

Product datasheet for **SC315837**

USP45 (NM_001080481) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP45 (NM_001080481) Human Untagged Clone
Tag:	Tag Free
Symbol:	USP45
Synonyms:	LCA19
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001080481, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGTGAAAGATCCAACCTAAAGCTTTACCTGAGAAAGCCAAAAGAAGTAAAAGGCCT
ACTGTACCTCATGATGAAGACTCTTCAGATGATATTGCTGTAGGTTTAACTTGCCAACAT
GTAAGTCATGCTATCAGCGTGAATCATGTAAAGAGAGCAATAGCTGAGAATCTGTGGTCA
GTTTGTCTCAGAATGTTTAAAAGAAAGAAGATTCTATGATGGGCAGCTAGTACTTACTTCT
GATATTTGGTTGGCTCAAGTGTGGCTTCCAGGGATGTGGTAAAAACTCAGAAAGCCAA
CATTTCATTGAAGCACTTTAAGAGTTCAGAACAGAGCCCCATTGTATTATAATTAATCTG
AGCACATGGATTATATGGTGTATGAATGTGATGAAAAATTATCAACGCATTGTAATAAG
AAGTTTTGGCTCAGATAGTTGATTTTTCTCCAGAAACATGCTTCTAAAACACAAACAAGT
GCATTTTCTAGAATCATGAACTTTGTGAAGAAAAATGTGAAACAGATGAAATACAGAAG
GGAGGAAAATGCAGAAATTTATCTGTAAGAGGAATTACAAATTTAGGAAATACTTGCTTT
TTTAAATGCAGTCATGCAGAACTTGGCACAGACTTATACTTCTACTGATCTGATGAATGAG
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TTGGTGGTGGAACTTTCAAGGCCTGGACCACTGACCTCAGCCTTGTTCCTGTTTCTTCCAC
AGCATGAAGGAGACTGAAAAAGGACCCTTTCTCTAAAGTTCTTTTTAATCAGCTTTGT
CAGAAGGCACCTCGATTTAAAGATTTCCAGCAACAGGACAGTCAGGAGCTTCTTCATTAT
CTTCTGGATGCAGTGAGGACAGAAGAAACAAAGCGAATACAAGCTAGCATTCTAAAAGCA
TTTAAACAACCAACTACTAAAACCTGCTGATGATGAAACTAGAAAAAAGTCAAAGCATAT
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TCACTTCTATAATAGAAGAAAGGGTTTCAAACCTTTACTTTGGGGAAGAATGAATAAA
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CGTCTGAATGAAAGCCCTACTGATGACAGTAAAAAGAAGCCAGCCATTCTGAAAGCAAT
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AAACTGCTGTACACCAAGGAGACTGACAGTGGTGATAAGGAAATGGCAGAAGCTATTTCT
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CTAAATATTTCAAATAATTTATGTTTTTAGAGGGGAAGCATTGAGGTCTTATAGTCCC
CAAAATGCTTTTTCAGACCCTTTCTCAGAGCTATATAACTACTTCTAAAGAATGTTCAATT
CAGTCTGCTCTACCAGTTTACATCTATGGAATTAATAAGCTTCTA
TGTGAGAAATGTAATAAAACAAACAGAAAGTACCAAGAAGAAACAGTTTTTGCAGAAAAG
AAAGTAGAAGGAGTTTATACTAATGCCAGGAAGCAATTGCTCATTCTGCTGTTCCAGCT
GTCCTAATTCTCCACCTGAAAAGATTTTCATCAGGCTGGCTTGAGTCTTCGTAAGTAAAC
AGACATGTAGATTTTCCACTTATGCTCGATTTAGCACCATTCTGCTCTGCTACTTGTAAAG
AATGCAAGTGTGGGAGATAAAGTTCTCTACGGTCTCTATGGCATAGTGGAAACATAGTGGC
TCGATGAGAGAAGGCCACTACACTGCTTATGTGAAAGTGAGAACCCTCCAGGAAATTA
TCGGAACATAACACTAAAAAGAAAAATGTGCCTGGTTTGAAGCGGCTGATAATGAATCA
GCAGGCCAGTGGGTCCATGTTAGTGACACTTACTTACAGGTGGTCCAGAATCAAGAGCA
CTTAGTGACAAGCCTACCTTCTTTTCTATGAAAGAGTATTA
    
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Restriction Sites: Please inquire

ACCN: NM_001080481

OTI Disclaimer: 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001080481.1</u> , <u>NP_001073950.1</u>
RefSeq Size:	6388 bp
RefSeq ORF:	2445 bp
Locus ID:	85015
UniProt ID:	<u>Q70EL2</u>
Cytogenetics:	6q16.2
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>The protein encoded by this gene is a deubiquitylase that binds ERCC1, the catalytic subunit of the XPF-ERCC1 DNA repair endonuclease. This endonuclease is a critical regulator of DNA repair processes, and the deubiquitylase activity of the encoded protein is important for maintaining the DNA repair ability of XPF-ERCC1. [provided by RefSeq, Sep 2016]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1-3 all encode the same isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>