

pHTS-AP1 Molecule Information

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Molecule Features

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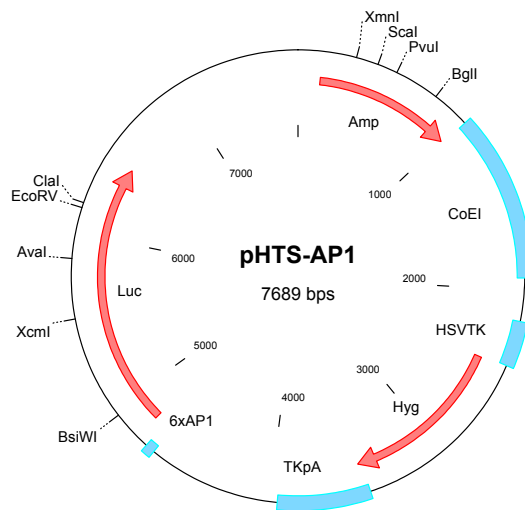
[Nucleotide Sequence](#)

[Restriction Enzyme List](#)

Molecule Features:

Features	Start	End
Ampicillin Resistance Gene	137	997
ColEI Replication Origin	1012	1930
HSV-TK Promoter	2167	2416
Hygromycin Resistance Gene	2430	3467
TK Polyadenylation Signal	3445	3957
Luciferase Gene	4809	6461
6 x AP1 Enhancer Element	4688	4741

Vector Map



Nucleotide Sequence of pHTS-AP1

1 GACGTCAGGT GGCAC TTTTC GGGGAAATGT GCGCGGAACC CCTATTTGTT TATTTTTCTA
61 AATACATTCA AATATGTATC CGCTCATGAG ACAATAACCC TGATAAATGC TTCAATAATA
121 TTGAAAAAGG AAGAGTATGA GTATTCAACA TTTCCGTGTC GCCCTTATTC CCTTTTTTGC
181 GGCATTTTGC CTTCTGTTT TTGCTCACCC AGAAACGCTG GTGAAAGTAA AAGATGCTGA
241 AGATCAGTTG GGTGCACGAG TGGGTTACAT CGAACTGGAT CTCAACAGCG GTAAGATCCT
301 TGAGAGTTTT CGCCCCGAAG AACGTTTTCC AATGATGAGC ACTTTTAAAG TTCTGCTATG
361 TGGCGCGGTA TTATCCCGTA TTGACGCCGG GCAAGAGCAA CTCGGTGCCT GCATACACTA
421 TTCTCAGAAT GACTTGGTTG AGTACTCACC AGTCACAGAA AAGCATCTTA CGGATGGCAT
481 GACAGTAAGA GAATTATGCA GTGCTGCCAT AACCATGAGT GATAACACTG CGGCCAACTT
541 ACTTCTGACA ACGATCGGAG GACCGAAGGA GCTAACCGCT TTTTTCACA ACATGGGGGA
601 TCATGTAAC CGCCTTGATC GTTGGGAACC GGAGCTGAAT GAAGCCATAC CAAACGACGA
661 GCGTGACACC ACGATGCCTG TAGCAATGGC AACAACTTG CGCAAATAT TAACTGGCGA
721 ACTACTTACT CTAGCTTCCC GGCAACAATT AATAGACTGG ATGGAGGCGG ATAAAGTTGC
781 AGGACCATT CTGCGCTCGG CCCTCCCGC TGGCTGGTTT ATTGCTGATA AATCTGGAGC
841 CCGTGAGCGT GGGTCTCGCG GTATCATTGC AGCACTGGGG CCAGATGGTA AGCCCTCCCG
901 TATCGTAGTT ATCTACACGA CGGGGAGTCA GGCAACTATG GATGAACGAA ATAGACAGAT
961 CGCTGAGATA GGTGCCTCAC TGATTAAGCA TTGGTAACTG TCAGACCAAG TTTACTCATA
1021 TATACTTTAG ATTGATTTAA AACTTCATTT TTAATTTAAA AGGATCTAGG TGAAGATCCT
1081 TTTTGATAAT CTCATGACCA AAATCCCTTA ACGTGAGTTT TCGTTCCTACT GAGCGTCAGA
1141 CCCCCTAGAA AAGATCAAAG GATCTTCTTG AGATCCTTTT TTTCTGCGCG TAATCTGCTG
1201 CTTGCAAACA AAAAAACCAC CGCTACCAGC GGTGGTTTGT TTGCCGGATC AAGAGCTACC
1261 AACTCTTTTT CCGAAGGTAA CTGGCTTCAG CAGAGCGCAG ATACCAAATA CTGTCTTCT
1321 AGTGTAGCCG TAGTTAGGCC ACCACTTCAA GAACTCTGTA GCACCGCCTA CATACTCGC
1381 TCTGCTAATC CTGTTACCAG TGGCTGCTGC CAGTGGCGAT AAGTCGTGTC TTACCGGGTT
1441 GGACTCAAGA CGATAGTTAC CGGATAAGGC GCAGCGGTCG GGCTGAACGG GGGGTTCTGTG
1501 CACACAGCCC AGCTTGGAGC GAACGACCTA CACCGAACTG AGATACCTAC AGCGTGAGCA
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1861 CTTTGAGTGC TGATACCGCT CGCCGACGCC GAACGACCGA GCGCAAGTCA GCGACGAGG
1921 AAGCGGAAGA GCGCCTGATG CCGTATTTTC TCCTTACGCA TCTGTGCGGT ATTTACACCC
1981 GCATACGAAC GCCAGCAAGA CGTAGCCAG CGCGTCGGCC CCGAGATGCG CCGCGTGCAG
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2161 CGCCGGGCTG CTTTATCCCC GTGGCCCGTT GCTCGCGTTT GCTGGCGGTG TCCCCGGAAG
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2341 TTAAGGTGAC GCGTGTGGCC TCGAACACCG AGCGACCCTG CAGCGACCCG CTTAACAGCG
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2461 TCGAGAAGTT TCTGATCGAA AAGTTCGACA GCGTCTCCGA CCTGATGCAG CTCTCGGAGG
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3361 GCAGAAGCGC GGCCGTCTGG ACCGATGGCT GTGTAGAAGT ACTCGCCGAT AGTGGAACC
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4861 AGGATGGAAC CGCTGGAGAG CAACTGCATA AGGCTATGAA GAGATACGCC CTGGTTCCTG
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5641 AGGATTACAA AATTCAAAGT GCGTTGCTAG TACCAACCCT ATTTTCATT TTCGCCAAAA
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5941 CCGGAAAAAC GCTGGGCGTT AATCAGAGAG GCGAATTATG TGTCAGAGGA CCTATGATTA
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6541 TGTGGTGTGA CATAATTGGA CAAACTACCT ACAGAGATTT AAAGCTCTAA GGTAAATATA
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6661 CCAACCTATG GAACTTATGA ATGGGAGCAG TGGTGGAAATG CCTTTAATGA GGAAAACCTG
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6781 ACTCTCAAAA GAAGAGAAAAG GTAGAGACCC AAGGACTTTC CTTCAGAATT GCTAAGTTTT
6841 TTGAGTCATG CTGTGTTTAG TAATAGAACT CTTGCTTGCT TTGCTATTTA CAACCACAAA
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7201 ATAAAATGAA TGCAATTGTT GTTGTTAACT TGTATTATTG AGCTTATAAT GGTTACAAAT
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7621 ACTTTGCACA AAGGGCCTCG TGATACGCCT ATTTTTATAG GTTAATGTCA TGATAATAAT
7681 GGTTTCTTA
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Restriction Map of pHTS-AP1

This list contains restriction enzymes cut four times or fewer.

Enzyme	#sites	Bp position of recognition site			
AatII	2	1,	2453		
AccI	1	4054			
AflIII	3	1810,	2349,	5302	
AhdI	1	919			
AlwNI	1	1398			
ApaI	1	3726			
AvaI	2	2020,	5865		
BamHI	2	4688,	7357		
BanII	3	3683,	3726,	5829	
BbeI	2	3953,	4841		
BbsI	3	4812,	6090,	6220	
BglI	1	800			
BmrI	4	874,	4079,	5412,	6082
BsaAI	2	4073,	4961		
BsaBI	1	7121			
BsaI	3	852,	3607,	6804	
BseRI	3	6349,	7371,	7398	
BsgI	1	6909			
BsiWI	1	4963			
BsmBI	2	2492,	4176		
BspHI	3	84,	1092,	7668	
BspMI	3	2734,	3976,	6216	
BsrBI	4	80,	1876,	2819,	3177
BsrDI	2	683,	865		
BsrGI	1	5299			
Bst1107I	1	4054			
BstAPI	2	2729,	3005		
BstBI	3	2288,	4977,	5765	
BstEII	1	5416			
Bsu36I	1	5421			
Cfr10I	4	839,	2768,	5078,	6237
ClaI	1	6173			
DraIII	2	2713,	3006		
DrdI	4	1704,	2928,	3309,	4130
Eco52I	3	2635,	2800,	3370	
Eco57I	4	237,	1285,	5637,	6821
EcoNI	1	6422			
EcoO109I	4	3726,	3747,	5987,	7632
EcoRV	1	6145			
EheI	2	3953,	4841		
FspI	2	699,	2089		
HaeII	4	1568,	1930,	3953,	4841
HindIII	2	3965,	4694		
HpaI	3	4331,	4557,	7224	
KasI	2	3953,	4841		
MluI	1	2349			
NarI	2	3953,	4841		
NcoI	3	2782,	3754,	3840	
NdeI	1	2879			
PacI	1	6129			
PciI	1	1810			
PpuMI	2	3747,	5987		
PshAI	1	2453			
Psp1406I	2	321,	694		
PspOMI	1	3726			
PstI	3	2378,	2763,	3974	
PvuI	2	552,	2791		
RsrII	1	2837			
SacII	1	3207			
SanDI	1	3747			
SapI	2	1926,	5616		
ScaI	2	441,	3398		
SgfI	1	2790			
SgrAI	1	6236			

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SphI	1	5468			
SspI	3	117,	6939,	7092	
Tth111I	4	2487,	2931,	3743,	4078
Van91I	3	2076,	2125,	6661	
VspI	2	748,	7028		
XbaI	3	4749,	4856,	6509	
XcmI	2	3722,	5537		
XmnI	1	320			