

Product datasheet for **MR230306**

Fbxw11 (NM_001271349) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxw11 (NM_001271349) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxw11
Synonyms:	2310065A07Rik; AA536858; BTRC2; BTRCP2; Fbxw1b; HOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230306 representing NM_001271349
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGACTCGGTGATTGAAGACAAGACCATCGAGCTCATGATCAGTAATGGAACGTCATCTGTGA
 TTGTCTCCAGAAAAGAGGCCGTCAGAGGGAACTACCAGAAAAGAAAAGACTTGTGCATTAAGTACTTTGA
 CCAGTGGTCTGAATCAGATCAGGTGGAATTTGTGGAGCATCTTATCTCACGGATGTGTCATTATCAGCAT
 GGACATATTAACCTTACCTGAAGCCCAGTGTGCAGCGGGACTTTACTGCTTTACCAGAGCAAGGCT
 TAGATCACATAGCAGAAAACATTCTCTCTACCTGGATGCCAGGTCTCTGTGTGCAGCAGAGCTGGTGTG
 TAAAGAATGGCAGCGAGTGATCTCAGAAGGGATGCTTTGGAAGAAGCTGATTGAGAGGATGGTGCACACC
 GACCTCTCTGGAAGGGACTCTCAGAAAAGAAGAGGCTGGGATCAGTACCTGTTTAAAAACAGACCTACAG
 ATGGCCCTCCCAACTCATTTTATAGATCATTATACCCAAAGATTATCCAGGACATAGAGACCATAGAATC
 CAACTGGCGGTGTGGACGACACAACCTGCAGAGGATCCAGTGGCCTCTGAAAATAGTAAGGGTGTCTAC
 TGTTTGAATATGATGATGACAAAATTATCAGTGGCCTCCGGGACAACCTATCAAGATCTGGGATAAAA
 GCAGCTTGAATGTTTGAAGTGCTAACGGGCCACACAGGCTCTGTCTCTGCTCCAGTATGATGAGCG
 AGTCATTGTAACCTGGTCTTTCAGACTCCACGGTGAAGTCTGGGATGTGAACACTGGTGAAGTGTCAAC
 ACACCTATCCACCACAATGAAGCCGTAAGTGCACCTACGCTTCAGCAATGGACTGATGGTACTTGTTC
 AGGACCGTTCCATTGCCGTGTGGGACATGGCTTCTGCCACCGATACACTTTACGCCGTGTTCTGGTTGG
 CCACCGTGTCTGTCAATGTAGTAGACTTTGATGATAAATACATCGTGTCTGCTCAGGAGACAGGACC
 ATTAAGAGTGTGGAGCAGCAGCACATGTGAGTTTGTCCGCACTGGAATGGCACAAGCGAGGCATCGCT
 GTCTGCAGTACCGCGACCGCTTGTGTTAGTGGATCATCAGATAATACCATCCGTTATGGGATTTGA
 ATGTGGTGCCTGTTTAAAGAGTCTAGAGGGGCACGAAGAATTGGTCCGGTGCATCCGTTTTGATAACAAG
 AGGATTGTCAGTGGCGCCTATGATGGGAAGATTAAAGTCTGGGACTTGCAGGCTGCTCTTGACCCTCGGG
 CCCCAGCAAGCACATTGTGTCTGCGCACCTTGGTGAACACTCTGGACGTGTGTTTCCGGTGCAGTTTGA
 TGAGTTTCAGATCATCAGCAGCTCCATGATGACACTATTTTGAATTTGGGATTTCTAAATGTGCCTCCC
 AGTGCCCAAGATGAGACCCGCTCTCCCTCCAGAACCTACACCTATATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAA**ACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT**
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230306 representing NM_001271349
 Red=Cloning site Green=Tags(s)

MEPDSVIEDKTIELMISNGTSSVIVSRKRPSEGNVQKEKDLCKYFDQWSESDQVEFVEHLISRMCHYQH
 GHINSYLKPMQLQRDFITALPEQGLDHIAENILSYLDARSLCAAELVCKEWQRVISEGMLWKLIERMVRT
 DPLWKGLSERRGWDQYLFKNRPTDGPPNSFYRSLYPKIIQDIETIESNWRGRHNLQRIQCRSENSKGVY
 CLQYDDDKIISGLRDNSIKIWDKSSLECLKVLTGHTGSVLCLQYDERVIVTGSSDSTVRVWVNTGEVLN
 TLIHNEAVLHLRFNGLMVTCSKDRSIAVWDMASATDITLRRVLVGHRAAVNVVDFDDKYIVSASGDR
 IKVWSTSTCEFVRTLNHGKRGIAQLQYRDRLVVSAGSDNTIRLWDIECGACLRVLEGEELVRCIRFDNK
 RIVSGAYDGKIKVWDLQAALDPRAPASTLCLRTLVEHSGRVFRLQFDEFQIISSSHDDTILIWDFLNVPP
 SAQNETRSPSRTYTISR

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001271349

ORF Size: 1524 bp

OTI Disclaimer: 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.

RefSeq: [NM_001271349.1](#), [NP_001258278.1](#)

RefSeq Size: 4174 bp

RefSeq ORF: 1527 bp

Locus ID: 103583

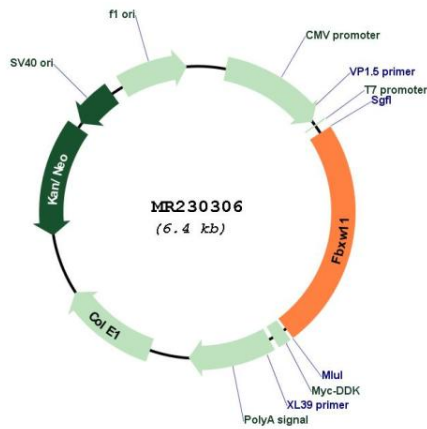
UniProt ID: [Q5SRY7](#)

Cytogenetics: 11 A4

MW: 58.8 kDa

Gene Summary: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Probably recognizes and binds to phosphorylated target proteins. SCF(FBXW11) mediates the ubiquitination of phosphorylated CTNNB1 and participates in Wnt signaling. SCF(FBXW11) mediates the ubiquitination of phosphorylated NFKBIA, which degradation frees the associated NFKB1 to translocate into the nucleus and to activate transcription. SCF(FBXW11) mediates the ubiquitination of IFNAR1. SCF(FBXW11) mediates the ubiquitination of CEP68; this is required for centriole separation during mitosis (By similarity). Involved in the oxidative stress-induced a ubiquitin-mediated decrease in RCAN1. Mediates the degradation of CDC25A induced by ionizing radiation in cells progressing through S phase and thus may function in the intra-S-phase checkpoint. Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and phosphorylated PER2. SCF(FBXW11) mediates the ubiquitination of CYTH1, and probably CYTH2 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230306