

Product datasheet for **RG203730**

UFSP2 (NM_018359) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	UFSP2
Synonyms:	BHD; C4orf20; SEMDDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203730 representing NM_018359
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGATTTTCAGAAAGTATGGATATACTCTTCAGAATAAGAGGAGGCCTTGATTTGGCTTTTCAGCTAG
 CTACTCCTAATGAAATTTTCTCAAGAAGGCACTGAAACATGTGTTGAGTGACCTGTCAACTAAGCTGTC
 TTCAAACGCCCTTGTTGTTGAGAATTTGCCACAGTTCAGTGTATATATGGCTAGCAGTGACATAAACACC
 ATTCCTGGAGAAGTGAAGTGTCTTCTGCTTGAAGACCATACTGCGCTTTATTCAATTTGAGCCAGAAG
 AAGATATAAAAAGAAAATTCATGAGAAAGGACAAAAGTTATCAGACATGCATCAAAATAGTAATAT
 AGATCTTATGCTGGAAATGTCAACCTCCCTGGCAGCTGTAACGCCCATCATTGAAAGGGAAGCGGAGGA
 CACCATTATGTTAATATGACTTTACCTGTCGATGCAGTTATATCTGTTGCTCCAGAAGAAACATGGGGA
 AAGTTCGTAAGTCTGTTGATGCAATTCATAATCACTAAGTACATGGAAGAAATGATTTTGAATA
 TATGAAAGAACATCTATTGTGGTCCCTGAACCACTGCACTTTTTATTACCAGGGAAGAAATCTTGTA
 ACAATTTATATCCTTCAGGAATACCAGATGGCCAGCTGCAGGCCTATAGGAAGGAGTTACATGATCTTT
 TCAATCTGCCTCAGCAGACACCTATTTCAAAAGGTCTAATGCTTATCACTTTCCAGATGAGCCATACAA
 AGATGGTTACATTAGAAATCCACATACTTACCTTAATCCACCTAACATGGAGACTGGTATGATTTATGTG
 GTCCAGGCGCATATATGGCTATCATCATTATATGCAGGATCGCATAGATGACAATGGCTGGGCTGTGCTT
 ATCGATCTCTGCAGACTATCTGCTCTTGGTTCAAACATCAGGGATACACAGAGAGGTCCATTCCAAACACA
 CAGAGAAATTCAGCAGGCTCTAGTCGATGCCGGGACAAACAGCAACATTTGTCGGATCGCGGCAATGG
 ATTGGATCTATTGAGGTGCAGCTGGTACTAAACCAATTGATCGGTATAACGTCAAAATCCTGTTTGCA
 GCCAAGGTTTCAGAAATGCCTCTCAAGGACGGGAAGTGGCTAATCATTTCCAAAGTGAAGGAAGTCCAGT
 TATGATCGGGGAGGAGTTTGGCCACACAATACTAGGAGTTGCATGGAATGAGATTACAGGGCAGATA
 AAGTTTCTGATTCTAGATCCACATTATACCGGTGCTGAAGACCTGCAAGTTATTTTGGAAAAGGGCTGGT
 GCGGATGGAAGGGCCAGATTTTGAACAAGGATGCATACTATACTTATGTCTTCTCAGCGACCAAA
 TATGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203730 representing NM_018359
 Red=Cloning site Green=Tags(s)

MVISESMDILFRIRGGLDLAFQLATPNEIFLKKALKHVLSDLSTKLSSNALVFRICHSSVYIWPSSDINT
 IPGELTDASACKTILRFIQFEPEEDIKRKFMKKDKKLSMDHQIVNIDLMEMLSTSLAAVTPIIERESGG
 HHYVNMTPVDAVISVAPEETWGKVRKLLVDAIHNQLTDMKCIKYMKGTSIVVPEPLHFLLPKKNLV
 TISYPSGIPDGLQAYRKELHDLFNLPHDRPYFKRSNAYHFPDEPYKDGIRNPHTYLNPPNMGMIYV
 VQGIYGYHHYMQDRIDNNGWCAYRSLQTICSWFKHQYTERSIPTHREIQQALVDAGDKPATFVGSRQW
 IGSIEVQLVLNQLIGITSKILFVSQGEIASQGRELANHFQSEGTVMIGGGVLAHTILGVAWNEITGQI
 KFLILDPHYTGAEDLQVILEKGWCGWKGPDFWNKDAYYNLCLPQRPNM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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: [NM_018359.1](#), [NP_060829.1](#)

RefSeq Size: 1559 bp

RefSeq ORF: 1410 bp

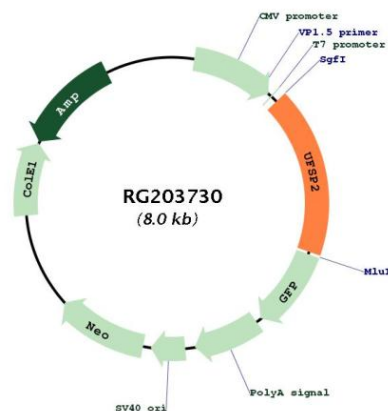
Locus ID: 55325

UniProt ID: [Q9NUQ7](#)

Cytogenetics: 4q35.1

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 RG203730