

Specifications:

Gene:	<i>hUSP21</i>
Accession:	NP_036607
Insert size:	1710bp
Concentration:	10µg at 0.2µg/µL

hUSP21 cDNA Plasmid

**USP21 ubiquitin specific
peptidase 21 [*Homo
sapiens* (human)]**

Also known as: USP16; USP23

Summary:

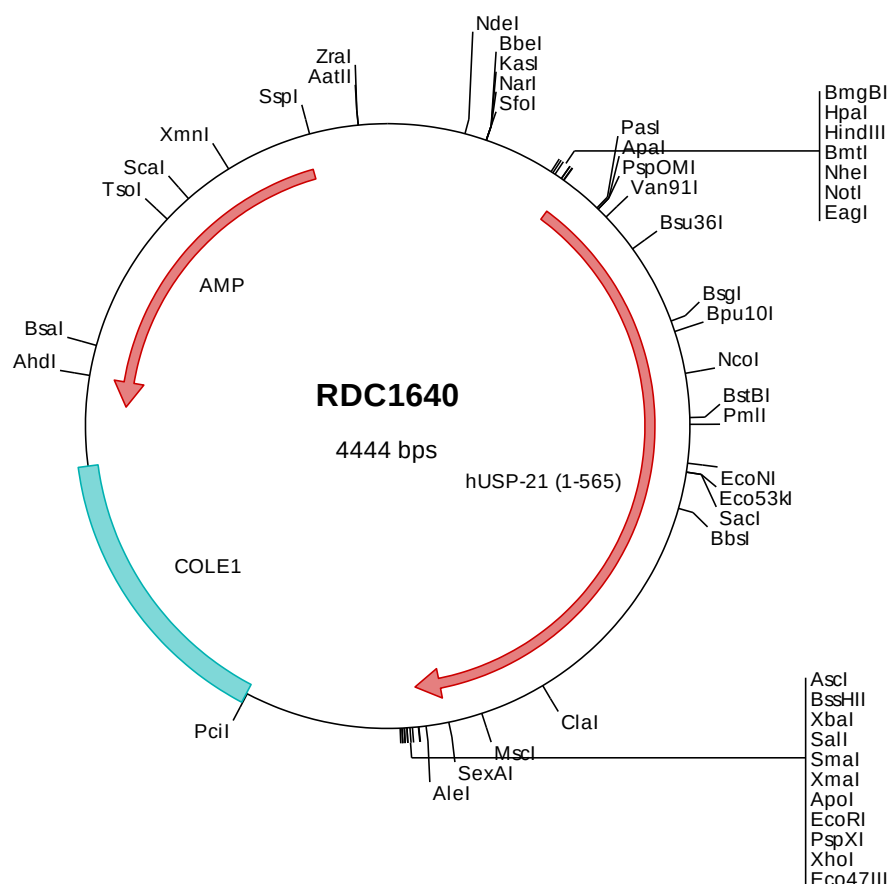
USP21 is a member of the C19 peptidase family. It cleaves ubiquitin from ubiquitinated proteins for recycling in intracellular protein degradation. It is also able to release NEDD8, an ubiquitin-like protein, from NEDD8-conjugated proteins. Alternatively spliced transcripts encoding different proteins have been described.

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

> RDC1640 Plasmid DNA Sequence

```

1   tcgcgcgcttt  cggatgatgac  ggtgaaaaacc  tctgacacat  gcagctcccc  gagacgggtca  cagcttgctct  gtaagcggat  gccgggagca  gacaagcccg
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggaatgtctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcaccc  atgccccagg  cctctgagca  ccgcctgggc  cgtacccgag  agccacctgt
501  taatatccag  ccccgagtg  gatccaaagt  accatttggc  cccaggggccc  gcagcaagg  gcgcagaaac  ccagcctctg  ggccaaaccc  catgttaaga
601  cctctgcctc  ccggcgccag  tctgcctgat  gaacgggtca  agaaactgga  gctgggacgg  ggacggacct  caggccctcg  tcccagaggg  ccccttcgag
701  cagatcaatg  ggttccctcg  cctggctcac  ccccccaac  agtggtcttg  cctctcccat  ctgggaccaa  cttagcccg  tccaaagtct  tgagcagttg
801  ggacttgcgt  ccaatgggga  ttgccttggg  agggcacctg  ggcacccggg  agcttggggc  tgcaactgag  cgcttggccc  tccggcctga  gccacccact
901  ttgagacgta  gcacttctct  cgcgcgccta  gggggcttcc  ctggaccccc  taccctgttc  agcatacgga  cagagccccc  tgcctcccat  ggtctcttcc
1001  acatgatata  cgcccgcttc  ctgagcctt  tctactctga  tgacaagatg  gctcatcaca  cactccttct  gggctctggt  catgttggcc  ttcgaaacct
1101  gggaaacacg  tgcttctctg  atgctgtgct  gcagtgcttg  agcagcactc  gacctcttct  ggacttctgt  ctgagaagg  acttccggca  agaggtgctc
1201  ggaggaggcc  gagcccaaga  gctcaatgaa  gcctttgcag  atgtgatagg  tgccctctgg  caccctgact  cctgcgaagg  tgtgaatcct  actcgattcc
1301  gagctgtctt  ccagaaatat  ttctctgata  tctctggata  cagccagcag  gatgcccagg  agttcctgaa  gctcctcatg  gagcggctac  accctgaaat
1401  caacgcgcga  ggcgcgcggg  ctccacgat  acttggccat  ggtccagttc  cctctccacc  ccgcgcagg  ggggctctgc  tagaagaacc  tgaattaaat
1501  gatgatgacc  gagccaaact  aatgtggaaa  cgttacctgg  agcgagagga  cagcaagatt  gtggacctgt  ttgtgggcca  gttgaaaagt  tgtctcaagt
1601  acatggcact  cgcccgcttc  tcgaggtctt  ttgtgacctg  ttgtgacctg  tcctcgccca  aggatttctg  gggggcaagg  tgctcttgcc  tgctcttgcc
1701  ggattgttct  aaccttttca  ctaaggagaa  agagctagag  toggagaaat  ccccgagtgt  tgaccgatgt  cggcagaaaa  ctcgaaagta  caaaaagtgt
1801  acagtacaaa  gattccctcg  aatctctgtg  ctccatctga  atcgattttc  tgccctccga  ggtctccatc  aaaaaagttc  agtaggtgta  gactttccac
1901  tgcagcgact  gacccatagg  gcttctgcca  gtgacaaagc  cggcaagtct  atcgaaagc  tgtatgctct  ttgcaaccac  tcaggcagcg  tccactatgg
2001  caactacaca  gccctgtgct  ggtgcccagc  tggttggcat  gtctacaatg  actctcgtgt  ctccctgtct  agtgaatacc  aggtggcatc  cagcgagggc
2101  ccagtgtgtt  tctaccaact  gatgcaggag  ccaccccggt  gctgtgaagg  cgcgcagta  tactctagag  tcgacaccgc  gggaaatcct  cgagcgctcg
2201  tctctagctt  ggcgtaatac  tggctatagc  tgtttcctgt  gtgaaattgt  tatccgctca  caattccaca  caacatacga  gccggaagca  taaagtgtaa
2301  agcctggggt  gcctaatact  tgagctaaat  cacattaatt  gcgttgcgtc  cactgcccgc  tttccagtcg  ggaaacctgt  cgtgccagct  gcattaatga
2401  atcgcccaac  cgcgggggag  aggcggtttg  cgtattgggc  gctcttcgcg  ttctctgcct  actgactctc  tgcgctcggt  gcttcgctgt  ccgagcgccg
2501  tatcagctca  ctcaaaaggc  gtaatacgg  tatccacaga  atcaggggat  aacgcaggaa  agaactgtgt  agcaaaaggc  cagcaaaagg  ccaggaaccg
2601  gcccaggctg  tgggtatcgc  cgtttttcca  taggctccgc  cccctcgact  agcatcaca  aaatcgacgc  tcaagtccga  ggtggcgaaa  cccgacagga
2701  ctataaagat  accagcgctt  tccccctgga  agctccctcg  tgcgtctctc  tgttccgacc  ctgcccgtta  cgggataact  gtccgctctt  tccctctcgg
2801  gaagcgtggc  gctttctcaa  tgctcagct  gttaggtatc  cagttccggt  taggtcgctc  gctccagct  gctccagct  cagcaacccc  ccgttcagcc
2901  cgaccgctgc  gcttattccg  gtaactatcg  tcttgagctc  aaccggtaa  gacacgact  atcgccactg  gcagcagcca  ctggtaacag  gattagcaga
3001  gcagggtatg  taggcggtgc  tacagagttc  ttgaagtgg  ggcctaacta  cggctacact  agaaggacag  tatttggat  ctgcgctctg  ctgaagccag
3101  ttaccttcgg  aaaaagagtt  ggtagctctt  gatccggcaa  aaaaaccacc  gctggtagcg  gtggtttttt  tgtttgcaag  cagcagatta  cgcgcagaaa
3201  aaaaagatct  caagaagatc  ctttgatctt  ttctacgggg  tctgacgctc  agtggaacga  aaactcacgt  taagggattt  tggtcatgag  attatcaaaa
3301  aggatcttca  cctagatctt  tttaaattaa  aaatgaagtt  ttaaatcaat  ctaaagtata  tatgagtaaa  ctgtgtctga  cgttaacca  tgcttaatca
3401  gtgaggcacc  tatctcagcg  atctgtctat  ttctgtctac  catagtgtgc  tgactccccg  tcgtgtagat  aactacgata  cgggagggct  taccatctgg
3501  cccagtgct  gcaatgatac  cgcgagaccc  acgctcaccg  gctccagatt  tatcagcaat  aaaccagcca  gccggaagg  ccgagcgag  aagtgttctt
3601  gcaactttat  ccgcctccat  ccagctctat  aattgttgcc  gggaaagctag  agtaagtagt  tcgccagtta  atagtttg  caacgttgtt  gccattgcta
3701  caggcatcgt  ggtgtcacgc  tcgtcgtttg  gtatggcttc  attcagctcc  ggttcccaac  gatcaaggcg  agttacatga  tcccccatgt  tgtgcaaaaa
3801  agcggttagc  tccttcggtc  ctccgatcgt  tgtcagaagt  aagttggcgg  cagtgttatc  actcatggtt  atggcagcac  tgcataattc  tcttactgtc
3901  atgccatccg  taagatgctt  ttctgtgact  ggtgagtact  caaccaagtc  attctgagaa  tagtgtatgc  ggcgaccgag  ttgctcttgc  ccggcgctca
4001  tacgggataa  taccgcgcca  catagcagaa  ctttaaaagt  gctcatcatt  ggaacacgtt  cttcgggggc  aaaactctca  aggatcttac  cgctgttgag
4101  atccagttcg  atgtaaccca  ctctgtcacc  caactgatct  tcagcatctt  ttactttcac  cagcgtttct  ggggtgagca  aaacaggaag  gcaaaaatgc
4201  gcaaaaaagg  gaataagggc  gacacggaaa  tgttgaatac  toactactct  cctttttcaa  tattattgaa  gcatttatca  gggttattgt  ctcatgacgc
4301  gatacatatt  tgaatgtatt  tagaaaaata  aacaaatag  ggttccgcgc  acatttcccc  gaaaagtgc  acctgacgtc  taagaaacca  ttattatcat
4401  gacattaacc  tataaaaaata  ggcgtatcac  gaggcccttt  cgctc

```

> RDC1640 Translated Insert Sequence

```

1   mpqasehrlg  rtreppvniq  prvgsklpfa  prarskerrn  pasgpnpmrl  plpprpglpd  erlkklelgr  grtsgrprgr  plradhgvpl  pgsppptval
101  plpsrtnlar  sksvssgdlr  pmgialgghr  gtgelgaals  rlalrpeppt  lrrstslrrl  gffpgpptlf  sirteppash  gsfhmisars  sepfysddkm
201  ahhtlllsg  hvglrnlngt  cflnavlqcl  sstrplrdfc  lrrdrfqevp  gggragelte  afadvigalw  hpdscavnp  trfravfqyq  vpsfsgysqg
301  daqeflklm  erlhleinrr  grrappilan  gpvpspprrg  galleepels  dddranlmwk  ryleredski  vdlfvglqls  clkqcacgyr  sttfefvcdl
401  slpipkkgfa  ggvkslrdfc  nlftkeeele  senapvcdrc  rqktrstkl  tvqrfrilv  lhlmrfsasr  gsikssvqv  dfplqlrlslg  dfasdkagsp
501  vyqlyalcnh  sgsvhyghyt  alrcqctgwh  vyndsrsvpv  senqvasseg  yvlfyqlmqe  pprcl

```