

## Product datasheet for **MC221639**

### Ufl1 (NM\_026194) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ufl1 (NM_026194) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC221639 representing NM\_026194  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACGCCTGGGAGGAGATCCGGCGGCTGGCGGCTGACTTCCAGCGGGCGCAGTTGCAGAGTCCA  
 CGCAAAGTTGTGAGAGCGGAACCTGCATTGAGATTGTGAATAAATTGATCTCTCAGAAACAGCTGGAAGT  
 AGTCCATACACTTGACGGCAAGGAATATATCACTCCAGCCCAAATCAGTAAAGAAATGAGAGACGAGCTA  
 CATGTCCGAGGTGGTCGAGTAAACATTGTTGACTTACAACAGGTTATTAATGTGGACCTGACTCATATCG  
 AGAGTAGAGTCAGTGATATTATTAATCAGAGAAGCACGTGCAGATGGTACTGGGACAACCTGATTGATGA  
 GAACTATCTGGATCAGTTATCAGAAGAGGTGAATGATAAATTGCAAGAAAGTGGTCAAGTAACTGTCTCA  
 GAACTGTGTAAGCCTATGACCTTCTGGGGATTTCTGACACAGGCATTAACCTCAGCGACTTGGCCGGA  
 TTATCAATGGCCATCTGGACCTTGATAACAGAGGAGTATTTTCACTGAGGCCTTTGTAGCTCGCCATAA  
 AGCACGTATCCGGGACTCTTCAGTGCCATTACACGGCCTACACCAGTGAACCTTTGGTTTCAAATAT  
 GGATTTACAGAACAGCTCCTTACTCTGTGCTCGAGGACCTCGTCAGCACTGGCCGCTTACGAGGACCCG  
 TGGTCCGGCGGGCAGAGGATAAAGCAGTCTTTGTCCCTGACATCTACTCCAGGACACAGAGTACTGGGT  
 GGACTCCTTTTTCAGGCAGAATGGCTATCTAGAATTTGACGCTTTATCCAGACTTGGAAATCCCAGATGCT  
 GTGAACATATAAAGAAAAGGTATAAGAATACCAACTCTGTTTTTGAAGGCAACTTGTGTTGGCCAAG  
 GACTCGTAGACCAGGTGGAAGCATCCGTAGAGGAAGCCATCAGCTCAGGGACCTGGGTTGACATTTCCGC  
 TCTGCTACCCAGTTCTTGTGAGTTGAAGATGCTGCTATGCTGCTCCAGCAGGTGATGAGACCATTCCGC  
 AAGCTCGCTTCACTATAGTCTTTAGTGACACGGTTGTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG  
 TGAAGAAGATCTGAAACAAATTTCCATTTTAGAAAGTGTAAATACAAGTAAAAAGGATAAAAAAGATGAA  
 CGCAGGAAGAAAGCAACAGAGGGCTCTGGAAGTGAAGAGGAGGAGGAGGGGCAATGCCAGAGAATATA  
 AAATTAAGAAAACCAAGAAGAAGGGAAGAAAAGATGAGGACAGTATGATGAGTCCAGTCTGCGCATGG  
 TGGAAAGAAGAAGCCGGACATCACATTCATGTTCCAGGATGAAATTGAAGATTGCTTAAGGAAACACATT  
 CAGGATGCCCTGAGGAGTTATTTTCCAGAGCTGCAGAATACTTAATAAAGCCTCTTAATAAAATGTATC  
 TTGAGGTAGTACGTTTCACTTCTTCAACATCTGCTTCTGGAAGTGGCAGAAAACGCACAATCAA  
 GGACTTACAAGAAGAGGTTTCAAACCTATAACAATAATATCAGATTATTTGAAAAGGGAATGAAATATTTT  
 GCAGATGACACACAGACTGCTCTTACCAAGCAGTGTGCTGAAGACAGTGTGTACCGATATCACTAACCTCA  
 TGTTCAACTTCTAGCCTCAGATTTCTCATGGCAGTGGAGGAGCCTGCAGCCATTACAAGTGATATAAG  
 AAAAAAATTTTAAAGCAATTGACAGAAGAAAACAAAGTGTCTCTCAAAAACCTCATAACTCTCTCAAT  
 GAAAAAGCATAGAAGACTTCTGTCTTGCCTGGATTCTGCCACAGAAGCGTGTGACATTATGGTAAAA  
 AGGGAGACAAGAAAAGGGAAGACAAAATCTCTTCCAGCATCGACAGGCTCTGTGTGAGCAGCTGAAGGT  
 CACAGAAGACCCTGCTCTGATTTTACACCTCACAGCAGTCTGTTATTTTCACTCTCAACCCACAGCATG  
 CTCCACGCACCTGGAAGGTGTGTCCACAGATCATCGGTTTCTTCCAGCAAAAATCCCAGAGGATCAAC  
 ATACTCTTTGGTAAAAATCAAGGTTTGGTGTGAAACAGTTAGTCAGTCAAAAATAAGAAGACTGGGCA  
 GGGAGAGGATCCGTCAAGCGATGAATTAGACAAGGAACAACATGATGTCACAAAACGCTACTCGGAAAGAG  
 CTTCAGGAACTGTCATTATCCATTAAGGACCTTGTCTCAAGTCCAGGAAATCATCTGTCCAGAGGAGT  
 AA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_026194  
**Insert Size:** 2382 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_026194.4</a> , <a href="#">NP_080470.2</a>
<b>RefSeq Size:</b>	4335 bp
<b>RefSeq ORF:</b>	2382 bp
<b>Locus ID:</b>	67490
<b>UniProt ID:</b>	<a href="#">Q8CCJ3</a>
<b>Cytogenetics:</b>	4 A3
<b>Gene Summary:</b>	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>