

Product datasheet for **RC218264**

USP14 (NM_001037334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP14 (NM_001037334) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP14
Synonyms:	TGT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218264 representing NM_001037334
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGCTCTACTCCGTTACTGTAAATGGGAAAGGAGAAATTTGAAGGTGTAGAATTGAATACAGATG
 AACCTCCAATGGTATTCAAGGCTCAGCTGTTTGGGTTGACTGGAGTCCAGCCTGCCAGACAGAAAGTTAT
 GGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGAAACATCAAATAAAAAATATGGAGTTACCATGT
 GGATTGACAAACCTTGGTAACACTTGTACATGAATGCCACAGTTCAGTGTATTGCTTCTGTGCCTGAAC
 TCAAAGATGCCCTTAAAGGATGCAGGTGCCTTGAGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATAT
 TACTGCAGCCCTTAGAGATTTGTTTATTCCATGGATAAACTTCTTCCAGTATTCCACCTATTATTCTA
 CTGCAGTTTTTGCACATGGCTTTCCACAGTTTGGCGAGAAAGGTGAACAAGGACAGTATCTTCAACAGG
 ATGCTAATGAATGTTGGATACAAATGATGCGAGTATTGCAACAGAAATTGAAGCAATAGAGGATGATTC
 TGTTAAAGAGACAGACTCCTCATCTGCATCGGCAGCGACACCTTCTAAAAAGAAAAGTTTAAATCGATCAG
 TTCTTCGGTGTTGAGTTTGAAGTACCATGAAATGTACAGAATCTGAAGAAGAAGAAGTACCAAAGGAA
 AGGAAAATCAACTTCAGCTTAGCTGTTTTATCAATCAGGAAGTCAAGTATCTTTTACAGGACTTAAATT
 GCGACTTCAGGAAGAAATCACCAACAGTCTCCAACGTTGCAAAGAAATGCCCTGTATATCAAATCTTCC
 AAGATCAGCCGGCTGCCTGCTTACTTGACCATTAGATGGTTCGATTTTTTTATAAAGAGAAGGAATCTG
 TGAATGCCAAAGTTCTTAAGGATGTTAAATTTCTCTTATGTTGGATATGTATGAACTGTGTACACCAGA
 ACTTCAAGAGAAAATGGTGTCTTTTCGATCCAAATCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAG
 CCAAATAACAAGTGACAAAAGAGTAGTCCCAGAAAGAAGTAAAGTATGAACCTTTTCTTTTGTGATG
 ATATTGGCTCCAATAATTGTGGATACTATGACTTACAAGCAGTACTAACACACCAGGGAAGTCTAGTTC
 TTCAGGTCAATTATGATCATGGGTGAAAAGGAAACAAGATGAATGGATTAAGTTTGTATGACAAAGTC
 AGCATCGTAACACCAGAAGATATCTTACGGCTTTCTGGTGGTGGAGACTGGCATATCGCTTACGTTCTAC
 TCTATGGGCTCGCAGAGTTGAAATAATGGAAGAGGAAAGTGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218264 representing NM_001037334
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWKEKEFEGVELNTDEPPMVFKQLFAL TGVPARQKVMVKGGLKDDDWGNIKIKNMELPC
 GLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQYITAALRDLFDSMDKTSSSIPPIIL
 LQFLHMAFPQFAEKGEQQYLQQDANECWIQMMRVLQQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQ
 FFGVEFETTMKCTESEEEEEVTGKQENQLQLSCFINQEVKYLFTGLKLRQEEITKQSPTLQRNALYIKSS
 KISRLPAYLTIQMVRFYKEKESVNAKVLKDVKPLMLDMYELCTPELQEKMVFSRKFKDLKEDKKVNVQ
 PNTSDKKSSPQKEVKYEPFSFADDIGSNNGGYDLQAVLTHQGRSSSSGHVYVSWVWKRKQDEWIKFDDDKV
 SIVTPEDILRLSGGDWHIAYVLLYGPRRVEIMEESEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_d07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001037334

ORF Size: 1377 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_001037334.2](#)

RefSeq Size: 4051 bp

RefSeq ORF: 1380 bp

Locus ID: 9097

UniProt ID: [P54578](#)

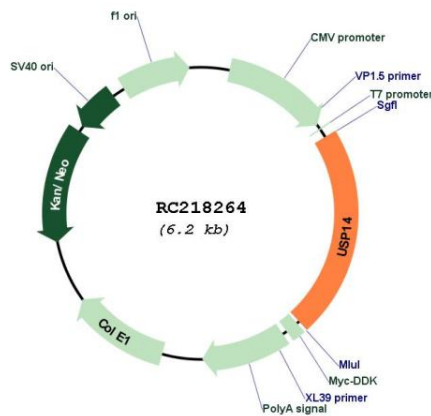
Cytogenetics: 18p11.32

Protein Families: Druggable Genome, Protease

MW: 52.2 kDa

Gene Summary: This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218264