

Product datasheet for **MC219263**

Ubqln1 (NM_026842) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ubqln1 (NM_026842) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ubqln1 |
| Synonyms: | 1110046H03Rik; 1810030E05Rik; AU019746; C77538; D13Erttd372e; Da41; Dsk2; Plic-1; Plic1; Xdrp1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219263 representing NM_026842
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAGCGCAGAGAGCGGGCCACCGGGCGCGCAGGACAGTGGCGCCAGCGGCGCCCGCAG
 AGCCCAAGATCATGAAGGTCACGGTGAAGACGCCCTAAAGAGAAGGAGGAGTTGCCGTGCCGAGAACAG
 CTCGGTCCAGCAGTTCAAAGAGGAAATCTCAAACGTTTCAAATCTCATATTGACCAACTTGTGTTGATA
 TTTGCTGGAAAAATTTTAAAAGATCAAGATACTCTGAGTCAGCATGGGATTCATGATGGACTTACGGTTC
 ACCTTGTGCATCAAACACAGAACAGGCCCAAGATAATTCAGCTCAGCAAACAAATGCCCTGGAAGCAC
 TGTGACCAGCTCACCAGCTCCCGATAGCAACCCACGCTGGTTCGCTGCTAACAGCTCCTTTGGCGTA
 GCGGACTTGGAGGACTGCAGGCTTAGCAGCTGGGTTTAAACACCACCAACTCTCTGAACTCCAGA
 GCCAAATGCAGCGGCAACTTTTGTCTAACCTGAAATGATGGTCCAGATCATGAAAAATCCCTTTGTCCA
 GAGCATGCTCTAAATCCTGACCTGATGCGGCAATTGATTATGGCCAATCCACAGATGCAACAGTTGATA
 CAGAGAAATCCAGAGATTAGTCATATGCTTAATAATCCAGATATAATGAGACAAACTGGAACCTGCGA
 GAAATCCAGCGATGATGCAGGAAATGATGAGAAACCAGGACCGAGCCTTGAGCAACCTAGAAAGTATTCC
 TGGGGGTATAATGCCTTACGGCGCATGTACCCGATATCCAGGAGCCTATGCTGAATGCTGCTCAAGAA
 CAGTTTGGTGGTAATCCATTTGCGTCCTTAGTGAGCAGTTCGTCCTCAGCAGAAGGGACTCAGCCTTCTC
 GAACAGAAAAATAGGGATCCGCTCCCAACCCGTTGGGCTCCGCAGACTCCAGAGCTCACCAGCCTCCGG
 TACCACTGGCAGCACCCTAACACCATGAGCACCTCTGGTGGCACTGCCACCAGTACCCCTGCTGGACAG
 AGCACCTCGGGCCCAAGCTTGGTGCCTGGCGCAGGAGCTAGTATGTTCAACACCCCGGAATGCAGAGCC
 TGCTGCAGCAGATAACTGAGAACCACAGCTCATGCAGAACATGCTGTCGGCCCATACATGAGGAGCAT
 GCTGCAGTCCCTGAGCCAGAACCCGACCTTGGTGCAGATGATGCTGAATAATCCCTATTTGCTGGA
 AATCCTCAGCTTCAAGAACAATGAGACAACAGCTCCCAACTTCTCCAAACAATGCAGAACCCCGACA
 CGCTCTCAGCGATGTCGAATCCTAGAGCCATGCAGGCGCTGCTGCAGATCCAGCAGGGCTTGCAGACGCT
 GGCCACAGAAGCTCCTGGCCTCATCCCAGGGTTTACTCCTGGCTTGGCAGCAGGCAATTCTGGAGGCTCT
 TCCGGAACCAATGCACCTAGCACTGCACCTAGTGAAGATACGAACCCCAAGGGGGCACTGCTGAGCCAG
 GCCACCAGCAGTTTATCCAGCAGATGCTGCAGGCCCTTGGGGGGTGAATCCTCAGCTGCAGAGTCCAGA
 AGTCAGATTTAGCAACAACCTGGAACAACCTCAGTCCATGGGATCTTGAACCGTGAAGCAAACCTGCAA
 GCTCTGATAGCCACAGGGGGCGACATCAATGCAGCAATCGAAAGTTGCTGGGCTCCAGCCGTCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_026842

Insert Size: 1749 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:

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_026842.4](#), [NP_081118.4](#)

RefSeq Size: 3693 bp

RefSeq ORF: 1749 bp

Locus ID: 56085

UniProt ID: [Q8R317](#)

Cytogenetics: 13 30.95 cM

Gene Summary: Plays an important role in the regulation of different protein degradation mechanisms and pathways including ubiquitin-proteasome system (UPS), autophagy and endoplasmic reticulum-associated protein degradation (ERAD) pathway. Mediates the proteasomal targeting of misfolded or accumulated proteins for degradation by binding (via UBA domain) to their polyubiquitin chains and by interacting (via ubiquitin-like domain) with the subunits of the proteasome. Plays a role in the ERAD pathway via its interaction with ER-localized proteins UBXL4, VCP and HERPUD1 and may form a link between the polyubiquitinated ERAD substrates and the proteasome. Plays a role in unfolded protein response (UPR) by attenuating the induction of UPR-inducible genes, DDI3/CHOP, HSPA5 and PDIA2 during ER stress. Involved in the regulation of macroautophagy and autophagosome formation; required for maturation of autophagy-related protein LC3 from the cytosolic form LC3-I to the membrane-bound form LC3-II and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion. Negatively regulates the TICAM1/TRIF-dependent toll-like receptor signaling pathway by decreasing the abundance of TICAM1 via the autophagic pathway. Plays a key role in the regulation of the levels of PSEN1 by targeting its accumulation to aggresomes which may then be removed from cells by autophagocytosis. Promotes the ubiquitination and lysosomal degradation of ORAI1, consequently downregulating the ORAI1-mediated Ca²⁺ mobilization. Suppresses the maturation and proteasomal degradation of amyloid beta A4 protein (A4) by stimulating the lysine 63 (K63)-linked polyubiquitination. Delays the maturation of A4 by sequestering it in the Golgi apparatus and preventing its transport to the cell surface for subsequent processing (By similarity). Links CD47 to the cytoskeleton (PubMed:10549293).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.