

Product datasheet for **RC222041**

FBXO11 (NM_025133) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO11 (NM_025133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXO11
Synonyms:	FBX11; IDDFBA; PRMT9; UBR6; UG063H01; VIT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222041 representing NM_025133
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGCAGAAGAATCAGGTCCTGGTGCACAAAATAGTCCATACCAACTTCGTAGAAAACTCTTTTGC
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ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222041 representing NM_025133
 Red=Cloning site Green=Tags(s)

MVAEESGPGAQNSPYQLRRKTL LPKRTACPTKNSMEGASTSTTENFGHRAKRARVSGKSQDL SAAPAEQY
 LQEKL PDEVVLKIFSYLLEQDL CRAACVCKRF SELANDPILWKRL YMEVFEYTRPMMHPEPGKFYQINPE
 EYEHPNPWKESFQQL YGAHVKPGFAEHFYSNPARYKGRENML YDIEDALGGVQEAHFDGL IFVHSGI
 YTDEWIYIESPITMIGAAPGKVADKVI IENTRDSTFVFMESSEDAYVGYMTIRFNPDDKSAQHNAHCL
 EITVNCSPIIDHCIIRSTCTVGSAVCVSGQGACPTIKHCNISDCENVGLYITDHAQGIYEDNEISNNALA
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 FYDNGHGVLEDNDIYNHMYSGVQIR TGSNPKIRRNIWGGQNGGILVYNSGLGCIEDNEIFDNAMAGVWI
 KTDSNPTLRNKIHDGRDGGICIFNGGRLL EENDIFRNAQAGVL ISTNSHPILRKNRIFDGAAGIEIT
 NHATATLEGNQIFNRFGLFLASGVNVTMKDNKIMNNDIAIEKAVSRGQCLYKISSYTSYPMHDFYRCH
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 QHN

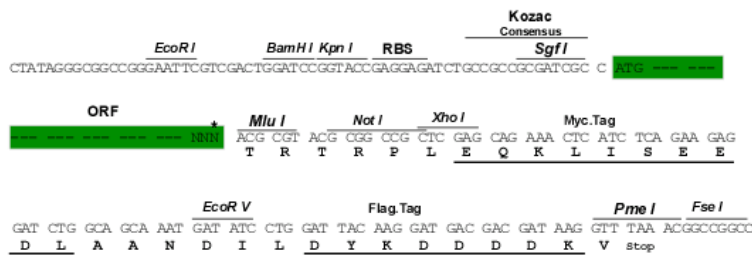
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2495_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

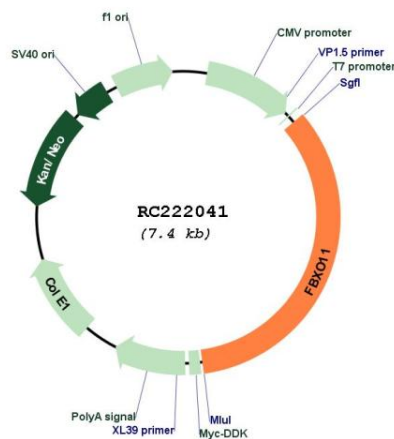


* The last codon before the Stop codon of the ORF

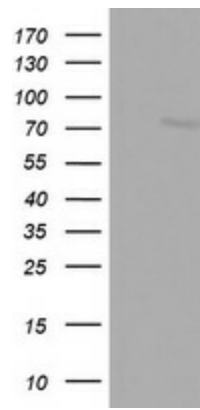
ACCN:	NM_025133
ORF Size:	2529 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_025133.4
RefSeq Size:	3951 bp
RefSeq ORF:	2532 bp
Locus ID:	80204
UniProt ID:	Q86XK2
Cytogenetics:	2p16.3
Domains:	PbH1, CASH
Protein Families:	Druggable Genome
MW:	93.9 kDa

Gene Summary:

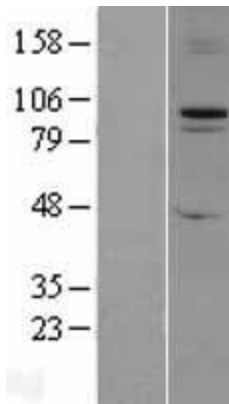
This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. 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. It can function as an arginine methyltransferase that symmetrically dimethylates arginine residues, and it acts as an adaptor protein to mediate the neddylation of p53, which leads to the suppression of p53 function. This gene is known to be down-regulated in melanocytes from patients with vitiligo, a skin disorder that results in depigmentation. Polymorphisms in this gene are associated with chronic otitis media with effusion and recurrent otitis media (COME/ROM), a hearing loss disorder, and the knockout of the homologous mouse gene results in the deaf mouse mutant Jeff (Jf), a single gene model of otitis media. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jun 2010]

Product images:


Circular map for RC222041



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FBXO11 (Cat# RC222041, 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-FBXO11(Cat# [TA802323]). Positive lysates [LY403052] (100ug) and [LC403052] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403052]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222041 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).