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Product datasheet for SC108871

UFL1 (NM_015323) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UFL1 (NM_015323) Human Untagged Clone
Tag:	Tag Free
Symbol:	UFL1
Synonyms:	KIAA0776; Maxer; NLBP; RCAD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_015323, the custom clone sequence may differ by one or more nucleotides

ATGGCGGACGCCTGGGAAGAGATTAGGCGGTTGGCGGCCGACTTCCAGCGGGCGCAGTTCGCCGAGGCCA
CGCAGAGGTTGTCCGAGCGGAACTGCATTGAGATTGTTAATAAATTGATTGCTCAGAAACAGCTAGAAGT
AGTTCATACACTCGATGGAAAGGAATATATTACTCCAGCCCAAATTAGTAAAGAAATGAGAGATGAGCTA
CATGTCCGAGGTGGTCGAGTAAACATTGTTGATCTACAACAGGTAATTAATGTGGACCTGATTCATATTG
AAAATAGAATTGGTGACATTATTAAATCAGAAAAGCATGTTCAGTTAGTGTTGGGACAACTGATAGATGA
GAATTATTTGGATCGGTTGGCAGAAGAGGTCAATGATAAATTGCAAGAAAGTGGTCAGGTCACCATATCA
GAACTGTGTAAAACTTATGATCTTCCTGGGAACTTTCTGACACAGGCACTAACTCAGCGACTTGGTAGAA
TTATCAGTGGACATATTGATCTTGATAATAGAGGAGTAATTTTTACGGAAGCTTTTGTAGCTCGACATAA
AGCACGTATCCGTGGACTATTCAGTGCTATTACCCGGCCTACAGCTGTGAATTCTTTGATTTCAAAATAT
GGATTTCAGGAGCAGCTTCTTTACTCTGTGCTTGAGGAACTTGTTAATAGCGGACGCTTACGAGGCACTG
TGGTTGGTGGGAGACAGGATAAAGCTGTGTTTGTCCCTGACATCTACTCCAGGACACAGAGTACTTGGGT
GGATTCCTTTTTCAGGCAGAATGGCTATCTAGAATTTGATGCTTTGTCCAGACTTGGAATCCCAGATGCT
GTAAGCTACATAAAGAAAAGATATAAGACTACACAACTCTTGTTTTTGAAAGCAGCTTGTGTTGGTCAAG
GACTTGTGGATCAAGTGGAAGCATCAGTAGAAGAAGCCATCAGCTCTGGAACATGGGTTGATATTGCACC
TCTGCTACCCACTTCTTTATCAGTTGAAGATGCTGCCATATTGCTTCAGCAGGTGATGAGGGCATTCAGC
AAACAGGCCTCAACTGTAGTCTTTAGCGACACTGTTGTAGTCAGTGAAAAATTTATAAATGACTGTACAG
AACTGTTCCGTGAGCTGATGCACCAGAAAGCTGAAAAGGAAATGAAAAATAATCCTGTGCATTTAATCAC
TGAAGAAGATCTGAAACAAATCTCCACTTTAGAAAGCGTTAGTACAAGTAAAAAGGATAAAAAAGATGAG
CGAAGAAGGAAAGCAACAGAGGGCAGTGGAAGCATGAGAGGAGGAGGTGGGGGCAATGCCAGAGAGTACA
AAATTAAAAAAGTCAAGAAGAAAGGAAGAAAAGATGATGATAGTGATGATGAATCTCAATCATCCCACAC
TGGAAAGAAGAAGCCAGAGATCAGTTTTATGTTCCAGGATGAGATTGAAGATTTTTTAAGAAAACACATA
CAAGATGCCCCTGAGGAGTTTATTTCGGAACTTGCTGAGTACTTAATAAAACCTCTTAATAAAACTTATC
TCGAGGTGGTACGTTCAGTATTCATGTCTTCAACAACTTCTGCTTCTGGGACGGGCAGAAAACGCACAAT
CAAGGACTTGCAAGAAGAAGTTTCAAACCTGTACAATAACATTAGGTTATTTGAAAAAGGGATGAAGTTT
TTTGCAGATGACACACAGGCTGCTCTTACCAAACACTTGCTGAAGTCAGTGTGTACTGATATCACTAACC
TCATTTTCAACTTCTTAGCTTCGGATTTAATGATGGCAGTAGACGATCCTGCAGCCATTACAAGTGAAAT
AAGAAAGAAAATTTTAAGTAAATTATCAGAAGAAACCAAAGTAGCTCTTACAAAACTCCATAACTCTCTG
AATGAAAAGAGCATAGAAGACTTTATTTCTTGTCTGGATTCTGCAGCAGAAGCTTGTGATATTATGGTGA
AAAGGGGAGACAAAAAAAGGGAAAGACAGATACTGTTCCAACATCGACAAGCACTGGCTGAACAGCTAAA
GGTCACAGAAGACCCTGCTCTTATTCTGCACCTCACATCAGTCCTGTTGTTTCAGTTTTCAACCCACAGC
ATGCTCCATGCACCTGGAAGATGTGTCCCACAGATCATTGCTTTTCTTAATAGTAAAATTCCAGAGGATC
AGCATGCTCTTTTGGTAAAGTATCAAGGTTTGGTTGTAAAGCAGCTAGTCAGTCAAAGTAAGAAGACTGG
GCAGGGAGATTATCCCTTGAATAATGAATTAGACAAAGAACAAGAAGATGTTGCCAGTACTACTCGTAAA
GAGCTTCAAGAACTTTCTTCATCCATTAAAGACCTTGTTCTCAAATCTAGGAAATCATCTGTGACGGAAG
AGTAA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_015323 unedited
GGGTCAACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCGCGTCTA
CTGCGAGTCAGGCCGTGATGGCGGACGCCTGGGAAGAGATAGGCGGTTGGCGGCCGACTT
CCAGCGGGCGCAGTTCGCCGAGGCCACGCAGAGGTTGTCCGAGCGGAACTGCATTGAGAT
TGTTAATAAATTGATTGCTCAGAAACAGCTAGAAGTAGTTCATACACTCGATGGAAAGGA
ATATATTACTCCAGCCCAAATTAGTAAAGAAATGAGAGATGAGCTACATGTCCGAGGTGG
TCGAGTAAACATTGTTGATCTACAACAGGTAATTAATGTGGACCTGATTCATATTGAAAA
TAGAATTGGTGACATTATTAAATCAGAAAAGCATGTTCAGTTAGTGTTGGGACAACTGAT
AGATGAGAATTATTTGGATCGGTTGGCAGAAGAGGTCAATGATAAATTGCAAGAAAGTGG
TCAGGTCACCATATCAGAACTGTGTAAAACTTATGATCTTCCTGGGAACTTTCTGACACA
GGCACTAACTCAGCGACTTGGTAGAATTATCAGTGGACATATTGATCTTGATAATAGAGG
AGTAATTTTTACGGAAGCTTTTGTAGCTCGACATAAAGCACGTATCCGTGGACTATTCAG
TGCTATTACCCGGCCTACAGCTGTGAATTCTTTGATTTCAAAATATGGATTTCAGGAGCA
GCTTCTTTACTCTGTGCTTGNAGAACTTGTTAATAGCGGACGCTTACGANGCACTGTGGT
TGGTGGGAGACAGGATAAAGCTGTGTTTGTCCCTGACATCTACTCCAGGACACAGAGTAC
TTTGGTGGATTCCTTTNTCANGCAGAATGGCTATCTAGAATTGATGCTTTGTCCAGACTT
GGAATCCAGATGCTGTTAGCTACATAAAGAAAGATATAGACTA
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Restriction Sites: NotI-NotI

ACCN: NM_015323

Insert Size: 4500 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:
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_015323.2, NP_056138.1

RefSeq Size: 4208 bp

RefSeq ORF: 2385 bp

Locus ID: 23376

UniProt ID: O94874

Cytogenetics: 6q16.1

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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 (PubMed:20018847, PubMed:20164180, PubMed:20228063, PubMed:25219498). May also play a role in nuclear receptor-mediated transcription through TRIP4 ufmylation (PubMed:25219498). May play a role in the unfolded protein response, mediating the ufmylation of multiple proteins in response to endoplasmic reticulum stress (PubMed:23152784). 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 (PubMed:20531390).[UniProtKB/Swiss-Prot Function]

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