

Product datasheet for **RG206897**

Ubiquilin (UBQLN1) (NM_013438) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiquilin (UBQLN1) (NM_013438) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ubiquilin
Synonyms:	DA41; DSK2; PLIC-1; UBQN; XDRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206897 representing NM_013438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGAGTGGTGAAGCGGCGCTCCTCCGGCTCCAGGATAGCGCCCGGAGCCGAAGGTGCTG
 GCACCCCGCGGCGCTGCCTCCGCGGAGCCAAAATCATGAAAGTCACCGTGAAGACCCGAAGGAAAA
 GGAGGAATTCGCGTGCCGAGAATAGCTCCGTCAGCAGTTTAAAGGAAGAAATCTCTAAACGTTTTAAA
 TCACATACTGACCAACTGTGTGATATTTGCTGGAAAAATTTGAAAGATCAAGATACCTTGAGTCAGC
 ATGGAATTCATGATGGACTTACTGTTACCTTGTCAATAAACACAAAACAGGCTCAGGATCATTACAGC
 TCAGCAAAACAAATACAGCTGGAAGCAATGTTACTACATCACTCCTAATAGTAACTCTACATCTGGT
 TCTGCTACTAGCAACCTTTGGTTTAGGTGGCCTTGGGGACTTGCAGGTCTGAGTAGCTGGGTTTGA
 ATACTACCAACTTCTGAACTACAGAGTCAGATGCAGCGACAACCTTTGTCTAACCTGAAATGATGGT
 CCAGATCATGGAAAATCCCTTTGTTCAGAGCATGCTCTCAAATCATGACCTGATGAGACAGTTAATTATG
 GCCAATCCACAAATGCAGCAGTTGATACAGAGAAATCCAGAAATAGTCATATGTTGAATAATCCAGATA
 TAATGAGACAAACGTTGGAACCTGCCAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCGAGCCG
 AGCTTTGAGCAACCTAGAAAAGCATCCCAGGGGATATAATGCTTTAAGGCGCATGTACACAGATATTCAG
 GAACCAATGCTGAGTGTGCACAAGAGCAGTTTGGTGGTAAATCCATTTGCTTCTTGGTGGCAATACAT
 CCTCTGGTGAAGGTAGTCAACCTTCCCGTACAGAAAATAGAGTCCACTACCAATCCATGGGCTCCACA
 GACTTCCAGAGTTCATCAGCTTCCAGCGGCACTGCCAGCACTGTGGTGGCACTACTGGTAGTACTGCC
 AGTGGCACTTCTGGCAGAGTACTACTGCGCAAATTTGGTGCCTGGAGTAGGAGCTAGTATGTTCAACA
 CACCAGGAATGCAGAGCTTGTGCAACAATAACTGAAAACCCACAACCTGATGCAAAAACATGTTGTCTGC
 CCCCTACATGAGAAGCATGATGCAGTCACTGAGCCAGAATCCTGACCTTGTGTCACAGATGATGCTGAAT
 AATCCCTATTTGCTGGAAATCCTCAGCTTCAAGAACAATGAGACAACAGCTCCCAACTTCTCCAAC
 AAATGCAGAATCCTGATACACTATCAGCAATGTCAAACCTAGAGCAATGCAGGCCTTGTACAGATTCA
 GCAGGGTTTACAGACATTAGCAACGGAAGCCCCGGCCTCATCCAGGGTTTACTCCTGGCTTGGGGCA
 TTAGGAAGCACTGGAGGCTTTCGGGAATAATGGATCTAACGCCACACCTAGTAAAACACAAGTCCCA
 CAGCAGGAACCACTGAACCTGGACATCAGCAGTTTATTACAGCAGATGCTGCAGGCTTGTCTGGAGTAA
 TCCTCAGTACAGAATCCAGAAGTCAGATTTAGCAACAACCTGGAACAACCTCAGTCAATGGGATTTTGT
 AACCGTGAAGCAAACCTTGAAGCTCTAATAGCAACAGGAGGTGATATCAATGCAGCTATTGAAAGTTAC
 TGGGCTCCAGCCATCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206897 representing NM_013438
 Red=Cloning site Green=Tags(s)

MAESGESGPPGSQDSAAGAEGAGTPAAAAAEPKIMKVTVKTPKEKEEFVAVPENSSVQFKEEISKRFK
 SHTDQLVLIFAGKILKDQDTLSQHGIDGLTVHLVIKTQNRPDHSAQQTNTAGSNVTTSSTPNSNSTSG
 SATSNPFLGGLGGLAGLSSLGLNTNFSELQSQMQRQLL SNPEMMVQIMENPFVQSMLSNHDLMRQLIM
 ANPQMQLIQRNPEISHMLNPNPDIRQTLLEARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQ
 EPMLSAAQEQFGGNPFASLVSNTSSGEGSQPSRTENRDPLPNPWAPQTSQSSASSTASTVGGTTGSTA
 SGTSGQSTTAPNLVPGVGASMFNTPGMQSLQLQITENPQLMQNMLSAPYMRSMQSLSQNPDLAAQMLN
 NPLFAGNPQLQEQMRQQLPTFLQQMQNPDTLSAMSNPRAMQALLQIQQLQLATEAPGLIPGFTPLGLA
 LGSTGGSSGTNGSNATPSENTSPTAGTTEPHQQFIQQMLQALAGVNPQLQNPVRFQQQLEQLSAMGFL
 NREANLQALIAATGGDINAAIERLLGSQPS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013438

ORF Size: 1767 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_013438.3](#), [NP_038466.2](#)

RefSeq Size: 3952 bp

RefSeq ORF: 1770 bp

Locus ID: 29979

UniProt ID: [Q9UMX0](#)

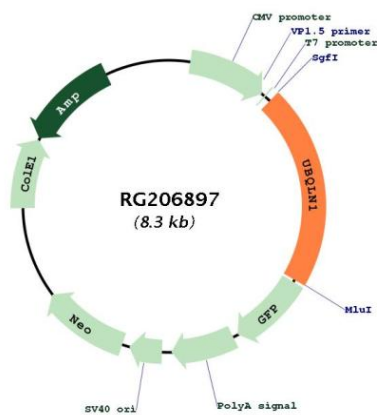
Cytogenetics: 9q21.2-q21.3

Domains: UBA, UBQ, ST11

Protein Families: Druggable Genome

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 RG206897