

## **pHTS-NFKB Molecule Information**

### **Contents**

Molecule Features

[Vector Map](#)

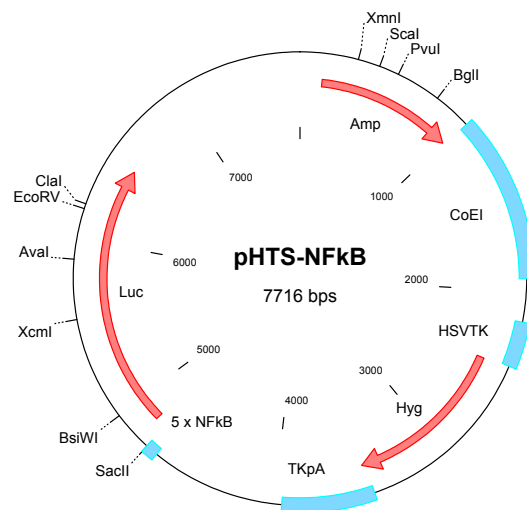
[Nucleotide Sequence](#)

[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	4836	6488
5 x NFKB Enhancer Element	4699	4796

### **Vector Map**



**Nucleotide Sequence of pHTS-NFKB**

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 TCGCTTGATC GTTGGGAACC GGAGCTGAAT GAAGCCATAC CAAACGACGA  
661 GCGTGACACC ACGATGCCTG TAGCAATGGC AACAACGTTG 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  
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1561 TTGAGAAAGC GCCACGCTTC CCGAAGGGAG AAAGGCGGAC AGGTATCCGG TAAGCGGCAG  
1621 GGTCGGAACA GGAGAGCGCA CGAGGGAGCT TCCAGGGGGA AACGCCTGGT ATCTTTATAG  
1681 TCCTGTGCGG TTTCCGCCACC TCTGACTTGA GCGTCGATTT TTGTGATGCT CGTCAGGGGG  
1741 GCGGAGCTAT GGAAAAACGC CAGCAACGCG CCTTTTTACG GTTCTGGCC TTTTGTGCGC  
1801 CTTTTGCTCA CATGTTCTTT CCTGCGTTAT CCCTGATTCT GTGGATAACC GTATTACCGC  
1861 CTTTGAGTGC TGATACCGCT CGCCGACCC GAACGACCGA GCGCAAGTCA GCGCAGGAGG  
1921 AAGCGGAAGA GCGCCTGATG CCGTATTTTC TCCTTACGCA TCTGTGCGGT ATTTACACCC  
1981 GCATACGAAC GCCAGCAAGA CGTAGCCAG CGCGTCGGCC CCGAGATGCG CCGCGTGCAG  
2041 CTGCTGGAGA TGGCGGACGC GATGGATATG TTCTGCCAAG GGTTGGTTTG CGCATTACA  
2101 GTTCTCCGCA AGAATTGATT GGCTCCAATT CTTGGAGTGG TGAATCCGTT AGCGAGGTGC  
2161 CGCCGGGCTG CTTTATCCCC GTGGCCCGTT GCTCGCGTTT GCTGGCGGTG TCCCCGGAAG  
2221 AAATATATTT GCATGTCTTT AGTTCTATGA TGACACAAAC CCCGCCAGC GTCTTGTCTAT  
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2461 TCGAGAAGTT TCTGATCGAA AAGTTCGACA GCGTCTCCGA CCTGATGCAG CTCTCGGAGG  
2521 GCGAAGAATC TCGTGTCTT AGCTTCGATG TAGGAGGGCG TGGATATGTC CTGCGGGTAA  
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3001 TCCGGCACCT CGTGCACGCG GATTTGCGCT CCAACAATGT CCTGACGGAC AATGGCCGCA  
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3181 GGAGGCATCC GGAGCTTGCA GGATCGCCGC GGCTCCGGGC GTATATGCTC CGCATTGGTC

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3301 GTCGATGCGA CGCAATCGTC CGATCCGGAG CCGGGACTGT CGGGCGTACA CAAATCGCCC  
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4321 TGCAATTGTT GTTAACTTGT TTATTGCAGC TTATAATGGT TACAAATAAA GCAATAGCAT  
4381 CACAAATTTT ACAAATAAAG CATTTTTCAC TGCATTCTAG TTGTGGTTTG TCCAAACTCA  
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5161 ATAATGAACG TGAATTGCTC AACAGTATGA ACATTTTCGCA GCCTACCGTA GTGTTTGTTT  
5221 CAAAAAGGG GTTGCAAAAA ATTTTGAACG TGCAAAAAAA ATTACCAATA ATCCAGAAAA  
5281 TTATTATCAT GGATTCTAAA ACGGATTACC AGGGATTTCA GTCGATGTAC ACGTTCGTCA  
5341 CATCTCATCT ACCTCCCGGT TTTAATGAAT ACGATTTTGT ACCAGAGTCC TTTGATCGTG  
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5461 CCCTTCCGCA TAGAACTGCC TGCCTCAGAT TCTCGCATGC CAGAGATCCT ATTTTGGCA  
5521 ATCAAATCAT TCCGATACT GCGATTTTAA GTGTTGTTCC ATTCCATCAC GGTTTTGGAA  
5581 TGTTTACTAC ACTCGGATAT TTGATATGTG GATTTTCGAGT CGTCTTAATG TATAGATTTG  
5641 AAGAAGAGCT GTTTTTACGA TCCCTTCAGG ATTACAAAAT TCAAAGTGCG TTGCTAGTAC  
5701 CAACCCTATT TTCATTCTTC GCCAAAAGCA CTCTGATTGA CAAATACGAT TTATCTAATT  
5761 TACACGAAAT TGCTTCTGGG GGCGCACCTC TTTTCGAAAGA AGTCGGGGAA GCGGTTGCAA  
5821 AACGCTTCCA TCTTCCAGGG ATACGACAAG GATATGGGCT CACTGAGACT ACATCAGCTA  
5881 TTCTGATTAC ACCCGAGGGG GATGATAAAC CGGGCGCGGT CCGTAAAGTT GTTCCATTTT  
5941 TTGAAGCGAA GGTGTGGAT CTGGATACCG GGAACACGCT GGGCGTTAAT CAGAGAGCGC  
6001 AATTATGTGT CAGAGACCT ATGATTATGT CCGGTTATGT AAACAATCCG GAAGCGACCA  
6061 ACGCCTTGAT TGACAAGGAT GGATGGCTAC ATTCTGGAGA CATAGCTTAC TGGGACGAAG  
6121 ACGAACACTT CTTCATAGTT GACCGCTTGA AGTCTTTAAT TAAATACAAA GGATATCAGG  
6181 TGGCCCCCGC TGAATTGGAA TCGATATTGT TACAACACCC CAACATCTTC GACGCGGGCG  
6241 TGGCAGGTCT TCCCACGAT GACGCCGGTG AACTTCCCAG CGCCGTTGTT GTTTTGGAGC  
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6361 CGAAAAAGTT GCGCGGAGGA GTTGTGTTTG TGGACGAAGT ACCGAAAGGT CTTACCGGAA  
6421 AACTCGACGC AAGAAAAATC AGAGAGATCC TCATAAAGGC CAAGAAGGGC GGAAAGTCCA  
6481 AATTGTAATA TGTAAGTATA TTCAGCGATG ACGAAATTCT TAGCTATTGT AATACTCTAG  
6541 AGGATCTTTG TGAAGGAACC TTAATTCTGT GGTGTGACAT AATTGGACAA ACTACCTACA  
6601 GAGATTTAAA GCTCTAAGGT AAATATAAAA TTTTAAAGTG TATAATGTGT TAAACTACTG

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6661 ATTCTAATTG TTTGTGTATT TTAGATTCCA ACCTATGGAA CTTATGAATG GGAGCAGTGG
6721 TGGAATGCCT TTAATGAGGA AAACCTGTTT TGCTCAGAAG AAATGCCATC TAGTGATGAT
6781 GAGGCTACTG CTGACTCTCA ACATTCTACT CTCAAAAGAA GAGAAAGGTA GAGACCCAAG
6841 GACTTTCCTT CAGAATTGCT AAGTTTTTTT AGTCATGCTG TGTTTAGTAA TAGAACTCTT
6901 GCTTGCTTTG CTATTTACAA CCACAAAGGA AAAAGCTGCA CTGCTATACA AGAAAATTAT
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7141 GACTAGAGAT CATAATCAGC CATACCACAT TTGTAGAGGT TTTACTTGCT TTAAAAAACC
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7261 TTATTGCAGC TTATAATGGT TACAAATAAA GCAATAGCAT CACAAATTC ACAAATAAAG
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7381 TCTGGATCCC CAGGAAGCTC CTCTGTGTCC TCATAAACCC TAACCTCCTC TACTTGAGAG
7441 GACATTCCAA TCATAGGCTG CCCATCCACC CTCTGTGTCC TCCTGTTAAT TAGGTCACTT
7501 AACAAAAAGG AAATTGGGTA GGGGTTTTTTC ACAGACCGCT TTCTAAGGGG TAATTTTTAAA
7561 ATATCTGGGA AGTCCCTTCC ACTGCTGTGT TCCAGAAGTG TTGGTAAACA GCCCACAAAT
7621 GTCAACAGCA GAAACATACA AGCTGTCACT TTGCACAAAG GGCCTCGTGA TACGCCTATT
7681 TTTATAGGTT AATGTCATGA TAATAATGGT TTCTTA
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## Restriction Map of pHTS-NFKB

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,	5329	
AhdI	1	919			
AlwNI	1	1398			
ApaI	1	3726			
AvaI	2	2020,	5892		
BamHI	2	4688,	7384		
BanII	3	3683,	3726,	5856	
EbeI	2	3953,	4868		
BbsI	3	4839,	6117,	6247	
EglI	1	800			
BmrI	4	874,	4079,	5439,	6109
BsaAI	2	4073,	4988		
BsaBI	1	7148			
BsaI	3	852,	3607,	6831	
BseRI	3	6376,	7398,	7425	
BsgI	1	6936			
BsiWI	1	4990			
BsmBI	2	2492,	4176		
BspHI	3	84,	1092,	7695	
BspMI	3	2734,	3976,	6243	
BsrBI	4	80,	1876,	2819,	3177
BsrDI	2	683,	865		
BsrGI	1	5326			
Bst1107I	1	4054			
BstAPI	2	2729,	3005		
BstBI	3	2288,	5004,	5792	
BstEII	1	5443			
Bsu36I	1	5448			
Cfr10I	4	839,	2768,	5105,	6264
ClaI	1	6200			
DraIII	2	2713,	3006		
DrdI	4	1704,	2928,	3309,	4130
Eco52I	3	2635,	2800,	3370	
Eco57I	4	237,	1285,	5664,	6848
EcoNI	1	6449			
EcoO109I	4	3726,	3747,	6014,	7659
EcoRV	1	6172			
EheI	2	3953,	4868		
FspI	2	699,	2089		
HaeII	4	1568,	1930,	3953,	4868
HindIII	1	3965			
HpaI	3	4331,	4557,	7251	
KasI	2	3953,	4868		
MluI	1	2349			
NarI	2	3953,	4868		
NcoI	3	2782,	3754,	3840	
NdeI	1	2879			
PacI	1	6156			
PciI	1	1810			
PpuMI	2	3747,	6014		
PshAI	1	2453			
Psp1406I	2	321,	694		
PspOMI	1	3726			
PstI	3	2378,	2763,	3974	
PvuI	2	552,	2791		
RsrII	1	2837			
SacII	2	3207,	4766		
SanDI	1	3747			
SapI	2	1926,	5643		
ScaI	2	441,	3398		
SgfI	1	2790			
SgrAI	1	6263			

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SphI	1	5495			
SspI	3	117,	6966,	7119	
Tth111I	4	2487,	2931,	3743,	4078
Van91I	3	2076,	2125,	6688	
VspI	2	748,	7055		
XbaI	3	4776,	4883,	6536	
XcmI	2	3722,	5564		
XmnI	1	320			