

## Product datasheet for **MR208381**

### **Fbxo7 (NM\_153195) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fbxo7 (NM_153195) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo7
Synonyms:	2410015K21Rik; A230052G17Rik; AI117679; AW260462; C85118
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208381 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTGCGCTGCGGCTTCAGAAGCGGACCCAGCCGCTCGAGGTGCCGGAGTCGGAGCCAACGCTCG  
 GGCAGCTGCGCGCACCTCAGCCAGGTCTGCTGCCACGTTGGGGTTCAGTTCGATACCCGATTTC  
 AATTACATTGAACAACAAGGATGCCCTCACTGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTCT  
 GGGGACTTGATATGTTTGGTTCTTGAAGATGACATGCCGGCACCTAACTACCTTCATCTACAGATACAG  
 AGCATTCTCACTCCAGGATAATGACCAACCTTCTTGGCTGCCACCCCAAGTCAGACTAACATCCAGAG  
 TGAACAAGGGACTGATTCATCCCAAGGACAGGCCACCCATTTGATGCCTGGACTGATGACAGTATGGAA  
 GGGCTAGTCAAATGTTGAAGCTGAGTCAATTCAGGATGCCATGAGTATGGAAGAGTTTCTGGTTTCC  
 ATCCATTGGAACCAATGCTCTGTAATGAAACAGAGGATGGCAGGTACCACATTCTTAGAGACCCTGTA  
 CCAGTCAGCTGGCTGCTCAACATCAGTATGCCTTGATAGTGTGGTGCATCTCCTGATGCTCGAGTCA  
 GGTACATTCTCAGGGAAGTCAAACAAAGCAGTGACAATGCCTGAGAATTGGAAGTCAAGTGGTGTAT  
 ACAAACGTCAGTACACACATCCTCTCTGCGAGGGCGGCTTTGCCGTGCTTACCTGTGTGCCTTTGGGAAA  
 CTTAATCATTATAAATGCTACAATAAAAGTCAACGGTGGGATAAAAACGTGAAGTCAGTGCAGCTGCAG  
 CCAGGATCCTACGTTGCTGCTGGAGTAGAACAGGGGAAAGCGCAGCCAAAGTGTACAAAGATCTTAAGA  
 AGCTCTCTCGTCTCTTCAAAGACCAGCTGGTGTACCCTCTTCTGGCTTTCACACGGCAAGTACTGAACCT  
 TCCAGATGTGTTGGGCTGGTTGCCTTCCACTGGAGTGAAGTACGCATCTCCGACTTTTGGATGTT  
 CATTCTGCTGGCCCTGTCTGCAGTCTGTGCATGACCTCCTCATTGCGTCAAATGACCCACTGCTGTGGA  
 GGTGTTGTATCTGCGGATTTTCGAGATGGCACTGTGACAGGTCCTGACACAGACTGGAAGAATTGTA  
 TAGAAAGAAGCACATACAAAGAAAAGAGGCTCAGAGGATGCGGCATGCAATGTTCTACCATCAGCCAC  
 CCTATCCATTTTGTCCATTCCCGTCTACCCAGGGCCTACCTCCACCTCGTGTCTCCTCCAGGAA  
 TCATTGGTGGTGAATATGATGAGAGGCCGATACTGCCTAGTGTGGGGACCCAGTCACCTCACTTATCCC  
 AAGGCCGGGAGCTTCTGGTCACTCCGTCCTCAGACCAGTCTTGGACCCTGTTGACCCACTTCCA  
 GGACCTCACTCCCTTGTCCAGGAAGAGCTATCCCAACAACAGATTTCCCTTACAGCCCGCAGGGGTA  
 GGTGAGCTGACAGCCGGCTGCCATTCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208381 protein sequence  
 Red=Cloning site Green=Tags(s)

MKLRVRLQKRTQPLEVPESEPTLGQLRAHLSQVLLPTLGFSSDTRFAITLNNKDALTGDEETLASYGIVS  
 GDLIICLVLEDDMPAPNLPSSDTEHSSLQDNDQPSLAATPSQTNIPDEQGTDSQQAATPFDAWDDSM  
 GPSQNVEAESIQDAMSMEEVSGFHLEPMLCNETEDGQVPHSLETLYQSAGCSNISDALIVLVHLLMES  
 GYIPQGTETKAVTMPENWKSSGVYKLYTHPLCEGGFAVLTCPVPLGNLIIINATIKVNGGKIKVSVQLQ  
 PGSYVAAGVEPGESAAYKDLKLSRLFKDQLVYPLLAFTQVNLNLPDVFGLVPLLELKLRIFRLLDV  
 HSVLALSAVCHDLLIASNDPLLWRCLYLRDFRDGTVRGPDTDWKELYRKKHIQRKEAQRMRHAMFLPSAH  
 PIPFCPIPVPYPRAYLPTSLPPGIIGGEYDERPILPSVGDVPTSLIPRPGELPGQFRPLRPRFDPVDPLP  
 GPHSLLPGRAIPNNRFPFRPGRGRSADSRLPFL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_153195

**ORF Size:** 1572 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\\_153195.1](#)

**RefSeq Size:** 1886 bp

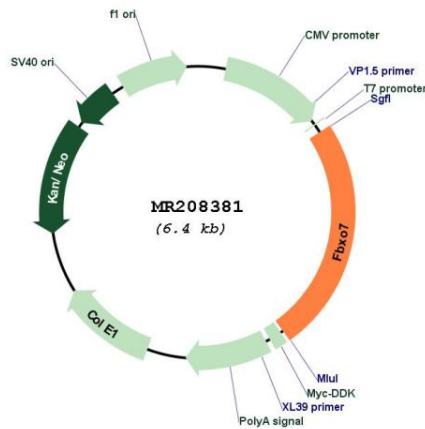
**RefSeq ORF:** 1572 bp

**Locus ID:** 69754

**UniProt ID:** [Q3U7U3](#)

<b>Cytogenetics:</b>	10 C1
<b>MW:</b>	57.6 kDa
<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 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]

**Product images:**



Circular map for MR208381