

Product datasheet for **RC200337**

USP14 (NM_005151) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP14 (NM_005151) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC200337 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGCTCTACTCCGTTACTGTAAATGGGAAAGGAGAAATTTGAAGGTGTAGAATTGAATACAGATG
 AACCTCCAATGGTATTCAAGGCTCAGCTGTTGCGTTGACTGGAGTCCAGCCTGCCAGACAGAAAGTTAT
 GGTGAAAGGAGGAACGCTAAAGGATGATGATTGGGAAACATCAAAATAAAAAATGGAATGACTCTACTA
 ATGATGGGGTCAAGCAGATGCTCTCCAGAAGAACCCTCAGCCAAAAGTCTTCGTAGAAGACATGACAG
 AAGAACAGTTAGCATCTGCTATGGAGTTACCATGTGGATTGACAAACCTTGGTAACACTTGTACATGAA
 TGCCACAGTTCAGTGTATTCGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCAGGTGCCTTG
 AGAGCTTCAGGGGAAATGGCTTCAGCGCAGTATATTACTGCAGCCCTTAGAGATTTGTTTGATTCCATGG
 ATAAAACCTCTCCAGTATCCACCTATTATTCTACTGCAGTTTTTGACATGGCTTTCCACAGTTTGC
 CGAAGAGGTGAACAAGGACAGTATCTCAACAGGATGCTAATGAATGTTGGATACAAATGATGCGAGTA
 TTGCAACAGAAATTTGAAAGCAATAGAGGATGATTCTGTTAAAGAGACAGACTCCTCATCTGCATCGGCAG
 CGACACCTTCTAAAAAGAAAAGTTAATCGATCAGTTCCTCGGTGTTGAGTTGAAACTACCATGAAATG
 TACAGAATCTGAAGAAGAAGAGTACCAAAGGAAAGGAAAATCAACTTCAGCTTAGCTGTTTTATCAAT
 CAGGAAGTCAAGTATCTTTTACAGGACTTAAATTGCGACTTCAGGAAGAAATCACCAAACAGTCTCCAA
 CGTTGCAAAGAAATGCCTTGTATATCAAATCTTCAAGATCAGCCGGCTGCCTGCTTACTTGACCATTCA
 GATGGTTTCGATTTTTTATAAGAGAAGGAATCTGTGAATGCCAAAGTCTTAAGGATGTTAAATTTCT
 CTTATGTTGGATATGTGAAGTGTGTACACCAGAAGTCAAGAGAAAATGGTGTCTTTTCGATCCAAAT
 TCAAGGACTAGAAGATAAAAAAGTGAATCAGCAGCCAAATACAAGTGACAAAAAGAGTACTCCCGAGAA
 AGAAGTTAAGTATGAACCCCTTTCTTTTGTCTGATGATATTGGCTCCAATAATTGGGATACATGACTTA
 CAAGCAGTACTAACACACCAGGGAAGGTCTAGTCTTCAGGTCATTATGTATCATGGGTGAAAAGGAAAC
 AAGATGAATGGATTAAGTTTGTATGATGACAAAGTCAAGTACGATCGTAACACCAGAAATATCTTACGGCTTC
 TGGTGGTGGAGACTGGCATATCGCTTACGTTCTACTCTATGGGCCTCGCAGAGTTGAAATAATGGAAGAG
 GAAAGTGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200337 protein sequence
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWKEKFEVVELNTDEPPMVFKALFAL TGVQPARQKVMVKGGLTKDDDWGNIKIKNGMILL
 MMGSADALPEEPSAKTVFVEDMTEEQ LASAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGAL
 RASGEMASAYITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANECWIQMMRV
 LQQKLEAIEDDSVKETDSSSASAATPSKKSLLIDQFFGVFEFETMKCTESEEEEEVTGKGNQLQLSCFIN
 QEVKYLFTGLKLRLQEEITKQSPTLQRNALYIKSSKISRLLPAYLTIQMVRFYKEKESVNAKVLKDVKFP
 LMLDMYELCTPELQEKMVSFRSKFKDLEDKKNVQNPNTSDKSSPQKEVKYEPFSFADDIGSNNGYYDL
 QAVLTHQGRSSSSGHVYVWVKKRQDEWIKFDDDKVSIIVPEDILRLSGGGDWHIAYVLLYGPRRVEIMEE
 ESEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6206_h05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005151

ORF Size: 1482 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005151.4](#)

RefSeq Size: 4156 bp

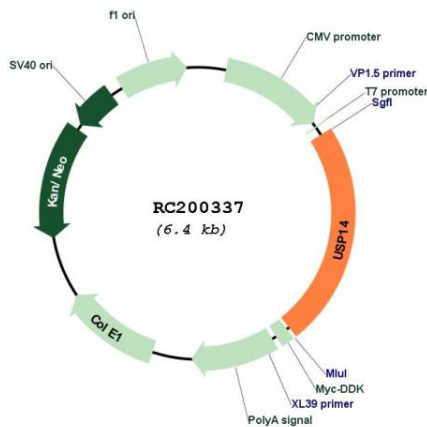
RefSeq ORF: 1485 bp

Locus ID: 9097

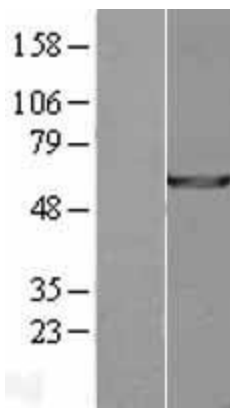
UniProt ID: [P54578](#)
Cytogenetics: 18p11.32
Domains: UBQ, UCH
Protein Families: Druggable Genome, Protease
MW: 56.1 kDa

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]

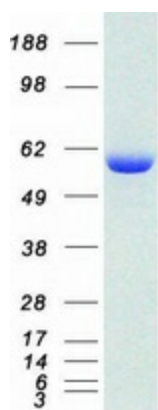
Product images:



Circular map for RC200337



Western blot validation of overexpression lysate (Cat# [LY417492]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified USP14 protein (Cat# [TP300337]). The protein was produced from HEK293T cells transfected with USP14 cDNA clone (Cat# RC200337) using MegaTran 2.0 (Cat# [TT210002]).