

## Product datasheet for **RG202374**

### UBP43 (USP18) (NM\_017414) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBP43 (USP18) (NM_017414) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBP43
Synonyms:	ISG43; PTORCH2; UBP43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202374 representing NM_017414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAAGGCGTTTGGGCTCCTGAGGCAAATCTGTCAGTCCATCCTGGCTGAGTCTCGCAGTCCCCGG  
CAGATCTTGAAGAAAAGAAGGAAGAAGACAGCAACATGAAGAGAGAGCAGCCAGAGAGCGTCCCAGGGC  
CTGGGACTACCCTCATGGCCTGGTTGGTTACACAACATTGGACAGACCTGCTGCCTAACTCCTTGATT  
CAGGTGTTGTAATGAATGTGGACTTCACCAGGATATTGAAGAGGATCACGGTCCCAGGGGAGCTGACG  
AGCAGAGGAGAAGCGTCCCTTTCCAGATGCTTCTGCTGCTGGAGAAGATGCAGGACAGCCGGCAGAAAGC  
AGTGCGGCCCTGGAGCTGGCCTACTGCCTGCAGAAGTGCAACGTGCCCTTGTTCCTCAACATGATGCT  
GCCCAACTGTACCTCAAACCTCTGGAACCTGATTAAGGACCAGATCACTGATGTGCACTTGGTGGAGAGAC  
TGCAGGCCCTGTATACGATCCGGGTGAAGGACTCCTTGATTTGCGTTGACTGTGCCATGGAGAGTAGCAG  
AAACAGCAGCATGCTCACCTCCCCTTCTCTTTTTGATGTGGACTCAAAGCCCCTGAAGACACTGGAG  
GACGCCCTGCACTGCTTCTTCCAGCCCAGGGAGTTATCAAGCAAAAGCAAGTCTTGTGAGAAGTGTG  
GGAAGAAGACCCGTGGGAAACAGGTCTTGAAGCTGACCCATTTGCCCCAGACCCTGACAATCCACCTCAT  
GCGATTCTCCATCAGGAATTCACAGACGAGAAAGATCTGCCACTCCCTGTACTTCCCCCAGAGCTTGGAT  
TTCAGCCAGATCCTTCCAATGAAGCGAGAGTCTTGTGATGCTGAGGAGCAGTCTGGAGGGCAGTATGAGC  
TTTTTGCTGTGATTGCGCACGTGGGAATGGCAGACTCCGGTCATTACTGTGTCTACATCCGGAATGCTGT  
GGATGGAAAATGTTCTGCTTCAATGACTCCAATATTTGCTTGGTGTCTCTGGGAAGACATCCAGTGTACC  
TACGAAATCCTAACTACCCTGGCAGGAACTGCATATCTTCTGGTTTACATGAAGATGGAGTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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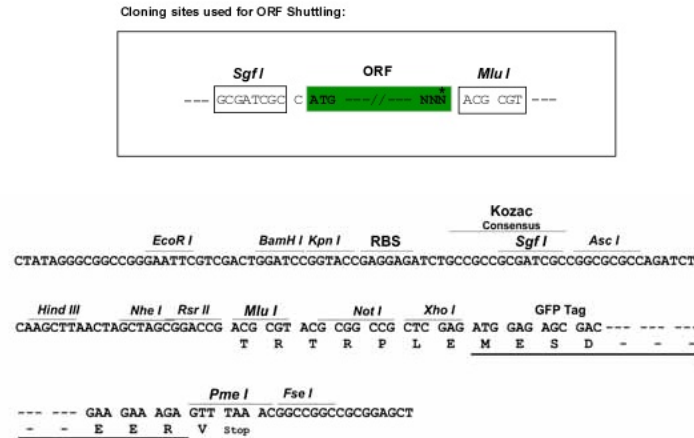
**Protein Sequence:** >RG202374 representing NM\_017414  
 Red=Cloning site Green=Tags(s)

MSKAFGLLRQICQSILAESSQSPADLEEKKEEDSNMKREQPRERPRAWDYPHGLVGLHNIQQTCCLNLSI  
 QVFMNVDFTRILKRITVPRGADEQRRSVPFQMLLLLEKMQDSRQKAVRPLELAYCLQKCNVPLFVQHDA  
 AQLYLKLNLIKDQITDVHLVERLQALYTRVKDSLICVDCAMESSRNSSMLTLPLSLFDVDSKPLKTL  
 DALHCFQPRELSSKSKFCENCCKTRGKQVLKLTHTLPQTLTIHLMRFSIRNSQTRKICHSLYFPQSLD  
 FSQILPMKRESCDAEEQSGGQYELFAVIAHVGMADSGHYCVYIRNAVDGKWF CFNDSNICLVSWEIQCT  
 YGNPNYHWQETAYLLVYMKMEC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017414

**ORF Size:** 1116 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\\_017414.4](#)

**RefSeq Size:** 2054 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 11274

**UniProt ID:** [Q9UMW8](#)

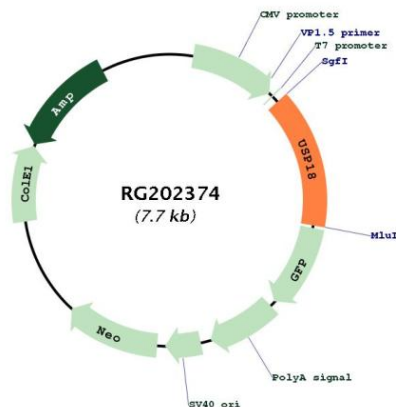
**Cytogenetics:** 22q11.21

**Domains:** UCH

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** The protein encoded by this gene belongs to the ubiquitin-specific proteases (UBP) family of enzymes that cleave ubiquitin from ubiquitinated protein substrates. It is highly expressed in liver and thymus, and is localized to the nucleus. This protein efficiently cleaves only ISG15 (a ubiquitin-like protein) fusions, and deletion of this gene in mice results in a massive increase of ISG15 conjugates in tissues, indicating that this protein is a major ISG15-specific protease. Mice lacking this gene are also hypersensitive to interferon, suggesting a function of this protein in downregulating interferon responses, independent of its isopeptidase activity towards ISG15. [provided by RefSeq, Sep 2011]

### Product images:



Circular map for RG202374