

Product datasheet for **SC117671**

FUBP1 (NM_003902) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUBP1 (NM_003902) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUBP1
Synonyms:	FBP; FUBP; hDH V
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003902, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGACTATTCAACAGTGCCTCCCCCTCTTCTGGCTCAGCTGGTGGCGGTGGTGGCGCGGTGGTG
GTGGAGGAGTTAACGCAGCTTTCAAAGATGCACTGCAGAGAGCCCGCAGATTGCAGCAAAAATTGGAGG
TGATGCAGGGACATCACTGAATTCAAATGACTATGGTTATGGGGACAAAAAGACCTTTAGAAGATGGA
GATCAACCAGATGCTAAGAAAGTTGCTCCTCAAATGACTCTTTTGAACACAGTTACCACCGATGCATC
AGCAGCAAAGCAGATCTGTAATGACAGAAGAATACAAAGTTCCAGATGGAATGGTTGGATTACATAATTGG
CAGAGGAGGTGAACAGATCTCACGCATACAACAGGAATCTGGATGCAAAAACAGATAGCTCCTGACAGT
GGTGGCCTTCCAGAAAGGTCCTGTATGTTAACTGGAACACCTGAATCTGTCCAGTCAGCAAAACGGTTAC
TGGACCAGATTGTTGAAAAAGGAAGACCAGCTCCTGGCTCCATCATGGCGATGGACCGGAAATGCAGT
TCAAGAAATCATGATTCCAGCTAGCAAGGCAGGATTAGTCATTGAAAAGGGGAGAAACTATTAACAG
CTTCAGGAACGGGCTGGAGTTAAAATGGTTATGATTCAAGACGGGCCGAGAACACTGGTCTGACAAAC
CTCTTAGGATTACAGGAGACCCATATAAAGTTCAACAAGCCAAGGAAATGGTGTAGAGTTAATTCGTGA
TCAAGGCGGTTTCAGAGAAGTTCGGAATGAGTATGGGTCAAGAATAGGAGGAAATGAAGGATAGATGTC
CCCATTCCAAGATTTGCTGTTGGCATTGTAATAGGAAGAAATGGAGAGATGATCAAAAAATACAAAATG
ATGCTGGTGTTCGCATTCACTTTAAGCCAGATGATGGGACAACACCCGAAAGGATAGCACAAATAACAGG
ACCTCCAGACCGATGTAACATGCTGCAGAAATATTACAGACCTTCTTCGAAGTGTTCAGGCTGGTAAT
CCTGGTGGACCTGGACCTGGTGGTCGAGGAAGAGGTAGAGGTCAAGGCAACTGGAACATGGGACCACCTG
GTGGACTACAGGAATTTAATTTATTGTCCAACCTGGGAAAACGGATTAATAATAGGAAAAGGAGGTGA
AACCAAAAAAGCATAAGCCAGCAGTCTGGTCAAGAATAGAACTTCAGAGAAATCCTCCACCAATGCA
GATCCTAATATGAAGTTATTTACAATTCGTGGCACTCCACAACAGATAGACTATGCTCGGCAACTCATAG
AAGAAAAGATTGGTGGCCAGTAATCCTTTAGGGCCACCTGTACCCCATGGGCCCATGGTGTCCACAGG
CCCCATGGACCTCCTGGCCTCCAGGGCTGGAACCTCAATGGGACCATACAACCTGCACCTTATAAT
CCTGGACCACCAGGCCGGCTCCTCATGGTCTCCAGCCCATATGCTCCCCAGGGATGGGAAATGCAT
ATCCACACTGGCAGCAGCAGGCTCCTCCTGATCCAGCTAAGGCAGGAACGGATCCAAATTCAGCAGCTTG
GGCTGCTTATTACGCTCACTATTATCAACAGCAAGCACAGCCACCACCAGCAGCCCTGCAGGTGCACCA
ACTACAACCTAACTAATGGACAAGGAGATCAGCAGAATCCAGCCCCAGCTGGACAGGTTGATTATACCA
AGGCTTGGGAAGAGTACTACAAGAAAATGGGTGAGGCAGTTCCTGCTCCGACTGGGGCTCCTCCAGGTGG
TCAGCCAGATTATAGTGCAGCCTGGGCTGAGTATTATAGACAACAAGCAGCCTATTATGCCAGACAAGT
CCCCAGGAATGCCACAGCATCCTCCAGCACCTCAGGGCCAATAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003902 unedited

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GTAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCGAGAATGACCCATAGC
GGAAAATTCTACCGCACTACCTCCCTGAGGCAGCGACCGCTGTTAGCTGAGAGGAAGTCT
CTGAACAGGCGGCAGCGGCTCTTATAGTGCAACCATGGCAGACTATTCAACAGTGCCTCC
CCCCTCTTCTGGCTCAGCTGGTGGCGGTGGTGGCGCGGTGGTGGTGGAGGAGTTAACGA
CGCTTTCAAAGATGCACTGCAGAGAGCCCGCAGATTGCAGCAAAAATTGGAGGTGATGC
AGGGACATCACTGAATTCAAATGACTATGGTTATGGGGACAAAAAGACCTTTAGAAGA
TGGAGATCAACCAGATGCTAAGAAAGTTGCTCCTCAAATGACTCTTTTGAACACAGTT
ACCACCGATGCATCAGCAGCAAAGATCTGTAATGACAGAAGAATACAAAGTTCAGATGG
AATGGTTGGATTACATAATTGGCAGAGGAGGTGAACAGATCTCACGCATACAACAGGAATC
TGGATGCAAAAACAGATAGCTCCTGACAGTGGTGGCCTTCCAGAAAGGTCTGTATGTT
AACTGGAACACCTGAATCTGTCCAGTCAGCAAAACGGTTACTGGACCAGATTGTTGAAAA
GGAAGACCAGCTCCTGGCTTCCATCATGGCGATGGACCGGAAATGCAGTTCAAGAAATC
ATGATTCCAGCTAGCAAGGCAGGATTAGTCATTGAAAAGGGGAGAAACTATTAACAG
CTTCAGGAAACGGGCTGGANTAAAAATGGTTATGATTCAAGACNCGGCCAGACCACTGG
TGCTGACNAACCTCTTAGATTCCAGGAGACCTTTATAAAGTCACAGCANNGGAATGGNGG
TANAGTTAATCTGATCAAAGCGTTTCAAAAAATCCGAAAAGAATAGGTTAAAAATAGAG
GAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003902 unedited TTCTCTTCATTTATTGTAAGCACAAACAGGCATTTTAAAGTGAAGTATACATTGAAAAG TACATTTATATCACAAAGCATCAACCACATAATTGCAAATACATTTGCTGGAATGTGTAC ATCTACACTAAATACTAAAAACAACCAATTTTCATTTCTACACAGAAATATTAACCTCC TATCAGTAGTGATAGATATTTTGTACATTTTCAAAAAAAAAAAAAAAAAAAGGAAACACT ATTTTAAACAAAAACAAAATTAAGATCTTCATCAAGTCGTCTGCATCCATATATTTAAC AAAGGTTTTTTTCCCCACACAATGAAGCAAATACTGTATTGTCCACTTCTTATTATTGG CCCTGAGGTGCTGGAGGATGCTGTGGCATTCCCTGGGGACTTGTCTGGGCATAATAGGCT GCTTGTGTCTATAATACTCAGCCCAGGCTGCACTATAATCTGGCTGACCACCTGGAGGA GCCCCAGTCGGAGCAGGAACTGCCTGACCCATTTTCTTGTAGTACTCTTCCCAAGCCTTG GTATAATCAACCTGTCCAGCTGGGGCTGGATTCTGCTGATCTCCTTGCCATTAGTTTGA GTTGTAGTTGGTGCACCTGCAGGGGCTGCTGGTGGTGGCTGTGCTTGTGTTGATAATAG TGAGCGTAATAAGCAGCCCAAGCTGCTGAATTTGGATCCGTTCTGCCTTANCTGGATCN GGAAGAGCCTGCTGCTGCCAGGGGATATGCATTTCCCATCCCTGGGGAGCATATGGGG GCTGGAGGACCATGAAGAGCCGGCCTGGTGGTCCANGATTATAAAGTGCAGTTTGGAG GGTCCATGGAAGTCCCAGGCCTGGGAGCCAGAAAGCCAGGGGGCCTGGGACACATGGG GGCCTGGGGGTCAGGGGGCCTAGGGGTTACTGGCCACAATCTTCTTCTTGAGTTGCGA CCTAGTCTTACGGTGTGGAGTGCACAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_003902
Insert Size:	2880 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_003902.3</u> , <u>NP_003893.2</u>
RefSeq Size:	2884 bp
RefSeq ORF:	1935 bp
Locus ID:	8880
UniProt ID:	<u>Q96AE4</u>
Cytogenetics:	1p31.1
Domains:	KH

Protein Families: Stem cell - Pluripotency, Transcription Factors

Gene Summary: The protein encoded by this gene is a single stranded DNA-binding protein that binds to multiple DNA elements, including the far upstream element (FUSE) located upstream of c-myc. Binding to FUSE occurs on the non-coding strand, and is important to the regulation of c-myc in undifferentiated cells. This protein contains three domains, an amphipathic helix N-terminal domain, a DNA-binding central domain, and a C-terminal transactivation domain that contains three tyrosine-rich motifs. The N-terminal domain is thought to repress the activity of the C-terminal domain. This protein is also thought to bind RNA, and contains 3'-5' helicase activity with in vitro activity on both DNA-DNA and RNA-RNA duplexes. Aberrant expression of this gene has been found in malignant tissues, and this gene is important to neural system and lung development. Binding of this protein to viral RNA is thought to play a role in several viral diseases, including hepatitis C and hand, foot and mouth disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.