

Product datasheet for **RN202893**

Ufl1 (NM_001126279) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufl1 (NM_001126279) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ufl1
Synonyms:	Maxer; RGD1309308
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202893 representing NM_001126279
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGCCTGGGAGGAGATCCGGCGTCTGGCGGCTGACTTCCAGCGGGCGCAGTTTGTCTGAGTCCA
 CGCAAAGCTGTGAGAGCGGAACATGATTGAGATTGTGAATAAATTGATCTCTCAGAAACAGCTGGAAGT
 AGTTCATACGCTTGATGGGAAGGAATATATCACTCCAGCCAGATCAGTAAAGAAATGAGAGATGAGCTA
 CATGTCCGAGGTGGTCGAGTAAACATTGTCGACTTACAACAGGTTATTAACGTGGACCTGACTCATATTG
 AAAATAGAGTCGGCGACATTATTAAGTCGGAGAAGCATGTGCAGATGGTACTGGGACAGCTGGTCGATGA
 GAACTATCTGGATCGGTTATCAGAAGAGGTGAATGATAAATTGCAAGAAAGTGGTCAAGTAAACCGTCTCA
 GAGCTGTGTAACCTATGACCTTCTGGGGATTTCTGACACAGGCATTAACAGCGACTTGGCCGGA
 TTATCAATGGCCATCTTGACCTTGATAACAGAGGAGTATTTTCACTGAGGCCTTTGTGGCTCGCCATAA
 AGCAGCATCCGTGGACTCTTCAGTGCTATTACCGGCCTACAGCAGTGAACCTTTGGTTTCAAATAT
 GGATTTACAGAACAGCTCCTTACTCTGTGCTTGAGGAACTTGTAGCACTGGCCGCTACGAGGACCGG
 TGGTTGGCGGGGACAGGACAAAGCAGTGTGTCCCTGACATCTATTCCAGGACACAGAGTACTTGGGT
 GGATTCCTTCTCAGGCAGAACGGCTATCTAGAATTTGACGCTTATCCAGACTTGGAAATCCAGATGCT
 GTGAACATATAAAGAAAAGGTATAAGAATACCCACTCTGTTTTTGAAGGCAACTTGTGTTGGCCAAG
 GGCTCGTGGACCAGGTGGAAGCATCGGTAGAGGAGGCCATCAGCTCAGGAACATGGGTTGACGTTTCGCC
 TCTGCTGCCAGTTCTTTGTGAGTTGAAGATGCTGCTATGCTGCTCAGCAGGTGATGAGACATTTGGC
 AAGCATGCGTCAGCCACAGTCTTTAGTGACACTGTTGTGGTCAGCGAGAAATTCATCAATGACTGTACAA
 AACTGTTGAGCGAACGAATGCACCAAAAAGCTGAAAAGGAAATGAAAAATAACTGTGCATTTAATCAC
 AGAAGAAGATCTGAAACAATATCCATTTTAGAAAGTGTAAATACAAATAAAAAGGATAAAAAAGATGAA
 CGCAGGAAGAAAGCAACAGAGGGTCTGGAAAGTGAAGAGGCGGAGGAGGGGCAATGCCAGAGAATACA
 AGATTAAGAAAGTCAAGAAGAAGGGAAGAAAAGACAGGACAGTATGATGAGTCTCAGTCATCGCATGC
 TGGAAAGAAGAAGCCAGACATCACCTTCATGTTCCAGGATGAAATGAAGGTTGCTTAAGGAAACACATT
 CCAGATGCCCTGAGGAGTTATTTCAGAACTGCAGAACACTTAATAAGCCTCTGAATAAAATGTATC
 TTGAGGTGGTACGTTTCTCATGTCGTCACATCTGCTTCTGGAAGTGGCAGAAAACGCACGATCAA
 GGACTTACAAGAAGAGGTTTCAAATCTATAACAATAATATCAGATTATTTGAAAAGGGGATGAAATATTTT
 GCAGATGACACACAGACTGCTCTGACCAAGCACTTGTGTAAGACAGTGTGTACCGATATCACTAACCTCA
 TGTTCAACTTCTAGCCTCAGACTTGATGATGGCGGTGGAGACCCTGCAACCATTACAAGTGATATGAG
 AAAAAAATTTAAGCAAATGACAGAAGAACTAAAGTAGTCTCACAAAACCTCCACAACCTCCCTGAAT
 GAAAAAAGCATAGAAGACTTCTTTCTGTCTGGATTCTGCAACAGAAGCTTGTGACATTATGGTAAAA
 AGGGAGACAAAAAAGGGAAAGGCAATCCTTTCCAGCATCGGCAGGCTCTGGCTGACCAGCTGAAGGT
 CACAGAAGACCCTGCTCTGATTTTACATCTCACATCAGTCCTGTTATTTTCAAGTCTCAACCCACAGCATG
 CTCCATGCACCTGGAAGATGTGTCCACAGATCATCGCCTTTCTCACAACAAAATCCCAGAGGATCAAC
 ATACTCTTTGGTAAAAATCAAGGATTGGTTGTGAAACAGTTAGTCAGTCAAAAATAAGAAGAGTGGACA
 GGGAGAGGATCCGTCAAGCGATGACTTAGACAAGGAACAACATGACGTCACCAATACTACTCGGAAGGAG
 CTTCAGGAACTGTCTTTATCCATTAAGGACCTTGTCTGAAGCCAGGAAATCATCTGTGACAGAGGAGT
 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001126279
Insert Size: 2382 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:	<ol style="list-style-type: none">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_001126279.1 , NP_001119751.1
RefSeq Size:	2766 bp
RefSeq ORF:	2382 bp
Locus ID:	313115
UniProt ID:	B2GV24
Cytogenetics:	5q21
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]