

## Product datasheet for **RG221116**

### **FBXW7 (NM\_001013415) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FBXW7 (NM_001013415) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FBXW7
Synonyms:	AGO; CDC4; FBW6; FBW7; FBX30; FBXO30; FBXW6; hAgo; hCdc4; SEL-10; SEL10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221116 representing NM\_001013415  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAAACCGGAAAACCTACTCTAAACCATGGCTTGGTTCTGTTGATCTTAAAAGTCAAAGAGC  
 CTCTACCACATCAAAGTGTGATGAAGATATTTAGCATTAGCATCATTGCCAAGGCCTCCCTTTTGTCTG  
 AAGACGGATGAAAAGAAAGTTGGACCATGGTTCTGAGGTCGCTCTTTTTCTTTGGGAAAGAAACCATGC  
 AAAGTCTCAGAATATACAAGTACCACTGGGCTTGTACCATGTTCCAGCAACACCAACAACTTTGGGGACC  
 TCAGAGCAGCCAATGGCCAAGGGCAACAACGACGCCGAATTACATCTGTCCAGCCACCTACAGGCCTCCA  
 GGAATGGCTAAAATGTTTCAGAGCTGGAGTGGACCAGAGAAATTGCTTGCTTTAGATGAACTCATTGAT  
 AGTTGTGAACCAACAAGTAAAACATATGATGCAAGTATAGAACCCAGTTTCAACGAGACTTCATTT  
 CATTGCTCCCTAAAGAGTTGGCACTCTATGTGCTTTCATTCTGGAACCCAAAGACCTGCTACAAGCAGC  
 TCAGACATGTGCTACTGGAGAATTTGGCTGAAGACAACCTTCTGAGAGAGAAATGCAAAGAAGAG  
 GGGATTGATGAACCATTCACATCAAGAGAAGAAAAGTAAATAAAACCAGGTTTCATACACAGTCCATGGA  
 AAAGTGCATACATCAGACAGCACAGAATTGATACTAACTGGAGGCGAGGAGAAGTCAAATCTCTAAGGT  
 GCTGAAAGGACATGATGATCATGTGATCACATGCTTACAGTTTGTGGTAACCGAATAGTTAGTGGTTCT  
 GATGACAACTTTAAAAGTTTGGTCAGCAGTCACAGGCAAAATGTCTGAGAACATTAGTGGGACATACAG  
 GTGGAGTATGGTCATCACAATGAGAGACAACATCATCATTAGTGGATCTACAGATCGGACACTCAAAGT  
 GTGGAATGCAGAGACTGGAGAATGTATACACACCTTATATGGGCATACTCCACTGTGCGTTGTATGCAT  
 CTTTCATGAAAAAGAGTTGTTAGCGTTCTCGAGATGCCACTCTTAGGGTTTGGGATATTGAGACAGGCC  
 AGTGTTTACATGTTTGTGATGGTCAATGTTGCAGCAGTCCGCTGTGTTCAATATGATGGCAGGAGGTTGT  
 TAGTGGAGCATATGATTTTATGGTAAAGGTGTGGGATCCAGAGACTGAAACCTGTCTACACACGTTGCGAG  
 GGGCATACTAATAGAGTCTATTCATTACAGTTTGTGATGTTCCATGTGGTGTGATGATCTCTTGATACAT  
 CAATCCGTGTTTGGGATGTGGAGACAGGAATTGCATTACACGTTAACAGGGCACCAGTCTTAACAAG  
 TGGAAATGGAACCTCAAAGACAATATTCTGTCTCTGGGAATGCAGATTCTACAGTAAAATCTGGGATATC  
 AAAACAGGACAGTGTTCACAACATTGCAAGGTCCCAACAAGCATCAGAGTGTGTGACCTGTTTACAGT  
 TCAACAAGAACTTTGTAATTACCAGCTCAGATGATGGAAGTGTAAAATATGGGACTTGAACCGGGTGA  
 ATTTATTCGAAACCTAGTCACATTGGAGAGTGGGGGAGTGGGGAGTTGTGTGGCGGATCAGAGCCTCA  
 AACACAAAGCTGGTGTGTGCAGTTGGGAGTCGGAATGGGACTGAAGAAACCAAGCTGCTGGTGTGGACT  
 TTGATGTGGACATGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG221116 representing NM\_001013415  
 Red=Cloning site Green=Tags(s)

MSKPGKPTLNHGLVPVDLKSACEPLPHQTVMKIFSIISIIAQGLPFCRRRMKRKLDHGSEVRSFSLGKKPC  
 KVSEYTTTGLVPCSATPTTFGDLRAANGQGQRRRITSVQPPTGLQEWLKMFQSWSGPEKLLALDELID  
 SCEPTQVKHMMQVIEPQFQRDFISLLPKELALYVLSFLEPKDLLQAAQTCRYWRILAEDNLLWRECKEE  
 GIDEPLHIKRRKVIKPGFIHSPWKSAYIRQHRIDTNWRRGELKSPKVLKGHDDHVITCLQFCGNRIVSGS  
 DDNTLKVWSAVTGKCLRTL VGHTGGVWSSQMRDNIISGSTDRTLKVWNAETGECIHTLYGHTSTVRCMH  
 LHEKRVVSGSRDATLRVWDIETGQCLHVLMGHVAAVRCVQYDGRVVVSGAYDFMVKVDPEPETCLHTLQ  
 GHTNRVYSLQFDGIHVVSGSLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNILVSGNADSTVKIWDI  
 KTGQCLQTLQGPKNHQSAVTCLQFNKFNVITSSDDGTVKLVLDLKTGEFIRNLTLESGGSGGVVWRIRAS  
 NTKLVCAVGSRNGTEETKLLVLDLDFDVMK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001013415.2</a>
<b>RefSeq Size:</b>	3570 bp
<b>RefSeq ORF:</b>	1770 bp
<b>Locus ID:</b>	55294
<b>UniProt ID:</b>	<a href="#">Q969H0</a>
<b>Cytogenetics:</b>	4q31.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	<p>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]</p>