

Product datasheet for **RR202893**

Ufl1 (NM_001126279) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR202893 representing NM_001126279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGCCTGGGAGGAGATCCGGCGTCTGGCGGCTGACTTCCAGCGGGCGCAGTTTGTCTGAGTCCA
 CGCAAAGCTGTGAGAGCGGAACATGATTGAGATTGTGAATAAATTGATCTCTCAGAAACAGCTGGAAGT
 AGTTCATACGCTTGATGGGAAGGAATATATCACTCCAGCCAGATCAGTAAAGAAATGAGAGATGAGCTA
 CATGTCCGAGGTGGTCGAGTAAACATTGTCGACTTACAACAGGTTATTAACGTGGACCTGACTCATATTG
 AAAATAGAGTCGGCGACATTATTAAGTCGGAGAAGCATGTGCAGATGGTACTGGGACAGCTGGTCGATGA
 GAACTATCTGGATCGGTTATCAGAAGAGGTGAATGATAAATTGCAAGAAAGTGGTCAAGTAAACCGTCTCA
 GAGCTGTGTAACCTATGACCTTCTGGGGATTTTCTGACACAGGCATTAACAGCGACTTGGCCGGA
 TTATCAATGGCCATCTTGACCTTGATAACAGAGGAGTGATTTTCACTGAGGCCTTTGTGGCTCGCCATAA
 AGCAGCATCCGTGGACTCTTCAGTGCTATTACCCGGCCTACAGCAGTGAACCTTTGGTTTCAAATAT
 GGATTTACAGAACAGCTCCTTACTCTGTGCTTGAGGAACTTGTAGCACTGGCCGCTACGAGGACCGG
 TGGTTGGCGGGGACAGGACAAAGCAGTGTGTTGTCCTGACATCTATTCCAGGACACAGAGTACTGGGT
 GGATTCCTTCTCAGGCAGAACGGCTATCTAGAATTTGACGCTTATCCAGACTTGGAAATCCAGATGCT
 GTGAACATATAAAGAAAAGGTATAAGAATACCCACTCTGTTTTTGAAGGCAACTTGTGTTGGCCAAG
 GGCTCGTGGACCAGGTGGAAGCATCGGTAGAGGAGGCCATCAGCTCAGGAACATGGGTTGACGTTTCGCC
 TCTGCTGCCAGTTCTTTGTGAGTTGAAGATGCTGCTATGCTGCTCAGCAGGTGATGAGACCATTGGC
 AAGCATGCGTCAGCCACAGTCTTTAGTGACTGTTGTGGTCAGCGAGAAATTCATCAATGACTGTACAA
 AACTGTTGAGCGAACGAATGCACCAAAAAGCTGAAAAGGAAATGAAAAATATCCTGTGCATTTAATCAC
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 CGCAGGAAGAAAGCAACAGAGGGTCTGGAAAGTGAAGAGGCGGAGGAGGGGCAATGCCAGAGAATACA
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 TGGAAAGAAGAAGCCAGACATCACCTTCATGTTCCAGGATGAAATTGAAGTTGCTTAAGGAAACACATT
 CCAGATGCCCTGAGGAGTTTATTTCAGAACTGCAGAACACTTAATAAAGCCTCTGAATAAAATGTATC
 TTGAGGTGGTACGTTTCTTCATGTCGTCACATCTGCTTCTGGAAGTGGCAGAAAACGCACGATCAA
 GGACTTACAAGAAGAGGTTTCAAATCTATAACAATAATATCAGATTATTTGAAAAGGGGATGAAATATTTT
 GCAGATGACACACAGACTGCTCTGACCAAGCACTTGTGTAAGACAGTGTGTACCGATATCACTAACCTCA
 TGTTCAACTTCTAGCCTCAGACTTGATGATGGCGGTGGAGACCCTGCAACCATTACAAGTGATATGAG
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 CACAGAAGACCCTGCTCTGATTTTACATCTCACATCAGTCCTGTTATTTTCAAGTTCAACCCACAGCATG
 CTCCATGCACCTGGAAGATGTGTCCACAGATCATCGCCTTTCTCACAACAAAATCCCAGAGGATCAAC
 ATACTCTTTGGTAAAAATCAAGGATTGGTTGTGAAACAGTTAGTCAGTCAAAAATAAGAAGAGTGGACA
 GGGAGAGGATCCGTCAAGCGATGACTTAGACAAGGAACAACATGACGTACCAATACTACTCGGAAGGAG
 CTTCAGGAACTGTCTTTATCCATTAAGGACCTTGTCTGAAGCCAGGAAATCATCTGTGACAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202893 representing NM_001126279
Red=Cloning site Green=Tags(s)

MADAWEEIRRLAADFQRAQFAESTQRLSERNCIEIVNKLISQKQLEVVHTLDGKEYITPAQISKEMRDEL
HVRGGRVNIVDLQQVINVDLTHIENRVGDIKSEKHVQMVLGQLVDENYLDRLSEEVNDKLQESGQVTVS
ELCKTYDLPDGLTQALTQRLGRIINGHLDLNRGVIFTEAFVARHKARIRGLFSAITRPTAVNSLVSKY
GFQEQLLYSVLEELVSTGRLRGTVVGGRQDKAVFVPDIYSRTQSTWVDSFFRQNGYLEFDALSRLGIPDA
VNYIKKRYKNTPLLFLKATCVGQGLVDQVEASVEEAISSGTWVDVSPLLPSSLSVEDAAMLLQQVMRPF
KHASATVFSDTVVSSEKFINDC TKLFSERMQKAEKEMKNNPVHLITEEDLKQISILES VNTNKKDKKDE
RRKKATEGSGSVRGGGGNAREYKIKKVKKKGRKDESDDESQSSHAGKKKPDITFMFQDEIEGCLRKHI
PDAPEEFISELAEHLIKPLNKMYLEVRSVFMSSTSASGTGRKRTIKDLQEEVSNLYNNIRLFEKGMKYF
ADDTQTALTKHLLKTVCTDITNLMFNFLASDLMMAVEDPATITSDMRKKILSKLTEETKVALTKLHNSLN
EKSIEDFLSCLDSATEACDIMVKKGDKKRERQILFQHRQALADQLKVTEDPALILHLTSVLLFQFSTHSM
LHAPGRCVPQIIAFLHNKIPEDQHTLLVKYQGLVVKQLVSQNKKSGQGEDPSSDDL DKEQHDVTNTTRKE
LQELSLSIKDLVLPKRKSSVTEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_001126279.1](#), [NP_001119751.1](#)

RefSeq Size: 2766 bp

RefSeq ORF: 2382 bp

Locus ID: 313115

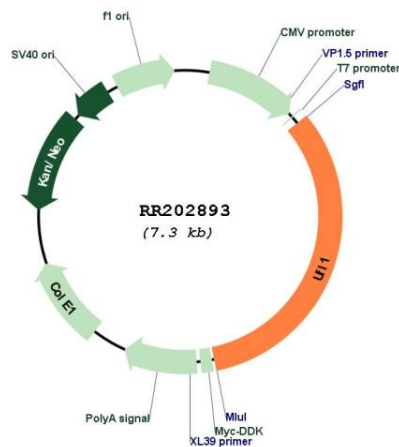
UniProt ID: [B2GV24](#)

Cytogenetics: 5q21

MW: 89.6 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 RR202893