OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209600

FBXO42 (NM_018994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO42 (NM_018994) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXO42
Synonyms:	Fbx42; JFK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209600 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGCTCCTCAGACAGTGAAGATGACAGTTTCATGGCTGTGGACCAGGAAGAAACTGTGCTGGAAG
GGACAATGGATCAAGATGAGGAGCCCCACCCAGTATTGGAGGCTGAGGAGACTAGACATAATAGGTCCAT
GTCGGAGCTGCCAGAAGAGGTTTTGGAGTATATCCTGTCCTTTCTCTCACCGTATCAGGAACACAAAACT
GCGGCCCTTGTCTGCAAACAGTGGTATCGACTTATCAAAGGTGTAGCCCATCAGTGTTATCATGGTTTCA
TGAAGGCTGTCCAGGAAGGAAACATTCAGTGGGAGAGCCGTACCTATCCTTATCCTGGAACCCCAATCAC
TCAGCGCTTCTCGCACAGTGCATGCTATTATGATGCTAATCAGTCTATGTATGTGTTTGGAGGCTGTACC
CAGAGCAGCTGCAATGCTGCTTTCAATGACCTCTGGAGACTTGACCTAAACAGCAAAGAGTGGATCCGAC
CTTTGGCTTCAGGGTCCTATCCTTCCCCCAAAGCTGGAGCAACTCTGGTCGTGTACAAGGACTTGCTAGT
GCTGTTTGGTGGCTGGACGCGGCCAAGCCCTTATCCCCTACACCAGCCAGAGAGATTCTTTGATGAAATA
CACACTTACTCACCCTCTAAAAATTGGTGGAACTGCATTGTGACAACCCATGGGCCACCTCCCATGGCTG
GCCACTCCTCCTGTGTGATAGATGATAAAATGATTGTCTTTGGTGGCTCTTTAGGATCCCGGCAAATGAG
CAATGATGTCTGGGTCCTTGACCTTGAGCAGTGGGCGTGGTCCAAGCCGAACATCTCTGGCCCCAGTCCT
CATCCTCGAGGTGGCCAATCTCAGATTGTCATAGATGATGCAACTATCTTAATCCTCGGAGGGTGTGGCG
GTCCCAATGCTCTATTCAAGGATGCTTGGTTGTTGCACATGCATTCTGGTCCTTGGGCCTGGCAGCCACT
CAAGGTAGAAAATGAAGAGCATGGGGCCCCAGAACTGTGGTGCCATCCAGCTTGCCGGGTGGGACAGTGT
GTGGTGGTCTTCAGCCAGGCTCCTAGTGGGAGAGCCCCACTCAGCCCCAGTTTGAACTCTCGCCCATCAC
CTATCAGTGCCACTCCTCCAGCTCTCGTTCCTGAAACCCGAGAGTACCGCTCTCAGTCTCCAGTAAGAAG
CATGGATGAAGCTCCTTGTGTTAACGGCCGCTGGGGAACACTGAGACCCAGGGCTCAAAGGCAGACTCCT
TCAGGTTCCCGGGAAGGGAGCCTTTCCCCAGCCAGAGGAGACGGCTCTCCTATCCTCAATGGTGGGAGTT
TGTCTCCAGGAACGGCAGCTGTGGGTGGCTCTTCTTTGGACAGTCCTGTACAGGCCATATCTCCAAGTAC
TCCATCTGCTCCTGAAGGATACGACCTGAAAATAGGACTTTCTTTGGCCCCCCGACGAGGATCACTACCA
GATCAGAAAGATCTGAGATTAGGATCCATAGATCTGAATTGGGATCTGAAACCCGCTTCCAGTAGTAATC
CCATGGATGGCATGGACAATAGGACAGTTGGGGGAAGTATGAGACACCCTCCTGAACAGACAAATGGTGT
GCATACCCCACCTCACGTGGCCAGTGCCCTTGCAGGGGCCGTCTCCCCAGGTGCCCTGCGTCGGAGTCTG
GAAGCCATCAAAGCGATGTCCTCCAAAGGCCCCTCGGCCTCTGCAGCACTAAGTCCTCCTCTTGGGTCTT
CTCCAGGCTCTCCTGGGAGCCAGAGTTTGAGCAGTGGAGAAACAGTGCCCATCCCTCGCCCAGGGCCTGC
CCAAGGAGATGGACATTCCTTACCTCCCATTGCTCGCCGCCTGGGCCACCACCCTCCACAGTCCCTAAAT
GTTGGCAAACCCCTATACCAGAGTATGAACTGCAAGCCCATGCAGATGTACGTGCTGGACATTAAAGACA
CCAAGGAGAAGGGGCGGGTCAAATGGAAAGTATTTAATAGCAGTTCTGTGGTTGGACCTCCTGAAACCAG
CCTGCATACCGTGGTACAAGGCAGGGGTGAACTCATCATATTTGGAGGACTCATGGACAAGAAACAGAAT
GTGAAGTACTATCCAAAAACAAACGCCTTGTACTTTGTACGAGCAAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209600 protein sequence
Red=Cloning site Green=Tags(s)

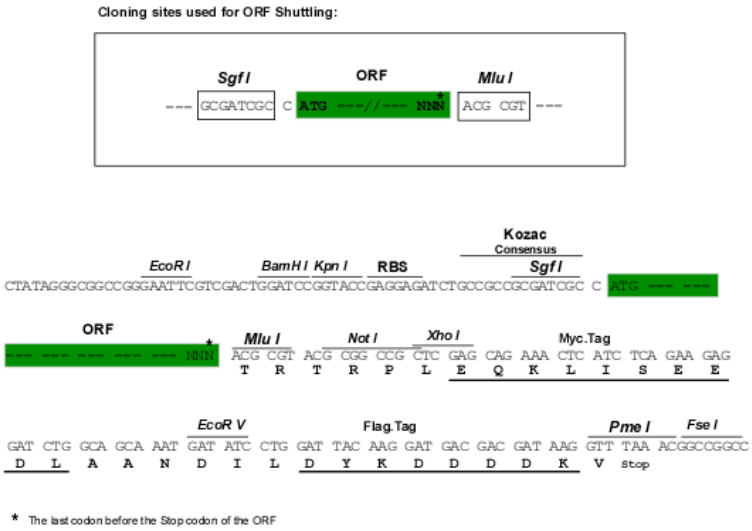
MASSSDSEDDSFMAVDQEETVLEGTMDQDEEPHPVLEAEETRHNRSMSELPEEVLEYILSFLSPYQEHKT
AALVCKQWYRLIKGVAHQCYHGFMKAVQEGNIQWESRTYPYPGTPITQRFSHSACYYDANQSMYVFGGCT
QSSCNAAFNDLWRLDLNSKEWIRPLASGSYPSPKAGATLVVYKDLLVLFGGWTRPSPYPLHQPERFFDEI
HTYSPSKNWWNCIVTTHGPPPMAGHSSCVIDDKMIVFGGSLGSRQMSNDVWVLDLEQWAWSKPNISGPSP
HPRGGQSQIVIDDATILILGGCGGPNALFKDAWLLHMHSGPWAWQPLKVENEEHGAPELWCHPACRVGQC
VVVFSQAPSGRAPLSPSLNSRPSPISATPPALVPETREYRSQSPVRSMDEAPCVNGRWGTLRPRAQRQTP
SGSREGSLSPARGDGSPILNGGSLSPGTAAVGGSSLDSPVQAISPSTPSAPEGYDLKIGLSLAPRRGSLP
DQKDLRLGSIDLNWDLKPASSSNPMDGMDNRTVGGSMRHPPEQTNGVHTPPHVASALAGAVSPGALRRSL
EAIKAMSSKGPSASAALSPPLGSSPGSPGSQSLSSGETVPIPRPGPAQGDGHSLPPIARRLGHHPPQSLN
VGKPLYQSMNCKPMQMYVLDIKDTKEKGRVKWKVFNSSSVVGPPETSLHTVVQGRGELIIFGGLMDKKQN
VKYYPKTNALYFVRAKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6360_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018994

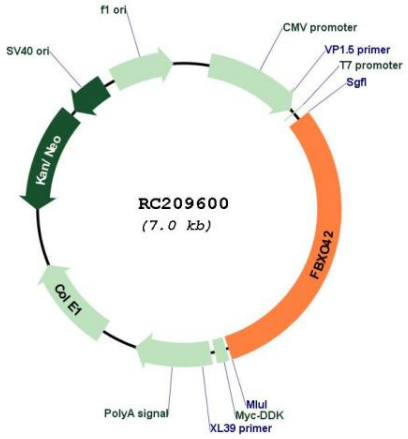
ORF Size: 2151 bp

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

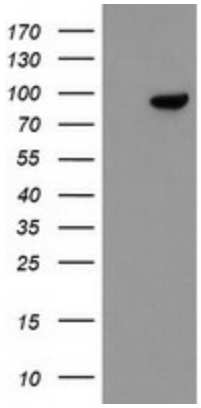
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018994.1, NP_061867.1
RefSeq Size:	3011 bp
RefSeq ORF:	2154 bp
Locus ID:	54455
UniProt ID:	Q6P3S6
Cytogenetics:	1p36.13
Protein Families:	Druggable Genome
MW:	77.8 kDa
Gene Summary:	Members of the F-box protein family, such as FBXO42, are characterized by an approximately 40-amino acid F-box motif. SCF complexes, formed by SKP1 (SKP1A; MIM 601434), cullin (see CUL1; MIM 603134), 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, Dec 2010]

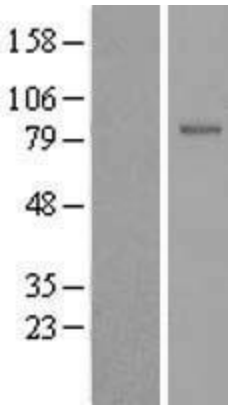
Product images:



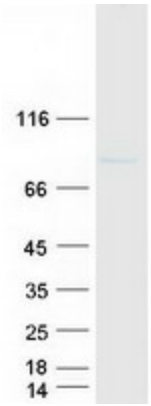
Circular map for RC209600



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FBXO42 (Cat# RC209600, 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-FBXO42(Cat# [TA800210]). Positive lysates [LY412832] (100ug) and [LC412832] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209600 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FBXO42 protein (Cat# [TP309600]). The protein was produced from HEK293T cells transfected with FBXO42 cDNA clone (Cat# RC209600) using MegaTran 2.0 (Cat# [TT210002]).