

Product datasheet for **RC222120**

FBXO41 (NM_001080410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO41 (NM_001080410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXO41
Synonyms:	FBX41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222120 representing NM_001080410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTCGTGGACCTGCCGTACCGCTGCCCCGCTGCGGGGAGCACAAGCGCTTCCGGAGCCTGTCGT
 CGCTGCGCGGCACCTGGAGTACAGCCACACCTACGAGACGCTCTACATCCTCTCCAAGACCAACAGCAT
 CTGCGACGGCGCCGCGCCGCGCGCCGCGCCGCTGCTCGGGTTCCCGCTGGCTCCCGAGCCC
 GCCGCCCTGCTGGCCGTGCCCGCGCCCGGCGAGAGGTCTTCGAGAGCACTTCCCTCCAGGGCAAGGAGC
 AGGCGGCCGGCCGTGCCCCGCGCGCCGACCTGCTGCACCACCACCATCACCAGCTCCCTCGCCCA
 CTTCCCGGCGACCTGGTCCCCTAGCCTGCCCTGTGAGGAGTTGGCCGAGCCGGGCTTGTGCCCGCC
 GCAGCAGCGCGTATGCGCTGCGCGAGATCGAGATCCCCTGGGGGAGCTGTTCCGCCGAAGTCCGTGG
 CGTCTCGGCGTCTCGACGCCCGCCCTGGCCCCGGCCCCGGCCCTTGGCCCGGCTGCCTCCGCTTC
 GCCCGCTCCCCCTACCCGCTGATGTGGCCTACGAAGAGGGCCTGGCGCGCCTCAAGATCCGCGCGCTG
 GAGAAGCTGGAGGTGGACCGGCGCTGGAGCGGCTGAGCGAGGAGGTGGAGCAGAAGATCCGGGGCAGG
 TGGGCCGCTGCAGGCCGAGCTGGAGCGCAAGGCGGCCGAAGTGGAGACTGCGCGCAGGAGAGTGCAGG
 GCTCGGGCGGAGAAGGAGGAGCTGGAGGAGCGCGCTGTGAGCTCTCCCGCAGGTGGAGCTGAGCGTA
 GAGCTGCTGGCCTCACTCAAGCAGGACCTGGTGCACAAGGAACAGGAGCTGAGCCGAAGCAGCAGGAGG
 TGGTGCAGATCGACCAGTTCTGAAGGAGACGGCGCGCGGGAGGCCAGCGCCAAGTCCGGCTGCAGCA
 GTTCATTGAGGAGCTCCTGAGCGGGCTGACCGTCCCGAGCGGCAGCTGCAGGTGATCAGCAGCAGCTGT
 GGCAGCAGCCCAGCGCCAGCCTGGGCCGTGGAGGTGGGGCGGTGGTGTGGACCAATGCCCGGGGCC
 CAGGCAGAATCGGAGAACCACAGTGGCCCCGGCCGTGCCTAACACATATGCAGTGTACGAGTGGCTC
 CTCTCCGAGCACAGGGGCTCCAGCCGTGTGCCAGCCGCATCCCAGAGCTCAGGCTGCTATGACAGTGAC
 AGTCTGGAGCTGCCAGGCCAGAGGAGGGGCCCTGAGGACAGTGGCCCTGGGGCTTGGGCACACGGG
 CCCAGGCTGCCAACGGGGCTCAGAGCGGTCCCAGCCCCCTCGCAGCTCAGGCCTGCGGCCAGGCCAT
 CCAGAAGTGGCAGCGCAGACCCCGCACAGCACTGAGGGGAAGAGGGTGTGTCTCCGACGTTGGC
 TCCCGAACACTGAGTCAAGGCTGAGGGCCCGTTGGATGCGCCCCGCCCGGGCTGCTATGGCTGGGC
 CATTGAGCAGCTGCCGGCTCAGCCCCCCCCAGGGAGGCAGTGGCGGGTTCGGCAGCAGAGAGGGT
 CAGCCCCCAGCTCCAATGAGGTGATCAGCCCAGAGATCCTGAAGATGCGAGCTGCCCTTCTGCATC
 TTCACCTACCTGGACACGCGCACACTGCTGCATGCTGCCGAGGTCTGCCGGACTGGCGCTTCGTGGCCC
 GCCACCCCGCAGTCTGGACAAGGGTGTGCTTGAAGTGCCTGTCTGCTCCAAGTTCCTGGCAATGCT
 GGCTCAGTGGTGCACCCAGGCCACTCTCTGACGCTGCAGAACTGAAGCCCCGGCAGCGGGGAAAGAAG
 GAGAGCAAGGAGGAGTATGCCCGGAGCACCCGGGGCTGCCTGGAAGTGGGCTGGAGTCCCTGCTGAAGG
 CAGCTGGGGGAACTGCTGATCCTGCGCATCTCCCACTGTCCAAACATCCTCACCGACCGCTCGCTCTG
 GCTGGCCAGCTGCTACTGCCGTGCCCTGCAGGCTGTACGTACAGGAGTGCCACAGACCCCGTGGCCAT
 GAGGTCAATTTGGGCCCTGGGCGCAGGCTGCAGAGAGATCGTCTCCCTCCAAGTGGCACCCTTACCCCT
 GCCAGCAGCCACAGCTTCAGTAACCGCTGCCTGCAGATGATTGGTTCGCTGTTGGCCCCACCTGCGGGC
 CCTGGGGGTTCGGGGTCCCGCTGTGGGTGCAGGGCCTGGCATCACTCGCGAGAACTGCATGCGGCTG
 CAGGTCCTGGAGCTTGACCACGTGTAGAGATCACCCAGGAGGTGGCAGCAGAGGTCTGCCGGGAAGGCC
 TGAAGGGACTGGAGATGCTGGTGTACAGGCGACTCCCCTCACCCCTAAGGCCCTACTGCACTTCAACAG
 CATCTGCCGAACTCAAGTCCATTGTGGTCCAGATTGGGATTGCGGATTATTTCAAAGAGCCAGCAGC
 CCTGAGGCCAGAAAGCTGTTTGGAGACATGGTGACAAAACCTCCAGGCTCTGCGACGGAGGCCCGCTTCT
 CTAAGATTCTGCACATCAAGGTGGAAGCGGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222120 representing NM_001080410
 Red=Cloning site Green=Tags(s)

MASLDLPYRCPRCGEHKFRFRSLSSLRAHLEYSHTYETLYILSKTNSICDGAIAAAAAAAAAASGFPLAPEP
 AALLAVPGARREVFESTSFQKGEQAAGPSAAPHLLHHHHHHAPLAHFPGDLVPASLPCEELAEPGLVPA
 AAARYALREIEIPLGELFARKSVASSACSTPPPGPGPCGPASASPSPADVAYEEGLARLKIRAL
 EKLEVDRLERLSEEVEQKIAGQVGRQLQAELEKAAELETARQESARLGREKEELEERASELSRQVDVSV
 ELLASLQKQDLVHKEQELSRKQEVVQIDQFLKETAAREASAKLRLQQFIEELLERADRAERQLQVSSSC
 GSTPSASLGRGGGGGAGPNARGPGRMREHHVGPVAVPNTYAVSRHGSSPSTGASSRVPAASQSSGCYDSD
 SLELPRPEEGAPEDSGPGLGTRAQAANGGSESRQPPRSSGLRRQAIQNWQRRPRRHSTEGEEDVSDVG
 SRTTESEAEGLDAPRPGPAMAGPLSSCRLSARPEGGSGRGRRAERVSPSRNEVISPEILKMRAALFCI
 FTYLDTRTLHAAEVCRDWRFFVARHPAVWTRVLLLENARVCSKFLAMLAQWCTQAHSLTLQNLKPRQRGKK
 ESKEEYARSTRGCL EAGLESLLKAAGNLLILRISHCPNILTDRSLWLASCYCRALQAVTYRSATDPVGH
 EVI WALGAGCREIVSLQVAPLHPCQQPTRFSNRCLQMIGRCWPHLRALGVGGAGCGVQGLASLARNCMRL
 QVLELDHVSEITQEVAAEVCREGLKGLEMLVL TATPVTPKALLHFNSICRNLSIVVQIGIADYFKEPSS
 PEAQKLFEDMVTKLQALRRRPGFSKILHIKVEGGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

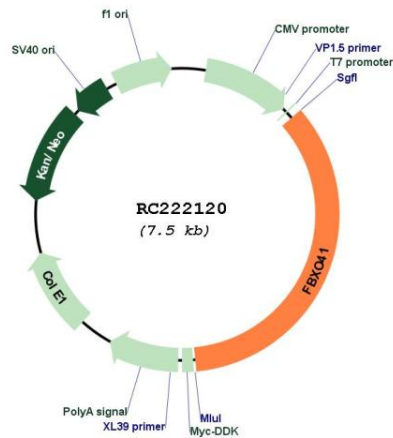


* The last codon before the Stop codon of the ORF

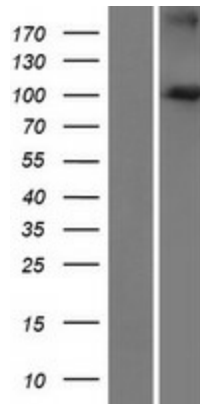
ACCN:	NM_001080410
ORF Size:	2625 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001080410.4
RefSeq Size:	7121 bp
RefSeq ORF:	2628 bp
Locus ID:	150726
UniProt ID:	Q8TF61
Cytogenetics:	2p13.2
MW:	94.3 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. F-box proteins constitute one of the four subunits of the SCF ubiquitin protein ligase complex that plays a role in phosphorylation-dependent ubiquitination. F-box proteins are divided into three classes depending on the interaction substrate domain each contains in addition to the F-box motif: FBXW proteins contain WD-40 domains, FBXL proteins contain leucine-rich repeats, and FBXO proteins contain either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the FBXO class. [provided by RefSeq, Feb 2014]

Product images:


Circular map for RC222120



Western blot validation of overexpression lysate (Cat# [LY421627]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).