

Product datasheet for **RG209645**

UBQLN2 (NM_013444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	UBQLN2
Synonyms:	ALS15; CHAPI; DSK2; HRIHFB2157; N4BP4; PLIC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG209645 representing NM_013444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGAGAAATGGCGAGAGCAGCGGCCCCCGCGCCCTCCCGCGGCCCTGCTGCGGCCCAAGGCTCGG
 CTGCTGCCCGGCTGAGCCTAAATCATCAAAGTCACGGTGAAGACTCCCAAAGAGAAAGAGGAGTTCGC
 GGTGCCCGAGAACAGCTCGGTTTACGAGTTTAAAGGAAGCGATTTTCAAACGCTTCAAATCCCAAACCGAT
 CAGCTAGTGCTGATTTTTGCCGGAATACTTAAAGATCAAGATACCTTGATCCAGCATGGCATCCATG
 ATGGGCTGACTGTTACCTTGTATCAAAGCCAGAACCGACCTCAGGGCCAGTCCACGCAGCCTAGCAA
 TGCCGCGGGAACTAACACTACCTCGGCGTCGACTCCAGGAGTAACCTCCACACCTATTTCCACAAATAGC
 AACCCGTTTGGGTTGGGAGCCTGGGAGGACTTGACAGCCTTAGCAGCCTGGGCTTGAAGCTCGACCAACT
 TCTCTGAGCTCCAGAGCCAGATGCAGCAGCAGCTTATGGCCAGCCCTGAGATGATGATCAAATAATGGA
 AAATCCCTTTGTTTCAAGATCCCGATCTGATGAGGCAGCTCATTATGGCTAATCCACAG
 ATGCAGCAATTGATTAGAGAAACCCAGAAATCAGTCACCTGCTCAACAACCCAGACATAATGAGGCAGA
 CACTCGAAATTGCCAGGAATCCAGCCATGATGCAAGAGATGATGAGAAATCAAGACCTGGCTCTTAGCAA
 TCTAGAAAGCATCCAGGTGGCTATAATGCTTTACGGCGCATGTACACTGACATTCAAGAGCCGATGCTG
 AATGCCGCAAGAGCAGTTTGGGGTAATCCATTTGCCTCCGTGGGAGTAGTTCCTCCTCTGGGGAAG
 GTACGCAGCCTTCCCGCACAGAAATCGCGATCCACTACCAATCCATGGGCACCAACCGCCAGCTACCCA
 GAGTTCTGCAACTACCAGCACGACCACAAGCACTGGTAGTGGGTCTGGCAATAGTTCAGCAATGCTACT
 GGGAACACCGTTGCTGCCGCTAATTATGTCGCCAGCATCTTAGTACCCAGGCATGCAGAGCCTGCTGC
 AACAGATAACTGAAACCCCGAGTGATTCAGAAATGCTGTCGGCGCCCTACATGAGAAGCATGATGCA
 GTCGCTGAGCCAGAAATCCAGATTTGGCTGCACAGATGATGCTGAATAGCCCGCTGTTTACTGCAAACTCT
 CAGCTGCAGGAGCAGATGCGGCCACAGCTCCAGCCTTCTGCAGCAGATGCAGAAATCCAGACACACTAT
 CAGCCATGTCAAACCAAGAGCAATGCAGGCTTAAATGCAGATCCAGCAGGGGCTACAGACATTAGCCAC
 TGAAGCACCTGGCTGATTCGAGCTTCACTCCAGGTGTGGGGTGGGGTGTGGGAACCGCTATAGGC
 CCTGTAGGCCCAGTCACCCCATAGGCCCATAGGCCCTATAGTCCCTTTACCCCATAGGCCCCATTG
 GGCCCATAGGACCACTGGCCCTGCAGCCCCCTGGCTCCACCGCTCTGGTGGCCACAGGGGCTAC
 TGTGTCCAGCGCTGCACCTAGTGAACACAGATCCTACATCAGAATCTGGACCAACACAGCAGTTTATT
 CAGCAATGGTGCAGGCCCTGGCTGGAGCAATGCTCCACAGCTGCCGAATCCAGAAGTCAGATTTCCAGC
 AACAACCTGGAACAGCTCAACGCAATGGGGTCTTAAACCGTGAAGCAAACTTGACAGGCCCTAATAGCAAC
 AGGAGGCGACATCAATGCAGCCATTGAAAGGCTGCTGGGCTCCAGCCATCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209645 representing NM_013444
 Red=Cloning site Green=Tags(s)

MAENGESSGPPRPSRGPAAQAQGSAAAPAEPKIIKVTVKTPKEKEEFVAVPENSSVQFKEAISKRFSQTD
 QLVLIIFAGKILKDQDLIQHGIHDGLTVHLVIKSNRPQGQSTQPSNAAAGTNTTSASTPRSNSTPISTNS
 NPFGLGSLGGLAGLSSLGLSSTNFSELQSQMQQLMASPEMMIQIMENPFVQSMLSNPDLMRQLIMANPQ
 MQQLIQRNPEISHLLNNPDIMRQTLEIARNPAMMQEMMRNQDLALSNLESIPGGYNALRRMYTDIQEPL
 NAAQEFGGNPFASVSSSSSGEGTQPSRTENRDPLPNPWAPPPATQSSATTSTTTSTGSGSGNSSSNAT
 GNTVAAANYVASIFSTPGMQSLLQQITENPQLIQNMLSAPYMRSMMSLSQNPDLAAQMMLNSPLFTANP
 QLQEQMRPQLPAFLQQMQNPDTLSAMSNPRAMQALMQIQQLQTLATEAPGLIPSFTPGVGVGVLTGAI
 PVGPVTPIGPIGPIVPTPIGPIGPIGPTGAAPPGSTGSGGPTGPTVSSAAPSETTSPTSESGPNQQFI
 QQMVQALAGANAPQLPNPEVRFQQLEQLNAMGFLNREANLQAL IATGGDINAAIERLLGSQPS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013444

ORF Size: 1872 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013444.4](#)

RefSeq Size: 3324 bp

RefSeq ORF: 1875 bp

Locus ID: 29978

UniProt ID: [Q9UHD9](#)

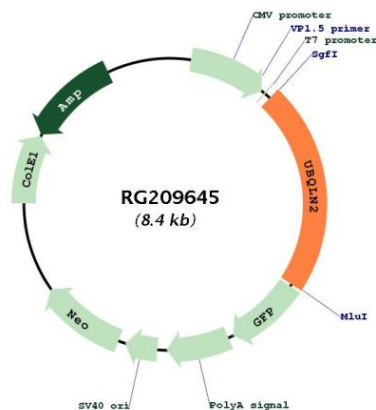
Cytogenetics: Xp11.21

Domains: UBA, UBQ, STII

Protein Families: Druggable Genome

Gene Summary: This gene encodes an ubiquitin-like protein (ubiquilin) that shares high degree of similarity with related products in yeast, rat and frog. Ubiquilins contain a 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 bind the ATPase domain of the Hsp70-like Stch protein. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG209645