*h*USP30 VersaClone cDNA

Catalog Number: RDC3373

Specifications:

Gene:	*h*USP30
Accession:	NP_116052.2
Insert size:	1567bp
Concentration:	10µg at 0.2µg/µL

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.

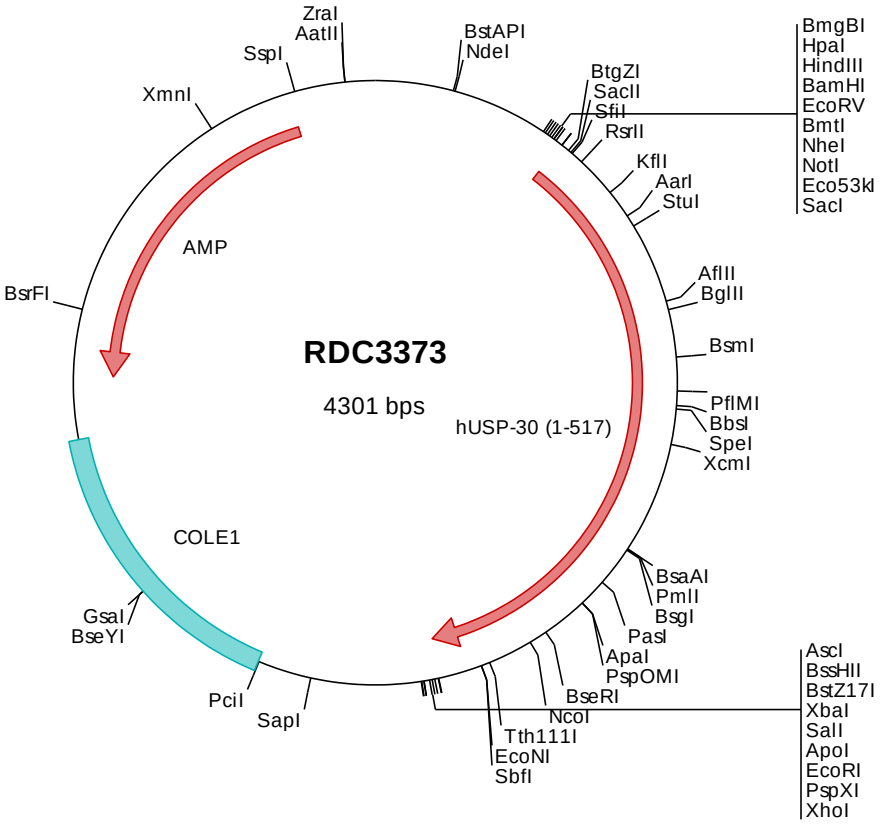
Preparation and Storage

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.

*h*USP30 cDNA Plasmid

USP30 ubiquitin specific peptidase 30 [Homo sapiens (human)]

Summary:
USP30, a member of the ubiquitin-specific protease family, is a novel mitochondrial deubiquitinating enzyme. It acts as a key inhibitor of mitophagy by counteracting the action of parkin (PARK2). It acts as negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC3373Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgctgagct cccgggccga ggcggcgatg accgcggccg acagggccat
 501  ccagcgcttc ctgcggaccg gggcggccgt cagatataaa gtcatgaaga actggggagt tataggtgga attgctgctg ctcttgcagc aggaatatat
 601  gttatttggg gtcccattac agaaagaaag aagcgtagaa aagggcttgt gcctggcctt gttaatttag ggaacacctg cttcatgaac tccctgctac
 701  aaggcctgtc tgcctgtcct gctttcatca ggtggctgga agagttcacc tcccagtact ccagggatca gaaggagccc ccctcacacc agtatttatc
 801  cttaacactc ttgcaccttc tgaaagcctt gtcctgccaa gaagttactg atgatgaggt cttagatgca agctgcttgt tggatgtctt aagaatgtac
 901  agatggcaga tctcatcatt tgaagaacag gatgctcacg aattattcca tgtcattacc tcgtcattgg aagatgagcg agaccgccag cctcgggtca
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1101  ctggaagtct caacatcctt ttcatggaag actcactagt aatatggtct gcaaacactg tgaacaccag agtcctgttc gatttgatac ctttgatagc
1201  ctttcactaa gtattccagc cgccacatgg ggtcacccat tgaccctgga ccactgcctt caccacttca tctcatcaga atcagtgcgg gatgttgtgt
1301  gtgacaactg tacaaagatt gaagccaagg gaacgttgaa cggggaaaag gtggaacacc agaggaccac ttttgttaaa cagttaaaac tagggaagct
1401  ccctcagtgt ctctgcatcc acctacagcg gctgagctgg tccagccacg gcacgcctct gaagcggcat gagcacgtgc agttcaatga gttcctgatg
1501  atggacattt acaagtacca cctccttgga cataaaccta gtcaacacaa ccctaaactg aacaagaacc cagggcctac actggagctg caggatgggc
1601  cgggagcccc cacaccagtt ctgaatcagc caggggcccc caaaacacag atttttatga atggcgcctg ctccccatct ttattgccaa cgctgtcagc
1701  gccgatgccc ttccctctcc cagttgttcc cgactacagc tcctccacat acctcttccg gctgatggca gttgtcgtcc accatggaga catgcactct
1801  ggacactttg tcacttaccg acggtcccca ccttctgcca ggaaccctct ctcaactagc aatcagtggc tgtgggtgtc cgatgacact gtccgcaagg
1901  ccagcctgca ggaggtcctg tcctccagcg cctacctgct gttctacgag cgcgtccttt ccaggatgca gcaccagagc caggagtgca agtctgaaga
2001  ataaaggcgc gccagtatac tctagagtcg acacccgggg aattcctcga gcgctcgtct ctagcttggc gtaatcatgg tcatagctgt ttcctgtgtg
2101  aaattgttat ccgctcacaa ttccacacaa catacgagcc ggaagcataa agtgtaaagc ctggggtgcc taatgagtga gctaactcac attaattgcg
2201  ttgcgctcac tgcccgcttt ccagtcggga aacctgtcgt gccagctgca ttaatgaatc ggccaacgcg cggggagagg cggtttgcgt attgggcgct
2301  cttccgcttc ctcgctcact gactcgctgc gctcggtcgt tcggctgcgg cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc
2401  aggggataac gcaggaaaga acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc
2501  cctgacgagc atcacaaaaa tcgacgctca agtcagaggt ggcgaaaccc gacaggacta taaagatacc aggcgtttcc ccctggaagc tccctcgtgc
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3001  aaccaccgct ggtagcggtg gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggtct
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3201  aatcaatcta aagtatatat gagtaaactt ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctcagcgatc tgtctatttc gttcatccat
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3501  aagctagagt aagtagttcg ccagttaata gtttgcgcaa cgttgttgcc attgctacag gcatcgtggt gtcacgctcg tcgtttggta tggcttcatt
3601  cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc ggttagctcc ttcggtcctc cgatcgttgt cagaagtaag
3701  ttggccgcag tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg ccatccgtaa gatgcttttc tgtgactggt gagtactcaa
3801  ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg ctcttgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgct
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4201  tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt
4301  c
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> RDC3373Translated Insert Sequence

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 201  kqitcrtrgs phptsnhwks qhpfhgrlts nmvckhcehq spvrfdtfds lslsipaatw ghpltldhcl hhfissesvr dvvcdnctki eakgtlngek
 301  vehqrttfvk qlklgklpqc lcihlqrlsw sshgtplkrh ehvqfneflm mdiykyhllg hkpsqhnpkl nknpgptlel qdgpgaptpv lnqpgapktq
 401  ifmngacsps llptlsapmp fplpvvpdys sstylfrlma vvvhhgdmhs ghfvtyrrsp psarnplsts nqwlwvsddt vrkaslqevl sssayllfye
 501  rvlsrmqhqs qecksee
```