

Product datasheet for MR205289

Fbxo31 (NM_133765) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fbxo31 (NM_133765) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fbxo31
Synonyms: 1110003O08Rik; 2310046N15Rik; Fbx14; Fbxo14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205289 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACCTGCCACCTCATGACCCCCACGTGGGAGACCCCATGCGTTCAAGCCACTGTTTAGAATCCATC
 TGATGGAGAGGAAGTCGGCTACAGTGGAGTGTATGTACGGCCACAAGGGCCCCACAACGGCCACATCCA
 GATTTTGAAGAGGGACGAGTTCTCCACCAAGTGTAAACCAGACAGATCACCACAGGATGTCCGGTGGGAGG
 CAGGAGGAGTTTCGGACGTGGCTGAGGGAGGAGTGGGGCCGCACGCTGGAAGACATCTTCCACGAGCACA
 TGCAGGAGCTGATTCTGATGAAGTTCATCTACACCAGTCAGTACGACAACCTGCCTGACCTACCGACGGAT
 CTACCTCCCGCCAGCCACCCTGACGACCTCATCAAGCCCGGCCTCTCAAGGGCACCTATGGCAGCCAC
 GGGCTGGAGATTGTGATGCTCAGCTTCCACGGCTCACGCGCCAGGGGCACCAAGATCACGGGCGACCCCA
 ACATCCCCCGGGGCGAGCAGACTGTAGAGATTGACCTGCAGCGCCGCATCCAGCTGCCGGACGTGGAGAA
 CCTCCGAAACTTCAACGAGCTCTCCAGGATTGTCTGGAGGTCCGGGAGCAGGTGCGGCAGGAGCAGGAG
 GCCGGCGAGGGCGCCGCGCCACCCCGGGAGCCTTACGCCAAGGCCGCTGATGGGCCACCTGCTAAGGACG
 GCAAAGAGCCTGGAGGTGGAGCCGAGGCAGCTGAGCAGTCGGCCTCGTCTGGGCAGGGGCGAGCCGTTTGT
 GCTTCTGTGGGTGTGAGCTCGAGGAACGAGGATTACCCCGCACTTGCCGCCTATGTTTCTATGGCACA
 GGCCTCATCGCTGGCCACGGCTTTACCAGCCCTGAGCGCACCCCGGAGTCTTCGCTGTTTGTGATGAGG
 ACCGCTTTGGATTCTGTGGCTGGAATTGAAGTCCTTACGCTTGTACAGCCGAGTCCAGGCCACCTTCCA
 GAACGCCCGCGCCGCTCGCCGAGGCCTTTGACGAGATGCTCAGGAACATCCAGTCTCTCACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205289 protein sequence
Red=Cloning site Green=Tags(s)

MYLPPHPHVGDPMPFRKPLFRIHLMERKSATVECMYGHKGPNGHIQILKRDEFSTKCNQTDHHRMSGGR
 QEEFRTWLREEWGRLEDIFHEHMQELILMKFIYTSQYDNCLTYRRIYLPSPHPDDLKPGLFKGTYGSH
 GLEIVMLSFHGSRARGTKITGDPNIPAGQQTVEIDLQRRIQLPDVENLRNFNELSRIVLEVREQVRQEQE
 AGEGAAPPREPSAKAADGPPAKDGKEPGGGAEEAQSASSGQGPVFLPVGVSRRNEDYPRTRCRLCFYGT
 GLIAGHGFTSPERTPGVFVLFDEDRFGFLWLLELKSFSLYSRVQATFQNAAAPSPQAFDEMLRNIQSLTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133765

ORF Size: 1050 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_133765.2](#), [NP_598526.2](#)

RefSeq Size: 4372 bp

RefSeq ORF: 1524 bp

Locus ID: 76454

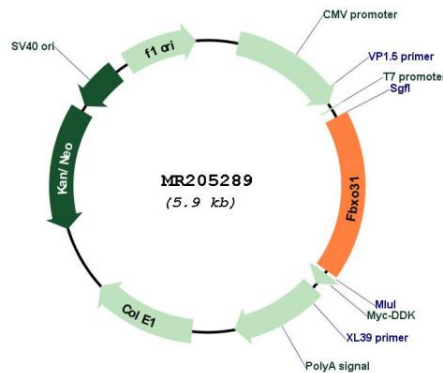
UniProt ID: [Q3TQF0](#)

Cytogenetics: 8 E1

MW: 39.5 kDa

Gene Summary: Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in G1 arrest following DNA damage. Specifically recognizes phosphorylated cyclin-D1 (CCND1), promoting its ubiquitination and degradation by the proteasome, resulting in G1 arrest (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205289