

Product datasheet for **RC225396**

FBXO45 (NM_001105573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FBXO45
Synonyms:	Fbx45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225396 representing NM_001105573
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCGCGCCCCGGGGGCTGGGGCAGCCTCGGGCGGCGCTGGCTGTAGCGGCGCGGCGCGGGCG
CGGGCGCGGGCTCGGGCTCTGGGGCCGCGGGGCGGGGGCGGGTGCCAGCCGGGTGCTGGAGTTGGT
GTTCTCTTACCTGGAGCTGTCCGAGCTGCGGAGCTGCGCCCTGGTGTGCAAGCACTGGTACCGTGCCTG
CACGGCGATGAGAACAGCGAGGTGTGGCGAGCCTGTGCGCCCGCAGCCTGGCAGAAGAGGCTCTGCGCA
CGGACATCCTGTGCAACCTGCCAGCTACAAGGCCAAGATACGTGCTTTTCAACATGCCTTCAGCACTAA
TGACTGCTCCAGGAATGTCTACATTAAGAAGAATGGCTTTACTTTACATCGAAACCCATTGCTCAGAGC
ACTGATGGTGCAAGGACCAAGATTGGTTTCAGTGAGGGCCGCCATGCATGGGAAGTGTGGTGGGAGGGCC
CTCTGGGCACTGTGGCAGTGATTGGAATTGCCACAAAACGGCCCCCATGCAGTGCCAAGGTTATGTGGC
ATTGCTGGGCACTGATGACCAGAGCTGGGGCTGGAATCTGGTGGACAATAATCTACTACATAATGGAGAA
GTCAATGGCAGTTTTCCACAGTGCAACAACGCACCAAAATATCAGATAGGAGAAAGAAATTCGAGTCATCT
TGGACATGGAAGATAAGACTTTAGCTTTTGAACGTGGATATGAGTTCCTGGGGTGTCTTTAGAGGACT
TCCAAAGGTCTGCTTATACCCAGCAGTTTCTGCTGTATATGGCAACACAGAAGTGACTTTGGTTTACCTT
GGAAAACCTTTGGACGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225396 representing NM_001105573
Red=Cloning site Green=Tags(s)

MAAPAPGAGAASGGAGCSGGGAGAGAGSGGAAGGRLPSRVLELVFSYLELSELRSCALVCKHWYRCL
HGDENSEVWRSLCARSLAEEALRTDILCNLPSYKAKIRAFQHAFSTNDCSRNVYIKKNGFTLHRNPQAQS
TDGARTKIGFSEGRHAEVWVEPLGTVAVIGIATKRAPMQCQGYVALLGSDDQSWGWNLDNNLLHNGE
VNGSFPOCNNAPKYQIGERIRVILDMEDKTLAFERGIEFLGVAFRGLPKVCLYPAVSAVYGNTVTLVYL
GKPLDG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8033_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001105573

ORF Size: 858 bp

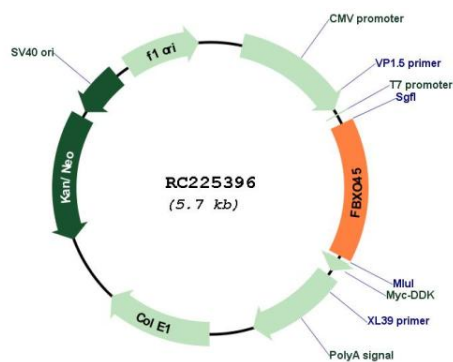
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

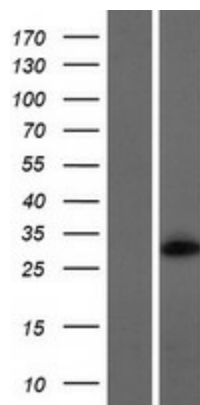
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001105573.2</u>
RefSeq ORF:	861 bp
Locus ID:	200933
UniProt ID:	<u>P0C2W1</u>
Cytogenetics:	3q29
Protein Families:	Druggable Genome
MW:	30.5 kDa
Gene Summary:	Members of the F-box protein family, such as FBXO45, are characterized by an approximately 40-amino acid F-box motif. SCF complexes, formed by SKP1 (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 (summary by Jin et al., 2004 [PubMed 15520277]).[supplied by OMIM, Jan 2011]

Product images:



Circular map for RC225396



Western blot validation of overexpression lysate (Cat# [LY426283]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225396 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).