

Product datasheet for **SC111252**

UHRF1 (NM_013282) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UHRF1 (NM_013282) Human Untagged Clone
Tag:	Tag Free
Symbol:	UHRF1
Synonyms:	hNP95; hUHRF1; huNp95; ICBP90; Np95; RNF106; TDRD22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_013282, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGTTTTTGTGTCCCTCCCCTCAGCGCCGACACCATGTGGATCCAGGTTCCGACCATGGACGGGA
GGCAGACCCACACGGTGGACTCGCTGTCCAGGCTGACCAAGTGGAGGAGCTGAGGCGGAAGATCCAGGA
GCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTTCTACAGGGCAAACAGATGGAGGACGGCCATAACC
CTCTTCGACTACGAGGTCGCGCTGAATGACACCATCCAGCTCCTGGTCCGCCAGAGCCTCGTGCTCCCCC
ACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGTGCTGGGCCAGAGTGAGTC
AGACAAGTCTCCACCCACGGTGGAGCGGCCGCCGAGACTGACAGCAGGCCAGCCGATGAGGACATGTGG
GATGAGACGGAATTGGGGCTGTACAAGTCAATGAGTACGTGATGCTCGGGACACGAACATGGGGCGT
GGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGACGAGCCCTGCAGCTCCACGTC
CAGGCCGCGCTGGAGGAGGACGTCATTTACCAGTGAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGACGTCGAGCGCGCGCCCGACCATCATCAAGTGGCAGGACCTGGAGGTGGGCC
AGGTGGTCATGCTCAACTACAACCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTC
CAGGAAGCGCGAGACCAGGACGGCGCGGAACTCTACGCCAACGTGGTGTGGGGATGATTCTCTGAAC
GACTGTCCGATCATCTTCGTGGACGAAGTCTTCAAGATTGAGCGCGCCGGTGAAGGGAGCCCCATGGTTG
ACAACCCCATGAGACGGAAGAGCGGGCCGTCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCG
GGTCTGCGCTGCCACCTGTGCGGGGGCCGGCAGGACCCGACAAGCAGCTCATGTGCGATGAGTGCAC
ATGGCCTTCCACATCTACTGCCTGGACCCGCCCTCAGCAGTGTCCAGCGAGGACGAGTGGTACTGCC
CTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTGGCGGGAGAGCGGTGAGAGAGAGCAAGAAGAAGGC
GAAGATGGCCTCGGCCACATCGTCTCACAGCGGGACTGGGCAAGGGCATGGCCTGTGTGGCCGACCC
AAGGAATGTACCATCGTCCCGTCAACCACTACGGACCCATCCCGGGATCCCCGTGGCCACCATGTGGC
GGTCCGAGTCCAGGTACGCGAGTCCGGTGTCCATCGGCCCCACGTGGCTGGCATACACGGCCGGAGCAA
CGACGGAGCGTACTCCCTAGTCTGCGGGGGGCTATGAGGATGATGTGGACCATGGGAATTTTTTCA
TACACGGGTAGTGGTGGTCGAGATCTTTCGGCAACAAGAGGACCGCGGAACAGTCTTGTGATCAGAAAC
TCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCCGAGGC
CAAGGACTGGCGGTGGGGAAGCCGGTCAAGGTGGTGCACATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCCGTGGGCAACCGCTACGATGGCATCTACAAGTTGTGAAATACTGGCCCGAGAAGGGGAAGT
CCGGGTTTCTCGTGTGGCGCTACCTTCTCGGAGGGACGATGATGAGCCTGGCCCTTGACGAAGGAGGG
GAAGGACCGGATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAAC
CGAGAGCGAGAGAAGGAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGCTTCGCGTCCCCCA
GGACGGGCAAGGGCAAGTGGAAAGCGGAAGTCCGGCAGGAGGTGGCCCGAGCAGGGCCGGTCCCCGCGCCG
GACATCCAAGAAAACCAAGTGGAGCCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGAC
AAGAGCAACGCCAAGCTGTGGAATGAGGTCTGGCGTCACTCAAGGACCGCCGGCAGCGGCAGCCCGT
TCCAGTTGTTCTGAGTAAAGTGGAGGAGAGCTTCCAGTGTATCTGCTGTGAGGAGCTGGTGTCCGGCC
CATCACGACCGTGTGCCAGCACACGTGTGCAAGGACTGCCTGGACAGATCCTTTCGGGCACAGGTGTC
AGCTGCCCTGCCGCTACGACCTGGCCGCGAGCTATGCCATGCAGGTGAACCAGCCTCTGCAGACCG
TCCTCAACCAGCTTCCCCGGCTACGGCAATGGCCGGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013282 unedited
 NGGTCAGCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCAGCGTT
 TGCCGAGCGGGGCTCCGGGTCGCACGCAAGTCCGCGCGGGTCCGGGCCACGCACGCGG
 TTTTCATCGCCATCCCCAGCCGGGCCACGCGCGCAGGCAGACAAGCTGTTCCGCGGGACCC
 GAGAGCGCCGACACCATGTGGATCCAGGTTCCGACCATGGACGGGAGGCAGACCCACACG
 GTGGACTCGTGTCCAGGCTGACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTG
 TTCCACGTGGAGCCAGGCTGCAGAGGCTGTTCTACAGGGGCAAACAGATGGAGGACGGC
 CATACCCTCTTCGACTACGAGGTCGCGCTGAATGACACCATCCAGCTCCTGGTCCGCCAG
 AGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCC
 GGCTGCTGCCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGGCCG
 GAGACTGACAGCAGGCCAGCCGATGAGGACATGTGGGATGAGACGGAATTGGGGTGTAC
 AAGGTCAATGAGTACGTCGATGCTCGGGACACGAACATGNGGGGCGTGGTTTGAGGCGCA
 NGTGGTCAGGGTACGCGGAAGGCCCTCCCGGGACGAGCCCTGCAGCTCCACGTCCAG
 GCCGGCGTGGNAGGAGACGTCAATACCACGTGAAATACGACGACTACCCGGAGAACC
 GCGTGGTCCAGATGAACTCCAGGACGTNCGAGCGCGCCCGCACCATCATCAAGTGGC
 AGGACCTGGNAGTGGGCCAGNTGGTCATGCTCAACTACAACCCCGGAAACCNCAAGGAG
 CGGGGGCTTTTGGTAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013282 unedited
 NNNTTTTGACTCTGGACCCGCGCCGCATNCTAANGATCGGTTTTTTTTTTTTTTTTTTTT
 TTTTTTATCTGGAAAAAATTTATTCTGAGAATCTAAAATCTGGACAAAGTACTGGACT
 TAAAAAAAAGCCTACACAAAATTGTCTCATTCTCCCTAATACATTAATAATCTAAGAAT
 AAGGAGGTGAAAAAACCTTTAAAAATAACATTGCTCCAGTTTGTCTGCAGGTATGTGA
 TTTAAAATATCCCTGTTTTATTGAGGTATAGGCTGCAAACCTTTGGTAAAATTAGAAAAAT
 TAACAAACCTTTCAAAAGAAAAAAATACAAAAACAAAAACAACCAACCCCTAACGTTA
 TATCTTTCTGGTACATATACAGTAACTACAAAAAAATTCATTTAAAAAATGTGTTTCA
 TAAGAGAAAAAAATTTAAAAAAACCCTCTTGTAAAGTTCTCACTTGCTGAGTTAAAAA
 AATTGAATGTAATGATCTATAAGGCTCAAACGGTTCCCAAGCACCCATCCGGTGTGAG
 AAGAAGTGGATGACCGCAGTTTCTAGAATCTGGTTGACATTTCAATAATTCAGTGCTAA
 CAACAAAGACTGGTCGTCTTTAGAAAGAAGGAACGAATCAAAGGCACCTTGACAGTACT
 TCGTGGCCTGGCCGTCGCTTCCGTTGGCCGCTTCGTCGGACAGNGTCAGTCACACGCC
 TGGCCCCACGTGGAGCAAATGCCCTTGGAGGCATTTTTTGGGGGGCCCCACCTCCCTGT
 TTTCTGGGGCAAGGACTTTACCGCGGATCTTAGACGCTAACAGCCTGTGGGGGGGAGA
 GGCTTTAGGGACAAGGTTAAACCTCGCCCCAAAAGTTTCCCTTTTCTTGGAAAAAT
 TAAAAAAATGAACCCCTGCCCCGGCTTTCCCGGCCACCCAGGGA

Restriction Sites:

NotI-NotI

ACCN:

NM_013282

Insert Size:

3740 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_013282.2](#), [NP_037414.2](#)

RefSeq Size: 3828 bp

RefSeq ORF: 2382 bp

Locus ID: 29128

UniProt ID: [Q96T88](#)

Cytogenetics: 19p13.3

Domains: UBQ, RING, PHD, SRA

Protein Families: Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a member of a subfamily of RING-finger type E3 ubiquitin ligases. The protein binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. Its expression peaks at late G1 phase and continues during G2 and M phases of the cell cycle. It plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. It is regarded as a hub protein for the integration of epigenetic information. This gene is up-regulated in various cancers, and it is therefore considered to be a therapeutic target. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 12. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (2) differs in the 5' UTR and initiates translation from an alternate start codon, compared to variant 1. The resulting isoform (2) has a distinct N-terminus and is longer than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.