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 RG223890

USP28 (NM_020886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP28 (NM_020886) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG223890 representing NM_020886
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGCGGAGCTGCAGCAGGACGACGCGGCCGGCGCGGCAGACGGCCACGGCTCGAGCTGCCAAATGC
TGTTAAATCAACTGAGAGAAATCACAGGCATTCAGGACCCTTCCTTTCTCCATGAAGCTCTGAAGGCCAG
TAATGGTGACATTACTCAGGCAGTCAGCCTTCTCACTGATGAGAGAGTTAAGGAGCCCAGTCAAGACACT
GTTGCTACAGAACCATCTGAAGTAGAGGGGAGTGCTGCCAACAAGGAAGTATTAGCAAAAGTTATAGACC
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CGCTGTGAAGTCTGGGGAGAAAACCCCAATCCCAATGACTGGAGGAGAGTTGATGGTTGGCCAGTTGGGC
TGAAAAATGTTGGCAATACATGTTGGTTTAGTGCTGTTATTCAGTCTCTCTTTCAATTGCCTGAATTTCG
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AATATCATGTTTATGCAAGAGCTTCAGTATTTGTTTGCTCTAATGATGGGATCAAATAGAAAATTTGTAG
ACCCGTCTGCAGCCCTGGATCTATTAAAGGGAGCATTCCGATCATCTGAGGAACAGCAGCAAGATGTGAG
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CACTGACATCTTCTCGGTCTTCCATGGAAATGCCTTCACAGCCAGCTCCACGAACAGTCACAGATGAGGA

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GATAAATTTTGTTAAGACCTGTCTTCAGAGATGGAGGAGTGAGATTGAACAAGATATACAAGATTTAAAG
ACTTGTATTGCAAGTACTACTCAGACTATTGAACAGATGTACTGCGATCCTCTCCTTCGTCAGGTGCCTT
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CCCAATTCTCCCTATGACCTATGTAGCCGATTTGCAGCTGTCATGGAGTCAATTCAGGGAGTTTCAACTG
TGACAGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223890 representing NM_020886
Red=Cloning site Green=Tags(s)

MTAELQQDDAAGAADGHGSSCQMLLNQLREITGIQDPSFLHEALKASNGDITQAVSLLTDERVKEPSQDT
VATEPSEVEGSAANKEVLAKVIDLTHDNKDDLQAAIALSLLESPKIQADGRDLNRMHEATSAETKRSKRK
RCEVWGENPNPNDWRRVDGWPVGLKNVGNTCWFSAVIQSLFQLPEFRRLVLSYSLPQNVLENCRSHTEKR
NIMFMQELQYLFALMMGSNRKFVDPSAALDLLKGAFRSSEEQQQDVSEFTHKLLDWLEDAFQLAVNVNSP
RNKSENPMVQLFYGTFLTEGVREGKPFCNNETFGQYPLQVNGYRNLDECLEGAMVEGDVELLPSDHSVKY
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TESSSQDVESTFSSPEDSLPKSKPLTSSRSSMEMPSQPAPRTVTDEEINFVKTCLQRWRSEIEQDIQDLK
TCIASTTQTIEQMYCDPLLRQVPYRLHAVLVHEGQANAGHYWAYIYNQPRQSWLKYNDISVTESSWEEVE
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LSPAMQGVILAIAKARQTFDRDGSEAGLIKAFHEEYSRLYQLAKETPTSHSDPRLQHVLVYFFQNEAPKR
VVERTLLEQFADKNLSYDERSISIMKVAQAKLKEIGPDDMNMEEYKKWHEDYSLFRKVSVYLLTGLELYQ
KGKYQEALSYLVYAYQSNAALLMKGPRRGVKESVIALYRRKCLLELNAKAASLFETNDDHSVTEGINVMN
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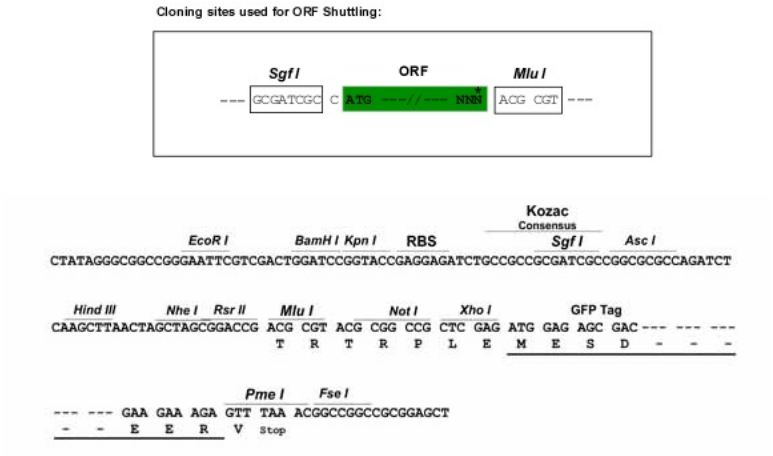
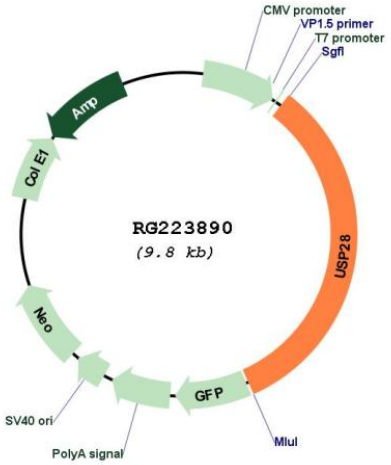
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_020886
ORF Size:	3231 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
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]