

## Product datasheet for **SC114102**

### UBP43 (USP18) (NM\_017414) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBP43 (USP18) (NM_017414) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBP43
Synonyms:	ISG43; PTORCH2; UBP43
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_017414 edited
GAATTCGGCACGAGGCCTCGTGCCGAATTCGGCACGAGGCTGGAAGTCTGGAGCAGGTGC
GCGGCTGCAACGGCAGCCCGGGGAAGCTCGGGCCGGCAGGGTTTTCCCGCACGCTGGCGC
CCAGCTCCCGGCGCGGAGGCCGTGTAAGTTTCGCTTTCATTTCAGTGGAAAACGAAAGC
TGGGCGGGGTGCCACGAGCGCGGGCCAGACCAAGGCGGGCCCGAGCGGAACTTCGGTC
CCAGCTCGGTCCCGGCTCAGTCCCGACGTGGAAGTACAGCAGCGGAGGCTGGACGCTTGC
ATGGCGCTTGAGAGATTCATCGTGCCTGGCTCACATAAGCGCTTCTTGGAAAGTGAAGTC
GTGCTGTCTGAACGCGGGCCAGGCAGCTGCGGCCTGGGGTTTTGGAGTGATCACGAAT
GAGCAAGGCGTTTTGGCTCCTGAGGCAAATCTGTAGTCCATCCTGGCTGAGTCCTCGCA
GTCCCGGCAGATCTTGAAGAAAAGAAGGAAGAAGACAGCAACATGAAGAGAGAGCAGCC
CAGAGAGCGTCCAGGGCCTGGGACTACCCTCATGGCCTGGTTGGTTTACACAACATTGG
ACAGACCTGCTGCCTTAACTCCTTGATTAGGTGTTTCGTAATGAATGTGGACTTCACCAG
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CCAGATGCTTCTGCTGCTGGAGAAGATGCAGGACAGCCGGCAGAAAGCAGTGCGGCCCT
GGAGCTGGCCTACTGCCTGCAGAAGTGCACAGTGCCTTGTGTTTGTCCAACATGATGCTGC
CCAAGTGTACCTCAAAGTCTGGAACCTGATTAAGGACCAGATCACTGATGTGCACCTGGT
GGAGAGACTGCAGGCCCTGTATACGATCCGGGTGAAGGACTCCTTGATTTGCGTTGACTG
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GGTCTTGAAGCTGACCCATTTGCCCCAGACCCTGACAATCCACCTCATGCGATTCTCCAT
CAGGAATTCACAGACGAGAAAGATCTGCCACTCCCTGACTTCCCCAGAGCTTGGATTT
CAGCCAGATCCTTCCAATGAAGCGAGAGTCTTGTGATGCTGAGGAGCAGTCTGGAGGCA
GTATGAGCTTTTTGCTGTGATTGCGCACGTGGGAATGGCAGACTCCGGTCATTACTGTGT
CTACATCCGGAATGCTGTGGATGGAATAAGTTCTGCTTCAATGACTCCAATATTTGCTT
GGTGTCTGGGAAGACATCCAGTGTACCTACGGAATCCTAACTACCACTGGCAGGAAAC
TGCATATCTTCTGGTTTACATGAAGATGGAGTGCTAATGGAAATGCCAAAACCTTCAGA
GATTGACACGCTGCATTTTCCATTTCCGTTCTGGATCTACGGAGTCTTCTAAGAGATT
TTGCAATGAGGAGAAGCATTGTTTTCAAATATAACTGAGCCTTATTTATAATTAGGG
ATATTATCAAAAATGTAACCATGAGGCCCTCAGGTCTGATCAGTCAAGATGGATGCT
TTCACCAGCAGACCCGGCCATGTGGCTGCTCGGTCTGGGTGCTCGCTGCTGTGCAAGAC
ATTAGCCCTTTAGTTATGAGCCTGTGGAACTTCAGGGTTCCAGTGGGAGAGCAGTG
GCAGTGGGAGGCATCTGGGGCCAAAGGTCAGTGGCAGGGGGTATTTAGTATTATACAA
CTGCTGTGACCAGACTTGTATACTGGCTGAATATCAGTGTGTTTGAATTTTCACTTT
GAGAACCAACATTAATCCATATGAATCAAGTGTGTTTGAAGTGTATTCATTTATTCAG
CAAATATTTATTGATCATCTCTTCCATAAGATAGTGTGATAAACACAGTCATGAATAA
AGTTATTTTCCACAAAAAAAAAAAAAAAAAACTCGAC
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_017414 unedited</p> <pre> NTGTTTCTAGATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCTCGTGC CGAATTCGGCAGCAGGCTGGAAGTCTGGAGCAGGTGCGCGGTGCAACGGCAGCCGCGGG AAGCTCGGGCCGGCAGGGTTTCCCCGCACGCTGGCGCCAGCTCCCGCGCGGAGGCCGC TGTAAGTTTCGCTTTCCATTTCAGTGGAAAACGAAAGCTGGGCGGGGTGCCACGAGCGCG GGCCAGACCAAGCGGGCCGGAGCGGAACTTCGGTCCCAGCTCGGTCCCAGCTCAGTC CCGACGTGGAACCTCAGCAGCGGAGGCTGGACGCTTGCATGGCGCTTGAGAGATTCATCG TGCTGGCTCACATAAGCGCTTCCCTGGAAGTGAAGTCGTGCTGTCTGAACGCGGCCAG GCAGCTGCGGCCTGGGGTTTTGGAGTGATCACGAATGAGCAAGCGCTTTGGGCTCTGA GGCAAATCTGTCAGTCCATCCTGGCTGAGTCTCGCAGTCCCCGGCAGATCTTGAAGAAA AGAAGGAAGAAGACAGCAACATGAAGAGAGAGCAGCCAGAGAGCGTCCCAGGGCCTGGG ACTACCCTCATGGCTGGTTGGTTTACACAACATTGGACAGACCTGCTGCCTTAACCTCT TGATTCAGGTGTTGTAATGAATGTGGACTTCACCAGGATATTGAAGAGGATCACGGTGC CCAGNGGAGCTGACGAGCAGAGGAGAAGCGTCCCTTTCCAGATGCTTCTGCTGCTGGAGA AGATGCANGACAGCCGGCAGAAAGCAGTCCGGCCCTGGAGCTGGCCTACTGCCTGCAGA AGTGCAACGTGCCCTTGNNTTGTCCACATGATGCTGCCCAACTGTACCTCANAACCTCG AACTG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_017414 unedited</p> <pre> NACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTGGAAAATAACTTT ATTCATGACTGTGTTTATCACACTATCTTATGGAGAAGAGATGATCAATAAATATTTGCT GAATAAATGAATAGCAGTTACAAAACACTTGATTCATATGGAATTAATGTTGGTTCTCAA AGTGAAAAATTACAAACAGCACTGATATTCAGCCAGTATACAAGTCTGGTACAGCAGTT GTATAATACTGAAATACCCCTGCCACTGACCTTTGGCCCCCAGATGCCTCCCCTGCCA CTGCTCTCCCCACTGGGAACCCCTGAAGTTCACAGGCTCATAACTAAAGGGCTAATGT CTTGACAGCAGCGAGCAGCCAGGACCGAGCAGCCACATGGCCGGGTCTGCTGGTGAAAG CATCCATTCTGACTGATCAGGACCTGAGGGGCCTCATGTTTACATATTTTGATAATATCC CTAATTATAAATAAGGCTCAGTTATATAGTTTGAACAATGCTTCTCCTCATTGCAAAA TCTCTTAGAAGACTCCGTAGATCCAGGAACGAAATGAAAAATGACAGCGTGTCAATCTC TGAAGTTTTGGCATTTCATTAGCACTCCATCTTCATGTAAACCAGAAGATATGCAT TTCTGCGCAGTGGTAGTTAGGATTTCCGTAGGTACACTGGATGTCTTCCAGGACACCAA GCAAATATTGGAGTCATTGAAGCAGAACCATTTCCATTACAGCATTCCGGATGTAGAA CAGTAATGACCGGAGTCTGCCATTCCCACGTGCGCAATCACAGCAAAAGCTCATACTGGC CTTCAGACTGCTNCTCAGCATACAAGACTCTCGCTTCATTGGAAAGATCTGGTGAAAT CCAGCTCTGGGGGAAGTCAAGGAGTGCAGAACTTCTTCTCTGTGAT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017414
<b>Insert Size:</b>	2300 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_017414.2](#), [NP\\_059110.2](#)

**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]