OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC223890

USP28 (NM_020886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP28 (NM_020886) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223890 representing NM_020886 Red=Cloning site Blue=ORF Green=Tags(s) CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACTGCGGAGCTGCAGCAGGACGACGCGGCCGGCGCGGCAGACGGCCACGGCTCGAGCTGCCAAATGC TGTTAAATCAACTGAGAGAAATCACAGGCATTCAGGACCCTTCCTTTCTCCATGAAGCTCTGAAGGCCAG TAATGGTGACATTACTCAGGCAGTCAGCCTTCTCACTGATGAGAGAGTTAAGGAGCCCAGTCAAGACACT GTTGCTACAGAACCATCTGAAGTAGAGGGGAGTGCTGCCAACAAGGAAGTATTAGCAAAAGTTATAGACC TTACTCATGATAACAAAGATGATCTTCAGGCTGCCATTGCTTTGAGTCTACTGGAGTCTCCCAAAATTCA AGCTGATGGAAGAGATCTTAACAGGATGCATGAAGCAACCTCTGCAGAAACTAAACGCTCAAAGAGAAAA CGCTGTGAAGTCTGGGGAGAAAACCCCAATCCCAATGACTGGAGGAGAGTTGATGGTTGGCCAGTTGGGC TGAAAAATGTTGGCAATACATGTTGGTTTAGTGCTGTTATTCAGTCTCTCTTTCAATTGCCTGAATTTCG AAGACTTGTTCTCAGTTATAGTCTGCCACAAAATGTACTTGAAAATTGTCGAAGTCATACAGAAAAGAGA AATATCATGTTTATGCAAGAGCTTCAGTATTTGTTTGCTCTAATGATGGGATCAAATAGAAAATTTGTAG ACCCGTCTGCAGCCCTGGATCTATTAAAGGGAGCATTCCGATCATCTGAGGAACAGCAGCAAGATGTGAG TGAATTCACACACAAGCTCCTGGATTGGCTAGAGGACGCATTCCAGCTAGCTGTTAATGTTAACAGCAGT CCCAGGAACAAATCTGAAAATCCAATGGTGCAGCTGTTCTATGGTACTTTCCTGACTGAAGGGGTTCGTG AAGGAAAACCCTTTTGTAACAATGAGACCTTCGGCCAGTATCCTCTTCAGGTAAACGGTTATCGCAACTT AGACGAGTGTTTGGAAGGGGCCATGGTGGAGGGTGATGTTGAGCTTCTTCCCTCCGATCACTCGGTGAAG TATGGACAAGAGCGTTGGTTTACAAAGCTACCTCCAGTGTTGACCTTTGAACTCTCAAGATTTGAGTTTA ATCAGTCCCTTGGGCAGCCAGAGAAAATTCACAATAAGCTGGAATTTCCTCAGATTATTTATATGGACAG GTACATGTACAGGAGCAAGGAGCTTATTCGAAATAAGAGAGAGTGTATTCGAAAGTTGAAGGAGGAAATA AAAATTCTGCAGCAAAAATTGGAAAGGTATGTGAAATATGGCTCAGGCCCAGCTCGGTTCCCGCTCCCGG ACATGCTGAAATATGTTATTGAATTTGCTAGTACAAAACCTGCCTCAGAAAGCTGTCCACCTGAAAGTGA CACACATATGACATTACCACTTTCTTCAGTGCACTGCTCGGTTTCTGACCAGACATCCAAGGAAAGTACA AGTACAGAAAGCTCTTCTCAGGATGTTGAAAGTACCTTTTCTTCTCCTGAAGATTCTTTACCCAAGTCTA AACCACTGACATCTTCTCGGTCTTCCATGGAAATGCCTTCACAGCCAGCTCCACGAACAGTCACAGATGA

View online »

GGAGATAAATTTTGTTAAGACCTGTCTTCAGAGATGGAGGAGTGAGATTGAACAAGATATACAAGATTTA
AAGACTTGTATTGCAAGTACTACTCAGACTATTGAACAGATGTACTGCGATCCTCTCCTTCGTCAGGTGC
CTTATCGCTTGCATGCAGTTCTTGTTCATGAAGGACAAGCAAATGCTGGACACTATTGGGCCTATATCTA
TAATCAACCCCGACAGAGCTGGCTCAAGTACAATGACATCTCTGTTACTGAATCTTCCTGGGAAGAAGTT
GAAAGAGATTCCTATGGAGGCCTGAGAAATGTTAGTGCTTACTGTCTGATGTACATTAATGACAAACTAC
CCTACTTCAATGCAGAGGCAGCCCCAACTGAATCAGATCAAATGTCAGAAGTGGAAGCCCTATCTGTGGA
ACTCAAGCATTACATTCAGGAGGATAACTGGCGGTTTGAGCAGGAAGTAGAGGAGTGGGAAGAAGAGCAG
TCTTGCAAAATCCCTCAAATGGAGTCCTCCACCAACTCCTCATCACAGGACTACTCTACATCACAAGAGC
CTTCAGTAGCCTCTTCTCATGGGGTTCGCTGCTTGTCGTCTGAGCATGCTGTGATTGTAAAGGAGCAAAC
TGCCCAGGCTATTGCAAACACAGCCCGTGCCTATGAGAAGAGCGGTGTAGAAGCGGCACTGAGTGAGGTG
ATGCTGAGCCCTGCCATGCAAGGGGTCATCCTGGCCATAGCTAAAGCCCGTCAGACCTTTGACCGAGATG
GGTCTGAAGCAGGGCTGATTAAGGCATTCCATGAAGAATACTCCAGGCTCTATCAGCTTGCCAAAGAGAC
CCCCACCTCTCACAGTGATCCTCGACTTCAGCATGTCCTTGTCTACTTTTTCCAAAATGAAGCACCCAAA
AGGGTAGTAGAACGAACCCTTCTGGAACAGTTTGCAGATAAAAATCTTAGCTATGATGAAAGATCAATCA
GCATTATGAAGGTGGCTCAAGCGAAACTGAAGGAAATTGGTCCAGATGACATGAATATGGAAGAGTACAA
GAAGTGGCATGAAGATTATAGTTTGTTCCGAAAAGTGTCTGTGTATCTCCTAACAGGCCTAGAACTCTAT
CAAAAAGGAAAGTACCAAGAGGCACTTTCCTACCTGGTATATGCCTACCAGAGCAATGCTGCCCTGCTGA
TGAAGGGGCCCCGCCGGGGGGTCAAAGAATCCGTGATTGCTTTATACCGAAGAAAATGCCTTCTGGAGCT
GAATGCCAAAGCAGCTTCTCTTTTTGAAACAAATGATGATCACTCCGTAACTGAGGGCATTAATGTGATG
AATGAACTGATCATCCCCTGCATTCACCTTATCATTAATAATGACATTTCCAAGGATGATCTGGATGCCA
TTGAGGTCATGAGAAACCATTGGTGCTCTTACCTTGGGCAAGATATTGCAGAAAATCTGCAGCTGTGCCT
AGGGGAGTTTCTACCCAGACTTCTAGATCCTTCTGCAGAAATCATCGTCTTGAAAGAGCCTCCAACTATT
CGACCCAATTCTCCCTATGACCTATGTAGCCGATTTGCAGCTGTCATGGAGTCAATTCAGGGAGTTTCAA
CTGTGACAGTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

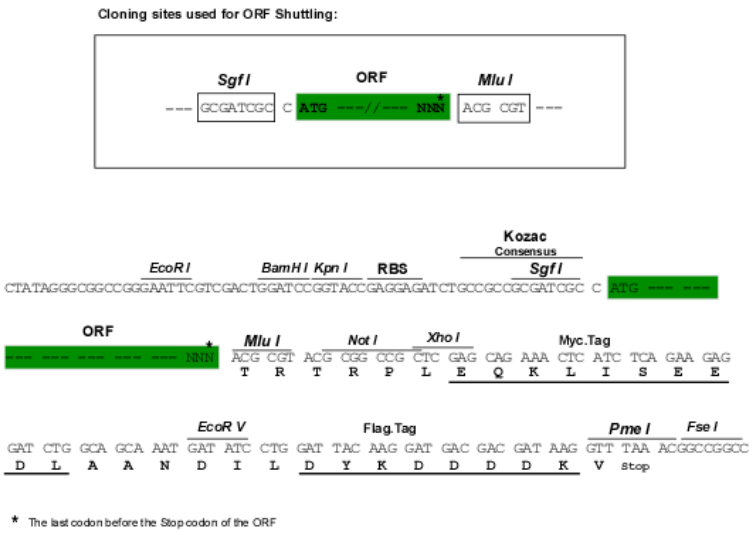
>RC223890 representing NM_020886
Red=Cloning site Green=Tags(s)

MTAELQQDDAAGAADGHGSSCQMLLNQLREITGIQDPSFLHEALKASNGDITQAVSLLTDERVKEPSQDT
VATEPSEVEGSAANKEVLAKVIDLTHDNKDDLQAAIALSLLESPKIQADGRDLNRMHEATSAETKRSKRK
RCEVWGENPNPNDWRRVDGWPVGLKNVGNTCWFSAVIQSLFQLPEFRRLVLSYSLPQNVLENCRSHTEKR
NIMFMQELQYLFALMMGSNRKFVDPSAALDLLKGAFRSSEEQQQDVSEFTHKLLDWLEDAFQLAVNVNSP
RNKSENPMVQLFYGTFLTEGVREGKPFCNNETFGQYPLQVNGYRNLDECLEGAMVEGDVELLPSDHSVKY
GQERWFTKLPPVLTFELSRFEFNQSLGQPEKIHNKLEFPQIIYMDRYMYRSKELIRNKRECIRKLKEEIK
ILQQKLERYVKYGSGPARFPLPDMLKYVIEFASTKPASESCPPESDTHMTLPLSSVHCSVSDQTSKESTS
TESSSQDVESTFSSPEDSLPKSKPLTSSRSSMEMPSQPAPRTVTDEEINFVKTCLQRWRSEIEQDIQDLK
TCIASTTQTIEQMYCDPLLRQVPYRLHAVLVHEGQANAGHYWAYIYNQPRQSWLKYNDISVTESSWEEVE
RDSYGGLRNVSAYCLMYINDKLPYFNAEAAPTESDQMSEVEALSVELKHYIQEDNWRFEQEVEEWEEEQS
CKIPQMESSTNSSSQDYSTSQEPSVASSHGVRCLSSEHAVIVKEQTAQAIANTARAYEKSGVEAALSEVM
LSPAMQGVILAIAKARQTFDRDGSEAGLIKAFHEEYSRLYQLAKETPTSHSDPRLQHVLVYFFQNEAPKR
VVERTLLEQFADKNLSYDERSISIMKVAQAKLKEIGPDDMNMEEYKKWHEDYSLFRKVSVYLLTGLELYQ
KGKYQEALSYLVYAYQSNAALLMKGPRRGVKESVIALYRRKCLLELNAKAASLFETNDDHSVTEGINVMN
ELIIPCIHLIINNDISKDDLDAIEVMRNHWCSYLGQDIAENLQLCLGEFLPRLLDPSAEIIVLKEPPTIR
PNSPYDLCSRFAAVMESIQGVSTVTVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

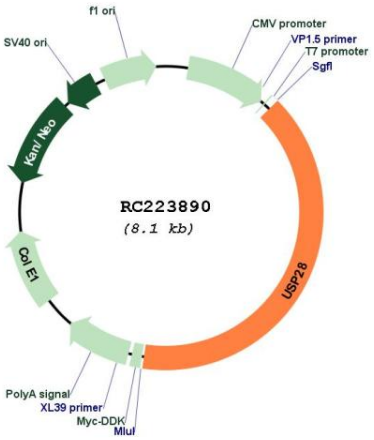
Cloning Scheme:



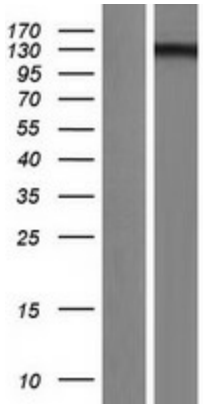
ACCN:	NM_020886
ORF Size:	3234 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_020886.4
RefSeq Size:	4642 bp
RefSeq ORF:	3234 bp
Locus ID:	57646

UniProt ID:	Q96RU2
Cytogenetics:	11q23.2
Domains:	UCH
Protein Families:	Protease
MW:	122.3 kDa
Gene Summary:	The protein encoded by this gene is a deubiquitinase involved in the DNA damage pathway and DNA damage-induced apoptosis. Overexpression of this gene is seen in several cancers. [provided by RefSeq, Oct 2016]

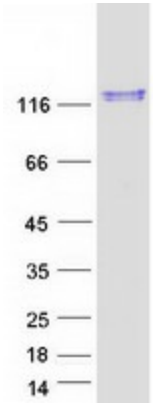
Product images:



Circular map for RC223890



Western blot validation of overexpression lysate (Cat# [LY412247]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223890 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified USP28 protein (Cat# [TP323890]). The protein was produced from HEK293T cells transfected with USP28 cDNA clone (Cat# RC223890) using MegaTran 2.0 (Cat# [TT210002]).