

Product datasheet for **MR208794**

Ubqln1 (NM_152234) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubqln1 (NM_152234) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ubqln1
Synonyms:	1110046H03Rik; 1810030E05Rik; AU019746; C77538; D13Erttd372e; Da41; Dsk2; Plic-1; Plic1; Xdrp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208794 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAGCGCAGAGAGCGGGCCACCGGGCGCGCAGGACAGTGGCGCCAGCGCGCCCGCAG
 AGCCCAAGATCATGAAGTACAGGTGAAGACGCCCTAAAGAGAAGGAGAGTTGCCGTGCCGAGAACAG
 CTCGGTCCAGCAGTTCAAAGAGGAAATCTCTAAACGTTTCAAATCTCATATTGACCAACTTGTGTTGATA
 TTTGCTGGAAAAATTTAAAAGATCAAGATACTCTGAGTCAGCATGGGATTCATGATGGACTTACGGTTC
 ACCTTGTGATCAAACACAGAACAGGCCCAAGATAATTCAGCTCAGCAAACAAATGCCCTGGAAGCAC
 TGTGACCAGCTCACCAGCTCCCGATAGCAACCCACGCTGGTCTGCTGCTAACAGCTCCTTTGGCGTA
 GGGCGACTTGGAGGACTGCAGGCTTAGCAGCTGGGTTTAAACACCACCAACTCTCTGAACTCCAGA
 GCCAAATGCAGCGCAACTTTTGTCTAACCTGAAATGATGGTCCAGATCATGAAAAATCCCTTTGTCCA
 GAGCATGCTCTAAATCCTGACCTGATGGGCAATTGATTATGGCCAATCCACAGATGCAACAGTTGATA
 CAGAGAAATCCAGAGATTAGTCATATGCTTAATAATCCAGATATAATGAGACAAACACTGGAATTGCGA
 GAAATCCAGCGATGATGCAGGAAATGATGAGAAACCAGGACCGAGCCTTGAGCAACCTAGAAAGTATTCC
 TGGGGGTATAATGCCTTACGGCGCATGTACACCGATATCCAGGAGCCTATGCTGAATGCTGCTCAAGAA
 CAGTTTGGTGGTAATCCATTTGCGTCTTAGTGAGCAGTTCGTCCTCAGCAGAAGGGACTCAGCCTTCTC
 GAACAGAAAAATAGGGATCCGCTCCCAACCCGTTGGGCTCCGCAGACTCCAGAGCTCACCAGCTCCGG
 TACCACTGGCAGCACCCTAACACCATGAGCACCTCTGGTGGCACTGCCACCAGTACCCCTGCTGGACAG
 AGCACCTCGGGCCCAAGCTTGGTGCCTGGCGCAGGAGCTAGTATGTTCAACACCCCGGAATGCAGAGCC
 TGCTGCAGCAGATAACTGAGAACCACAGCTCATGCAGAACATGCTGTCCGCCCATACATGAGGAGGAT
 GCTGCAGTCCCTGAGCCAGAACCCGACCTTGTGCGCAGATGCAGAACCCCGACACGCTCTCAGCGATG
 TCGAATCTAGAGCCATGCAGGCGCTGCTGCAGATCCAGCAGGGCTTGCAGACGCTGGCCACAGAAGCTC
 CTGGCCTCATCCAGGGTTACTCCTGGCTTGGCAGCAGGCAATTCTGGAGGCTCTTCCGGAACCAATGC
 ACCTAGCACTGCACCTAGTGAAGATACGAACCCCAAGGGGGCACTGCTGAGCCAGGCCACCAGCAGTTT
 ATCCAGCAGATGCTGCAGGCCCTTGGGGGGTGAATCCTCAGCTGCAGAGTCCAGAAGTCAGATTCAGC
 AACAACTGGAACAACTCAGTGCCATGGGATTCTGAACCGTGAAGCAAACCTGCAAGCTCTGATAGCCAC
 AGGGGGCGACATCAATGCAGCAATCGAAAGTTGCTGGGCTCCAGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208794 protein sequence
 Red=Cloning site Green=Tags(s)

MAESAESGGPPGAQDSAADGGPAEPKIMKVTVKTPKEKEEFVAVPENSSVQQFKEEISKRFKSHIDQLVLI
 FAGKILKDQDTLSQHGIDHGLTVHLVIKQNRPDNSAQQTNPAGSTVTSPPAPDSNPTSGSAANSSFGV
 GGLGGLAGLSSLGLNTTNFSELQSQMQRQLL SNPEMMVQIMENPFVQSMLSNPDLMRQLIMANPQMQLI
 QRNPEISHMLNNDIMRQTELEARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPLNAAQE
 QFGGNPFASLVSSSSAEGTQPSRTENRDPLPNPWAPQTSQSSPASGTTGSTNTMSTSGGTATSTPAGQ
 STSGPSLVPGAGASMFNTPGMQSLQLQITENPQLMQNMLSAPYMRSMQLSLSQNPDLAAQMNPDTLSAM
 SNPRAMQALLQIQQLQLATEAPGLIPGFTPGLAAGNSGGSSGTNAPSTAPSEDNPPQGGTAEPGHQQF
 IQQMLQALAGVNPQLQSPEVRFQQLEQLSAMGFLNREANLQAL IATGGDINAAIERLLGSQPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

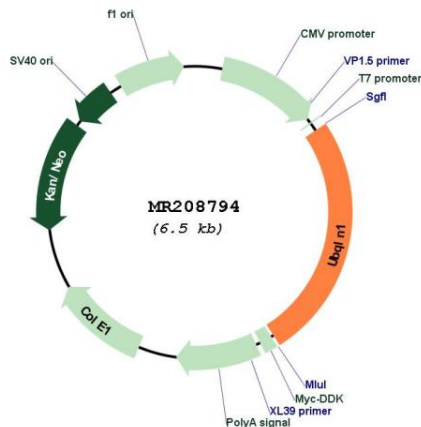
Restriction Sites:

Sgfl-MluI

MW: 58.7 kDa

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, DDTI3/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 ORA11, consequently downregulating the ORA11-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]

Product images:



Circular map for MR208794