

Product datasheet for **MR225944**

Ufl1 (NM_026194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufl1 (NM_026194) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ufl1
Synonyms:	1810074P20Rik; AI429228; Kiaa0776; Maxer; mKIAA0776; Rcad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225944 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGCCTGGGAGGAGATCCGGCGGCTGGCGGCTGACTTCCAGCGGGCGCAGTTTGCAGAGTCCA
 CGCAAAGTTGTGAGAGCGGAACATGATTGAGATTGTGAATAAATTGATCTCTCAGAAACAGCTGGAAGT
 AGTCCATACACTTTCAGCGCAAGGAATATATCACTCCAGCCAAATCAGTAAAGAAATGAGAGACGAGCTA
 CATGTCCGAGGTGGTTCGAGTAAACATTGTTGACTTACAACAGGTTATTAATGTGGACCTGACTCATATCG
 AGAGTAGAGTCAGTGATATTATTAATCAGAGAAGCACGTGCAGATGGTACTGGGACAACGATTGATGA
 GAACTATCTGGATCGTTATCAGAAGAGGTGAATGATAAATTGCAAGAAAGTGGTCAAGTAACTGTCTCA
 GAACTGTGTAAGCCTATGACCTTCTGGGGATTTTCTGACACAGGCATTAACCTAGCGACTTGGCCGGA
 TTATCAATGGCCATCTGGACCTTGATAACAGAGGAGTATTTTCACTGAGGCCTTTGTAGCTCGCCATAA
 AGCACGTATCCGGGACTCTTCAGTGCCATTACACGGCCTACACCAGTGAACCTTTGGTTTCAAATAT
 GGATTTACAGAACAGCTCCTTACTCTGTGCTCGAGGACCTCGTCAAGCTGGCCGCTTACGAGGACCCG
 TGGTCCGGCGGGCAGAGGATAAAGCAGTCTTTGTCCCTGACATCTACTCCAGGACACAGAGTACTTGGGT
 GGACTCCTTTTTCAGGCAGAATGGCTATCTAGAATTTGACGCTTTATCCAGACTTGGAAATCCAGATGCT
 GTGAACATATAAAGAAAAGGTATAAGAATACCAACTCTTGTTTTTGAAGGCAACTTGTGTTGGCCAAG
 GACTCGTAGACCAGGTGGAAGCATCCGTAGAGGAAGCCATCAGCTCAGGGACCTGGGTTGACATTTCCGC
 TCTGCTACCCAGTTCTTGTGAGTTGAAGATGCTGCTATGCTGCTCCAGCAGGTGATGAGACCATTCCGC
 AAGCTCGCTTTCAGCTATAGTCTTTAGTGACACGGTTGTGGTGAAGTGAAGTCACTAAGTACTGACAC
 GACTGTTTCAGCGAACGGATGCACCAAAAAGCTGAGAAGGAAATGAAAAATATCCTGTGCATTTAATCAC
 TGAAGAAGATCTGAAACAAATTTCCATTTTAGAAAAGTGTAAATACAAGTAAAAAGGATAAAAAAGATGAA
 CGCAGGAAGAAAACCAACAGAGGGCTCTGGAAGTGAAGAGGAGGAGGGGGCAATGCCAGAGAATATA
 AAATTAAGAAAACCAAGAAGAAGGGAAGAAAAGATGAGGACAGTATGATGAGTCCAGTCTGCGCATGG
 TGGAAAGAAGAAGCCGGACATCACATTCATGTTCCAGGATGAAATTGAAGATTGCTTAAGGAAACACATT
 CAGGATGCCCTGAGGAGTTTATTTAGAGCTTGCAGAATACTTAATAAAGCCTTTAATAAAATGTATC
 TTGAGGTAGTACGTTTCAGTCTTCATGTCTTCAACATCTGCTTCTGGAAGTGGCAGAAAACGCACAATCAA
 GGACTTACAAGAAGAGGTTTCAAACCTATAACAATAATATCAGATTATTTGAAAAGGGAATGAAATATTTT
 GCAGATGACACACAGACTGCTCTTACCAAGCAGTGTGTAAGACAGTGTGTACCGATATCACTAACCTCA
 TGTTCAACTTCTAGCCTCAGATTTCTCATGGCAGTGGAGGAGCCTGCAGCCATTACAAGTGATATAAG
 AAAAAAATTTAAGCAAATGACAGAAGAAAACCAAGTAGCCCTCACAAAACCTCATAACTCTCTCAAT
 GAAAAAAGCATAGAAGACTTCTGTCTTGCCTGGATTCTGCCACAGAAGCGTGTGACATTATGGTAAAA
 AGGGAGACAAGAAAAGGGAAGACAAAATCCTCTCCAGCATCGACAGGCTCTGTGTGAGCAGCTGAAGGT
 CACAGAAGACCCTGCTCTGATTTTACACCTCACAGCAGTCTGTTATTTTCACTCAACCCACAGCATG
 CTCCACGCACCTGGAAGGTGTGTCACAGATCATCGGTTTCTTACAGCAAAAATCCAGAGGATCAAC
 ATACTCTTTGGTAAAAATCAAGGTTTGGTGTGAAACAGTTAGTCAGTCAAAAATAAGAAGACTGGGCA
 GGGAGAGGATCCGTCAAGCGATGAATTAGACAAGGAACAACATGATGTCAAAAACGCTACTCGGAAAGAG
 CTTCAAGAACTGTCATTATCCATTAAGGACCTTGTCTCAAGTCCAGGAAATCATCTGTACAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225944 protein sequence
Red=Cloning site Green=Tags(s)

MADAWEEIRRLAADFQRAQFAESTQRLSERNCIEIVNKLISQKQLEVVHTLDGKEYITPAQISKEMRDEL
HVRGGRVNIVDLQQVINVDLTHIESRVSDIIKSEKHVQMVLGQLIDENYLDRLSEEVNDKLQESGQVTVS
ELCKAYDLPGDFLTQALTQRLGRIINGHLDLNRGVIFTEAFVARHKARIRGLFSAITRPTPVNSLVSKY
GFQEQLLYSVLEDLVSTGRLRGTVVGGRQDKAVFVPDIYSRTQSTWVDSFFRQNGYLEFDALSRLGIPDA
VNYIKKRYKNTQLLFLKATCVGQGLVDQVEASVEEAISSGTWVDISPLLSSLSVEDAAMLLQQVMRPF
KLASAIVFSDTVVSSEKFITDCTGLFSERMQKAEKEMKNNPVHLITEEDLKQISILESNTSKDKKDE
RRKKATEGSGSVRGGGGNAREYKIKKTKKKGRKDESDDESQSSHGGKKKPDITFMFQDEIEDCLRKHI
QDAPEEFISELAEYLKPLNKMYLEVVRSVFMSSTSASGTGRKRTIKDLQEEVSNLYNNIRLFEKGMKYF
ADDTQTALTKHLLKTVCTDITNLMFNFLASDFLMAVEEPAAITSDIRKKILSKLTEETKVALTKLHNSLN
EKSIEDFLSCLDSATEACDIMVKKGDKKRERQILFQHRQALCEQLKVTEPALILHLTAVLLFQLSTHSM
LHAPGRCVPQIIAFLHSKIPEDQHTLLVKYQGLVVKQLVSQNKKTGQGEDPSSDEL DKEQHDTVNATRKE
LQELSLSIKDLVLKSRKSSVTEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_026194

ORF Size: 2382 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.

RefSeq: [NM_026194.1](#), [NM_026194.2](#), [NM_026194.3](#), [NM_026194.4](#), [NP_080470.2](#)

RefSeq Size: 4335 bp

RefSeq ORF: 2382 bp

Locus ID: 67490

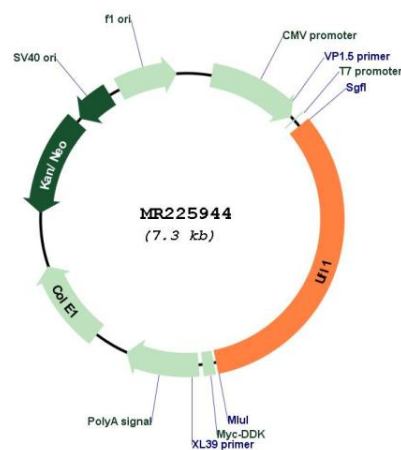
UniProt ID: [Q8CCJ3](#)

Cytogenetics: 4 A3

MW: 89.5 kDa

Gene Summary: E3 protein ligase that mediates ufmylation, the covalent attachment of the ubiquitin-like modifier UFM1 to substrate proteins, a post-translational modification on lysine residues of proteins that may play a crucial role in a number of cellular processes. Mediates DDRGK1 ufmylation and may regulate the proteasomal degradation of DDRGK1 and CDK5RAP3 thereby modulating NF-kappa-B signaling. May also play a role in nuclear receptor-mediated transcription through TRIP4 ufmylation. May play a role in the unfolded protein response, mediating the ufmylation of multiple proteins in response to endoplasmic reticulum stress. Anchors CDK5RAP3 in the cytoplasm, preventing its translocation to the nucleus which allows expression of the CCND1 cyclin and progression of cells through the G1/S transition. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225944