

Product datasheet for **MR222589**

Fbxl5 (NM_178729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxl5 (NM_178729) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxl5
Synonyms:	Fbl4; Fir4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222589 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCCTTCCCCGATGAAGTGGACGTCTTACCGCCCCGACTGGCGGATGAAGCAACTGGTGGGGC
 GCTACTGCGACAAGCTTTCTAAAACCAACTTTTCCAACAACAATGACTTCCGTGCTCTTCTCCAGTCTTT
 ATATGCTACTTTCAAGGAGTTTAAAATGCATGAACAAATTGAAAAAATACATTATCGGTTTACTTCAG
 CAGCGCAGTCAGACCATATATAATGTACTCTGACAATAAGCTCTCCGAGATGCTGAGTCTCTTTGAAA
 AGGGGCTGAAGAATGTCAAGAATGAGTACGAACAGTTAAATTAAGCAAAACAGCTGAAAGAGAGATTGGA
 GGCTTTTACAAGAGATTTTCTTCTCACATGAAAGAGGAAGAAGAGGTTTTTTCAGCCCATGTTAATGGAA
 TATTTTACCTACGAGGAGCTTAAAGATATCAAAAAGAAAGTATTGCACAGCACTGCTCACAGAAGGACA
 CGGCAGAGCTCCTCAGAGGGCTCAGTCTGTGGAACCAAGCTGAGGAGCGACAGAAAGTTCTCAAGTACTC
 TGTGGATGAGAAGGCAGATACAGAAGCGGAAGTGTGAGAACACTCCACAGGTATAACCCATCTTCTCCT
 GAGGTAATGCTGTCCATTTTCAGTTACCTTAATCCTCAAGAAATGTGTCGGTGTAGTCAAGTCAAGTACTA
 AGTGGTCTCAGCTGGCAAAAACAGGATCTTTGTGGAACATCTTTACCCTGTTTATTGGCAAGAGGTGA
 CTGGTATAGTGGTCTGCCACTGAACCTTGATACTGAGCCTGATGAGGAATGGGTGAGAAATAGGAAAGAT
 GAAAGTCGTGCTTCCAGGAGTGGGATGAAGATGCCGATATAGATGAATCTGAAGAGTCTGCAGAGGAAT
 CGGTTGCTATCAGCATTGCACAAATGAAAAACGTGTACTCCATGGCTTAATTCATAATGTTCTGCCATA
 TGTTGGTACCTCTGTA AAAACTTTAGTGTAGCGTACAGCTCTGCAGTCTCCAGCAAAATGGTTAGGCAG
 ATTTTAGAGCTTTGTCTAACCTGGAACATCTGGATCTTACCCAGACCGACATTTCTGATTCTGCATTTG
 ACAGTTGGTCTTGGCTCGGTTGCTGCCAGAGTCTCGGCATCTTGATCTGTCTGGATGTGAAAAAATCAC
 AGACATGGCTCTAGAGAAGATTTCTAGAGCTCTTGGAGTCTGACATCTCATCAGAGTGGCTTTCTGAAA
 AGTGCAGGCAAGGCTGCTTCAACTCCATGGACAAGTAAAGACATTACCATGCCATCCACCACGCAGTATG
 CCTGTTTGCACAATTTAACTGACAAAGGCATTGGTGAAGAAATAGACAACGAGCACTCTTGGACTGAACC
 TGTGTCTTCTGAAAGTTTGACTTCTCCTTATGTGTGGATGCTAGATGCTGAAGATTTGGCTGATATTGAA
 GATGCTGTAGAGTGGAGACACAGAAATGTTGAGAGTCTCTGTGTGATGGAACAGCCTCCAACCTTGGTT
 GTTCTCATCTGGTTGTTACAGTAAGGACATTGTGGGATTAAGGACTAGTGTCTGTTGGCAGCAGCATTG
 TGCTTCTCCAGCCTTTGCATATTGTGGTATTCTGTTGTACAGGGACAGCTTAAAGAACTATGACT
 AACTCCAGCGACTTCTGCAATGTGTAGAAAAGCATTAAAGGACTACATTGCCAGGGGAAAGACTTAA
 TTTATTTTGGGAGTGAAGAGTCTGACCAAGAGACTGGACGAGTACTTTTGTCTCAGTCTGTCTGGATG
 TTACCAGATCACAGACCATGGTCTCAGGTGGGTGATCAGCCCTAGTTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222589 protein sequence
 Red=Cloning site Green=Tags(s)

MAPFPDEVDFVFTAPHWRMKQLVGRYCDKLSKTNFSNNDFRALLQSLYATFKEFKMHEQIENEYIIGLLQ
 QRSQTIYNVHSDNKLSEMLSLFEKGLKNVKNEYQLNYAKQLKERLEAFTRDFLPHMKEEEVFQPLME
 YFTYEELKDIKKKVIAQHCSQKDTAELLRGLSLWNQAEERQKVLKYSVDEKADTEAEVSEHSTGITHLPP
 EVMLSIFSYLNPQELCRCSQVSTKWSQLAKTGSLLWHLYPVHWARGDWYSGPATELDTPEDEEWRNRKD
 ESRAFQEWDEDADIDSEESAESVAISIAQMEKRVLHGLIHNVLPPYVGTSVKTLVLAAYSSAVSSKMVRQ
 ILELCPNLEHLDLTQTDISDSAFDSWSWLGCCQSLRHLDLGCEKITDMALEKISRALGVLTSHQSGFLK
 SAGKAASTPWTSKDITMPSTTQYACLHNLTDKIGIEIDNEHSWTEPVSSSLTSPYVWMLDAEDLADIE
 DAVEWRHRNVESLCVMETASNFGCSSSGYKDIIVGLRSTVVCWQHQHASPFAFAYCGHSFCCTGTALRMT
 TLPATSAMCRKALRRTTLPRGKDLIYFGSEKSDQETGRVLLFLSLSGCYQITDHGLRWVISPSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178729

ORF Size: 1872 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_178729.1](#), [NM_178729.2](#), [NM_178729.3](#), [NM_178729.4](#), [NP_848844.1](#)

RefSeq Size: 2421 bp

RefSeq ORF: 1872 bp

Locus ID: 242960

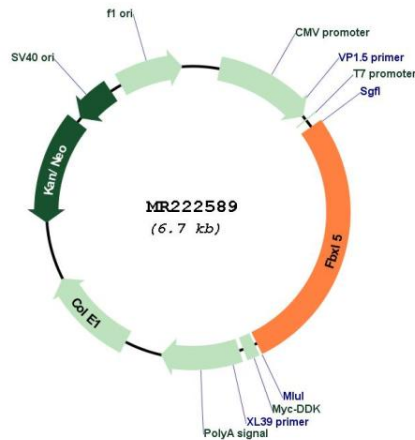
UniProt ID: [Q8C2S5](#)

Cytogenetics: 5 B3

MW: 70.9 kDa

Gene Summary: Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in iron homeostasis by promoting the ubiquitination and subsequent degradation of IREB2/IRP2. Upon high iron and oxygen level, it specifically recognizes and binds IREB2/IRP2, promoting its ubiquitination and degradation by the proteasome. Promotes ubiquitination and subsequent degradation of DCTN1/p150-glued (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222589