

Product datasheet for **SC110514**

FBXW7 (NM_033632) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXW7 (NM_033632) 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: >OriGene ORF within SC110514 sequence for NM_033632 edited (data generated by NextGen Sequencing)

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ATGAATCAGGAACTGCTCTCTGTGGCAGCAAAAGACGACGAACTGGAGGCTCTCTGAGA
GGTAACCCCTTCCCTCAAGCCAGGTAGATGAAGAACAGATGAATCGTGTGGTAGAGGAGGAA
CAGCAACAGCAACTCAGACAACAAGAGGAGGAGCACACTGCAAGGAATGGTGAAGTTGTT
GGAGTAGAACCTAGACCTGGAGGCCAAAATGATTCCCAGCAAGGACAGTTGGAAGAAAAC
AATAATAGATTTATTTCCGGTAGATGAGGACTCCTCAGGAAACCAAGAAGAACAAGAGGAA
GATGAAGAACATGCTGGTGAACAAGATGAGGAGGATGAGGAGGAGGAGGATGGACCAG
GAGAGTGACGATTTTGATCAGTCTGATGATAGTAGCAGAGAAGATGAACATACACATACT
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GATCATGTGATCAGTACAGTTTGTGGTAAACCGAATAGTTAGTGGTTCTGATGAC
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ACTAATAGAGTCTATTTCATTACAGTTTGTGGTATCCATGTGGTGGTGGATCTCTTGAT
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AACAAAGCATCAGAGTGTGTGACCTGTTTACAGTTCAACAAGAATTTGTAATTACCAGC
TCAGATGATGGAAGTGTAAAATATGGGACTTGAACCGGGTGAATTTATTCGAAACCTA
GTCACATTGGAGAGTGGGGGAGTGGGGGAGTTGTGTGGCGGATCAGAGCCTCAAACACA
AAGCTGGTGTGTGCAGTTGGGAGTCGGAATGGGACTGAAGAAACCAAGCTGCTGGTGTG
GACTTTGATGTGGACATGAAGTGA
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Clone variation with respect to NM_033632.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_033632 unedited
TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGGAACTTTACAAAAACAA
ATCCGGAGTCTCCCAAACCTGACTGTCCCGGGAGAAGTGGCCCTGGACGGGCAGAAGCCG
CAGCCTGAAAAGACCCAGGAAGAGGAAAAGAGGAGTACCGCGCCGGAGCCTTCCGCAGCT
GCCGCTTCAGTCCGAAGGAGGAAGGGAACCAACCCACTTCTCGGCGCCGCGGCTCTTTT
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TGTGAAAACCTTTGCATCTTCTGATAGCTAGCCAAGGTCCAAGAAGTAGCAAGCTGGCT
TTTGAAAATGAATCAGGAAGTCTCTCTGTGGCAGCAAAAAGACGACGAAGTGGAGGCTC
TCTGAGAGGTAACCCCTTCTCAAGCCAGGTAGATGAAGAACAGATGAATCGTGTGGTAGA
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AGTTGTTGGAGTAGAACCTAGACCTGGAGGCCAAAATGATTTCCAGCAAGGACAGTTGGA
AGAAAACAATAATAGATTTATTTTCGGTAGATGAGGACTCCTCAGGANACCAAGAAGAACA
AGAGGAAGATGAAGAACATGCTGGTGAACAGAATGAGANGATGANGANGNNAGAGANATG
GCCANGAGAGTGACNGATTTGATCAGTCTGATGATAGTAGCAGAGAAGATGAACATACAC
ATACTAACAGTGTACGAACTCCAGTAGTATTGTGGACCTGCCCGTCACAACNTNCTN
NCCATTCTTACAAAAACAATAAGAAAGAAAGTGGACCATGGTNNCTGAGTCCGCTCTTT
TTCTTGAANGAANCATGCAAGTCTAGATATACAAGACTGGGCTGTACCATGTACAC
ACACACTTTGA

3' Read Nucleotide Sequence: >OriGene 3' read for NM_033632 unedited
NGTCATTGGAATGGCACTTCCATGCCAGGTAAAGCACTGGGGNAGGGGTACAGGGATGC
CACCCGGGATCTGTTCAAGAAACAGCTATGACCGCGGCCCAATCTANAGTCGAGTTTTT
TTTTTTTTTTTTTCTTTTTGCAGGGGAAGGGCAGGGAGTATATCGTCTACACAATTGGA
CAAATTCATCTTTTCTGCTCTTCACTTTCATGTCCACATCAAAGTCCAGCACCAGCAGCTT
GGTTTTCTCAGTCCCATTCCGACTCCCAACTGCACACACCAGCTTTGTGTTTGAGGCTCT
GATCCGCCACACAACCTCCCACTCCCACTCTCCAATGTGACTAGGTTTGAATAAA
TTCACCCGTTTTCAAGTCCCATAGTTTTACAGTTCCATCATCTGAGCTGGTAATTACAAA
GTTCTTGTGAACTGTAACAGGTCACAGCACTCTGATGCTTGTGGGACCTTGCAATGT
TTGTAACACTGTCCTGTTTTGATATCCAGATTTAACTGTAGAATCTGCATTTCCAGA
GACAAGAATATTGTCTTTGAGTTCATTCCACTTGTTAACGACTGGTCCCTGTTAACGT
GTGAATGCAATTCCTGTCTCCACATCCCAACACGGATTGATGTATCAAGAGATCCACT
CACCCTTGGAATACCCTCAAACGTAAATGAATAGACTCTATTAATATGCCCTGCAACG
TGTGTAACAGGTTTCAATTCTCGGGATCCCCACCTTTACCATAAAATCATATGCTCCA
CTTAAACCCCTCTGCCCTTTTATTGAACCCAGCGGAATGGTGAACATGACCCATCAA
AAATGTAACACTGGCCCTGGTCCAATATTCCAAT

Restriction Sites: NotI-NotI
ACCN: NM_033632
Insert Size: 3000 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](#)

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_033632.2](#), [NP_361014.1](#)

RefSeq Size: 3896 bp

RefSeq ORF: 2124 bp

Locus ID: 55294

UniProt ID: [Q969H0](#)

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 (1) encodes the longest isoform (1). Variants 1 and 5 encode the same isoform (1).