

Product datasheet for **RC205063**

FBXO6 (NM_018438) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO6 (NM_018438) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXO6
Synonyms:	FBG2; FBS2; FBX6; Fbx6b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205063 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCTCCCCACTCCAAAGCAGCCCTGGACAGCATTAAACGAGCTGCCGAGAACATCCTGCTGGAGC
TGTTACGCACGTGCCCGCCCGCAGCTGCTGCTGAAGTCCGCCTGGTCTGCAGCCTCTGGCGGGACCT
CATCGACCTCATGACCCTCTGGAAACGCAAGTGCCTGCGAGAGGGCTTCATACCAAGGACTGGGACCAG
CCCGTGGCCGACTGGAAAATCTTCTACTTCTACGGAGCCTGCATAGGAACCTCCTGCGCAACCCGTGTG
CTGAAGAGGATATGTTTGCATGGCAAATGATTTCAATGGTGGGACCGCTGGAAGGTGGAGAGCCTCCC
TGGAGCCACGGGACAGATTTTCTGACCCCAAAGTCAAGAAGTATTTTGTACATCCTACGAAATGTGC
CTCAAGTCCCAGCTGGTGGACCTTGTAGCCGAGGGCTACTGGGAGGAGCTACTAGACACATTCCGGCCGG
ACATCGTGGTTAAGGACTGGTTTGTGCGAGAGCCGACTGTGGCTGCACCTACCAACTCAAAGTGCAGCT
GGCCTCGGCTGACTACTTCGTGTTGGCCTCCTTCGAGCCCCACCTGTGACCATCCAACAGTGGAAACAAT
GCCACATGGACAGAGGTCTCTACACCTTCTCAGACTACCCCCGGGGTGTCCGCTACATCCTCTCCAGC
ATGGGGGCAGGGACCCAGTACTGGGCAGGCTGGTATGGGCCCCGAGTACCAACAGCAGCATTGTCGT
CAGCCCCAAGATGACCAGGAACAGGCCCTCCTCCGAGGCTCAGCCTGGGCAGAAGCATGGACAGGAGGAG
GCTGCCAATCGCCCTACCGAGCTGTTGTCCAGATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205063 protein sequence
Red=Cloning site Green=Tags(s)

MDAPHSKAALDSINELPENILLELFTHVPARQLLLNCRLVCSLWRDLIDLMTLWKRKCLREGFITKDWDQ
 PVADWKIFYFLRSLHRNLLRNPCAEDMFQAWQIDFNGGDRWKVESLPGAHTDFDPKVKKYFVTSYEMC
 LKSQVLVLAEGYWEELLDTRFDIVVKDWFARADCGCTYQLKVKQLASADYFVLASFEPPTVIQQWNN
 ATWTEVSYTFSDYPRGVRYILFQHGGRDTQYWAGWYGRVNTSSIVVSPKMTRNQASSEAPGQKHGQEE
 AAQSPYRAVVQIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6438_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018438

ORF Size: 879 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_018438.6](#)

RefSeq Size: 1565 bp

RefSeq ORF: 882 bp

Locus ID: 26270

UniProt ID: [Q9NRD1](#)

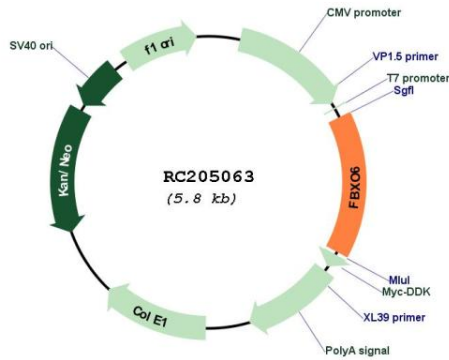
Cytogenetics: 1p36.22

Domains: F-box, FBA

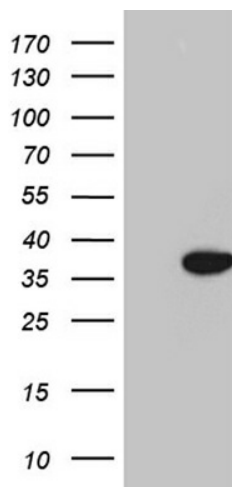
Protein Families: Druggable Genome

MW: 33.9 kDa

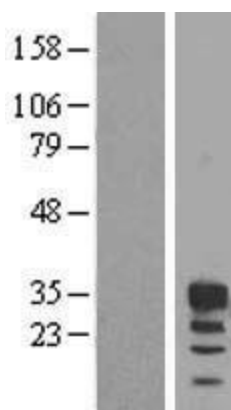
Gene Summary: This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent 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 belongs to the Fbxs class, and its C-terminal region is highly similar to that of rat NFB42 (neural F Box 42 kDa) which may be involved in the control of the cell cycle. [provided by RefSeq, Jul 2008]

Product images:


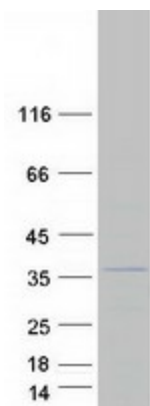
Circular map for RC205063



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FBXO6 (Cat# RC205063, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FBXO6 (Cat# [TA810333])(1:2000). Positive lysates [LY412992] (100ug) and [LC412992] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412992]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205063 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FBXO6 protein (Cat# [TP305063]). The protein was produced from HEK293T cells transfected with FBXO6 cDNA clone (Cat# RC205063) using MegaTran 2.0 (Cat# [TT210002]).