

Product datasheet for **RC203730**

UFSP2 (NM_018359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UFSP2 (NM_018359) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UFSP2
Synonyms:	BHD; C4orf20; SEMDDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203730 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATTTTCAGAAAGTATGGATATACTCTTCAGAAATAAGAGGAGGCCCTTGATTTGGCTTTTCAGCTAG
 CTA CTACTCCTAATGAAATTTTTCTCAAGAAGGCACTGAAACATGTGTTGAGTGACCTGTCAACTAAGCTGTC
 TTCAAACGCCCTTGTTGTTGAGAATTTGCCACAGTTCAGTGATATATGGCCTAGCAGTGACATAAACACC
 ATTCCTGGAGAAGTACTGATGCTTCTGCTTGTAAAGACCATACTGCGCTTTATTCAATTTGAGCCAGAAG
 AAGATATAAAAAGAAAATTCATGAGAAAGAAGGACAAAAAGTTATCAGACATGCATCAAATAGTAAATAT
 AGATCTTATGCTGAAATGTCAACCTCCCTGGCAGCTGTAAAGCCATCATTGAAAGGGAAAGCGGAGGA
 CACCATTATGTTAATATGACTTTACCTGTCGATGCAGTTATATCTGTTGCTCCAGAAGAAACATGGGGAA
 AAGTTCGTAACCTCTGGTTGATGCAATCATAATCAACTAACTGACATGAAAAATGTATTTTGAATA
 TATGAAAGGAACATCTATTGTGGTCCCTGAACCACTGCACTTTTTATTACCAGGGAAAAAATCTTGTA
 ACAATTTTCATATCCTTCAGGAATACCAGATGGCCAGCTGCAGGCTATAGGAAGGAGTTACATGATCTTT
 TCAATCTGCCTCACGACAGACCCTATTTCAAAGGTCTAATGCTTATCACTTTCCAGATGAGCCATACAA
 AGATGGTTACATTAGAAATCCACATACTTACCTTAATCCACCTAACATGGAGACTGGTATGATTTATGTG
 GTCCAGGGCATATATGGCTATCATCATTATATGCAGGATCGCATAGATGACAATGGCTGGGGCTGTGCTT
 ATCGATCTCTGCAGACTATCTGCTCTGGTTCAAACATCAGGGATACACAGAGAGTCCATTCCAACACA
 CAGAGAAATTCAGCAGGCTCTAGTCGATGCCGGGGACAACCAGCAACATTTGTCGGATCGCGGCAATGG
 ATTGGATCTATTGAGGTGCAGCTGGTACTAAACCAATTGATCGGTATAACGTCAAAAATCCTGTTTGCA
 GCCAAGTTTCAGAAATTCCTCTCAAGGACGGGAAGTGGCTAATCATTTCAAAAGTGAAGGAATCCAGT
 TATGATCGGGGGAGGAGTTTTGGCCACACAATACTAGGAGTTGCATGGAATGAGATTACAGGGCAGATA
 AAGTTTCTGATTCTAGATCCACATTATACCGGTGCTGAAGACCTGCAAGTTATTTTGGAAAAGGGCTGGT
 GCGGATGGAAGGGCCAGATTTTTGGAACAAGGATGCATACTATAACTTATGTCTTCTCAGCGACCAAAA
 TATGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203730 protein sequence
 Red=Cloning site Green=Tags(s)

MVISESMDILFRIRGGLDLAFQLATPNEIFLKKALKHVLSDLSTKLSSNALVFRICHSSVYIWPSSDINT
 IPGELTDASACKTILRFIQFEPEEDIKRKFMRRKDKKLSDMHQIVNIDLMLMESTSLAAVTPIIERESGG
 HHYVNMTPVDAVISVAPEETWGWKVRKLLVDAIHNQLTDMKILKYMKGTSIVVPEPLHFLLPKKNLV
 TISYPSGIPDGQLQAYRKELHDLFNLPHDRPYFKRSNAYHPDEPYKDGIRNPHTYLNPPNMETGMIYV
 VQGIYGYHHYMQDRIDDNGWGCAYRSLQITCSWFKHQGYTERSIPHTREIQQALVDAGDKPATFVGSRQW
 IGSIEVQLVLNQLIGITSKILFVSQGEIASQGRELANHFQSEGTPVMIGGGVLAHTILGVAWNEITGQI
 KFLILDPHYTGAEDLQVILEKGCWGWKPDFWPKDAYYNLCLPQRPNMI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6306_f12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_018359

ORF Size: 1407 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

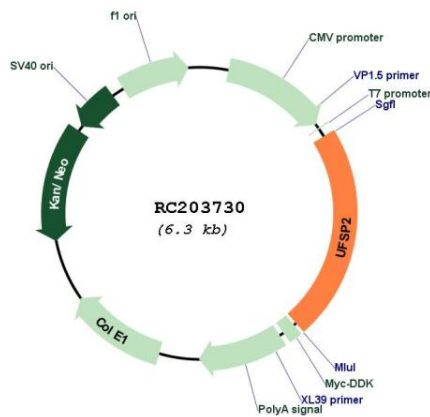
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

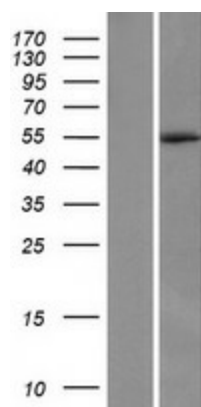
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018359.5</u>
RefSeq Size:	2379 bp
RefSeq ORF:	1410 bp
Locus ID:	55325
UniProt ID:	<u>Q9NUQ7</u>
Cytogenetics:	4q35.1
MW:	53.2 kDa
Gene Summary:	This gene encodes a highly conserved cysteine protease. The protein cleaves two C-terminal residues from ubiquitin-fold modifier 1, a ubiquitin-like post-translational modifier protein. Activation of ubiquitin-fold modifier 1 by the encoded protein exposes a C-terminal glycine residue that allows interaction with other proteins and transfer to its target protein. An allelic variant of this gene has been associated with Beukes hip dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC203730



Western blot validation of overexpression lysate (Cat# [LY413111]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203730 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).