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Product datasheet for MR208916

Fbxw11 (NM_134015) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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:

>MR208916 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCGACTCGGTGATTGAAGACAAGACCATCGAGCTCATGTGTTCTGTGCCAAGGTCTTTGTGGC
TAGGCTGCGCCAACCTGGTAGAGAGCATGTGCGCACTGAGTTGCCTGCAGAGCATGCCCAGTGTCAGATG
TCTCCAGAACACTTCAGTTATGGAAGATCAAAATGAAGATGAGTCCCCAAAGAAAAGTGCTCTTTGGCAG
ATCAGTAATGGAACGTCATCTGTGATTGTCTCCAGAAAGAGGCCGTCAGAGGGGAACTACCAGAAAGAAA
AGGACTTGTGCATTAAGTACTTTGACCAGTGGTCTGAATCAGATCAGGTGGAATTTGTGGAGCATCTTAT
CTCACGGATGTGTCATTATCAGCATGGACATATTAACTCTTACCTGAAGCCCATGTTGCAGCGGGACTTT
ATCACTGCTTTACCAGAGCAAGGCTTAGATCACATAGCAGAAAACATTCTCTCCTACCTGGATGCCAGGT
CTCTGTGTGCAGCAGAGCTGGTGTGTAAAGAATGGCAGCGAGTGATCTCAGAAGGGATGCTTTGGAAGAA
GCTGATTGAGAGGATGGTGCGCACCGACCCTCTCTGGAAGGGACTCTCAGAAAGAAGAGGCTGGGATCAG
TACCTGTTTAAAAACAGACCTACAGATGGCCCTCCCAACTCATTTTATAGATCATTATACCCAAAGATTA
TCCAGGACATAGAGACCATAGAATCCAACTGGCGGTGTGGACGACACAACTTGCAGAGGATCCAGTGCCG
CTCTGAAAATAGTAAGGGTGTCTACTGTTTGCAATATGATGATGACAAAATTATCAGTGGCCTCCGGGAC
AACTCTATCAAGATCTGGGATAAAAGCAGCTTGGAATGTTTGAAAGTGCTAACGGGCCACACAGGCTCTG
TCCTCTGCCTCCAGTATGATGAGCGAGTCATTGTAACTGGTTCTTCAGACTCCACGGTGAGAGTCTGGGA
TGTGAACACTGGTGAGGTGCTCAACACACTCATCCACCACAATGAAGCCGTACTGCACTTACGCTTCAGC
AATGGACTGATGGTGACTTGTTCCAAGGACCGTTCCATTGCCGTGTGGGACATGGCTTCTGCCACCGATA
TCACTTTACGCCGTGTTCTGGTTGGCCACCGTGCTGCTGTCAATGTAGTAGACTTTGATGATAAATACAT
CGTGTCTGCTTCAGGAGACAGGACCATTAAAGTGTGGAGCACGAGCACATGTGAGTTTGTCCGCACTCTG
AATGGGCACAAGCGAGGCATCGCCTGTCTGCAGTACCGCGACCGGCTTGTTGTTAGTGGATCATCAGATA
ATACCATCCGGTTATGGGATATTGAATGTGGTGCCTGTTTAAGAGTCCTAGAGGGGCACGAAGAATTGGT
CCGGTGCATCCGTTTTGATAACAAGAGGATTGTCAGTGGCGCCTATGATGGGAAGATTAAAGTCTGGGAC
TTGCAGGCTGCTCTTGACCCTCGGGCCCCAGCAAGCACATTGTGTCTGCGCACCTTGGTGGAACACTCTG
GACGTGTGTTTCGGCTGCAGTTTGATGAGTTTCAGATCATCAGCAGCTCCCATGATGACACTATTTTGAT
TTGGGATTTCTTAAATGTGCCTCCCAGTGCCCAGAATGAGACCCGCTCTCCCTCCAGAACCTACACCTAT
ATCTCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

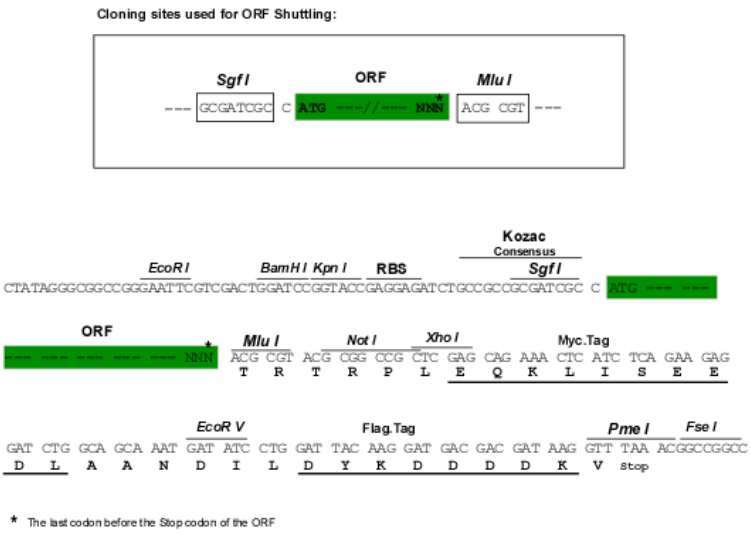
>MR208916 protein sequence
Red=Cloning site Green=Tags(s)

MEPDSVIEDKTIELMCSVPRSLWLGCANLVESMCALSCLQSMPSVRCLQNTSVMEDQNEDESPKKSALWQ
ISNGTSSVIVSRKRPSEGNYQKEKDLCIKYFDQWSESDQVEFVEHLISRMCHYQHGHINSYLKPMLQRDF
ITALPEQGLDHIAENILSYLDARSLCAAELVCKEWQRVISEGMLWKKLIERMVRTDPLWKGLSERRGWDQ
YLFKNRPTDGPPNSFYRSLYPKIIQDIETIESNWRCGRHNLQRIQCRSENSKGVYCLQYDDDKIISGLRD
NSIKIWDKSSLECLKVLTGHTGSVLCLQYDERVIVTGSSDSTVRVWDVNTGEVLNTLIHHNEAVLHLRFS
NGLMVTCSKDRSIAVWDMASATDITLRRVLVGHRAAVNVVDFDDKYIVSASGDRTIKVWSTSTCEFVRTL
NGHKRGIACLQYRDRLVVSGSSDNTIRLWDIECGACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWD
LQAALDPRAPASTLCLRTLVEHSGRVFRLQFDEFQIISSSHDDTILIWDFLNVPPSAQNETRSPSRTYTY
ISR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134015

ORF Size: 1689 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_134015.3

RefSeq Size: 4339 bp

RefSeq ORF: 1692 bp

Locus ID: 103583

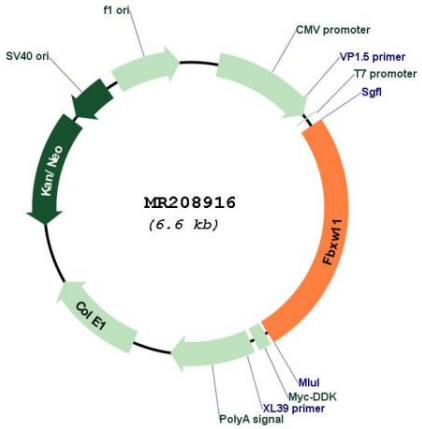
UniProt ID: Q5SRY7

Cytogenetics: 11 A4

MW: 64.5 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 MR208916