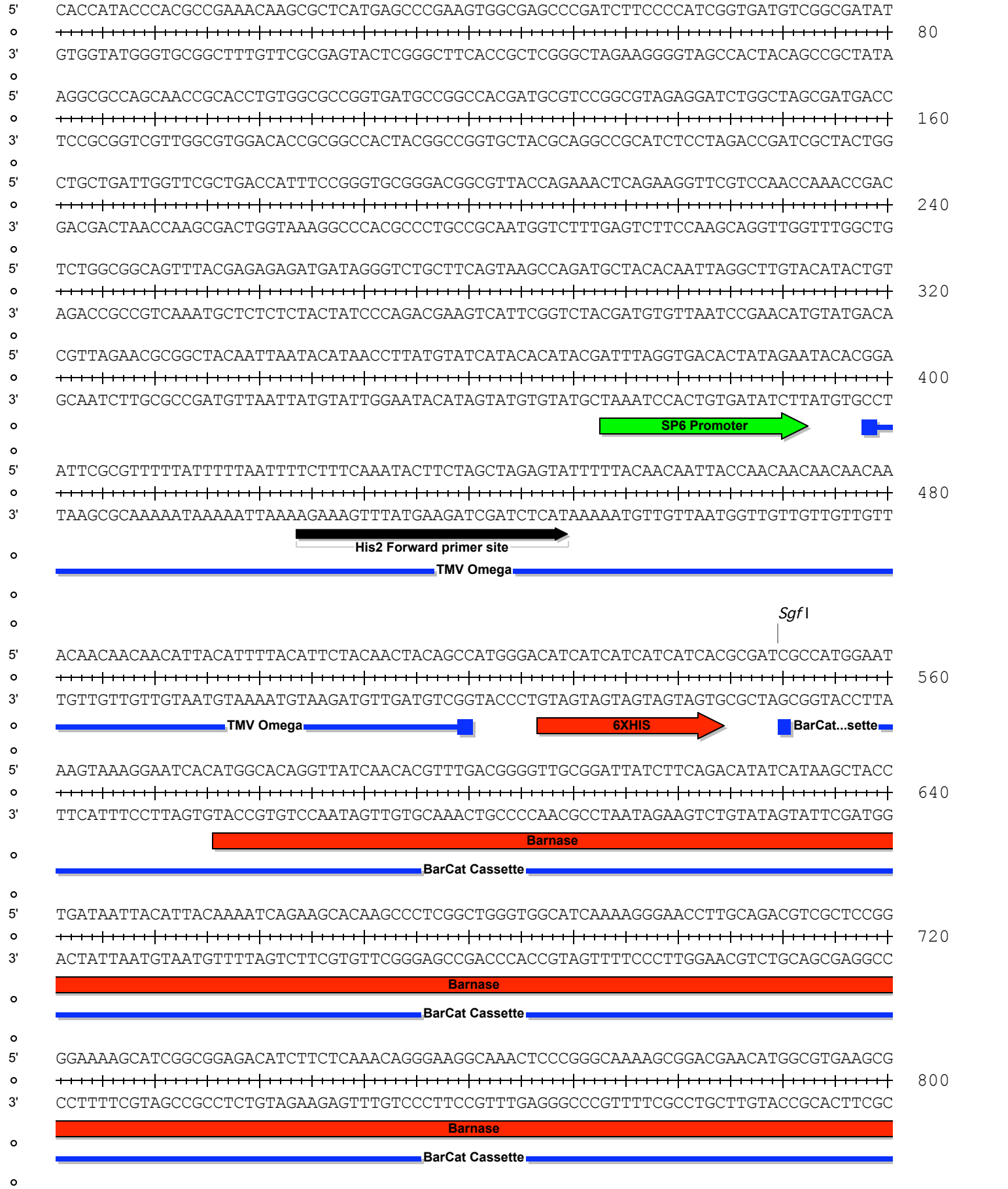
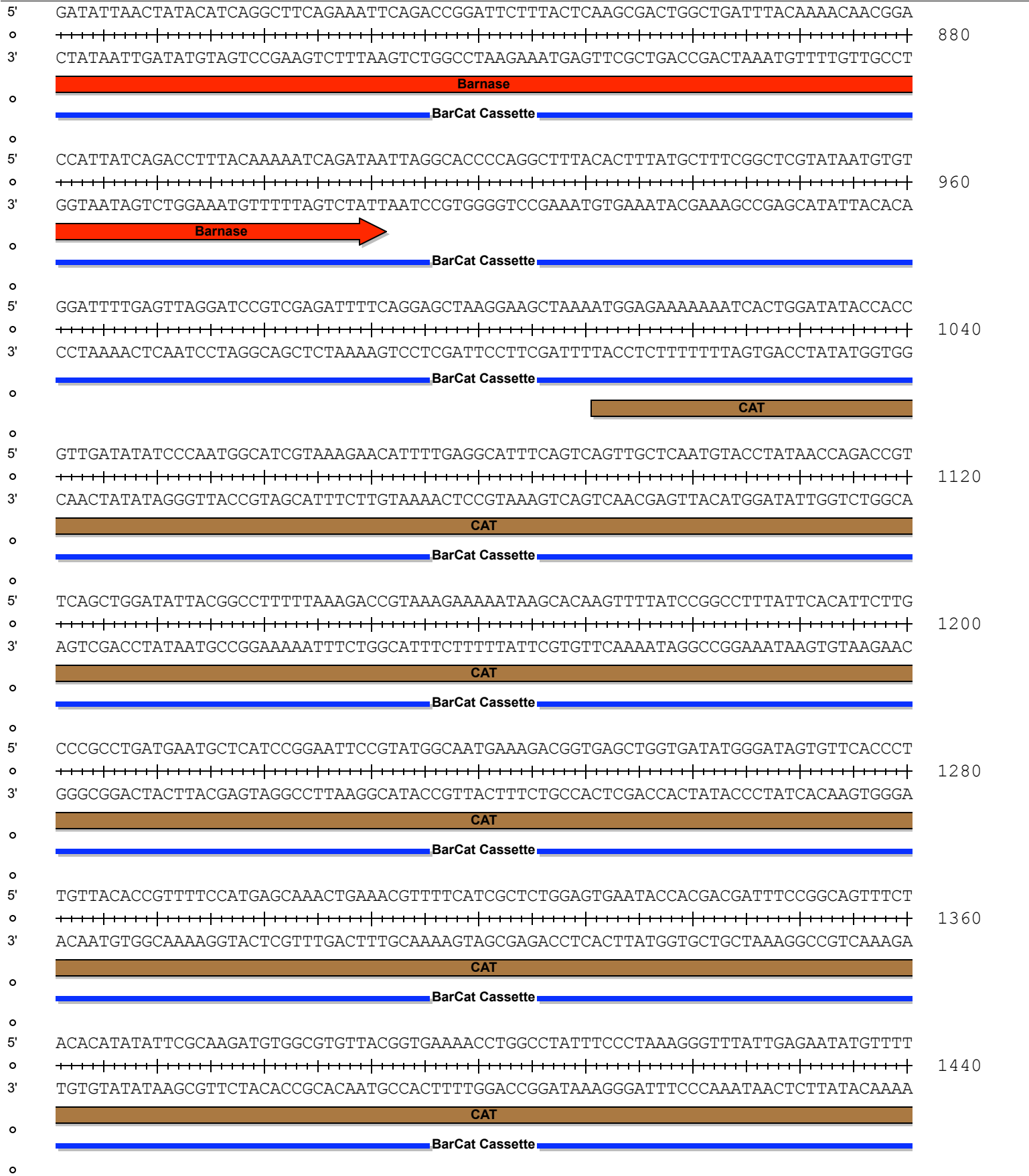


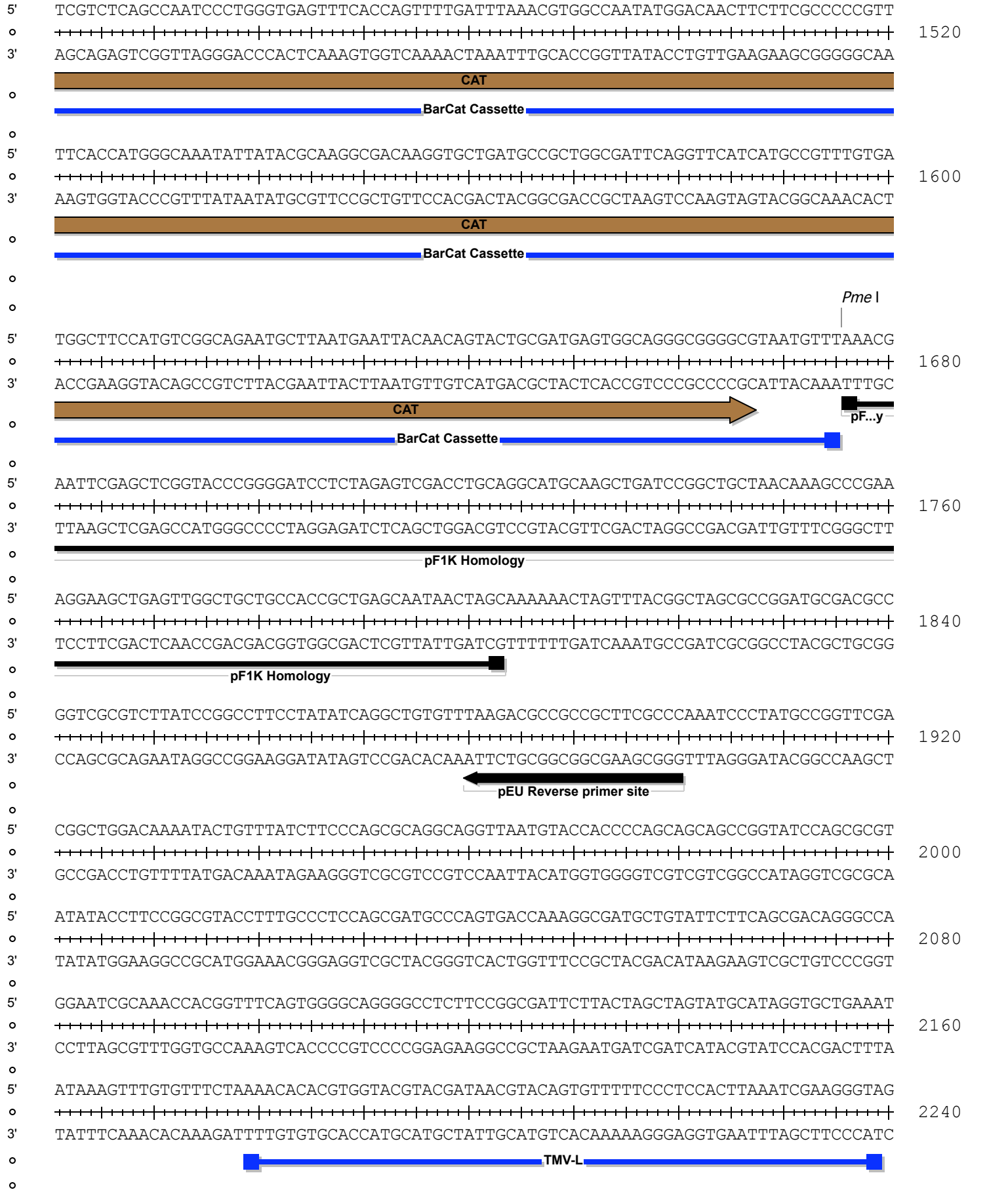
pEU-His-FV



pEU-His-FV



pEU-His-FV



pEU-His-FV

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5'   TGTCTTGGAGCGCGCGAGTAAACATATATGGTTCATATATGTCCGTAGGCACGTAAAAAAGCGAGGGATTTCGAATTCC
o   ++++++
3'   ACAGAACCTCGCGCGCCTCATTTGTATATACCAAGTATATACAGGCATCCGTGCATTTTTTTTCGCTCCCTAAGCTTAAGG
o
5'   CCCGGAACCCCGGTTGGGGCCACGCCTCGATCGAGCAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAGCTTTCC
o   ++++++
3'   GGGCCTTGGGGGCCAACCCCGGGTGCAGGCTAGCTCGTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTCGAAAGG
o
5'   CGCGGCCAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATAC
o   ++++++
3'   GCGCCGGTTCGAACCGCATTAGTACCAGTATCGACAAAGGACACACTTTAACAATAGGCGAGTGTTAAGGTGTGTTGTATG
o
5'   GAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCC
o   ++++++
3'   CTCGGCCTTCGTATTTTCATATTTTCGGACCCACGGATTACTCACTCGATTGAGTGTAATTAACGCAACGCGAGTGACGGG
o
5'   GCTTTCCAGTCGGGAAACCTGTCTGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGG
o   ++++++
3'   CGAAAGGTCAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGCCGGTTGCGCGCCCTCTCCGCCAAACGCATAACC
o
5'   GCGCTCTTCCGCTTCCCTCACTCACTGACTCGCTGCGCTCGGTTCGCTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGG
o   ++++++
3'   CGCGAGAAGGCGAAGGAGTGAGTGACTGAGCGACGCGAGCCAGCGAGCCGACGCCGCTCGCCATAGTCGAGTGAGTTTCC
o
5'   CGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAAC
o   ++++++
3'   GCCATTATGCCAATAGGTGTCTTAGTCCCTATTGCGTCCTTTCTTGTACACTCGTTTTTCCGGTCGTTTTCCGGTCCTTG
o
5'   CGTAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAATCGACGCTCAAGTCA
o   ++++++
3'   GCATTTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCAGT
o
5'   GAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGA
o   ++++++
3'   CTCCACCGCTTTGGGCTGTCCTGATATTTCTATGGTCCGCAAAGGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCT
o
5'   CCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTAT
o   ++++++
3'   GGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTATCGAGTGCGACATCCATA
o
5'   CTCAGTTCGGTGTAGGTGCTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTTCAGCCCGACCGCTGCGCCTTATC
o   ++++++
3'   GAGTCAAGCCACATCCAGCAAGCGAGGTTTCGACCCGACACACGTGCTTGGGGGGCAAGTCGGGCTGGCGACGCGGAATAG
o
5'   CGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCA
o   ++++++
3'   GCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTTGTCCTAATCGT
o
5'   GAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGT
o   ++++++
3'   CTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTACCACCGGATTGATGCCGATGTGATCTTCTTGTCATAAACCA
o
5'   ATCTGCGCTCTGCTGAAGCCAGTTACCTTCGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAG
o   ++++++
3'   TAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTGTTGGTGGCGACCATC
o

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5'	CGGTGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGG	
o	+++++	3440
3'	GCCACCAAAAAACAAACGTTTCGTCTAATGCGCGTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGATGCC	
o		
5'	GGTCTGACGCTCAGTGGAACGAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC	
o	+++++	3520
3'	CCAGACTGCGAGTCACCTTGCTTTGAGTGCAATTCCCTAAAACCAGTACTCTAATAGTTTTCTAGAAAGTGGATCTAG	
o		
5'	CTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAAT	
o	+++++	3600
3'	GAAAATTTAATTTTACTTCAAATTTAGTTAGATTTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAATTA	
o		
o		
5'	CAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGA	
o	+++++	3680
3'	GTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGCAGCACATCTATTGATGCT	
o		
o		
5'	TACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCA	
o	+++++	3760
3'	ATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGTCTAAATAGTCGT	
o		
o		
5'	ATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTG	
o	+++++	3840
3'	TATTTGGTCGGTCGGCCTTCCCGGCTCGCGTCTTCACCAGGACGTTGAAATAGGCGGAGGTAGGTACAGATAATTAACAAC	
o		
o		
5'	CCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCAC	
o	+++++	3920
3'	GGCCCTTCGATCTCATTCAAGCGGTCAATTATCAAACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTG	
o		
o		
5'	GCTCGTCGTTTGGTATGGCTTCATTTCAGCTCCGGTTCCTAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAA	
o	+++++	4000
3'	CGAGCAGCAAACCATAACGAAGTAAGTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGTACAACACGTTT	
o		
o		
5'	AAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGC	
o	+++++	4080
3'	TTTCGCCAATCGAGGAAGCCAGGAGGCTAGCAACAGTCTTCATTCAACCGGCGTCACAATAGTGAGTACCAATACCGTCG	
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o		
5'	ACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAG	
o	+++++	4160
3'	TGACGTATTAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTCAGTAAGACTC	
o		
o		
5'	AATAGCGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAA	
o	+++++	4240
3'	TTATCGCATACGCCGCTGGCTCAACGAGAACGGGCGCAGTTATGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTT	
o		
o		

pEU-His-FV

5'	GTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACCTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACC	
o	+++++	4320
3'	CACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACAACCTCTAGGTCAAGCTACATTGG	
o	Amp Resistance	
o		
5'	CACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATG	
o	+++++	4400
3'	GTGAGCACGTGGGTTGACTAGAAAGTCGTAGAAAATGAAAGTGGTCGAAAGACCCACTCGTTTTTGTCTTCCGTTTTAC	
o	Amp Resistance	
o		
5'	CCGCAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTAT	
o	+++++	4480
3'	GGCGTTTTTCCCTTATTCCCGCTGTGCCTTTACAACCTATGAGTATGAGAAGGAAAAGTTATAATAACTTCGTAAATA	
o	Amp Resistance	
o		
5'	CAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCGCGCACATTTCC	
o	+++++	4560
3'	GTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAATCTTTTTATTGTATTATCCCCAAGGCGCGTGTAAAGG	
o		
5'	CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCT	
o	+++++	4640
3'	GGCTTTTACGGTGGACTGCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTATCCGCATAGTGCTCCGGGA	
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5'	TTCGTCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTTCACAGCTTGTCTGTAA	
o	+++++	4720
3'	AAGCAGAGCGCGCAAAGCCACTACTGCCACTTTTGGAGACTGTGTACGTCGAGGGCCTCTGCCAGTGTCGAACAGACATT	
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5'	GCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCTGGCTTAACTATGCGGC	
o	+++++	4800
3'	CGCCTACGGCCCTCGTCTGTTTCGGGCAGTCCCGCGCAGTCGCCCACAACCGCCACAGCCCCGACCGAATTGATACGCCG	
o		
5'	ATCAGAGCAGATTGTACTGAGAGTGCACCATTCGACGCTCTCCCTTATGCGACTCCTGCATTAGGAAGCAGCCCAGTAGT	
o	+++++	4880
3'	TAGTCTCGTCTAACATGACTCTCACGTGGTAAGCTGCGAGAGGGAATACGCTGAGGACGTAATCCTTCGTGCGGTCATCA	
o		
5'	AGGTTGAGGCCGTTGAGCACCGCCCGCAAGGAATGGTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGG	
o	+++++	4960
3'	TCCAACCTCCGGCAACTCGTGGCGGCGGCGTTTCTTACCACGTACGTTCTCTACCGCGGGTTGTCAGGGGGCCGGTGCCC	
o		
5'	GCCTGC	
o	+++++	4966
3'	CGGACG	
o		