

Product datasheet for **RG223740**

USP44 (NM_001042403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP44 (NM_001042403) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG223740 representing NM_001042403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTAGCAATGGATACGTGCAAACATGTTGGGCAGCTGCAGCTTGCTCAAGACCATTCCAGCCTCAACC
 CTCAGAAATGGCACTGTGTGGACTGCAACACGACCGAGTCCATTTGGGCTTGCCTTAGCTGCTCCCATGT
 TGCTGTGGAAGATATATTGAAGAGCATGCACTCAAGCACTTTCAAGAAAGCAGTCATCCTGTTGCATTG
 GAGGTGAATGAGATGTACGTTTTTTGTTACCTTTGTGATGATTATGTTCTGAATGATAACACAACCTGGAG
 ACCTGAAGTTACTACGACGTACATTAAGTGCCATCAAAGTCAAATATCACTGCACAACCTCGTAGTGG
 GAGGTTTTTACGGTCCATGGGTACAGGTGATGATTCTTATTTCTTACATGACGGTGCCCAATCTCTGCTT
 CAAAGTGAAGATCAACTGTATACTGCTCTTTGGCACAGGAGAAGGATACTAATGGGTAATCTTTTCGAA
 CATGGTTTGAACAATCACCCATTGGAAGAAAAAGCAAGAAGAACCATTTTCAGGAAAAATAGTAGTAAA
 AAGAGAAGTAAAGAAAAGACGGCAGGAATTGGAGTATCAAGTTAAAGCAGAATTGGAAAGTATGCCTCCA
 AGAAAGAGTTTACGTTTACAAGGCTCGCTCAGTCGACCATAATAGAAATAGTTTCTGTTAGGTGCCAG
 CACAAACGCCAGCATCACAGCAAAAGATAAAGTACTCTCTACCTCAGAAATGAAATATCTCAAAAAGT
 CAGTGACTCCTCAGTTAAACGAAGGCCAATAGTAACTCCTGGTGTAAACAGGATTGAGAAATTTGGGAAAT
 ACTTGCTATATGAATCTGTTCTTCAGGTGTTGAGTCACTTACTTATTTTTCGACAATGTTTTTAAAGC
 TTGATCTGAACCAATGGCTGGCTATGACTGCTAGCGAGAAGACAAGATCTTGAAGCATCCACCAGTCAC
 AGATACAGTAGTATATCAAATGAATGAATGTGAGGAAAAAGATACAGGTTTTGTTTGCTCCAGACAATCA
 AGTCTGTATCAGGACTAAGTGGTGGAGCATCAAAGGTAGAAAGATGAACTTATTTCAGCCAAAGGAGC
 CAACCTCACAGTACATTTCTCTTTGTCATGAATTGCATACTTTGTTCCAAGTCATGTGGTCTGAAAGT
 GGCGTTGGTCTCACCATTTGCTATGCTACACTCAGTGTGGAGACTCATTCTGCCTTTCGTGGTTACGCC
 CAACAAGACGCTCAGGAATTTCTTTGTGAACCTTTAGATAAAAATACAACGTGAATTAGAGACAACCTGGTA
 CCAGTTTACCAGCTCTTATCCCCACTTCTCAAAGGAAACTCATCAAAACAAGTTCTGAATGTTGTAATAA
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 CCTTTCTGGGACTTGTCAATGGAGTTTCCAGAAAGGTATCAATGCAGTGGAAAAGATATTGCTTCCAGC
 CATGTCTGGTTACTGAAATGTTGGCCAAATTTACAGAACTGAAGCTTTAGAAGGAAAAATCTACGTATG
 TGACCAGTGAACCTCAAAGCGTAGAAGGTTTTCTCCTCAAACAGTTGACTCACAGAAGCCAGAAACAA
 CTTATGATATGCCACCTACCTCAGGTTCTCAGACTGCACCTCAAACGATTGAGTGGTGCAGGACGTAAAT
 ACCGAGAGAAGATTGGTGTTCATGTTGGCTTTGAGGAAATCTTAAACATGGAGCCCTATTGCTGCAGGGA
 GACCCTGAAATCCCTCAGACCAGAATGCTTTATCTATGACTTGTCCGCGGTGGTGTGCACCATGGGAAA
 GGATTTGGCTCAGGGCACTACACTGCCTACTGCTATAATTCTGAAGGAGGGTTCTGGGTACACTGCAATG
 ATTCAAACTAAGCATGTGCACTATGGATGAAGTATGCAAGGCTCAAGCTTATATCTTGTGTTTATACCCA
 ACGAGTACTGAGAAATGGACATTCTAACTTTTGCCTCCAGAGCTCCTGTTGGGGAGCCAACATCCCAAT
 GAAGACGCTGATACCTCGTCTAATGAAATCCTTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223740 representing NM_001042403
 Red=Cloning site Green=Tags(s)

MLAMDTCKHVGQLQLAQDHSSLNPQKWHCVDCNTTESIWACLSCSHVACGRYIEEHALKHFQESSHPVAL
 EVNEMYVFCYLDDYVLDNDNTTGDLKLLRRTL SAIKSONYHCTTRSGRFLRSMGTGDDSYFLHDGAQSL
 QSEDQLYTALWHRRLMKGIFRTWFEQSPIGRKKQEEPFQEKIVVKREVKKRRQLEYQVKAELSMPP
 RKSLRLQGLAQSTIIIEIVSVQVPAQTPASPAKDKVLSTSENEISQKVSDDSSVKRRPIVTPGVTGLRNLGN
 TCYMNSVLQVLSHLLIFRQCFLKLDLNQWLAMTASEKTRSCKHPPVTDTVVYQMNECQEKDTGFVCSRQS
 SLSSGLSGGASKGRKMELIQPKEPTSQYISLCHLHTLFQVMWSGKVALVSPFAMLHSVWRLIPAFRGYA
 QQDAQEFLCELLDKIQRELETTGTSPLALIPTSQRKLIKQVLNVVNNIFHGQLLSQVTCACDNKSNTIE
 PFWDLSEFFPERYQCSGKDIASQPCLVTEMLAKFTETEALGKIYVCDQCNSKRRRFSSKPVVLTEAQKQ
 LMIChLPQVLRHLKRFWRWGRNNREKIGVHVGFEEILNMEPYCCRETLKSLRPECFIYDLSAVVMHHGK
 GFGSGHYTAYCYNSEGGFWVHCNDSKLSMCTMDEVCKAQAYILFYQRTENGHSLKLLPPELLLSQHPN
 EDADTSSNEILS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001042403

ORF Size: 2136 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_001042403.3](#)

RefSeq Size: 3334 bp

RefSeq ORF: 2139 bp

Locus ID: 84101

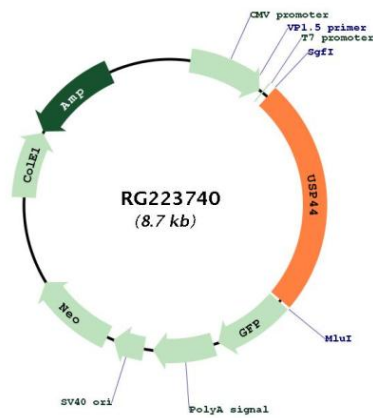
UniProt ID: [Q9H0E7](#)

Cytogenetics: 12q22

Protein Families: Druggable Genome, Protease

Gene Summary: The protein encoded by this gene is a protease that functions as a deubiquitinating enzyme. The encoded protein is thought to help regulate the spindle assembly checkpoint by preventing early anaphase onset. This protein specifically deubiquitinates CDC20, which stabilizes the anaphase promoting complex/cyclosome. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG223740