

Product datasheet for **MG210640**

Usp1 (NM_146144) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp1 (NM_146144) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210640 representing NM_146144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGCGTCATACCTAGTGAAGTAATGGGCTTTCAGAGGCAGTCCATCCAAGAAAAACAGACTGT
 CTCTGAAGTTTTTTCAGAAAAAGGAACTAAAAGAGCCTTAGACTTTACTGATTCTCAAGAAAAATGAAGA
 AAAAACTCTGAATATAGAGGATCTGAGATTGACCAAGTTGTTCCCTGCTGCACAGTCCTCCCAAGTAAGC
 TGCGAGAAGAGAGAGAACTTGTACCATTTGTGGGATTGAATAACCTTGCAACACTTGTATCTGAATA
 GTATTCTCAGGTGTTACTTTTGTCTGGCTTAAAGACTGGAGTGAAGCACTTATTTAATATTATTTT
 AAGGAAGAAAGAAGCTCTGAAGGATGACTCTAATCAGAAGGATAAGGGAAGCTGCAAGAAAGAGTCTTTG
 GCAAGTTATGAGCTTATGTAGTTTACAGTCTTAATAATTTTCAGTTGAACAGCTTCAGGCTAGTTTTT
 TCTTAAATCCAGAGAAATACAGATGAAGTCTACACAGCCAAAGGCGACTGCTGAACACACTCAGGGA
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 ATCAAGAAACATGCCAACTCCTAAAAAAGAAGAAATAAAAACTGGCTGAATTATCCGCAAGGTTG
 AAGAACAATCTCTTCAGAAAGAGGAAACAGGTGGAATTACCAGCACAGAGATTGACAGTATGAGGAATAC
 GGAGGACGTCAAAGAGCAGCTCCCAAAGGGAAGTGGAAAAGAAAAAGTACAGTGAAGTGAAGTAAACGTG
 AAGAAAAAGGTTAACTGTCCAGGGAATCCCAAGCATTGGAAGAAAAACCAGAGACAAACCAGATCCAAGA
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 ATCTTTCCAAGTCTGTAGTCTTGAAAAATAACAATAACAGCGCTCCAAGGACAACCTAAGGAAA
 AGGAGGTTGATGTTGAAGAGGACTTGGAAGTACGGAAGTACCACACAGCTAATGGTGGACCCGAATC
 TCCAGGAAGTAGCGTCACACCTGTGGACAGCAGTGAAGCCAAGTCCGGAACAAAGGTGCTGAACAGATT
 GGCTTTGAGCTAGTAGAGAACTGTTTCAAGGTGAGCTCGTGTAAAGACTCGGTGTTTGGAAATGTGAAA
 GCTTAACAGAAAGAAGAGAAGATTTCCAGGATATTAGTGTCCAGTGAAGAAAGTGAAGTCTTCCAGGT
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 TGGCTTGGAGTTTACTGTTACGGTGGTGGACTTCCAAGATCAACACTCCTTTATTGACACCTCTTAAA
 CTGTCACTAGAAGATGGAGCACAAAGCCGACGAATGACAGCTATGGATTATTTGCCGTTGTGATGCACA
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 GCAAGGGGGACGGCTGGGAACTACGACGATGAAGTATCAATTAGAGTTGGTGGAAATGCCAGCCAAGTA
 AAGTTTTGAACAAAAAAATGTAGAAGTATTGGACTTCTCGGTGGACAAAAGAGCAAAGCAGATTATGA
 GCTGTACAACAAAGCATCTAATCCTGATAAGGTGGTGGGACACCATTACCGACAATAGAAATTTCTGAA
 ACTAATGATACTACTAATGGGACCCACGAATCTGACAGGAACAAGGAATCCAGTGACCAACAGGCGTTA
 ACATGAACGGACTTGAGAACAAAATTTCTATGTAGTCAAAGCTTAAAGGAGTACGAGGGGAAGTGTT
 GCTCTTTGACGATTCTGAGGTAAGTGAAGAGAGAAAGACTTCTGAATTTCTCTCCCTTCTACA
 TCCCTACGCTACTCCCTACTTGTCTATTCTATAAAAAATTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210640 representing NM_146144
 Red=Cloning site Green=Tags(s)

MPGVIPSESNGLSRGSPSKNRLSLKFFQKKETKRALDFDTSQENEKTSYRGSEIDQVVPAAQSSPVS
 CEKRENLLPFVGLNNLGNTCYLNSILQVLYFCPGFKTGVKHLFNIISRKKEALKDDSNQKDKGSCKEESL
 ASYELICSLQSLIISVEQLQASFLLNPEKYTDELATQPRRLNLTRELNPMYEGFLQHDAQEVLQCILGN
 IQETCQLLKKKEEIKNLAELSGKVEEQSLQKEETGGITSTEIDSMRNTEDVKEQLPKGNWKRKSDSESSNV
 KKKVKLSRESQPLEENQRQTRSKRKAIGDTLEAAPKIIIPKCVSESESAKPSQKKSKVKINWLKPSTKQPS
 ILSKFCSLGKITTNQRSGQPKEKEGDVEEDLEKYGSDHTANGGPESPGSSVTPVDSSEAKSGNKGAEQI
 GFELVEKLFQGGQLVLRTRCLECESLTERREDFQDISVPVQEDELKVEESSEISPEPKTEMKTLRWAISSQ
 FASVERIVGEDKYFCENCHHYTEAERSLLFDKMPVITIHLCFAASGLEFDCYGGGLSKINTPLLTPLK
 LSLEEWSTKPTNDSYGLFAVVMHSGITISSGHYASVKVTDLNSLELDEGNFVVDQMCELKPEPLTEEQ
 ARGTAGNYDDEVSIRVGGNAQPSKVLNKKNVEGIGLLGGQKSKADYELYNKASNPDKVVGTPFTDNRNSE
 TNDTTNGTHESDRNKESDQTGVNMNLENKISYVVQSLKEYEGKWLFFDDSEVKVTEEKDFLNSLSPST
 SPTSTPYLLFYKKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146144

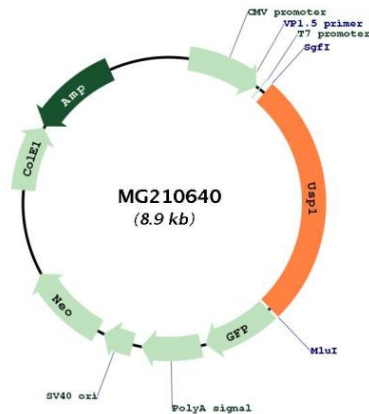
ORF Size: 2352 bp

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_146144.4
RefSeq Size:	3567 bp
RefSeq ORF:	2355 bp
Locus ID:	230484
UniProt ID:	Q8BJQ2
Cytogenetics:	4 C6
Gene Summary:	This gene encodes a member of the ubiquitin-specific peptidase family. The encoded protein acts as a catalytic subunit in a heterodimeric deubiquitinating enzyme complex that deubiquitinates Fanconi anemia, complementation group D2, and plays a role in homologous recombination-mediated DNA repair. Disruption of this gene is associated with a Fanconi anemia-like phenotype and genomic instability. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene have been defined on chromosomes 3, 12, and 15. [provided by RefSeq, Aug 2014]

Product images:



Circular map for MG210640