

Product datasheet for RC233728

USP4 (NM_001251877) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: USP4 (NM_001251877) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: USP4
Synonyms: UNP; Unph
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233728 representing NM_001251877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCGGAAGGTGGAGGCTGCCGTGAGCGACCGGATGCGGAGACTCAGAAGTCCGAGCTTGACCCTTAA
 TGAGGACCACACTCCAACGCGGGGCGCAGTGGTATCTTATTGACAGCCGGTGGTTCAAGCAGTGGAAGAA
 GTATGTGGGCTTTGACAGCTGGGACATGTACAATGTGGGTGAACATAACCTATTTCTGGCCAATAGAC
 AACTCTGGGCTATTTTCAGATCCTGAGAGTCAGACCTTAAAAGAACACTTAATTGATGAATTGGACTATG
 TATTGGTCCCTACCGAGGCGTGAATAAACTACTAACTGGTACGGCTGTGTAGAAGGCCAGCAACCCAT
 CGTCAGAAAAGTTGTGGAGCATGGCCTGTTTGTCAAGCACTGCAAAGTCCGAGGTGATTTGCTGGAAGT
 AAGCTCTGTGAGAACAGTGACCCACCAATGTGCTGAGTTGCCATTTTCAGCAAGGCAGACACCATTTGCAA
 CCATCGAGAAAAGAGATGCGGAAGCTATTCAACATCCCTGCGGAGCGTGAAACACGGCTCTGGAACAAATA
 CATGAGCAACACCTACGAGCAGTTGAGCAAGCTAGACAACACTGTCCAGGATGCTGGGCTATACCAGGGT
 CAGGTGCTAGTAATTGAGCCTCAAAATGAAGATGGCACATGGCCAGGCAGACCTTGCAAGTCAAAAGTTT
 CGTTCTTTTTGCCAGGCTGGAGTGCAATGGCGGATCTTGGCTCACTGCAACTTCTGCCTCCCGGGTTC
 AAGCAATTCTCCTGCCTCAGTTCCCGAGTAGCCCATCACATCTGGCTAATTTTTTTTTTTTGTAGATG
 GAGTCTCACTCTGTCACCAAGCTGGAGTGGGTGGTGCAGTCTCGGCTTACTCCCGGTTCAAGTGATGC
 TTCTGCCCCAGCCTCCCGAGTGGCTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233728 representing NM_001251877
Red=Cloning site Green=Tags(s)

MAEGGGCRERPAETQKSELGPLMRTTLQRGAQWYLIDSRWFQWKKYVGFDSWDMYVNGEHNLFPGPID
 NSGLFSDPESQTLKEHLIDELDYVLVPTAEWNKLLNHWYGCVEGQQPIVRKVVEHGLFVKHCKVEVYLLEL
 KLCENS DPTNVL SCHFSKADTIATIEKEMRKL FNIPAE RETRLWNKYMSNTYEQLSKLDNTVQDAGLYQG
 QVLVIEPQNE DGTWPRQTLQSKVSFFLPRLECNGAILAHCNFC L PGSSNSPASASRVAPSHLANFFFFEM
 ESHSVTKLECGGAVSAYSRSRVQVMLLPQPPEWLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001251877

ORF Size: 939 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001251877.2](#)

RefSeq Size: 1673 bp

RefSeq ORF: 942 bp

Locus ID: 7375

UniProt ID: [Q13107](#)

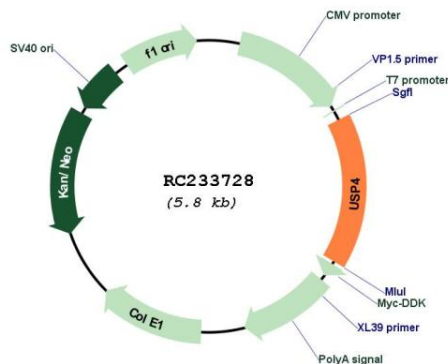
Cytogenetics: 3p21.31

Protein Families: Druggable Genome, Protease

MW: 36.1 kDa

Gene Summary: The protein encoded by this gene is a protease that deubiquitinates target proteins such as ADORA2A and TRIM21. The encoded protein shuttles between the nucleus and cytoplasm and is involved in maintaining operational fidelity in the endoplasmic reticulum. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC233728