

Product datasheet for **RR205737**

Ufsp2 (NM_001014142) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ufsp2 (NM_001014142) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ufsp2
Synonyms:	RGD1311161
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205737 representing NM_001014142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGATATCCTCTTCAGAATAAGAGGTGGTTTCGATCTGGCTTTTCAGCTGGCGCCTCCTAAAGAAATGT
 TTATCAAGAATGCACTAAGACAGGTATTGAATGACCTGACTACCAAGCTCTCCTCAGATGCTCTTGTT
 CAGAATTTGCAACAGCTCTGTGTACCTCTGGCCGAACAGTGACGCAAAACCGGGAGAAGTACTGACAGC
 TCTGCCTGTAAGAGTGTAGTGGACCTCATTCAATTTGATCAAGAGGAGGATACAAAGCGAAAATTCATGA
 AAAAGAAAGACAAAAAGTTAACCACATGCAACAAATAGTAAATATAGACCTCATGCTGGAATATCGAC
 CCCTCTGGGAGCCGTAAACCCCATCATCGAAAGGGAACGAAGAACCACTACATTAATAGAGTTG
 CCAATCGATGCGTTGTGTCCGTTGCTCCAGAGGAAACATGGGAAAAGTGCAGAACTTCTAGTGGATG
 CAATTCCTAATCAGCTAGTTGATGTGAAAAATGCATCTTGAGATATATGAAAGGAACATCTATTGGT
 CCCTGAACCACTGCATTTCTATTGCCAGGGGAAAGAATCTCGTAACAGTTTATATCCATCCGGAATC
 CCAGATGATCAGCTACAAGCCTATAGAAAGGAGTTACATGATCTCTTCAAATTGCCTCATGACAGACCTT
 ATCTCAAAGGATTAATGCTTATCACTTTCCGGATGAAGTATATAAGATGGCTATATTAGAAATCCGCA
 TGCTTACCTGAGCCACCTAACATAGAGGGTAGTATGATTTGCATGGTCCAGGGCACTTACGCCTATCAT
 CACTACATGCAAAATCGGGTGGACGACAACGGCTGGGGCTGTGCTTACAGGCTACTACAGACGGTCTGCT
 CATGGTTCAGACATCAGGGTTACACAGAAAGGGCCATTCCAACACACAGGGAAATCCAGCAGGCTCTAGT
 TGATGCCGGTGACAAACAGCAACATTTGTTGGATCACGGCAATGGATCGGGTCTATTGAAGTGCAGCTG
 GTACTAAACCACTGATCGGTGTAACCTCCAAAATACTGTTTGTCAATCAAGGTTGAGAAATGGCTTCTC
 AAGGACGGGAAGTAGCAACCATTTCCAGAATGTGGGCACTCCAGTAATGATTGGGGAGGAGTATTGGC
 TCACACAATACTAGGAGTCGCATGGAATGAACTACAGGGCAGATCAAATTCCTAATTCTAGACCCACAC
 TATACAGGTGCTGAAGACCTGCAAGTTATATTGAAAAGGGCTGGTGTGGATGGAAGGTCAGACTTTT
 GGAACAAGGATGCATACTACAACCTATGCCTTCTCAACGACCAAATGCTCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205737 representing NM_001014142
 Red=Cloning site Green=Tags(s)

MDILFRIRGGFDLAFQLAPPKEMFIKNALRQVLNDLTTKLSSDALVFRICNSSVYLWPNSDANTGELTDS
 SACKSVVDLIQFDQEEDTKRKFMKKKDKKLTDMQQIVNIDLMLEISTPLGAVTPIIERENEEHHYINMSL
 PIDAVVSVAPETWGVKRLKLVDAILNQLVDVEKILRYMKGTSIVVPEPLHFLLPGGKNLVTVLYPSGI
 PDDQLQAYRKELHDLFKLPHDRPYLKRIYHFPDELTKDGYIRNPAYLSPPNIEGSMICMVQGTAYH
 HYMQNRVDDNGWCAYRSLQTVCSWFRHQGYTERAIPTHREIQQALVDAGDKPATFVGSQWIGSIEVQL
 VLNQLIGVTSKILFVNQSEMASQGRELANHFQNVGTPVMIGGGVLAHTILGVANNETTQGIKFLIDPH
 YTGAE DLQVILEKGWCGWKGPDFWNKDAYYNLC LPQRPNAL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001014142

ORF Size: 1383 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_001014142.1](#), [NP_001014164.1](#)

RefSeq Size: 1539 bp

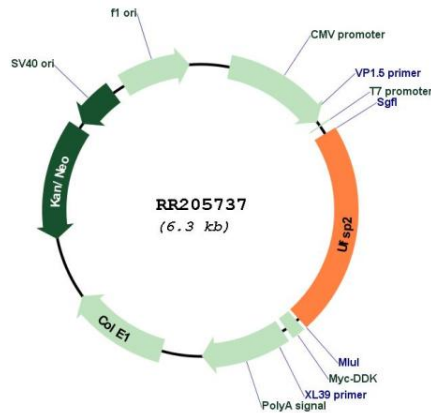
RefSeq ORF: 1386 bp

Locus ID: 361151

UniProt ID: [Q5XIB4](#)

Cytogenetics:	16q11
MW:	52.3 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. Through TRIP4 deufmylation may regulate intracellular nuclear receptors transactivation and thereby regulate cell proliferation and differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR205737