

Product datasheet for **SC110414**

Ubiquilin (UBQLN1) (NM_013438) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiquilin (UBQLN1) (NM_013438) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ubiquilin
Synonyms:	DA41; DSK2; PLIC-1; UBQN; XDRP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110414 sequence for NM_013438 edited (data generated by NextGen Sequencing)

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ATGGCCGAGAGTGGTGAAGCGGCGGTCTCCGGGCTCCCAGGATAGCGCCGCGGAGCC
GAAGGTGCTGGCGCCCCCGCGCGCTGCCTCCGCGGAGCCAAAATCATGAAAGTACC
GTGAAGACCCCGAAGGAAAAGGAGGAATTCGCCGTGCCGAGAATAGCTCCGTCCAGCAG
TTTAAGGAAGAAATCTCTAAACGTTTTAAATCACATACTGACCAACTTGTGTTGATTT
GCTGGAAAAATTTTGAAGATCAAGATACCTTGAGTCAGCATGGAATTCATGATGGACTT
ACTGTTACCTTGTCTATTAACACAAAAACAGGCCTCAGGATCATTACAGTCAGCAAACA
AATACAGCTGGAAGCAATGTTACTACATCAACTCCTAATAGTAACTCTACATCTGGT
TCTGCTACTAGCAACCCTTTTGGTTTAGGTGGCCTTGGGGGACTTGCAGGTCTGAGTAGC
TTGGGTTTGAATACTACCAACTTCTCTGAACTACAGAGTCAGATGCAGCGACAACTTTTG
TCTAACCTGAAATGATGGTCCAGATCATGAAAAATCCCTTTGTTTCAGAGCATGCTCTCA
AATCCTGACCTGATGAGACAGTTAATTATGGCCAATCCACAAATGCAGCAGTTGATACAG
AGAAATCCAGAAATAGTCATATGTTGAATAATCCAGATAAATGAGACAAACGTTGGAA
CTTGTCAGGAATCCAGCAATGATGCAGGAGATGATGAGGAACCAGGACCGAGCTTTGAGC
AACCTAGAAAGCATCCCAGGGGGATATAATGCTTTAAGGCGCATGTACACAGATATTCAG
GAACCAATGCTGAGTGTGCACAAGAGCAGTTTGGTGGTAATCCATTTGCTTCCTTGGTG
AGCAATACATCCTCTGGTGAAGGTAGTCAACCTTCCCCTACAGAAAAATAGAGATCCACTA
CCCAATCCATGGGCTCCACAGACTTCCCAGAGTTCATCAGCTTCCAGCGGCACTGCCAGC
ACTGTGGGTGGCACTACTGGTAGTACTGCCAGTGGCACTTCTGGGCAGAGTACTACTGCG
CCAAATTTGGTGCCTGGAGTAGGAGCTAGTATGTTCAACACACCAGGAATGCAGAGCTTG
TTGCAACAAATAACTGAAAACCCACAACCTTATGCAAAACATGTTGCTGCCCCCTACATG
AGAAGCATGATGCAGTCACTAAGCCAGAATCCTGACCTTGTGCACAGATGATGCTGAAT
AATCCCTATTTGCTGGAAATCCTCAGCTTCAAGAACAATGAGACAACAGCTCCCAACT
TTCTCCAAACAAATGCAGAATCCTGATACACTATCAGCAATGTCAAACCTTAGAGCAATG
CAGGCCTTGTACAGATTAGCAGGGTTTACAGACATTAGCAACGGAAGCCCCGGGCTC
ATCCCAGGGTTTACTCCTGGCTTGGGGCATTAGGAAGCACTGGAGGCTCTTCGGGAACT
AATGGATCTAACGCCACACCTAGTGAAAACACAAGTCCCACAGCAGGAACCACTGAACT
GGACATCAGCAGTTTATTCAGCAGATGCTTCAGGCTCTTGCTGGAGTAAATCCTCAGCTA
CAGAATCCAGAAGTCAGATTTTCAGCAACAACCTGGAACAACCTCAGTGAATGGGATTTTG
AACCGTGAAGCAAACTTGAAGCTCTAATAGCAACAGGAGGTGATATCAATGCAGCTATT
GAAAGTTACTGGGCTCCAGCCATCATAG
    
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Clone variation with respect to NM_013438.4
 725 c=>t;1170 g=>t;1590 g=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013438 unedited

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AAACCAATCCCACGAGGCTCGTGCCGTATTCGGCACGAGGGTTCGGTGTGAGCGAGCGG
CGCCTGAACACACGCGCGCTGCCGAGCGCTGACCCGGGCTGCGCCAGAGCCTGCACCG
AGCTCCGGGGCCACACCCGCTACCGTGGCCCTGCGCCGTTGCTACTGAGGCTTCNGT
CNCTGCATTTCTCGTGTCCAGGCTGCCGGCTCTGGTGTCTGCTGGCTCCTCCTTGCTC
GCCTGCTCCCTCCTGCTTGCTGATTACCGCCGCGCCGCCACAGCCATGGCCGAG
AGTGGTGAAGCGGCGGTCTCCGGCTCCCAGGATAGCGCCGCCGAGCCGAAGGTGCT
GGCGCCCCGCGCGCTGCCTCCGCGGAGCCAAAATCATGAAAGTACCGTGAAGACC
CCGAAGGAAAAGGAGGAATTCGCCGTGCCGAGAATAGCTCCGTCCAGCAGTTTAAAGGAA
GAAATCTCTAAACGTTTTAAATCACATACTGACCAACTTGTGTTGATATTTGCTGAAAAA
ATTTTGAAGATCAAGATACCTTGAGTCAGCATGGAATTCATGATGGACTTACTGTTTAC
CTTGTCATTAACACAAAAACAGGCCTCAGGATCATTACAGCTCAGCAAACAAATACAGCT
GGAAGCAATGTTACTACATTCATCACTCCCTATAGTAACTCTACATCTGGTTCTGCTACT
ACAACCCCTTTTGGGTTAAGTGGCCCTGGGGGACTTGCAGGTCTGAATAACCTTGGGGT
TGAATACTACCACTTCTTTGAACTACCGAATCAGATGCCGCGACACCTTTTGCCTAAC
TGAAAGATGGTCCCATCATGAAAAACCTTTTGTCAAACATGCCCTCAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_013438 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTAACATTTCAATTAC AAATTTTAAATGCCTGTTAAACTACCTATGGGAGAAGCTGAGAAGTCCTAGGCAAATGCAC TTTGGGTATACTACAGTGTTCCTTCAGTCTGCACAAAGATTAAGGTAATTTACAGTCAA TCTGTGAATGAATGTTGAGACAATGTTACATTATGTGTCTGTACAATTAATTGTCCTTAA AGAGATAACCAGAATCAGCTTTTCTACTGTATTTTCAACAAACCTGACTAACCGGCACTT TTGCTGGGAGATGTTTGTCAAAGATGCTGAAGATTCTATACAATTAGGAAATACTCAGC TTTAAGAGTATTTCTTATCTTCACTTTTTTAGTTACAGGTGTTTTGCTCAGAGGCCTA TTGCAGTATGTTCCAGAAATGCAGTCCCAAATGTGCATACTCTATATTGTATACAAATA AAACAAAATTATCAGTAGTATAAATCTTACAGCATTGTTTGCAAAAATGCATGCCAAAGT CACAATAAGCAATACTGTACCACAAATTATAGAGTGCAAATGATTTGCTTCTTTTTAATG CTTTTATTCTACATAAATTACTACCATAGGCTAATGTTTAAAAAGCAAATAAACTGGACA GATGCAGGACAAAATCTGGTCACCCAATAAAAAGGTGATGTTTTAAAAAATTACAAT AAATGCAGAAGTGATGCATGCAGTAGCCTTAATCCCCTNGTCCAGAAAAGAAAATACA GAAAAACACACATCTTACTGTACTNCACCTTTAAATGCATCATATNNTGTTTTGTATT ACAGCACAGAATCCCAGAGTCAAATGAAATANAGCAGGTATTTAAAGTTNAANGACC NNGTATCAAATAAATTACATNTTTTCAAGATACAGAA
Restriction Sites:	NotI-NotI
ACCN:	NM_013438
Insert Size:	2840 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_013438.3</u> , <u>NP_038466.2</u>
RefSeq Size:	3952 bp
RefSeq ORF:	1770 bp
Locus ID:	29979
UniProt ID:	<u>Q9UMX0</u>
Cytogenetics:	9q21.2-q21.3
Domains:	UBA, UBQ, STI1

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]
Transcript Variant: This variant (1) represents the longer transcript and it encodes the longer protein (isoform 1).