

## **Product datasheet for MR218428**

## Fbxo6 (NM\_001163706) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Fbxo6 (NM\_001163706) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Fbxo6

Synonyms: AA408845; FBG2; Fbx6b; Fbxo6b

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR218428 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGTCCACATCAACGAGCTGCCAGAGAACATTCTCCTGGAGCTGTTCATCCATATCCCGGCCCCACAGC
TGCTGCGCAACTGCCGCCTGGTCTGCCGCCTCTGGCGAGACCTCATCGATGTGGTGTCCCTATGGAAGCG
CAAGAGTCTTCGAGAGGGCTTCTTCACCAAAGACCGGTGCGAGCCCGTGGAAGACTGGAAGGTCTTCTAT
ATCCTGTGCAGCCTGCAGAGGAACCTCCTTCGGAACCCGTGTGCTGAAGAGACCTGAGCTCATGGCGGA
TAGACTCCAACGGAGGGGATCGCTGGAAGGTGGAGCCCCTGGGAGCTGTGGCACAAGCTTTCCTGA
CAACAAGGTCAAGAAGTATTTTGTCACCTCTTTTGAGATGTGCCTCAAATCCCAGATGGTGGACCTCAAA
GCTGAGGGCTACTGCGAGGAGCTGATGGACACCTTTCGGCCTGACATTGTGGTTAAGGACTGGGTTGCCC
CCAGAGCAGACTGTGGCTCACCTATCAACTCCGGGTACAGCTGGCCTCTGCGGACTACATTGTCTTGGC
CTCTTTTGAGCCTCCACCTGTGACATTCCAACAGTGGAATGATGCCAAATGGCAAGAGATTTCCCACACC
TTCTCTGATTACCCTCCAGGTGTCCGTCACATCCTTTTTCAACACCGGGGGCCAGGACACTCAGTTCTGGA
AAGGCTGGTACGGCCCCCGTGTCACCAACAGCAGCATCATTATCAGCCACAGGACAGCCAAGAACCCTCC
CCCTGCCAGAACTCTACCGGAAGAAACTGTAGTAATCGGAAGGAGAGCGCGAGCTTCGGACTCCAACACT
CATGAGGGTTTCTTCTGGCAAGGGCTATGGCAAAGGCTAAGGCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR218428 protein sequence

Red=Cloning site Green=Tags(s)

MVHINELPENILLELFIHIPAPQLLRNCRLVCRLWRDLIDVVSLWKRKSLREGFFTKDRCEPVEDWKVFY ILCSLQRNLLRNPCAEENLSSWRIDSNGGDRWKVETLPGSCGTSFPDNKVKKYFVTSFEMCLKSQMVDLK AEGYCEELMDTFRPDIVVKDWVAPRADCGCTYQLRVQLASADYIVLASFEPPPVTFQQWNDAKWQEISHT FSDYPPGVRHILFQHGGQDTQFWKGWYGPRVTNSSIIISHRTAKNPPPARTLPEETVVIGRRRRASDSNT HEGFFWQGLWQRLRR

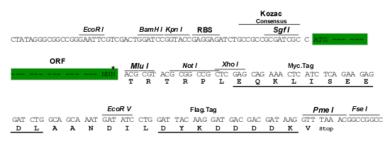
**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001163706

ORF Size: 888 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: <u>NM 001163706.1</u>, <u>NP 001157178.1</u>

 RefSeq Size:
 1205 bp

 RefSeq ORF:
 888 bp

 Locus ID:
 50762

 UniProt ID:
 Q9QZN4

 Cytogenetics:
 4 78.67 cM

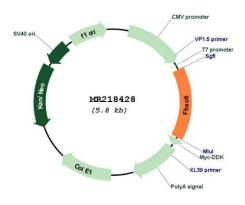
 MW:
 34.5 kDa

**Gene Summary:** Substrate-recognition component of some SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin

ligase complexes. Involved in DNA damage response by specifically recognizing activated CHEK1 (phosphorylated on 'Ser-345'), promoting its ubiquitination and degradation.

Ubiquitination of CHEK1 is required to insure that activated CHEK1 does not accumulate as cells progress through S phase, or when replication forks encounter transient impediments during normal DNA replication (By similarity). Involved in endoplasmic reticulum-associated degradation pathway (ERAD) for misfolded lumenal proteins by recognizing and binding sugar chains on unfolded glycoproteins that are retrotranslocated into the cytosol and promoting their ubiquitination and subsequent degradation. Able to recognize and bind denatured glycoproteins, which are modified with not only high-mannose but also complex-type oligosaccharides. Also recognizes sulfated glycans.[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for MR218428