

Specifications:

Gene:	hHTRA4
Accession:	NP_710159
Insert size:	1444bp
Concentration:	10µg at 0.2µg/µL

**hHTRA4 cDNA
Plasmid**

**HTRA4 HtrA serine peptidase 4
[*Homo sapiens* (human)]**

Summary:

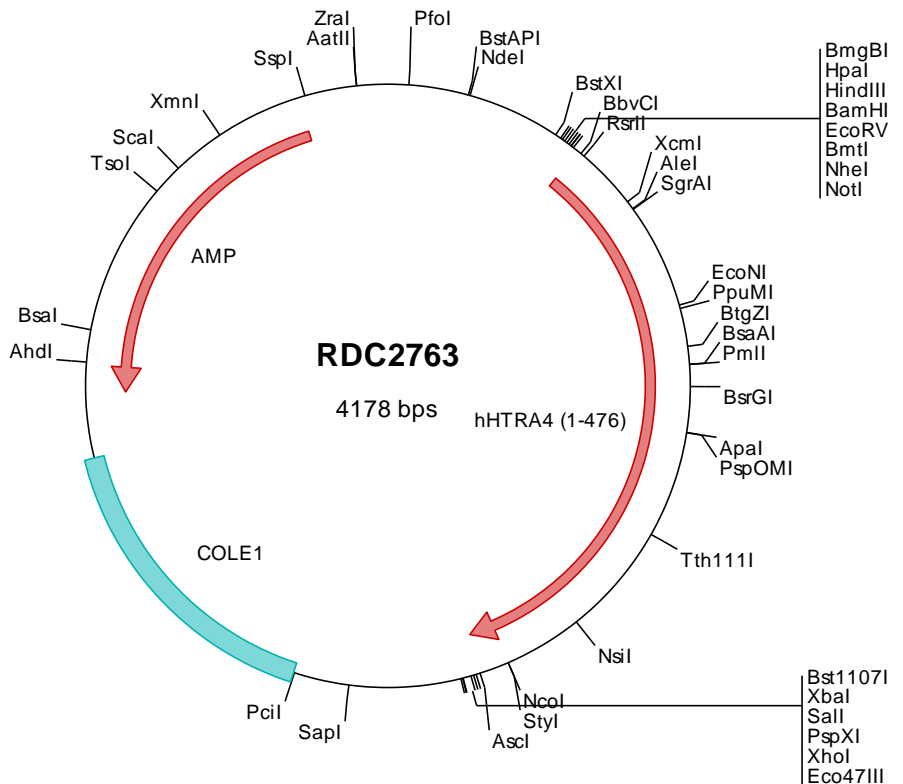
HTRA4 is a member of the HtrA family of proteases. It contains a putative signal peptide, an insulin growth factor binding domain, a Kazal protease inhibitor domain, a conserved trypsin domain and a PDZ domain. Based on studies on other related family members, HTRA4 may function as a secreted oligomeric chaperone protease to degrade misfolded secretory proteins. Other human HtrA proteins have been implicated in arthritis, tumor suppression, unfolded stress response, apoptosis, and aging.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2763 Plasmid DNA Sequence

```

1   tcgctgctgtt  cggatgatgac  ggtgaaaacc  totgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccc
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatattgc  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaatacccc  atcaggcgcc  attgccatt  caggctcgc  aactgttggg  aagggcgatc  ggtgcccc  tcttcctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caagcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccaac  atgattagac  ctacagctgc  gaccgcgggg  ctgggacgat  gcctcctgcc
501  ggggctgctg  ctgctcctgg  tgcccctcct  ctgggcccgg  gctgaaaagc  tacataccca  gccctcctgc  ccccggtct  gccagcccac  gcgctgcccc
601  gcgctgcccc  cctgocgct  ggggaccacg  ccggtgttcg  acctgtgccc  ctgttgcccg  gtctgcccc  cggccgagcg  tgaagtctgc  ggcggggcgc
701  agggccaacc  gtgcgcccc  gggctgcagt  gcccccagcc  gctgcgcccc  gggttcccc  gaacctgccc  ttgcccagc  ctgggagggg  ccgtgtgccc
801  cagcgacagg  cgcacctacc  ccagcatgtg  cgcctccgg  gccgaaaacc  gccccggcgg  ccgctggggc  aaggtcccgg  ccgtgcccgt  gcagtggggg
901  aactgocggg  atacagggac  cagaagcgca  gggcccgtca  ggaggaaata  caacttcate  gcccggttgg  tggagaaggt  ggcgccatcg  gtggttccag
1001  tgcagctgtg  gggcaggtta  cttocaggca  gcaggcttgt  toctgtgtac  agtggctctg  ggttcatagt  gtctgaggac  gggctcatta  ttaccaatgc
1101  ccatgtttgc  aggaaccagc  agtggaattg  ggtgtgtctc  cagaatgggg  ccggttatga  agctgtttgc  aaggatatg  acctaaatt  ggaatttggc
1201  ttgattaaga  tgaatcaaaa  tctgaactt  cctgtactga  tgctgggaag  atcatctgac  cttcgggtg  gagagtttgt  ggtggtttg  ggcagccat
1301  gttctctgca  gaacacagct  actgcaggaa  ttgtcagcgc  caaacagcga  gggggcaaac  aactggggat  gaaggttca  gatagggat  acgtccagat
1401  tgatgccaca  attaactatg  ggaattctgg  tggctctctg  gtgaacttgg  atggtgatgt  gattggcctc  aattcattga  ggttgactga  tggaaatctc
1501  tttgcaattc  cttcagatcg  agttaggcag  ttctggcag  aataccatga  gcaccagatg  aaaggaaagg  cgttttcaa  taagaaatg  ctgggtctgc
1601  aaatgctgtc  cctcactgtg  cccttagtg  aagaattgaa  aatgcattat  ccagatttcc  ctgatgtgag  ttctggggtt  tatgtatgta  aagtgttga
1701  aggaacagct  gctcaaaact  ctggattgag  agatcaagat  gtaattgtca  acataaatgg  gaaacctatt  actactaaa  ctgatgttgt  taaagctctt
1801  gacagtgatt  ccccttccat  ggotgttctt  cggggaaaag  ataatttctc  cctgacagtc  atacctgaaa  caatcaatta  aaggcgcgcc  agtatactct
1901  agagtgcaca  cccggggaat  tcctcgagcg  ctctctcta  gcttggcgtg  atcatggta  tagctgttcc  ctgtgtgaaa  ttgttatccg  ctcaaatc
2001  cacacaacat  acgacgggca  agcataaagt  gtaaaagctg  ggggtgcctaa  tgagttagct  aactcacatt  aattgcgttt  cgctcactcc  ccgctttcca
2101  tctcggaaac  ctgtcgtgcc  actgcatta  atgaatcgcc  caacgcggcg  ggagagcgcg  tttgcgtatt  gggcgctctt  gggctcctc  gctcactgac
2201  tcgctgcctc  cgttgcgttc  gcgtgcgca  gcggtatcag  ctactcaaaa  ggcggttaata  cggttatcca  cagaatcagg  ggataacgca  ggaagaaca
2301  tgtgagcaaa  agccagcaca  aagggcagga  accgtaaaaa  ggcgcgctgt  ctggcttttt  tccataggct  ccgccccct  gacgagatc  acaaaaactg
2401  acgctcaagt  cagaggtggc  gaaaccgac  aggactataa  agataaccag  gctttcccc  tggaaagctc  ctctgctctc  ctccctgctc  gacctgccc
2501  cttaccggat  acctgtccgc  ttttctcct  tcgggaagcg  tggcgcttcc  tcaatgtcca  cctcttaggt  atctcagttc  ggtgtaggtc  tctcgtcca
2601  agctggctgc  tgtgcaagaa  ccccccttc  agccccagc  ctgcgctta  tcggtaact  atcgtcttga  gtccaaccg  gtaagcacg  acttatcgcc
2701  actggcagca  gccactggtg  acaggttag  cagagcgagg  ataattaggc  gtgctacaga  gttcttgaag  ttgtggccta  actacggcta  actagaagg
2801  acagtatttg  tctatctgct  tctgtgaag  ccagttacct  tcggaaaaag  agttgttagc  tcttgatccg  gcaaaaaaac  caccgctggt  agcgggtggt
2901  tttttgtttg  caagcagcag  attacgcgca  gaaaaaaaag  atctcaagaa  gatcctttga  tctttctac  ggggtctgac  gctcagtgga  acgaaaaact
3001  acgttaaggg  attttgttca  tgagattatc  aaaaaggatc  ttcacctaga  tccctttaaa  ttaaaaatga  agttttaa  caatctaaag  tatatatgag
3101  taaacttggg  ctgacagtta  ccaatgctta  atcagtgagg  cacctatctc  agcagatctg  ctatttctgt  catccatagt  tgctgactc  cccgtcgtgt
3201  agataactac  gatacgggag  ggcttaccat  ctggccccag  tgctgcaatg  ataccgcgag  acccacgctc  accggtcca  gatttatcag  caataaacca
3301  gccagccgga  agggccgagc  gcagaagtgg  tcctgcaact  ttatccgct  ccatccagtc  tattaattgt  tgccgggaag  ctagagtaa  tagttcgcca
3401  gttaatagtt  tgcgcaactg  tgttgcatt  gctacagcca  tcgtgtgtc  acgctcgtc  tttgttatgg  ctccattcag  ctccggttcc  caacgatcaa
3501  ggcgagttac  atgatcccc  atgttgtgca  aaaaagcgtt  tagctccttc  ggtcctccga  tcggtgtcag  aagtaagttg  gccgcagttg  tatcactcat
3601  ggttatggca  gcaactgata  attctcttac  tgtcatgcca  tccgtaagat  gcttttctgt  gactggtgag  tactcaacca  agtcattctg  agaatagttg
3701  atgcccgcag  cgagttgctc  ttgcccggcg  tcaataccgg  ataataccgc  gccacatagc  agaactttaa  aagtgctcat  cattgaaaa  cgttcttcgg
3801  ggcgaaaact  ctcaaggatc  ttaccgctgt  tgagatccag  ttogatgtaa  cccactcgtg  caccacaactg  atcttcagca  tcttttactt  tcaccagcgt
3901  ttctgggtga  gcaaaaaacg  gaaggcaaaa  tgccgcaaaa  aagggaaata  gggcgcaacg  gaaatgttga  atactcatac  tctcctttt  tcaatattat
4001  tgaagcattt  atcaggggta  ttgtctcatg  agcggataca  tatttgaatg  tatttagaaa  aataaaciaa  taggggttcc  gccacattt  cccgaaaaag
4101  tgccacctga  cgtctaagaa  accattatta  tcatgacatt  aacctataaa  aataggcgta  tcacgagccc  ctttctgc

```

> RDC2763 Translated Insert Sequence

```

1   mirpqlrtag  lgrcllpgll  lllvpvlwag  aeklhtqpsc  pavcqprrcp  alptcalgtt  pvfdlrcrcc  vcpaaerevc  ggaqgqpcap  glqclqplrp
101  gfpstcgcpt  lggavocgdr  rtypsmcalr  aenraarrlg  kvpavpvqwg  ncgdtgtrsa  gprrnynfi  aavvekvaps  vvhvqlwgrl  lhgsrlvpvy
201  ssgfivsed  gliitnahvv  rnqwievvl  qngaryeavv  kdldklkla  vikiesnael  pvmlgrssd  lragefvval  gspflqnta  tagivstkqr
301  ggelgmkds  dmdyvqidat  inyngsgpl  vnlgdvlgv  nslrvtdgis  faipsdrvrr  flaeylehqm  kgkafsnkky  lglqmlsltv  plseelkmhy
401  pdfpdvssgv  yvckvvegta  aqssglrdhd  viivningkpi  ttttdvkvkl  dsdslsmavl  rgkdnllltv  ipetin

```