

Product datasheet for **MR224233**

Fbxo9 (NM_001081490) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo9 (NM_001081490) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo9
Synonyms:	9030401P18Rik; AA986398
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224233 representing NM_001081490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGCGCAGAAGCGGAGGAAGATTGTCTATTCTGATGCTGACAGAGTAGGCGATGAAGGAAATGAGAGTC
 CGGCTGAGAGAGACCTGCAGGCCAGCTCCAGATGTTTCAGAGCTCAGTGGATGTTTGAAGTACCCAGG
 TGTAGGCTCCAGTCATGGAGAACTCGGCCTTGCAGAGCAGGAAGAAGCTCTATGCTGAAAGCAGCTGCA
 GACACCAAAGGACGACAGGAAGTGGCAAAGGAAGAAAAGGCTCGAGAAGCTTCTCAGGAGTGGAGG
 AAGAACAAAATGGAGCTCTATGAAGCCATCAAGTTCTACCGTAGGGCGATGCAGCTGGTGCCAGACAT
 TGAGTTCAAGTCACTTACACCCGGTCTCCAGACGGCGACGGCGTTGGGAGCGGCTACATCGAAGAGAAC
 GAGGACGCCAGCAAGATGGCCGATCTCCTGTCTACTTCCAGCAGCAGCTCACGTTGCAGGAGTCTGTGC
 TCAAATCTGTACGCTGAGCTTGAGACCAGTCCAGACTCACATATCAGTCTGCCTATGGAGGTGCTGAT
 GTACATCTTCCGATGGGTGGTATCAAGTGAAGTGGACCTCAGATCGTTAGAGCAGTTGCTACTGGTGTGC
 AGAGGATTCTATATCTGTGCCAGAGACCTGAAATCTGGCGTCTGGCTTCTGAAAGTGTGGGGCAGAA
 GCTGCATGAAGCTCGTCCATACCGCTCCTGGAGAGAGATGTTTCTAGAACGGCCCCGAGTTCGGTTTGA
 TGGAGTGTACATCAGTAAAACCGTATATTCGCCAGGGAGAGCAGTCACTTGATGGTTTCTACAGGGCG
 TGGACCAAGTGAATATTACAGATACATGAGATTCTTTCCTGATGGCCATGTGATGATGTTAACACCC
 CCGAGGAGCCTCCGTCATCGTCCCGGTTAAGAACCAGGAACACCAGAACGGATGCAATTCTGCTGGG
 TCATTACCGCTTGTACAAGATGCAGACAATCAGACCAAAGTCTTTGCTGTAATAACTAAGAAAAAGAA
 GAAAAGCCACTTGACCATAAATACAGGTATTTTCGTCTGTTCCCTGTCCAAGAGGCAGATCACAGCTTCC
 ATGTGGGACTGCAGCTGTGCTCCAGTGGCCACCAGAGTTCAACAAACTCATCTGGATCCACCACCTTGG
 TCACATCACTTACAAAGCAACTGGTGAAGTGGAGTCTTTCGATGAGTCTTTTGGATTGACAAGATGTACCGCC
 CTGTTGTTGCCAGAGTGAGGAGCTACACTGCCTTCTCGGAAAGGCTCTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224233 representing NM_001081490
 Red=Cloning site Green=Tags(s)

MSAEAEEDCHSDADRVGDEGNESPAERDLQAQLQMFRAQWMFELTPGVGSSHGETRPCRAGRSSMLKAAA
 DTKGRQELAKEEKARELFLQAVEEEQNGALYEAIKFYRRAMQLVPDIEFKITYTRSPDGDVGSYIEEN
 EDASKMADLLSYFQQQLTLQESVLKLCQPELETSTHISVLPMEVLMYIFRWVSSDLDLRSLEQLSLVC
 RGFYICARDPEIWRACLKVVWGRSCMKLVPIASWREMFLEPRVRFVYISKTTYIRQGEQSLDGFYRA
 WHQVEYYRYMRFPPDGHVMMLTTPPEPPSIVPRLRTRNTRTDAILLGHYRLSQDADNQTQKFAVITKKKE
 EKPLDHKYRYFRFPVQEAHDSFHVGLQLCSSGHQRFNKLIIWHHSCHITYKATGETAVSAFEIDKMYTP
 LLFARVRSYTAFSERPL

SGPTRRRLRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_001081490

ORF Size: 1311 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.

RefSeq: [NM_001081490.2](#)

RefSeq Size: 1858 bp

RefSeq ORF: 1314 bp

Locus ID: 71538

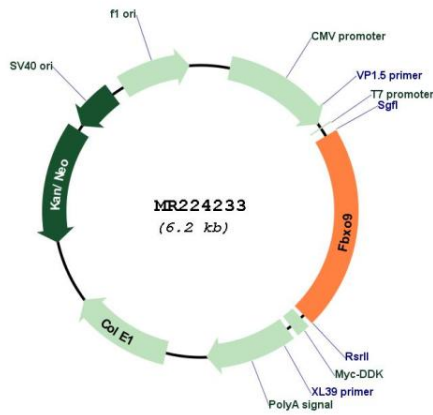
UniProt ID: [Q8BK06](#)

Cytogenetics: 9 E1

MW: 51.2 kDa

Gene Summary: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of TTI1 and TELO2 in a CK2-dependent manner, thereby directly regulating mTOR signaling. SCF(FBXO9) recognizes and binds mTORC1-bound TTI1 and TELO2 when they are phosphorylated by CK2 following growth factor deprivation, leading to their degradation. In contrast, the SCF(FBXO9) does not mediate ubiquitination of TTI1 and TELO2 when they are part of the mTORC2 complex. As a consequence, mTORC1 is inactivated to restrain cell growth and protein translation, while mTORC2 is activated due to the relief of feedback inhibition by mTORC1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224233