTGTTGCGCCGGATACCAAAGCTCCGGGCCTCACCCAGGCGCTAAAT
ACCAAAGATGGCGCAGTGATGGTGATGAGTTACGGGAACCTCCGAAGAGGATTACAAAGAACATACCGGC
AGTCAGTTGCGTATTGCGGCGTATGGCCCGCATGCCGCCAATGTTGTTGGACTGACCGACCAGACCGAT
CTCTTCTACACCATGAAAGCCGCTCTGGGGCTGAAAGGTAGTGGACACCATCACCATCACCATTAAGGC
CGCGGGCCCCCTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTTGAGGAGGTACACA
CCATGATGTACTTAATGCCATTACTCATCGTCATTGTAGGATGCCTTGCGCTCC