

Product datasheet for **MR202405**

Ufsp1 (NM_027356) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ufsp1 (NM_027356) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ufsp1 |
| Synonyms: | 2700038N03Rik; D5Ertd655e |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR202405 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGCTGCTCTACCGAGCACCTGGAGCTGCTGAAGGACGTGCACCTGGCCTGCCTGTGCCCTGCC
ATGATCCCGCCCGACTGGCCCTCCTCTCAGGCCACTACCTTTACTATCACTATGGTTGCGATGGACTGGA
TGACCGTGGCTGGGGATGCGGCTACCGCACCTGCAGACGCTGTGCTCCTGGCCAGGGGGCCAGTCTCA
GGCGTGCCTGGACTGCCAGCCTGCAGGGAGCCCTAGAGGCCATGGGCGACAAGCCCCCGGATTCGGG
GCTCCCGTAAGTGGATCGGCTGTGTAGAGGCCAGTCTCTGCCTAGAACACTTCGGAGGACCTCAAGGGCG
CCTATGCCACTTACCCCGCGGAGTAGGGCTTAGGGGAGAAGAGGAGCGGCTTTATTACACTTTACAACG
GGTGGGGGCCAGTAATGGTAGGAGGAGATGCAGATGCCAGTCCAAGGCCCTGTGGGGATCTGTGAGG
GGCCAGGTTTACAAGTCTATGTCTTGATACTGGACCCACACTACTGGGGCACTCCAAAAACCGTTGTGA
ACTACAAGCTGCTGGATGGGTGGCTGGCAAAGGTAAGGCGTCTTTGATTCCAATTCCTTCTACAAC
TTGTGCTTACCAGAAATCTC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202405 protein sequence
 Red=Cloning site Green=Tags(s)

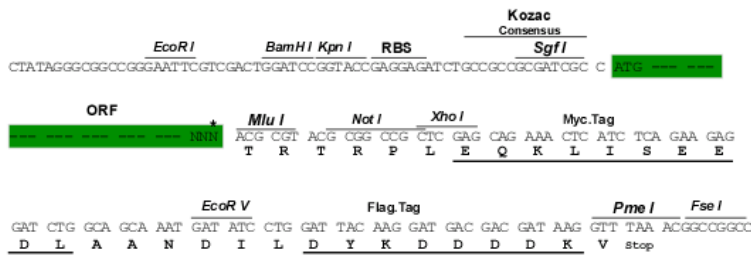
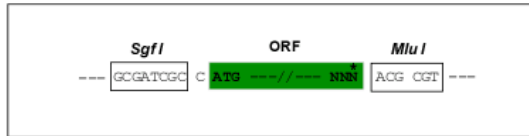
MTAALPSTLELLKDVHLGLPVPCHDPARLALLSGHYLYYHYGCDGLDDRGWGCGYRTLQTLCSWPGGQSS
 GVPGLPALQGALEAMGDKPPGFRGSRNWIGCVEASLCLHFHGGPQGR LCHLPRGVGLRGEERLYSHFTT
 GGGPVMVGGDADAQSKALLGICEGPGSEVYVLIIDPHYWGTPKNRCELQAAGVWVQKVKVSVFDSNSFYN
 LCFTRNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027356

ORF Size: 654 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_027356.1](#), [NM_027356.2](#), [NP_081632.1](#)

RefSeq Size: 996 bp

RefSeq ORF: 654 bp

Locus ID: 70240

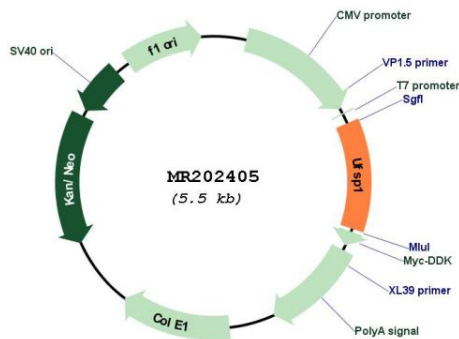
UniProt ID: [Q9CZP0](#)

Cytogenetics: 5 76.33 cM

MW: 23.4 kDa

Gene Summary: Thiol protease which recognizes and hydrolyzes the peptide bond at the C-terminal Gly of UFM1, a ubiquitin-like modifier protein bound to a number of target proteins. Does not hydrolyze SUMO1 or ISG15 ubiquitin-like proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202405