

Product datasheet for **RG210554**

USP21 (NM_012475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP21 (NM_012475) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP21
Synonyms:	USP16; USP23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210554 representing NM_012475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCAGGCCTCTGAGCACCGCCTGGGCGGTACCCGAGAGCCACCTGTTAATATCCAGCCCCGAGTGG
 GATCCAAGCTACCATTTGCCCCAGGGCCCGCAGCAAGGAGCGCAGAAACCCAGGCTCTGGGCCAAACCC
 CATGTTACGACCTCTGCCTCCCCGGCCAGGTCTGCCTGATGAACGGCTCAAGAACTGGAGCTGGGACGG
 GGACGGACCTCAGGCCCTCGTCCAGAGGCCCCCTTCGAGCAGATCATGGGGTCCCTGCCTGGCTCAC
 CACCCCAACAGTGGCTTTGCCTCTCCCATCTCGGACCACTTAGCCCGTTCCAAGTCTGTGAGCAGTGG
 GGACTTGGCTCCAATGGGATTGCCTTGGGAGGGCACCCTGGCACCAGGAGCTTGGGGTGCACCTGAGC
 CGCTTGGCCCTCCGGCTGAGCCACCCACTTTGAGACGTAGCACTTCTCTCCGCCCTAGGGGGCTTTC
 CTGGACCCCTACCTGTTGAGCATAACGACAGAGCCCTGCTTCCCATGGCTCCTTCCACATGATATC
 CGCCCGTCTCTGAGCCTTTACTCTGATGACAAGATGGCTCATCACACTCCTTCTGGGCTCTGGT
 CATGTTGGCCTTCGAAACCTGGGAAACAGTGTCTCCTGAATGCTGTGCTGCAAGTGTCTGAGCAGCACTC
 GACCTTCTCGGGACTTCTGTCTGAGAAGGACTTCCGGCAAGAGGTGCCTGGAGGAGGCCGAGCCCAAGA
 GCTCACTGAAGCCTTTCAGATGTGATTGGTGCCTCTGGCACCCCTGACTCCTGCGAAGCTGTGAATCCT
 ACTCGATCCGAGCTGTCTTCCAGAAATATGTTCCCTCCTTCTCTGGATACAGCCAGCAGGATGCCCAAG
 AGTTCCTGAAGCTCCTCATGGAGCGCTACACCTTGAATCAACCGCCGAGGCGCCGGGCTCCACCGAT
 ACTTGCCAATGGTCCAGTTCCTCTCCACCCCGCCGAGGAGGGGCTCTGCTAGAAGAACCTGAGTTAAGT
 GATGATGACCGAGCCAACCTAATGTGAAACGTTACCTGGAGCGAGAGGACAGCAAGATTGTGGACCTGT
 TTGTGGCCAGTTGAAAAGTTGTCTCAAGTGCCAGGCTGTGGTATCGTCCACGACCTTCGAGGTTTT
 TTGTGACCTGTCCCTGCCATCCCCAAGAAAGGATTTGCTGGGGCAAGGTGTCTCTGCGGGATTGTTTC
 AACCTTTTCACTAAGGAAGAAGAGCTAGAGTCGGAGAATGCCCCAGTGTGTGACCATGTGCGCAGAAAA
 CTCGAAGTACAAAAAGTTGACAGTACAAAGATTCCTCGAATCCTCGTCTCCATCTGAATCGATTTTC
 TGCCTCCCGAGGCTCCATCAAAAAAGTTGAGTGGTGTAGACTTTCCACTGCAGCGACTGAGCCTAGGG
 GACTTTGCCAGTGACAAAGCCGGAAGTCTGTATACCAGCTGTATGCCCTTTCGAACCACTCAGGCAGCG
 TCCACTATGGCCACTACACAGCCCTGTGCCGTGCCAGACTGGTTGGCATGTCTACAATGACTCTCGTGT
 CTCCCCTGTGAGTAAAACAGGTGGCATCCAGCGAGGGCTACGTGCTGTCTACCAACTGATGCAGGAG
 CCACCCCGGTGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210554 representing NM_012475
 Red=Cloning site Green=Tags(s)

MPQASEHRLGRTREPPVNIQPRVSKLPLFAPRARSKERRNPGSGPNMLRPLPPRPGLPDERLKKLELGR
 GRTSGPRPRGPLRADHGVPPLPGSPPTVALPLPSRTNLARSKSVSSGDLRPMGIALGGHRTGELGAALS
 RLALRPEPPTLRRSTSLRRLGGFPGPPTLFSIRTEPPASHGSFHMI SARSEPFYSDDKMAHHTLLLGSG
 HVGLRNLGNTCFLNAVLQCLSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNP
 TRFRAVFQKYVPSFSGYSQQDAQEFLKLLMERLHLEINRRGRRAPPILANGPVPSPRRGGALLEPELS
 DDDRANLMMWKRYLEREDSKIIVDLFVQQLKSKLKCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSRLRDCF
 NLFTKEEELSENAPVCDRCRQKTRSTKLLTVQRFPRILVLHLNRF SASRGSIKKSSVGVDFPLQLRSLG
 DFASDKAGSPVYQLYALCNHSGSVHYGHYALCRCQTGWHVYNDSRVSPVSENQVASSEGVVLFYQLMQE
 PPRCL

TRTRPLE - GFP Tag - V

Restriction Sites:

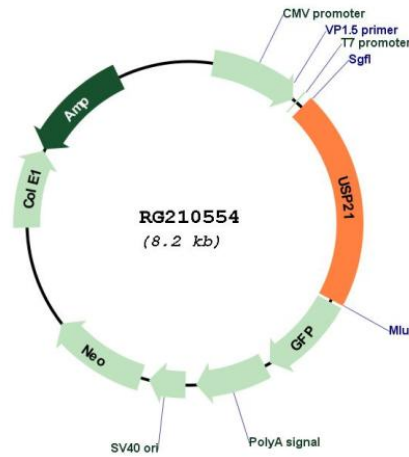
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_012475
 ORF Size: 1695 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:	<ol style="list-style-type: none"> 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_012475.4 , NP_036607.3
RefSeq Size:	2217 bp
RefSeq ORF:	1698 bp
Locus ID:	27005
UniProt ID:	Q9UK80
Cytogenetics:	1q23.3
Domains:	UCH
Protein Families:	Druggable Genome, Protease
Gene Summary:	This gene encodes a member of the C19 peptidase family, also known as family 2 of ubiquitin carboxy-terminal hydrolases. The encoded protein cleaves ubiquitin from ubiquitinated proteins for recycling in intracellular protein degradation. The encoded protein is also able to release NEDD8, a ubiquitin-like protein, from NEDD8-conjugated proteins. This gene has been referred to as USP16 and USP23 but is now known as USP21. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]