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Product datasheet for RR214866

Fbxo9 (NM_001011998) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo9 (NM_001011998) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RR214866 representing NM_001011998
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGCGGAGGAAGATTGTCATTCTGATGCTGTCAGAGTAGGCGATGAAGGACATGAGAGTCCGG
CTGAGAGAGACCTGCAGGCGCAGCTCCAGATGTTCAGAGCTCAGTGGATGTTTGAACTTACCCCAGGCGT
AGGTTCCAGTAATGTGGAAAGCCGGCCTTGCAGAGCAGGGAGAAGCTCTATACTGAAAGCAGCTGCAGAC
AAAGGAAGACAAGAATTGGCAAAGGAGGAAAAGGCTCGAGAACTCTTCCTGAAGGCAGTAGAGGAAGAAC
AAAATGGAGCTCTCTATGAAGCCATCAAGTTCTACCGTAGGGCTATGCAGCTAGTACCTGATATTGAGTT
CAAGATCACTTATACCCGGTCTCCAGATGGCGATGGCGTTGGAAGCAGCTACATCGAAGATAATGAGGAC
GCCAGCAAGATGGCCGATCTCCTGTCGTACTTCCAGCAGCAGCTCACATTTCAGGAGTCTGTGCTCAAAC
TCTGTCAGCCTGAGCTTGAGACCAGTCAGACTCACATATCAGTCCTGCCTATGGAGGTGCTGATGTACAT
CTTCCGATGGGTGGTGTCAAGTGACTTGGACCTCAGATCGTTAGAGCAGTTGTCACTGGTGTGCAGAGGA
TTCTATATCTGTGCCAGAGACCCTGAAATATGGCGTCTGGCTTGCTTGAAAGTGTGGGGCAGAAGCTGTA
TGAAACTTGTCCCATTCTCATCCTGGAGAGAGATGTTTCTAGAACGGCCTCGTGTTCGGTTTGACGGCGT
GTACATCAGTAAAACCACATATATTCGCCAGGGAGAGCAGTCTCTTGATGGTTTCTATAGAGCCTGGCAC
CAAGTGGAATATTACAGATACATAAGATTCTTTCCTGATGGCCATGTGATGATGTTGACAACCCCTGAGG
AGCCTCCATCCATTGTTCCCCGTTTAAGAACCAGGAACACCAGAACGGATGCAATTCTGCTGGGTCATTA
TCGCTTGTCACAAGATGCAGACAATCAGACCAAAGTATTTGCTGTGATAACTAAGAAAAAAGAAGAAAAG
CCACTTGACCATAAGTACAGGTATTTTCGCCGTGTTCCTGTCCAAGAGGCAGATCACAACTTTCATGTGG
GGCTGCAGCTGTGCTCCAGTGGCCACCAGAGGTTCAACAAACTCATCTGGATCCACCACTCTTGTCACAT
CACTTACAGATCGACTGGTGAGACTGCAGTGAGTGCTTTTGATATTGACAAGATGTACACCCCCTTGTTC
TTCGCCAGAGTGAGAAGCTACACGGCGTTCTCCGAGAGGCCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

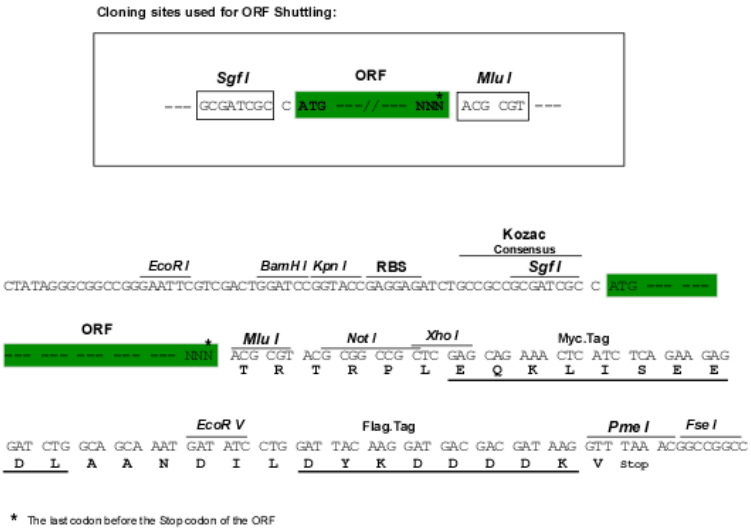
>RR214866 representing NM_001011998
Red=Cloning site Green=Tags(s)

MAEAEEDCHSDAVRVGDEGHESPAERDLQAQLQMFRAQWMFELTPGVGSSNVESRPCRAGRSSILKAAAD
KGRQELAKEEKARELFLKAVEEEQNGALYEAIKFYRRAMQLVPDIEFKITYTRSPDGDGVGSSYIEDNED
ASKMADLLSYFQQQLTFQESVLKLCQPELETSQTHISVLPMEVLMYIFRWVVSSDLDLRSLEQLSLVCRG
FYICARDPEIWRLACLKVWGRSCMKLVPFSSWREMFLERPRVRFDGVYISKTTYIRQGEQSLDGFYRAWH
QVEYYRYIRFFPDGHVMMLTTPEEPPSIVPRLRTRNTRTDAILLGHYRLSQDADNQTKVFAVITKKKEEK
PLDHKYRYFRRVPVQEADHNFHVGLQLCSSGHQRFNKLIWIHHSCHITYRSTGETAVSAFDIDKMYTPLF
FARVRSYTAFSERPL

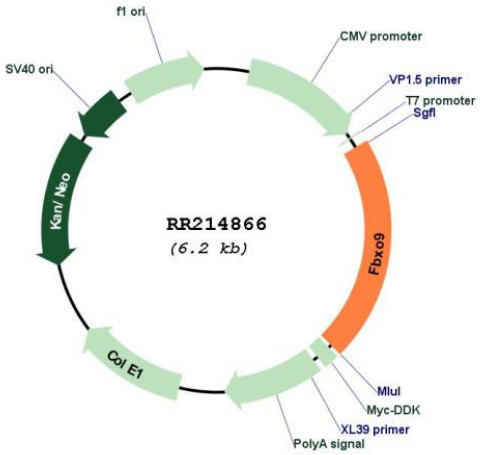
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001011998
ORF Size:	1305 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_001011998.1, NP_001011998.1
RefSeq Size:	2155 bp
RefSeq ORF:	1308 bp
Locus ID:	300849
UniProt ID:	Q5U2X1
Cytogenetics:	8q31
MW:	50.7 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]