

Product datasheet for **SC108441**

UBC (NM_021009) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBC (NM_021009) Human Untagged Clone
Tag:	Tag Free
Symbol:	UBC
Synonyms:	HMG20
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_021009, the custom clone sequence may differ by one or more nucleotides

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ATGCAGATCTTCGTGAAGACTCTGACTGGTAAGACCATCACCTCGAGGTTGAGCCCAGTGACACCATCG
AGAATGTCAAGGCAAAGATCCAAGATAAGGAAGGCATCCCTCCTGACCAGCAGAGGCTGATCTTTGCTGG
AAAACAGCTGGAAGATGGGCGCACCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTG
CTCCGTCTCAGAGGTGGGATGCAAATCTTCGTGAAGACACTCACTGGCAAGACCATCACCTTGAGGTGCG
AGCCCAGTGACACCATCGAGAACGTCAAAGCAAAGATCCAGGACAAGGAAGGCATTCTCCTGACCAGCA
GAGGTTGATCTTTGCCGAAAGCAGCTGGAAGATGGGCGCACCTGTCTGACTACAACATCCAGAAAGAG
TCTACCCTGCACCTGGTCTCCGTCTCAGAGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGA
CCATCACCTCGAGGTGGAGCCCAGTGACACCATCGAGAATGTCAAGGCAAAGATCCAAGATAAGGAAGG
CATTCTTCTGATCAGCAGAGGTTGATCTTTGCCGAAAACAGCTGGAAGATGGTCGTACCCTGTCTGAC
TACAACATCCAGAAAGAGTCCACCTTGACCTGGTACTCCGTCTCAGAGGTGGGATGCAAATCTTCGTGA
AGACACTCACTGGCAAGACCATCACCTTGAGGTGAGCCAGTGACACTATCGAGAACGTCAAAGCAA
GATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAGGTTGATCTTTGCCGAAAAGCAGCTGGAAGAT
GGGCGCACCTGTCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGTCCGTCTCAGAGGTG
GGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCAT
TGAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCC
GGAAAACAGCTGGAAGATGGTCGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTTGACCTGG
TGCTCCGTCTCAGAGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAGGT
GGAGCCGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAG
CAGAGTTGATCTTTGCTGGAAAACAGCTGGAAGATGGACGACCCCTGTCTGACTACAACATCCAGAAAG
AGTCCACCCTGCACCTGGTGTCCGTCTTAGAGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAA
GACCATCACTCTCGAAGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACAAGGAA
GGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGAAAACAGCTGGAAGATGGAGCCACCTGTCTG
ACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGTCCGTCTTAGAGGTGGGATGCAGATCTTCGT
GAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCA
AAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGAAAACAGCTGGAAG
ATGGAGCCACCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTGTCCGTCTCAGAGG
TGGGATGCAAATCTTCGTGAAGACCCTGACTGGTAAGACCATCACCTCGAGGTGGAGCCAGTGACACC
ATCGAGAATGTCAAGGCAAAGATCCAAGATAAGGAAGGCATCCCTCCTGATCAGCAGAGGTTGATCTTTG
CTGGAAAACAGCTGGAAGATGGAGCCACCTGTCTGACTACAACATCCAGAAAGAGTCCACTCTGCACTT
GGTCTGCGCTTGAGGGGGGGTGTCTAA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_021009 unedited
NCCGTGTCAGATTTGATACGACTCACTATAGGCGGCCGCGATTTCGGCAGCAGCAGAGGT
TGATCTTTGCCGAAAGCGCTGGAAGATGGGCGCACCTGTCTGACTACAACATCCAGAA
AGAGTCTACCCTGCACCTGGTGTCCGTCTCAGAGGTGGGATGCAGATCTTCGTGAAGAC
CCTGACTGGTAAGACCATCACCTCGAGGTGGAGCCCAGTGACACCATCGAGAATGTCAA
GGCAAAGATCCAAGATAAGGAAGGCATTCTCCTGATCAGCAGAGGTTGATCTTTGCCGG
AAAACAGCTGGAAGATGGTCGTACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCTT
GCACCTGGTACTCCGTCTCAGAGGTGGGATGCAAATCTTCGTGAAGACACTCACTGGCAA
GACCATCACCTTGAGGTGAGCCAGTGACACTATCGAGAACGTCAAAGCAAAGATCCA
AGACAAGGAAGGCATTCTCCTGACCAGCAGAGGTTGATCTTTGCCGAAAGCAGCTGGA
AGATGGGCGCACCTGTCTGACTACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGTCT
CCGTCTCAGAGGTGGGATGCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCT
CGAAGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGG
CATCCCTCCTGACCGCAGAGGTTGATCTTTGCCGANACAGCTGGAAGATGGTCGTACCC
TGTCTGACTACACATCCAGAAAGAGTCCCCTGCACCTGTCTCGTCTTAGAGGTGGATG
CAGATCTCGTGAGACCCTGACTGGTAGACATACTCTCGAGTGAAGCGATGACACT
    
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Restriction Sites:	NotI-NotI
ACCN:	NM_021009
Insert Size:	1500 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_021009.3 , NP_066289.2
RefSeq Size:	2594 bp
RefSeq ORF:	2058 bp
Locus ID:	7316
UniProt ID:	P0CG48
Cytogenetics:	12q24.31
Domains:	UBQ
Protein Families:	Druggable Genome
Protein Pathways:	PPAR signaling pathway
Gene Summary:	<p>This gene represents a ubiquitin gene, ubiquitin C. The encoded protein is a polyubiquitin precursor. Conjugation of ubiquitin monomers or polymers can lead to various effects within a cell, depending on the residues to which ubiquitin is conjugated. Ubiquitination has been associated with protein degradation, DNA repair, cell cycle regulation, kinase modification, endocytosis, and regulation of other cell signaling pathways. [provided by RefSeq, Aug 2010]</p>