

Product datasheet for **SC113537**

FBXW7 (NM_018315) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXW7 (NM_018315) Human Untagged Clone
Tag:	Tag Free
Symbol:	FBXW7
Synonyms:	AGO; CDC4; FBW6; FBW7; FBX30; FBXO30; FBXW6; hAgo; hCdc4; SEL-10; SEL10
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_018315, the custom clone sequence may differ by one or more nucleotides

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ATGTGTGTCCCGAGAAGCGGTTTGATACTGAGCTGCATTTGCCTTTACTGTGGAGTTTTGTTGCCGGTTC
TGCTCCCTAATCTTCCTTTTCTGACGTGCCTGAGCATGTCCACATTAGAATCTGTGACATACCTACCTGA
AAAAGGTTTATATTGTCAGAGACTGCCAAGCAGCCGGACACACGGGGGCACAGAATCACTGAAGGGGAAA
AATACAGAAAATATGGGTTTCTACGGCACATTAATAATGATTTTTTACAAAATGAAAAGAAAAGTTGGACC
ATGGTTCTGAGGTCGGCTCTTTTTCTTTGGGAAAAGAAACCATGCAAAGTCTCAGAATATACAAGTACCAC
TGGGCTTGTACCATGTTCCAGCAACCAACAACCTTTTGGGGACCTCAGAGCAGCCAATGGCCAAGGGCAA
CAACGACGCCGAATTACATCTGTCCAGCCACCTACAGGCCTCCAGGAATGGCTAAAAATGTTTCAGAGCT
GGAGTGGACCAGAGAAAATTGCTTGTCTTAGATGAACTCATTGATAGTTGTGAACCAACACAAGTAAAAACA
TATGATGCAAGTGATAGAACCCAGTTTCAACGAGACTTCATTTTCATTGCTCCCTAAAGAGTTGGCACTC
TATGTGCTTTTCATTCTGGAACCCAAAGACCTGCTACAAGCAGCTCAGACATGTCGCTACTGGAGAATTT
TGGCTGAAGACAACCTTCTCTGGAGAGAGAAAATGCAAAGAAGAGGGGATTGATGAACCATTGCACATCAA
GAGAAGAAAAGTAATAAAAACAGGTTTTCATACACAGTCCATGGAAAAGTGCATACATCAGACAGCACAGA
ATTGATACTAACTGGAGGCGAGGAGAACTCAAATCTCCTAAGGTGCTGAAAGGACATGATGATCATGTGA
TCACATGCTTACAGTTTTGTGGTAACCGAATAGTTAGTGGTTCTGATGACAACTTTAAAAGTTTTGGTC
AGCAGTCACAGGCAAAATGTCTGAGAACATTAGTGGGACATACAGGTGGAGTATGGTCATCACAATGAGA
GACAACATCATCATTAGTGGATCTACAGATCGGACACTCAAAGTGGAAATGCAGAGACTGGAGAATGTA
TACACACCTTATATGGGCATACTCCACTGTGCGTTGTATGCATCTTCATGAAAAAGAGTTGTTAGCGG
TTCTCGAGATGCCACTCTTAGGGTTTGGGATATTGAGACAGGCCAGTGTTCATGTTTTGATGGGTCAT
GTTGACGACGTCGGCTGTGTTCAATATGATGGCAGGAGGTTGTTAGTGGAGCATATGATTTTTATGGTAA
AGGTGTGGGATCCAGAGACTGAAACCTGTCTACACACGTTGCAGGGGCATACTAATAGAGTCTATTCATT
ACAGTTTTGATGGTATCCATGTGGTGAGTGGATCTCTTGATACATCAATCCGTGTTTGGGATGTGGAGACA
GGGAATTGCATTACACGTTAACAGGGCACCAGTCGTTAACAAAGTGAATGGAACCAAAGACAATATTC
TTGTCTCTGGGAATGCAGATTCTACAGTTAAAATCTGGGATATCAAAACAGGACAGTGTTCACAAACATT
GCAAGGTCCCAACAAGCATCAGAGTGTGTGACCTGTTTACAGTTCAACAAGAACTTTGTAATTACCAGC
TCAGATGATGGAAGTGTAAAATATGGGACTTGAAAACGGGTGAATTTATTCGAAACCTAGTCACATTGG
AGAGTGGGGGAGTGGGGAGTTGTGTGGCGGATCAGAGCCTCAAACACAAGCTGGTGTGTGCAGTTGG
GAGTCGGAATGGGACTGAAGAAACCAAGCTGCTGGTGCTGGACTTTGATGTGGACATGAAGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018315 unedited

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TATACGACTCACTATAGGCGGCCCGGAATTCGCACGAGGCATGTATGTATGTGTGTCCTCCG
AGAAGCGGTTTGATACTGAGCTGCATTTGCCTTTACTGTGGAGTTTTGTTGCCGGTTCTG
CTCCCTAATCTTCCTTTTCTGACGTGCCTGAGCATGTCCACATTAGAATCTGTGACATAC
CTANCCTGAAAAGGTTTATATTGTCAGAGACTGCCAAGCAGCCGGACACACGGGGGCAC
AGAATCACTGAAGGGGAAAATACAGAAAATATGGGTTTCTACGGCACATTAATAATGAT
TTTTTACAAAATGAAAAGAAAAGTTGGACCATGGTTCTGAGGTCGGCTCTTTTTCTTTGGG
AAAGAAACCATGCAAAGTCTCAGAATATACAAGTACCACTGGGCTTGTACCATGTTCCAGC
AACACCAACAACCTTTGGGGACCTCAGAGCAGCCAATGGCCAAGGGCAACAACGACGCCG
AATTACATCTGTCCAGCCACCTACAGGCCTCCAGGAATGGCTAAAAATGTTTCAGAGCTG
GAGTGGACCAGAGAAAATTGCTTGTCTTAGATGAACTCATTGATAGTTGTGAACCAACACA
AGTAAAACATATGATGCAAGTGATAGAACCCAGTTTCAACGAGACTTCATTTTCATTGCT
CCCTAAAGAGTTGGCACTCTATGTGCTTTCATTCTGGAACCCAAAGACCTGCTACAAGC
AGCTCAGACATGTCGCTACTGGAGAAAATTTGGCTGAAGACAACCTTCTCTGGAGAGAGAA
ATGCANAGAAGAGGGGATTGATGAACCATTGCACATCAAGAGAAGAAAAGTATAAAACC
AGGTTTTCATACACAGTCCATGGNAAAGTGCATACATCAGACAGCACAGAAATTGATACTAA
CTGGNAGCGAGGAGAACTCAAATCTCCCTAGGTGCTGAAGGNACATGATGATCATGTGAT
CACATGCTC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018315 unedited GTATGGCAACTCTCCAGGNCCAGGNANAGCACTGGGGAGGGGTACAGGGNAGCCACCCG GGATCTGTTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTT TTTTTTCTTTTTGCAGGGGGAAGGGCAGGGAGTATATCGTCTACACAACCTGGACAAATT CATCTTTTCTGCTCTTCACTTTCATGTCCACATCAAAGTCCAGCACCAGCAGCTTGGTTTC TTCAGTCCCATTCCGACTCCCAACTGCACACACCAGCTTTGTGTTTGAGGCTCTGATCCG CCACACAACCTCCCCACTCCCCCACTCTCCAATGTGACTAGGTTTGAATAAAATTCACC CGTTTTCAAGTCCCATAGTTTTACAGTTCATCATCTGAGCTGGTAATTACAAAGTTCTT GTTGAACGTAAACAGGTCACAGCACTCTGATGCTTGTGGGACCTTGCAATGTTTGTA AACTGTCCTGTTTTGATATCCCAGATTTAACTGTAGAATCTGCATTCCAGAGACAAG AATATTGCTTTGAGTTCATTCCACTTGTAAACGACTGGTGCCCTGTTAACGTGTGAAT GCAATTCCTGTCTCCACATCCCAAACACGGATTGATGTATCAAGAGATCCACTCACCAC ATGGATACCATCAAAGTGAATGAATAGACTCTATTAGTATGCCCTTGACGTGTGTAG ACAGTTTTTCAGTCTCTGGATCCACACCTTTACCATAAATCATATGCTNCACTAAACCC CTNCTGNCATNATATNGAACACAGNNGNACTGCTGCACATGACCCATCAAACATGTAAA CCCTGGCCCTGTCTTAATCCCCAACCCCTAGATGGGCTCTN
Restriction Sites:	NotI-NotI
ACCN:	NM_018315
Insert Size:	2090 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_018315.3</u> , <u>NP_060785.2</u>
RefSeq Size:	3603 bp
RefSeq ORF:	1884 bp
Locus ID:	55294
UniProt ID:	<u>Q969H0</u>
Cytogenetics:	4q31.3
Domains:	WD40, F-box
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Ubiquitin mediated proteolysis

Gene Summary:

This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene was previously referred to as FBX30, and belongs to the Fbws class; in addition to an F-box, this protein contains 7 tandem WD40 repeats. This protein binds directly to cyclin E and probably targets cyclin E for ubiquitin-mediated degradation. Mutations in this gene are detected in ovarian and breast cancer cell lines, implicating the gene's potential role in the pathogenesis of human cancers. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (2) is shorter and has a distinct N-terminus compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.