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Product datasheet for MG206949

Fbxo9 (BC020074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo9 (BC020074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbxo9
Synonyms:	9030401P18Rik; AA986398
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206949 representing BC020074
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGCGGAGGAAGATTGTCATTCTGATGCTGACAGAGTAGGCGATGAAGGAAATGAGAGTCCGG
CTGAGAGAGACCTGCAGGCGCAGCTCCAGATGTTCAGAGCTCAGTGGATGTTTGAACTGACCCCAGGTGT
AGGCTCCAGTCATGGAGAAACTCGGCCTTGCAGAGCAGGAAGAAGCTCTATGCTGAAAGCAGCTGCAGAC
ACCAAAGGACGACAGGAACTGGCAAAGGAAGAAAAGGCTCGAGAACTCTTCCTGCAGGCAGTGGAGGAAG
AACAAAATGGAGCTCTCTATGAAGCCATCAAGTTCTACCGTAGGGCGATGCAGCTGGTGCCAGACATTGA
GTTCAAGATCACTTACACCCGGTCTCCAGACGGCGACGGCGTTGGGAGCGGCTACATCGAAGAGAACGAG
GACGCCAGCAAGATGGCCGATCTCCTGTCGTACTTCCAGCAGCAGCTCACGTTGCAGGAGTCTGTGCTCA
AACTCTGTCAGCCTGAGCTTGAGACCAGTCAGACTCACATATCAGTCCTGCCTATGGAGGTGCTGATGTA
CATCTTCCGATGGGTGGTATCAAGTGACTTGGACCTCAGATCGTTAGAGCAGTTGTCACTGGTGTGCAGA
GGATTCTATATCTGTGCCAGAGACCCTGAAATCTGGCGTCTGGCTTGCTTGAAAGTGTGGGGCAGAAGCT
GCATGAAGCTCGTTCCATACGCGTCCTGGAGAGAGATGTTTCTAGAACGGCCCCGAGTTCGGTTTGATGG
AGTGTACATCAGTAAAACCACGTATATTCGCCAGGGAGAGCAGTCACTTGATGGTTTCTACAGGGCGTGG
CACCAAGTGGAATATTACAGATACATGAGATTCTTTCCTGATGGCCATGTGATGATGTTAACCACCCCCG
AGGAGCCTCCGTCCATCGTTCCCCGGTTAAGAACCAGGAACACCAGAACGGATGCAATTCTGCTGGGTCA
TTACCGCTTGTCACAAGATGCAGACAATCAGACCAAAGTCTTTGCTGTAATAACTAAGAAAAAAGAAGAA
AAGCCACTTGACCATAAATACAGGTATTTTCGTCGTGTTCCTGTCCAAGAGGCAGATCACAGCTTCCATG
TGGGACTGCAGCTGTGCTCCAGTGGCCACCAGAGGTTCAACAAACTCATCTGGATCCACCACTCTTGTCA
CATCACTTACAAAGCAACTGGTGAGACTGCAGTGAGTGCTTTTGAGATTGACAAGATGTACACGCCCCTG
TTGTTCGCCAGAGTGAGGAGCTACACTGCCTTCTCGGAAAGGCCTCTG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

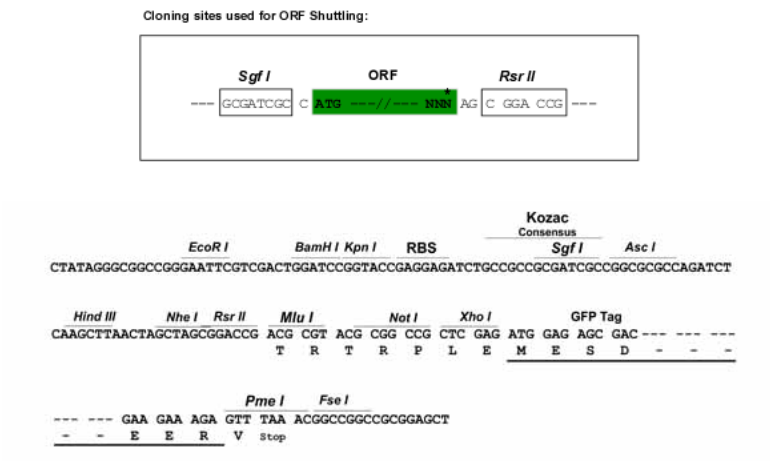
>MG206949 representing BC020074
Red=Cloning site Green=Tags(s)

MAEAEEDCHSDADRVGDEGNESPAERDLQAQLQMFRAQWMFELTPGVGSSHGETRPCRAGRSSMLKAAAD
TKGRQELAKEEKARELFLQAVEEEQNGALYEAIKFYRRAMQLVPDIEFKITYTRSPDGDGVGSGYIEENE
DASKMADLLSYFQQQLTLQESVLKLCQPELETSQTHISVLPMEVLMYIFRWVVSSDLDLRSLEQLSLVCR
GFYICARDPEIWRLACLKVWGRSCMKLVPYASWREMFLERPRVRFDGVYISKTTYIRQGEQSLDGFYRAW
HQVEYYRYMRFFPDGHVMMLTTPEEPPSIVPRLRTRNTRTDAILLGHYRLSQDADNQTKVFAVITKKKEE
KPLDHKYRYFRRVPVQEADHSFHVGLQLCSSGHQRFNKLIWIHHSCHITYKATGETAVSAFEIDKMYTPL
LFARVRSYTAFSERPL

SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: BC020074

ORF Size: 1310 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: BC020074, AAH20074

RefSeq Size: 2138 bp

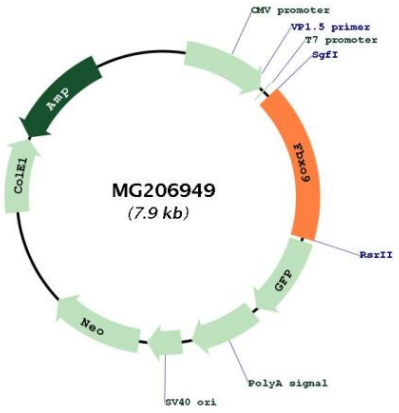
RefSeq ORF: 1310 bp

Locus ID: 71538

Cytogenetics: 9 E1

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 MG206949