

Product datasheet for **MR230397**

Fbxw11 (NM_001271348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxw11 (NM_001271348) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxw11
Synonyms:	2310065A07Rik; AA536858; BTRC2; BTRCP2; Fbxw1b; HOS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230397 representing NM_001271348
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCGACTCGGTGATTGAAGACAAGACCATCGAGCTCATGAACACTTCAGTTATGGAAGATCAAA
 ATGAAGATGAGTCCCAAAGAAAAGTGCTTTTGGCAGATCAGTAATGGAACGTCATCTGTGATTGTCTC
 CAGAAAAGAGGCCGTCAGAGGGAACTACCAGAAAAGAAAAGGACTTGTGCATTAAGTACTTTGACCAGTGG
 TCTGAATCAGATCAGGTGGAATTTGTGGAGCATCTTATCTCACGGATGTGCATTATCAGCATGGACATA
 TTAACTCTTACCTGAAGCCCATGTTGCAGCGGGACTTTTACTGCTTTACCAGAGCAAGGCTTAGATCA
 CATAGCAGAAAACATTCTCTCTACCTGGATGCCAGGTCTCTGTGTGCAGCAGAGCTGGTGTGTAAGAA
 TGGCAGCGAGTGATCTCAGAAGGGATGCTTTGGAAGAAGCTGATTGAGAGGATGGTGCACCCGACCCTC
 TCTGGAAGGGACTCTCAGAAAAGAGGGCTGGGATCAGTACCTGTTTAAAAACAGACCTACAGATGGCCC
 TCCCAACTCATTTTATAGATCATTATACCCAAAGATTATCCAGGACATAGAGACCATAGAATCCAACCTGG
 CGGTGTGGACGACAACTTGCAGAGGATCCAGTGCCGCTCTGAAAATAGTAAGGGTGTCTACTGTTTGC
 AATATGATGATGACAAAATTATCAGTGGCTCCGGGACAACCTCTATCAAGATCTGGGATAAAAGCAGCTT
 GGAATGTTTAAAAGTGCTAACGGGCCACACAGGCTCTGTCTCTGCTCCAGTATGATGAGCGAGTCATT
 GTAACCTGGTTCTCAGACTCCACGGTGAGAGTCTGGGATGTGAACACTGGTGAGGTGCTCAACACTCA
 TCCACCACAATGAAGCCGTAAGTACTGCACTTACGCTTACGCAATGGACTGATGGTGACTTGTTCGAAGGACCG
 TTCCATTGCCGTGTGGGACATGGCTTCTGCCACCGATACACTTACGCCGTGTTCTGGTTGGCCACCGT
 GCTGCTGTCAATGTAGTAGACTTTGATGATAAAATACATCGTGTCTGCTTACAGGAGACAGGACCTAAAG
 TGTGGAGCACGACACATGTGAGTTTGTCCGACTCTGAATGGGACACAAGCGAGGACATCGCTGTGCA
 GTACCCGACCGGCTTGTGTTAGTGGATCAGATAATACCATCCGGTTATGGGATATTGAATGTGGT
 GCCTGTTTAAAGATCCTAGAGGGCACGAAGAATTGGTCCGGTGCATCCGTTTTGATAAAGAGGATTG
 TCAGTGGCGCCTATGATGGGAAGATTAAGTCTGGGACTTGCAGGCTGCTTTGACCCTCGGGCCCCAGC
 AAGCACATTGTGTCTGCGCACCTTGGTGGAACTCTGGACGTGTGTTTCGGCTGCAGTTTGATGAGTTT
 CAGATCATCAGCAGCTCCCATGATGACACTATTTTATTGGGATTTCTTAAATGTGCCTCCAGTGCCC
 AGAATGAGACCCGCTCTCCCTCCAGAACCTACACCTATATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230397 representing NM_001271348
 Red=Cloning site Green=Tags(s)

MEPDSVIEDKTIELMNTSVMEDQNEDESPKKSALWQISNGTSSVIVSRKRPSEGNQKEKDLCKIYFDQW
 SESDQVEFVEHLISRMCHYQHGHINSYLPMLQRDFITALPEQGLDHAENILSYLDARSLCAAELVCKE
 WQRVISEGMLWKKLIERMVRTDPLWKGLSERRGWDQYLFKNRPTDGPPNSFYRSLYPKIIQDIETIESNW
 RCGRHNLRQRIQCRSENSKGVYCLQYDDKIIISGLRDNSIKIWDKSSLECLKVLTGHTGSVLCQYDERVI
 VTGSSDSTVRVVDVNTGEVLNLIHNEAVLHLRFNGLMVTCSKDRSIAVWDMASATDITLRRVLVGHR
 AAVNVVDFDDKYIVSASGDRTIKVWSTSTCEFVRTLNHGKRGIAQLYRDRLVVS GSSDNTIRLWDIECG
 ACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLQAALDPRAPASTLCLRTLVEHSGRVFRLQFDEF
 QIISSSHDDTILIWDFLNVPPSAQNETRSPSRITYISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001271348
ORF Size:	1587 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:	<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:	NM_001271348.1 , NP_001258277.1
RefSeq Size:	4237 bp
RefSeq ORF:	1590 bp
Locus ID:	103583
UniProt ID:	Q5SRY7
Cytogenetics:	11 A4
MW:	61.3 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]