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Product datasheet for MG200184

Ufm1 (NM_026435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufm1 (NM_026435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ufm1
Synonyms:	1810045K17Rik; AI132708; AI463323; ENSMUSG00000074598; Gm10726
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG200184 representing NM_026435
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGAAGGTGTCCTTTAAAATCACGTTGACGTCGGACCCGCGGCTGCCGTACAAAGTTCTCAGTGTTC
CTGAAAGTACGCCGTTCACAGCAGTGCTAAAGTTTGCAGCAGAAGAATTTAAAGTTCCTGCAGCTACAAG
TGCGATTATTACTAATGATGGAATAGGAATAAATCCTGCACAGACTGCTGGGAATGTTTTCCTGAAGCAC
GGCTCAGAACTGAGAATCATTCCTAGAGACCGAGTTGGAAGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG200184 representing NM_026435
Red=Cloning site Green=Tags(s)

MSKVSFKITLTSDPRLPYKVLSVPESTPFTAVLKFAAEEFKVPAATSAIITNDGIGINPAQTAGNVFLKH
GSELRIIPRDRVGSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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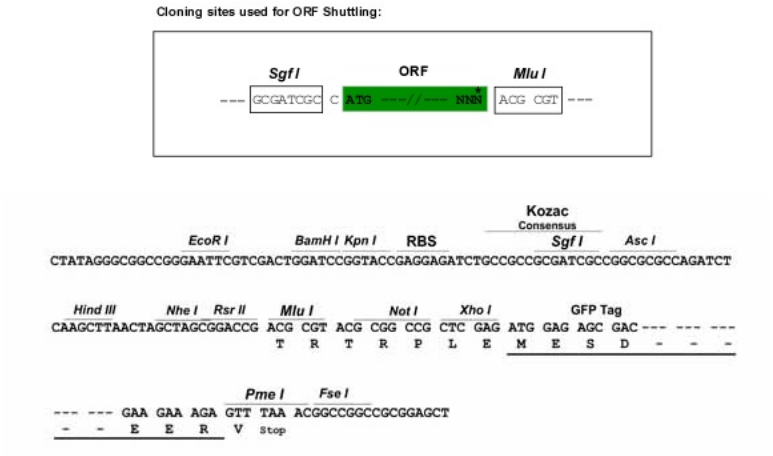
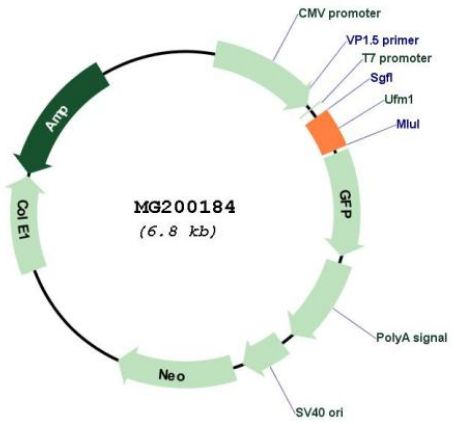
Cloning Scheme:



Plasmid Map:



ACCN: NM_026435

ORF Size: 255 bp

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:	NM_026435.5, NP_080711.1
RefSeq Size:	4887 bp
RefSeq ORF:	258 bp
Locus ID:	67890
UniProt ID:	P61961
Cytogenetics:	3 C
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 (PubMed:21494687). 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 (By similarity). Other substrates may include DDRGK1 with which it may play a role in the cellular response to endoplasmic reticulum stress.[UniProtKB/Swiss-Prot Function]