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Product datasheet for RC203292

UBC (NM_021009) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBC (NM_021009) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UBC
Synonyms:	HMG20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203292 ORF sequence, codon optimized.
Due to the complexity of NM_021009, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAATCTTTGTGAAGACTCTGACGGGGAAAACCATAACACTGGAAGTCGAACCTTCTGATACTATAG
AAAATGTCAAGGCAAAGATTCAGGATAAAGAAGGTATCCCACCGGATCAGCAGCGACTGATCTTCGCAGG
TAAGCAACTGGAGGACGGACGCACTTTGTCAGATTATAACATTCAAAAGGAAAGCACGCTCCACCTGGTC
TTGCGGCTGCGGGGAGGCATGCAGATCTTTGTGAAAACATTGACCGGCAAGACAATTACCCTCGAGGTGG
AACCCAGCGACACCATTGAGAATGTCAAGGCCAAGATTCAGGACAAGGAGGGAATTCCTCCAGATCAGCA
GAGACTCATCTTCGCCGGGAAGCAGCTGGAAGACGGACGCACTCTGTCTGACTACAATATCCAGAAGGAA
TCAACTCTCCACCTCGTCCTGAGGCTGAGAGGAGGAATGCAGATATTTGTAAAAACCTTGACGGGCAAAA
CAATAACCCTTGAAGTCGAACCCTCTGATACAATAGAGAACGTGAAAGCCAAAATTCAGGACAAGGAGGG
GATTCCGAGCGATCAGCAGCGCTTGATCTTTGCTGGGAAGCAGCTCGAGGACGGTCGAACTCTTAGTGAC
TATAATATCCAGAAGGAGAGCACCCTTCACCTGGTCCTGAGGCTGCGAGGGGGAATGCAGATTTTTGTGA
AGACCCTGACCGGCAAAACAATTACACTTGAGGTGGAACCTAGCGACACTATCGAGAATGTAAAAGCCAA
AATACAGGACAAGGAAGGAATACCTCCTGACCAGCAGAGGCTTATTTTTGCAGGGAAGCAACTGGAGGAT
GGACGGACTCTGAGTGACTATAATATACAGAAAGAATCCACCCTCCACCTGGTACTCAGACTCCGCGGCG
GGATGCAGATTTTTGTAAAGACCCTCACCGGGAAGACTATCACTCTGGAGGTCGAACCTTCCGACACTAT
CGAGAACGTAAAAGCCAAGATCCAGGATAAGGAGGGAATTCCCCCAGACCAGCAGCGGTTGATTTTTGCA
GGAAAACAACTTGAGGACGGACGCACCTTGTCTGACTACAATATCCAAAAGGAGTCAACCTTGCATCTTG
TCCTCAGACTGCGCGGGGGAATGCAGATTTTCGTGAAGACCCTCACTGGCAAAACAATCACGCTCGAGGT
GGAGCCTTCCGATACTATAGAGAATGTCAAGGCAAAGATACAGGATAAAGAAGGCATCCCCCCTGACCAG
CAGCGGCTGATCTTTGCGGGAAAGCAGCTCGAGGATGGCCGAACTCTGTCAGATTACAATATTCAGAAAG
AATCCACCCTTCATCTGGTGCTTCGGCTTAGAGGAGGAATGCAAATCTTTGTGAAGACCCTTACGGGAAA
GACTATTACGCTGGAGGTGGAACCCAGCGATACGATAGAAAACGTGAAGGCAAAAATTCAAGATAAAGAA
GGAATCCCTCCCGACCAGCAGCGGCTTATTTTCGCTGGCAAGCAGCTTGAGGACGGGCGCACACTGTCTG
ATTACAATATTCAAAAGGAAAGCACCCTGCATCTGGTACTGCGGCTGAGGGGCGGTATGCAGATTTTCGT
CAAAACGCTCACCGGCAAAACGATAACACTGGAAGTTGAACCCTCAGACACGATTGAGAACGTAAAGGCA
AAAATTCAAGACAAGGAGGGAATTCCACCGGATCAGCAGCGCCTGATTTTTGCCGGCAAGCAGCTGGAGG
ATGGTCGGACCCTCAGTGATTACAATATTCAGAAGGAGTCCACACTCCATCTGGTGCTGAGGTTGAGGGG
TGGAATGCAGATTTTTGTCAAGACTCTCACCGGCAAGACTATTACCCTCGAAGTGGAGCCCTCCGATACC
ATCGAGAATGTGAAGGCTAAAATCCAGGACAAGGAGGGTATCCCACCTGATCAACAGAGGCTTATCTTCG
CTGGCAAACAGCTGGAGGACGGCCGCACCCTGAGCGACTATAATATCCAAAAGGAGTCAACTCTGCACCT
TGTACTGCGCCTCAGAGGGGGAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

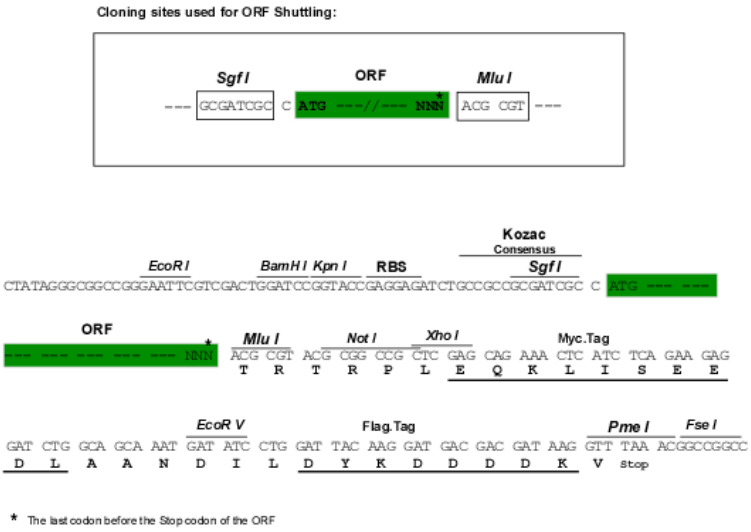
>RC203292 representing NM_021009
Red=Cloning site Green=Tags(s)

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLV
LRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKE
STLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPSDQQRLIFAGKQLEDGRTLSD
YNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLED
GRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFA
GKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQ
QRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKE
GIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKA
KIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDT
IENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



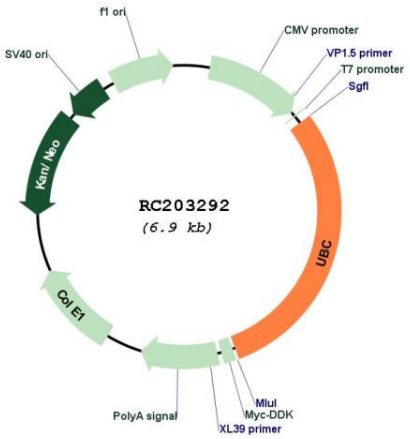
ACCN: NM_021009

ORF Size: 2055 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
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_021009.2, NM_021009.3, NM_021009.4, NM_021009.5, NM_021009.6, NP_066289.2
RefSeq Size:	2193 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
MW:	77 kDa

Gene Summary: 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]

Product images:



Circular map for RC203292