

## Product datasheet for **MC219551**

### Ubqln4 (NM\_033526) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ubqln4 (NM_033526) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ubqln4
Synonyms:	A1u; A1Up; AI663987; CIP75; UBIN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219551 representing NM\_033526  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAGCCGAGTGGGGCTGAGACGAGGCCAGATTCGGGTACCGTCAAGACCCCCAAGACAAGG  
 AGGAGATCGTGATCTGCGATCAAGCCTCGGTCAAGGAGTTCAAGGAGGAGATCTCCCGGAGTTTAAGGC  
 TCAGCAGGATCAGCTGGTCTGATCTTCGAGGCAAGATCCTCAAGGATGGGGACACCCTGAGCCAGCAC  
 GGCATCAAGGATGGGCTCACAGTCCACCTAGTCATCAAAACCCTCAGAAGGCTCAAGATCCAGTGACTG  
 CTGCTGCTTCTCCTCCATCCACTCCTGACTCTGCCTCTGCACCCTCCACCAGCCTGCCTCACCTGCCGC  
 CGCCCCTGTCCAGCCTGCAGCTCTGGCAATACTTCAAGTGTGGCAGTGGAGGGGGCCCTCTCCA  
 GTGGCTGCAGAGGGCCCTCAAGTGTACTGCATCGATCCTCTGGCTTCGGAGGCATCTGGGACTGG  
 GCAGCCTGGGCCCTGGCTCCGCCAATTTATGGAGCTGCAGCAACAGATGCAGAGACAGCTCATGTCCAA  
 TCCTGAGATGCTGTCGAGATCATGGAGAACCCTTGGTCCAGGATATGATGTCAAACCTGATCTGATG  
 CGCCACATGATCATGGCTAATCCCAGATGCAGCAGCTGATGGAGAGGAACCCCGAGATCAGCCACATGC  
 TCAACAACCCAGAGCTCATGAGGCAGACAATGGAGCTTGCTCGTAACCCAGCCATGATGCAAGAAATGAT  
 GCGGAACCCAGGACCGGGCCCTCAGCAACCTGAAAGTGTCCCGGGAGGGTATAATGCCCTCCGCCCATG  
 TACACGGACATCCAGGAGCCCATGTTCACTGCTGCTCGGGAACAGTTTGGCAACAATCCCTTCTCTCCC  
 TGGCCGGAACTCCGACAACCTCCTCCCAACCTCTTCGGACTGAGAATCGAGAGCCCCCTCCCTAACCC  
 CTGGAGCCCCCGCCCCACCTCCAGGCCCGGGTCCGGTGGGGAGGGCACCAGGAGGATCGGGGACC  
 AGCCAGGTGACCCGACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAAGGATGTTCA  
 ACAGCCCAGAAATGCAGGCGCTCCTCCAGCAGATTTCTGAAAACCCAGCTGATGCAGAATGTCATCTC  
 AGCCCCTTACATGCGCACCATGATGCAGACGCTTGCCCAAGAACCTGACTTTGCTGCTCAGATGATGGTG  
 AATGTGCCGCTGTTGCGAGGGAATCCACAGCTTCAAGGAGCAGCTCCGCCTGCAGCTCCCCGTGTTTCTGC  
 AGCAGATGCAAAACCCAGAGTCTCTCTCCATCCTCACCAATCCCGGGCCATGCAGGCCCTGCTGCAGAT  
 CCAGCAGGGACTACAGACCCTCCAGACTGAAGCCCTGGGCTGGTACCCAGCCTTGGCTCCTTTGGGACA  
 CCCCAGCCTCGGTACCTCTGGCAGGCAGCAACTCTGGATCTTCGGCAGAGGCCCCACTTCTCCCGG  
 GCGTGCCAGCCACATCTCTCCAGTGCAGGTTCCAATGCCAGCAACAACCTCATGCAGCAGATGATCCA  
 ACTTTTGTCCGGAAGTGGAACTCACAGGTGCCGATGCCAGAAGTGAGATTTCAACAGCAGCTGGAACAA  
 CTAACCTCCATGGGCTTTATTAACCGTGAAGCCAACTACAGGCCCTGATCGCCACAGGAGGGGACATCA  
 ATGCCGCTATTGAGAGACTCCTGGGCTCCAGCTCTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_033526
- Insert Size:** 1791 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\\_033526.2](#), [NP\\_277068.1](#)

**RefSeq Size:** 3372 bp

**RefSeq ORF:** 1791 bp

**Locus ID:** 94232

**UniProt ID:** [Q99NB8](#)

**Cytogenetics:** 3 F1

**Gene Summary:** Regulator of protein degradation that mediates the proteasomal targeting of misfolded, mislocalized or accumulated proteins (By similarity). Acts by binding polyubiquitin chains of target proteins via its UBA domain and by interacting with subunits of the proteasome via its ubiquitin-like domain (By similarity). Key regulator of DNA repair that represses homologous recombination repair: in response to DNA damage, recruited to sites of DNA damage following phosphorylation by ATM and acts by binding and removing ubiquitinated MRE11 from damaged chromatin, leading to MRE11 degradation by the proteasome (By similarity). MRE11 degradation prevents homologous recombination repair, redirecting double-strand break repair toward non-homologous end joining (NHEJ) (By similarity). Specifically recognizes and binds mislocalized transmembrane-containing proteins and targets them to proteasomal degradation (By similarity). Collaborates with DES1/POST in the export of ubiquitinated proteins from the nucleus to the cytoplasm (By similarity). Plays a role in the regulation of the proteasomal degradation of non-ubiquitinated GJA1 (PubMed:18079109, PubMed:20940304). Acts as an adapter protein that recruits UBQLN1 to the autophagy machinery (By similarity). Mediates the association of UBQLN1 with autophagosomes and the autophagy-related protein LC3 (MAP1LC3A/B/C) and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion (By similarity).  
[UniProtKB/Swiss-Prot Function]