

Product datasheet for **RC204020**

Ubiquilin (UBQLN1) (NM_053067) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiquilin (UBQLN1) (NM_053067) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ubiquilin
Synonyms:	DA41; DSK2; PLIC-1; UBQN; XDRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204020 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGAGTGGTGAAGCGGCGGTCTCCGGCTCCAGGATAGCGCCCGGAGCCGAAGGTGCTG
 GCGCCCCGCGGCGCTGCTCCGCGGAGCCAAAATCATGAAAGTCACCGTGAAGACCCGAAGGAAAA
 GGAGGAATTCGCGTGCCGAGAATAGCTCCGTCACGAGTTTAAAGGAAGAAATCTCTAAACGTTTTAAA
 TCACATACTGACCAACTTGTGTTGATATTTGCTGGAAAAATTTGAAAGATCAAGATACCTTGAGTCAGC
 ATGGAATTCATGATGGACTTACTGTTACCTTGTCTATAAAACACAAAACAGGCCTCAGGATCATTACAGC
 TCAGCAAAACAAATACAGCTGGAAGCAATGTTACTACATCATCACTCCTAATAGTAACTCTACATCTGGT
 TCTGCTACTAGCAACCTTTGGTTTAGGTGGCCTTGGGGACTTGCAGGTCTGAGTAGCTGGGTTTGA
 ATACTACCAACTTCTCTGAACACAGAGTCAGATGCAGCGACAACCTTTGTCTAACCTGAAATGATGGT
 CCAGATCATGGAATCCCTTTGTTCAGAGCATGCTCTCAAATCCTGACCTGATGAGACAGTTAATTATG
 GCCAATCCACAAATGCAGCAGTTGATACAGAGAAATCCAGAAATAGTCATATGTTGAATAATCCAGATA
 TAATGAGACAAACGTTGGAACCTGCCAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCGAGCCG
 AGCTTTGAGCAACCTAGAAAGCATCCCAGGGGATATAATGCTTTAAGGCGCATGTACACAGATATTCAG
 GAACCAATGCTGAGTGTGCACAAGAGCAGTTTGGTGGTAAATCCATTTGCTTCTTGGTGAAGCAATACAT
 CCTCTGGTGAAGGTAGTCAACCTTCCCGTACAGAAAATAGAGTCCACTACCAATCCATGGGCTCCACA
 GACTTCCAGAGTTCATCAGCTTCCAGCGGCACTGCCAGCACTGTGGTGGCACTACTGGTAGTACTGCC
 AGTGGCACTTCTGGCAGAGTACTACTGCGCAAATTTGGTGCCTGGAGTAGGAGTAGTATGTTCAACA
 CACCAGGAATGCAGAGCTTGTGCAACAATAACTGAAAACCCACAACCTGATGCAAAAACATGTTGTCTGC
 CCCCTACATGAGAAGCATGATGCAGTCACTAAGCCAGAATCCTGACCTGCTGCACAGATGCAGAATCCT
 GATACACTATCAGCAATGTCAAACCTAGAGCAATGCAGGCTTGTACAGATTCAGCAGGGTTTACAGA
 CATTAGCAACGGAAGCCCGGCCCTCATCCAGGGTTTACTCCTGGCTTGGGGCATTAGGAAGCACTGG
 AGGCTCTTCGGAACCTAATGGATCTAACGCCACACCTAGTAAAACACAAGTCCCACAGCAGGAACCACT
 GAACCTGGACATCAGCAGTTTATTCAGCAGATGCTGCAGGCTTGTCTGGAGTAAATCCTCAGCTACAGA
 ATCCAGAAGTCAATTCAGCAACAACCTGGAACAACCTCAGTCAATGGGATTTTTGAACCGTGAAGCAAA
 CTTGCAAGCTCTAATAGCAACAGGAGGTGATATCAATGCAGCTATTGAAAGGTTACTGGGCTCCAGCCA
 TCA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204020 protein sequence
 Red=Cloning site Green=Tags(s)

MAESGESGPPGSQDSAAGAEGAGAPAAAAAEPKIMKVTVKTPKEKEEFVAVPENSSVQFKKEISKRFK
 SHTDQLVLIIFAGKILKDQDTLSQHGIHDGLTVHLVIKTQNRPDHSAQQTNTAGSNVTTSSTPNSNSTSG
 SATSNPFLGGLGGLAGLSSLGLNTNFSELQSQMQRQLLSNPMMVQIMENPFVQSMNSPDLMRQLIM
 ANPQMQLIQRNPEISHMLNPNPDMRQTLLEARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQ
 EPMLSAAQEQFGNPFASLVSNTSSGEGSQPSRTENRDPLPNPWAPQTSQSSASSTASTVGGTTGSTA
 SGTSGQSTTAPNLVPGVGASMFNTPGMQSLQIITENPQLMQNMLSAPYMRSMQSLSQNPDLAAQMNP
 DTLSAMSNPRAMQALLQIQQLQLATEAPGLIPGFTPGLGALGSTGGSSGTNGSNATPSENTSPTAGTT
 EPGHQQFIQMLQALAGVNPQLQNPVRFQQLQLSANGFLNREANLQALQIATGGDINAAIERLLGSQP
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6672_e10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053067

ORF Size: 1683 bp

OTI Disclaimer: 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.

RefSeq: [NM_053067.3](#)

RefSeq Size: 4093 bp

RefSeq ORF: 1686 bp

Locus ID: 29979

UniProt ID: [Q9UMX0](#)

Cytogenetics: 9q21.2-q21.3

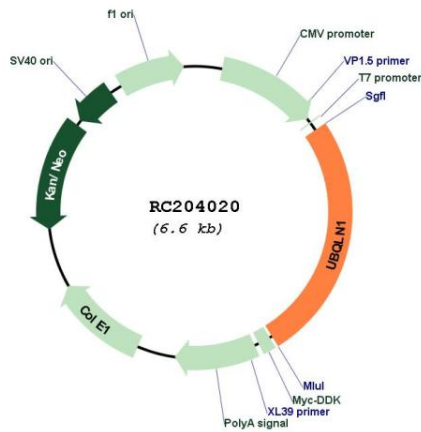
Domains: UBA, UBQ, ST11

Protein Families: Druggable Genome

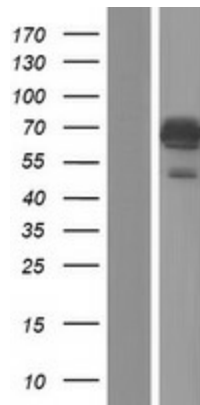
MW: 59.2 kDa

Gene Summary: This gene encodes an ubiquitin-like protein (ubiquilin) that shares a high degree of similarity with related products in yeast, rat and frog. Ubiquilins contain an N-terminal ubiquitin-like domain and a C-terminal ubiquitin-associated domain. They physically associate with both proteasomes and ubiquitin ligases, and thus are thought to functionally link the ubiquitination machinery to the proteasome to affect in vivo protein degradation. This ubiquilin has also been shown to modulate accumulation of presenilin proteins, and it is found in lesions associated with Alzheimer's and Parkinson's disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

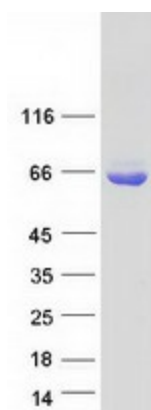
Product images:



Circular map for RC204020



Western blot validation of overexpression lysate (Cat# [LY409314]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204020 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBQLN1 protein (Cat# [TP304020]). The protein was produced from HEK293T cells transfected with UBQLN1 cDNA clone (Cat# RC204020) using MegaTran 2.0 (Cat# [TT210002]).