

## **pHTS-ISRE Molecule Information**

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Molecule Features

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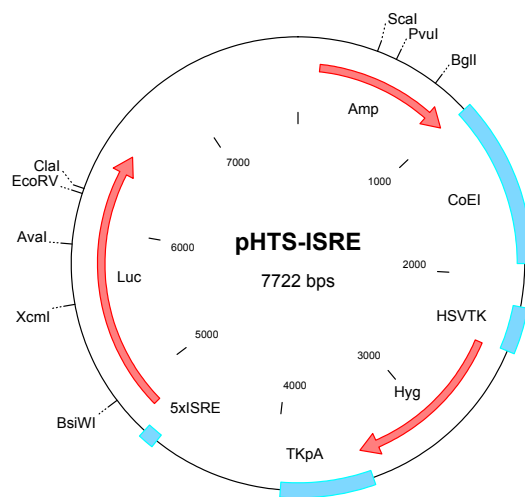
[Nucleotide Sequence](#)

[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	4842	6494
5 x ISRE Enhancer Element	4688	4775

### **Vector Map**



**Nucleotide Sequence of pHTS-ISRE**

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 CTGCTCTTCT  
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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1621 GGTCGGAACA GGAGAGCGCA CGAGGGAGCT TCCAGGGGGA AACGCCTGGT ATCTTTATAG  
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1741 GCGGAGCTAT GGAAAAACGC CAGCAACGCG CCTTTTTACG GTTCTGGCC TTTTGTGCGC  
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1981 GCATACGAAC GCCAGCAAGA CGTAGCCAG CGCGTCGGCC CCGAGATGCG CCGCGTGCAG  
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2161 CGCCGGGCTG CTTTATCCCC GTGGCCCGTT GCTCGCGTTT GCTGGCGGTG TCCCCGGAAG  
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6361 CAACCGCGAA AAAGTTGCGC GGAGGAGTTG TGTTTGTGGA CGAAGTACCG AAAGGTCTTA  
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6481 AGTCCAAATT GTAAAATGTA ACTGTATTCA GCGATGACGA AATTCTTAGC TATTGTAATA  
6541 CTCTAGAGGA TCTTTGTGAA GGAACCTTAC TTCTGTGGTG TGACATAATT GGACAAACTA  
6601 CCTACAGAGA TTTAAAGCTC TAAGGTAAAT ATAAAATTTT TAAGTGTATA ATGTGTTAAA

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6661  C T A C T G A T T C   T A A T T G T T T G   T G T A T T T T T A G   A T T C C A A C C T   A T G G A A C T T A   T G A A T G G G G A G
6721  C A G T G G T G G A   A T G C C T T T A A   T G A G G A A A A C   C T G T T T T G C T   C A G A A G A A A T   G C C A T C T A G T
6781  G A T G A T G A G G   C T A C T G C T G A   C T C T C A A C A T   T C T A C T C T C A   A A A G A A G A G A   A A G G T A G A G A
6841  C C C A A G G A C T   T T C C T T C A G A   A T T G C T A A G T   T T T T T G A G T C   A T G C T G T G T T   T A G T A A T A G A
6901  A C T C T T G C T T   G C T T T G C T A T   T T A C A A C C A C   A A A G G A A A A A   G C T G C A C T G C   T A T A C A A G A A
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7081  A T T G T G T A C C   T T T A G C T T T T   T A A T T T G T A A   A G G G G T T A A T   A A G G A A T A T T   T G A T G T A T A G
7141  T G C C T T G A C T   A G A G A T C A T A   A T C A G C C A T A   C C A C A T T T G T   A G A G G T T T T A   C T T G C T T T A A
7201  A A A A C C T C C C   A C A C C T C C C C   C T G A A C C T G A   A A C A T A A A A T   G A A T G C A A T T   G T T G T T G T T A
7261  A C T T G T T T A T   T G C A G C T T A T   A A T G G T T A C A   A A T A A A G C A A   T A G C A T C A C A   A A T T T C A C A A
7321  A T A A A G C A T T   T T T T T C A C T G   C A T T C T A G T T   G T G G T T T G T C   C A A A C T C A T C   A A T G T A T C T T
7381  A T C A T G T C T G   G A T C C C C A G G   A A G C T C C T C T   G T G T C C T C A T   A A A C C C T A A C   C T C C T C T A C T
7441  T G A G A G G A C A   T T C C A A T C A T   A G G C T G C C C A   T C C A C C C T C T   G T G T C C T C C T   G T T A A T T A G G
7501  T C A C T T A A C A   A A A A G G A A A T   T G G G T A G G G G   T T T T T C A C A G   A C C G C T T T C T   A A G G G G T A A T
7561  T T T A A A A T A T   C T G G G A A G T C   C C T T C C A C T G   C T G T G T T C C A   G A A G T G T T G G   T A A A C A G C C C
7621  A C A A A T G T C A   A C A G C A G A A A   C A T A C A A G C T   G T C A C T T T G C   A C A A A G G G C C   T C G T G A T A C G
7681  C C T A T T T T T A   T A G G T T A A T G   T C A T G A T A A T   A A T G G T T T C T   T A
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## Restriction Map of pHTS-ISRE

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,	5335	
AhdI	1	919			
AlwNI	1	1398			
ApaI	1	3726			
AvaI	2	2020,	5898		
BamHI	2	4688,	7390		
BanII	3	3683,	3726,	5862	
BbeI	2	3953,	4874		
BbsI	3	4845,	6123,	6253	
BglI	1	800			
BmrI	4	874,	4079,	5445,	6115
BsaAI	2	4073,	4994		
BsaBI	1	7154			
BsaI	3	852,	3607,	6837	
BseRI	3	6382,	7404,	7431	
BsgI	1	6942			
BsiWI	1	4996			
BsmBI	2	2492,	4176		
BspHI	3	84,	1092,	7701	
BspMI	3	2734,	3976,	6249	
BsrBI	4	80,	1876,	2819,	3177
BsrDI	2	683,	865		
BsrGI	1	5332			
Bst1107I	1	4054			
BstAPI	2	2729,	3005		
BstBI	3	2288,	5010,	5798	
BstEII	1	5449			
Bsu36I	1	5454			
Cfr10I	4	839,	2768,	5111,	6270
ClaI	1	6206			
DraIII	2	2713,	3006		
DrdI	4	1704,	2928,	3309,	4130
Eco52I	3	2635,	2800,	3370	
Eco57I	4	237,	1285,	5670,	6854
EcoNI	1	6455			
EcoO109I	4	3726,	3747,	6020,	7665
EcoRV	1	6178			
EheI	2	3953,	4874		
FspI	2	699,	2089		
HaeII	4	1568,	1930,	3953,	4874
HindIII	1	3965			
HpaI	3	4331,	4557,	7257	
KasI	2	3953,	4874		
MluI	1	2349			
NarI	2	3953,	4874		
NcoI	3	2782,	3754,	3840	
NdeI	1	2879			
PacI	1	6162			
PciI	1	1810			
PpuMI	2	3747,	6020		
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,	5649		
ScaI	2	441,	3398		
SgfI	1	2790			
SgrAI	1	6269			

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SphI	1	5501			
SspI	3	117,	6972,	7125	
Tth111I	4	2487,	2931,	3743,	4078
Van91I	3	2076,	2125,	6694	
VspI	2	748,	7061		
XbaI	3	4782,	4889,	6542	
XcmI	2	3722,	5570		
XmnI	1	320			