

Product datasheet for **RR211901**

Fbxo7 (NM_001012222) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo7 (NM_001012222) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR211901 representing NM_001012222
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGCTGCGCTGCGGCTTCAAAGCGGACCCAGCCGCTCGAGGTGCCGGAGTCGGAGCCGACGCTCG
 GGCAGCTGCGCGCACCTCATCCAGGACTGCTGCCACGTTGGGGTTCAGTTCCTGATACCCGATTTC
 AATTACATTGAACAACAAGGATGCCCTCACTGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTCT
 GGGGACTTGATATGTTTGGTTCTTGAAGATGAAATGCCGGCACCTAACTACCTTCATCTACAGATTCAG
 AGCATTCTCTCCAGAATAATGACCAACCTCTTTGGCTGCCACCTCAAGCCAGGCTAACATCCAGA
 TGAACAAGGGAGTGATTCATCCACGGACAGGTCACCAATATGATGCCTGGACCGATGACAGTATGGAA
 GGACCTAGTCACAGTGTGAAGCTGTGCAATTCAGGACGCCATGAGTGTGAAGAGGCTTCTGGTTCC
 ATCCACTGGAGCCAATGCTCTGCAGTGAACAGAGGACGGCAGGTGCCACATCCCTAGAGGCCCTGTA
 CCAGTCAGCCGGCTGCTCCACCGTCAGTGATGCCTTGATAGTGTGGTGCATCTCCTTATGCTTGAGTCG
 GGCTACATACCTCAGGGGACTGAAGCCAAAGCAGCATCCATGCCTGAGAAATGGAAGTCAAGTGGCGTAT
 ACAAGCTCCAGTACACACATCCTCTGTGAGGGCGGCTCTGCCGTGCTTACCTGTGTACCTTTGGGAAA
 GCTCATCATGATAAACGCTACAATAAAAGTCAACGGTGGGATTAATAATGTGAAGTCAAGTGCAGCTGAAG
 CCAGGAGCCTACGTTCCGAGAGCAGAACCAGGGGAAAAGTGCAGCTAAAGTGTACAAAGATCTTAAGAAGC
 TCTCTCGTCTCTCAAAGACCAGCTGGTGTACCCTCTTCTGGCTTTCACACGACAAGTGTGAACCTCCC
 AGATGTGTTTGGGCTGGTGTCCCTTCCACTGGAGCTGAACTACGCATCTTCCGACTTCTGGATGTTTAT
 TCCGCTGGCTCTGTCTGCAGTCTGCCATGACCTCCTCATTGCATCAAATGACCCACTGCTGTGGAGGT
 GCTTGTATCTGCGGGATTTTCGAGACAGTACTATCAGAGGTCCTGACACAGATTGGAAGAATTGTACAG
 AAAGAAGCACATCCAAAGAAAAGAAGCCAGAGGATGCGGCATGTGATGTACCTACCGTCAGTCCACCCT
 ATCCCATTCTGCCCATTTCCCGTCTACCCAGGCCCTACCTTCCCACCACGCTGCTTCTCCAGGAATCA
 TTGGTGGTGAATATGATGAGAGGCCAATATTGCCTAGTGTGGGGACCCAGTCACCTCACTCATCCCAAG
 GCCTGGGAGCCTCCTAGCCAGTCCGTCAGTCAGACCAGTCTTTGATCCTGTTGGCCACTTCCAGGA
 TCTAACTCCCTTACCAGGAAGAGCTAGCCCCAACACAGATTTCCCTCAGACCCGGCAGGGTCCGGT
 CAGCTGACAACCGGCTACCATACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211901 representing NM_001012222
 Red=Cloning site Green=Tags(s)

MKLRVRLQKRTQPLEVPESEPTLQQLRAHLIQDLLPTLGFSSDTRFAITLNNKDALTGDEETLASYGIVS
 GDLIICLVLEDEMPAPNLPSSDSEHSSLQNDQPPLAATSSQANIPDEQGSSSHQVQYDAWTDSSME
 GPSHSAEAVSIQDAMSVEEASGFHLEPMLCSETEDGQVPHSLEALYQSAGCSTVSDALIVLVHLLMLES
 GYIPQGTAKAASMPKWKSSGVYKLYTHPLCEGGSVLTCPVPLGKLIMINATIKVNGGKKNVSVQLK
 PGAYVRRAPGESAAKVYKDLKKLSRLFKDQLVYPLLAFTQVNLNLPDVFGLVVLPLELKLRIFRLLDVH
 SVLALSAVCHDLLIASNDPLLRCLYLRFDRDSTIRGPDTDWKELYRKKHIQRKEAQRMRHVMYLPVHP
 IPFCPIPVYPRPYLPTLLPPGIIGGEYDERPILPSVGDVPTSLIPRPGEPSSQFRPVRPRFDPVGPLPG
 SNSLLPGRASPNNRPFPRPGRGRSADNRLPYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

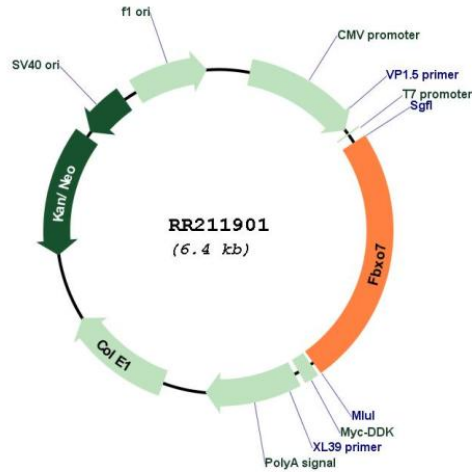
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001012222

ORF Size: 1566 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_001012222.1](#), [NP_001012222.1](#)

RefSeq Size: 1819 bp

RefSeq ORF: 1569 bp

Locus ID: 366854

UniProt ID: [Q68FS3](#)

Cytogenetics: 7q13

MW: 57.6 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 target proteins. Recognizes BIRC2 and DLGAP5. Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination (By similarity). [UniProtKB/Swiss-Prot Function]