

## Product datasheet for **RN214866**

### **Fbxo9 (NM\_001011998) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fbxo9 (NM\_001011998) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fbxo9  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214866 representing NM\_001011998  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGAAGCGGAGGAAGATTGTCATTCTGATGCTGTCAGAGTAGGCGATGAAGGACATGAGAGTCCGG  
CTGAGAGAGACCTGCAGGCGCAGCTCCAGATGTTTCAGAGCTCAGTGGATGTTTGAACCTACCCAGGCGT  
AGGTTCCAGTAATGTGGAAAGCCGGCCTTCGAGAGCAGGAGAAGCTCTATACTGAAAGCAGCTGCAGAC  
AAAGGAAGACAAGAATTGGCAAAGGAGGAAAAGGCTCGAGAACTCTTCTGAAGGCAGTAGAGGAAGAAC  
AAAATGGAGCTCTCTATGAAGCCATCAAGTTCTACCGTAGGGCTATGCAGCTAGTACCTGATATTGAGTT  
CAAGATCACTTATACCCGGTCTCCAGATGGCGATGGCGTTGGAAGCAGCTACATCGAAGATAATGAGGAC  
GCCAGCAAGATGGCCGATCTCCTGTCGACTTCCAGCAGCAGCTCACATTCAGGAGTCTGTGCTCAAAC  
TCTGTCAGCCTGAGCTTGAGACCAGTCAGACTCACATATCAGTCTGCCTATGGAGGTGCTGATGTACAT  
CTTCCGATGGGTGGTGTCAAGTGACTTGGACCTCAGATCGTTAGAGCAGTTGCTACTGGTGTGCAGAGGA  
TTCTATATCTGTGCCAGAGACCCTGAAATATGGCGTCTGGCTTGCTTGAAGTGTGGGCAGAAGCTGTA  
TGAAACTTGTCCTTCTCATCCTGGAGAGAGATGTTTCTAGAACGGCCTCGTGTTCGGTTTGACGCGCT  
GTACATCAGTAAAACCACATATATTCGCCAGGGAGAGCAGTCTCTTGATGGTTTCTATAGAGCCTGGCAC  
CAAGTGGAAATATTACAGATACATAAGATTCTTTCTGATGGCCATGTGATGATGTTGACAACCCCTGAGG  
AGCCTCCATCCATTGTTCCCGTTAAGAACCAGGAACACCAGAACGGATGCAATTCTGCTGGGTCAATTA  
TCGCTTGTACAAGATGCAGACAATCAGACCAAAGTATTTGCTGTGATACTAAGAAAAAGAAAAAG  
CCACTTGACCATAAGTACAGGTATTTTCGCCGTGTTCTGTTCCAAGAGGCAGATCACAACCTTTCATGTGG  
GGCTGCAGCTGTGCTCCAGTGGCCACCAGAGGTTCAACAACTCATCTGGATCCACCCTTGTGCACAT  
CACTTACAGATCGACTGGTGAGACTGCAGTGAGTGCTTTTGATATTGACAAGATGTACACCCCTTGTTT  
TTCGCCAGAGTGAGAAGCTACACGGCTTCTCCGAGAGGCCTCTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001011998
<b>Insert Size:</b>	1308 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001011998.1</a></u> , <u><a href="#">NP_001011998.1</a></u>
<b>RefSeq Size:</b>	2155 bp
<b>RefSeq ORF:</b>	1308 bp
<b>Locus ID:</b>	300849
<b>UniProt ID:</b>	<u><a href="#">Q5U2X1</a></u>
<b>Cytogenetics:</b>	8q31
<b>Gene Summary:</b>	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]