

Product datasheet for **RN214946**

Ufm1 (NM_001126080) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufm1 (NM_001126080) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ufm1
Synonyms:	RGD1304890
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214946 representing NM_001126080 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCGAAGGTGTCCTTTAAATCACGCTGACGTCGGACCCGGGCTACCGTACAAAGTCCTCAGCGTTC
 CTGAAAGCACACCTTTCACAGCTGTGCTAAAGTTGCAGCAGAAGAGTTTAAAGTTCCTGCTGCTACAAG
 TGCGATTATTACTAATGATGGAATAGGAATTAATCCTGCACAGACTGCTGGAAACGTTTTCTGAAGCAC
 GGCTCAGAGCTGCGGCTATTCTCGAGACCGAGTTGGGAGCTGC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001126080
Insert Size:	258 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).


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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_001126080.2, NP_001119552.1</u>
RefSeq Size:	2151 bp
RefSeq ORF:	258 bp
Locus ID:	365797
UniProt ID:	<u>Q5BJP3</u>
Cytogenetics:	2q26
Gene Summary:	Ubiquitin-like modifier which can be covalently attached via an isopeptide bond to substrate proteins as a monomer or a lysine-linked polymer. The so-called ufmylation, requires the UFM1-activating E1 enzyme UBA5, the UFM1-conjugating E2 enzyme UFC1, and the UFM1-ligase E3 enzyme UFL1. This post-translational modification on lysine residues of proteins may play a crucial role in a number of cellular processes. TRIP4 ufmylation may for instance play a role in nuclear receptors-mediated transcription. Other substrates may include DDRGK1 with which it may play a role in the cellular response to endoplasmic reticulum stress.[UniProtKB/Swiss-Prot Function]