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Product datasheet for RC220761

FBXW12 (NM_207102) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXW12 (NM_207102) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXW12
Synonyms:	FBW12; FBXO12; FBXO35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC220761 representing NM_207102
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGATCCGATTGCCTGACTTAGCTTTGAAGCGAATCTTCTCTTTCCTGGACCTGTTCGGCTTGCTGC
AGGTTTCCCAGGTGAACAAGCATTGGAATAGGATTGCAGACAGTGATTACCTGTGGAGGTCACTATCTCT
GCAGAGATGGGACTGCAGCAACTTCACCAATCAACACCTGGGCACACACACATGGAAGCAATTTTTCCTG
CATCAAAGAAGGAAGGAGCTTCGGTTGGCATTGGCACAGCCGCATAACTTTATCTACAAAGTAACTAAGA
ACATCGCATTTGAGACGGAGTTGGCTTATCTCTCAGGAAATAGACTTACAGTGGATGAACAGGAGAAATC
AATCATTTGTAGTGTATCTCCAAAGCAAGAGCTTTGTGCCTGGGATGTGCAAGAGGGTACCATGATCTGG
TCAAGCCCAGTCCAGGAGTTCCATTTCTCAAATCTGGTAACCCTCCCTCAGATGCATCTCGCCATCACTA
TGGATCGGAAAAAAACTATCAAAGTGTGGAACTGTCAGGACAGGGACGCTCTGGCTGTTCTCCCCATGCC
ACAGCCCTGTTATTGCATGGAAGCCTATCTTACAAAGGATGGCCCATTCCTGATGGTTGGCGATGCTGCA
GGTGACATCTACACATTTACACTGCCTGGGTTAAGAGATGTTTCTAAAGTTACTGCATTTCAATATGGTA
TTGTACTTCTACACTGCTCTCCTGACAAGAAATGGGTATTTGCATGTGGGACATACAGTCGTACCTTGCC
ACAGGTATTCCTCACAGAGTCCTTACTGAGACCATCAGAAGGCAGTGATCCTCTGTCTACCTTTCTCCCA
CATAAATTATGTGCCAGCGCCTGCTGGACCCCAAAGGTGAAAAACAGGATAACACTGATGTCCCAAAGTA
GCACTGGAAAAAAGACAGAATTTATCACCTTTGATCTACCAACCAAGAAGACTGGAGGCCAAACAGTCAT
CCAAGCATATGAGATCGCAAGTTTCCAGGTGGCAGCTCATCTGAAGTGCCCTATCTGGATGGGAGCCAGT
GATGGATATATGATTGTCTTTACCAGTGGACCATACTTGTTACTCTTCAGCATCACTGGCTTCCTGCTGC
AACGATTTGAGGACCATCAGGCAGCCATCAACAACTTCTGGGTGGATCCTTGCTATGTGCTCACCACATC
CGAGAACTCTGTGCACGTGTACATGTGGGAAGAAGGAGGCCGCCATCCATACCTCAGGAGCTGCTGTCAC
CTGGAAAACACGTGGCATGATCACACAACAGACAGCTGCATCTCCAGTGTGATGTGTGATAATGCAAGCA
TAGTACTTAGGGTGAGGAAAGTAAGTGACTCCAGCATTCTGGTGATGTATTCTTTGAATACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220761 representing NM_207102
Red=Cloning site Green=Tags(s)

MEIRLPDLALKRIFSFLDLFGLLQVSQVNKHWNRIADSDYLWRSLSLQRWDCSNFTNQHLGTHTWKQFFL
HQRRKELRLALAQPHNFIYKVTKNIAFETELAYLSGNRLTVDEQEKSIICSVSPKQELCAWDVQEGTMIW
SSPVQEFHFSNLVTLPQMHLAITMDRKKTIKVWNCQDRDALAVLPMPQPCYCMEAYLTKDGPFLMVGDAA
GDIYTFTLPGLRDVSKVTAFQYGIVLLHCSPDKKWVFACGTYSRTLPQVFLTESLLRPSEGSDPLSTFLP
HKLCASACWTPKVKNRITLMSQSSTGKKTEFITFDLPTKKTGGQTVIQAYEIASFQVAAHLKCPIWMGAS
DGYMIVFTSGPYLLLFSITGFLLQRFEDHQAAINNFWVDPCYVLTTSENSVHVYMWEEGGRHPYLRSCCH
LENTWHDHTTDSCISSVMCDNASIVLRVRKVSDSSILVMYSLNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6733_b12.zip

Restriction Sites: SgfI-MluI

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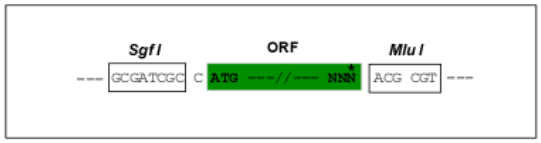
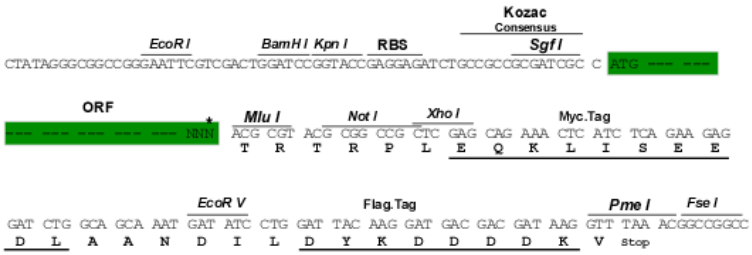
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_207102

ORF Size: 1392 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_207102.1, NP_996985.1

RefSeq Size: 1647 bp

RefSeq ORF: 1395 bp

Locus ID: 285231

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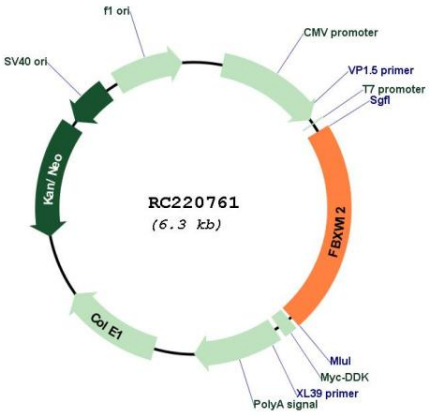
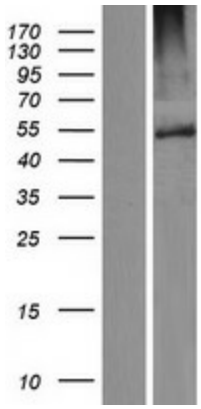
UniProt ID:	Q6X9E4
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
MW:	52.9 kDa
Gene Summary:	Members of the F-box protein family, such as FBXW12, are characterized by an approximately 40-amino acid F-box motif. SCF complexes, formed by SKP1 (MIM 601434), cullin (see CUL1; MIM 603034), and F-box proteins, act as protein-ubiquitin ligases. F-box proteins interact with SKP1 through the F box, and they interact with ubiquitination targets through other protein interaction domains (Jin et al., 2004 [PubMed 15520277]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC220761



Western blot validation of overexpression lysate (Cat# [LY404111]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220761 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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