

Product datasheet for RR202893L3

Ufl1 (NM_001126279) Rat Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ufl1 (NM_001126279) Rat Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Ufl1

Synonyms: Maxer; RGD1309308

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RR202893).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_001126279

ORF Size: 2379 bp



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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: <u>NM 001126279.1</u>, <u>NP 001119751.1</u>

 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

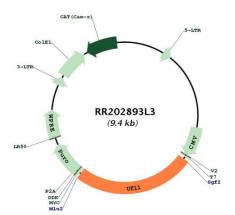
modifier UFM1 to substrate proteins, a post-translational modification on lysine residues of proteins that may play a crucial role in a number of cellular processes. Mediates DDRGK1 ufmylation and may regulate the proteasomal degradation of DDRGK1 and CDK5RAP3 thereby modulating NF-kappa-B signaling. 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]



Product images:



Circular map for RR202893L3