

## Product datasheet for **MG210023**

### **Fbx15 (BC047214) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fbx15 (BC047214) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbx15
Synonyms:	Fbl4; Fir4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210023 representing BC047214  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAGAAACAACCAGGAGTTAAAATACGAAATAAAATGGAAGCACCTTGACTGCAGTGTCTGTCGAGCTTT  
CTAAAACCAACTTTTCCAACAACAATGACTTCCGTGCTCTTCTCCAGTCTTTATATGCTACTTTCAAGGA  
GTTTAAAATGCATGAACAATTGAAAATGAATACATTATCGGTTTACTTCAGCAGCGCAGTCAGACCATA  
TATAATGTACTCTGACAATAAGCTCTCCGAGATGCTGAGTCTCTTTGAAAAGGGGCTGAAGAATGTCA  
AGAATGAGTACGAACAGTTAAATATGCAAAACAGCTGAAAGAGAGATTGGAGGCTTTTACAAGAGATTT  
TCTTCTCACATGAAAGAGGAAGAAGAGGTTTTTCAGCCCATGTTAATGGAATATTTTACCTACGAGGAG  
CTTAAAGATATCAAAAAGAAAGTGATTGCACAGCACTGCTCACAGAAGGACACGGCAGAGCTCCTCAGAG  
GGCTCAGTCTGTGGAACCAAGCTGAGGAGCGACAGAAAGTTCTCAAGTACTCTGTGGATGAGAAGGCAGA  
TACAGAAGCGGAAGTGTGAGAACACTCCACAGGTATAACCCATCTTCTCCTGAGGTAATGCTGTCCATT  
TTCAGTTACCTTAATCCTCAAGAATTGTGTCGGTGTAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
AAACAGGATCTTTGTGGAACATCTTTACCCTGTTTATTGGGCAAGAGGTGACTGGTATAGTGGTCTCTGC  
CACTGAACTTGATACTGAGCCTGATGAGGAATGGGTGAGAAAATAGGAAAGATGAAAGTCTGCTTTCCAG  
GAGTGGATGAAGATGCCGATATAGATGAATCTGAAGAGTCTGCAGAGGAATCGGTTGCTATCAGCATTG  
CACAAATGGAAAACGTGTAAGTCCATGGCTTAATTCATAATGTTCTGCCATATGTTGGTACCTCTGTAAA  
AACTTTAGTGTAGCGTACAGCTCTGCAGTCTCCAGCAAAATGGTTAGGCAGATTTTAGAGCTTTGTCTCT  
AACCTGGAACATCTGGATCTTACCCAGACCGACATTTCTGATTCTGCATTTGACAGTTGGTCTTGGCTCG  
GTTGCTGCCAGAGTCTTCGGCATCTTGATCTGTCTGGATGTGAAAAAATCACAGACATGGCTCTAGAGAA  
GATTTCTAGAGCTCTTGAGTTCTGACATCTCATCAGAGTGGCTTTCTGAAAAGTGCAGGCAAGGCTGCT  
TCAACTCCATGGACAAGTAAAGACATTACCATGCCATCCACCACGCAGTATGCCTGTTTGCACAATTTAA  
CTGACAAAGGCATTGGTGAAGAAATAGACAACGAGCACTTTGGACTGAACTGTGTCTTCTGAAAGTTT  
GACTTCTCCTTATGTGTGGATGCTAGATGCTGAAGATTTGGTGTATTGAAGATGCTGTAGAGTGGAGA  
CACAGAAATGTTGAGAGTCTCTGTGTGATGGAACAGCCTCCAACCTTTGGTTGTTCTCTCATCTGGTTGTT  
ACAGTAAGGACATTGTGGGATTAAGGACTAGTGTCTGTTGGCAGCAGCATTGTGCTTCTCCAGCCTTTGC  
ATATTGGTTCATTCTGTTGTACAGGACAGCTTTAAGAACTATGACTACACTCCCAGCGACTTCT  
GCAATGTGTAGAAAAGCATTAAAGGACTACATTGCCAGGGGAAAGACTTAATTTATTTTGGGAGTGAAA  
AGTCTGACCAAGAGACTGGACGAGTACTTTTGTCTCAGTCTGTCTGGATGTTACCAGATCACAGACCA  
TGGTCTCAGGGCTCTGACTCTGGGAGGAGGGCTGCCTTACCTGGAGCACCTGAATCTCTCTGGCTGTCTG  
ACTGTAACCTGGTGCAGGGCTGCAGGATTTGGTCTCAGCGTGTCTTCCCTAAATGACGAATACTTTTACT  
ACTGTGACAACATTAACGGTCTCATGCTGACACCGCCAGTGGATGCCAGAATTTGCAGTGTGGTTTTTCG  
AGCCTGCTGCCGCTCTGGCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210023 representing BC047214  
 Red=Cloning site Green=Tags(s)

MRNNQELKYEIKWKHLDCSVVELSKTNFSNNDFRALLQSLYATFKEFKMHEQIENEYIIGLLQQRSQTI  
 YNVHSDNKLSEMLSLFEKGLKNVKNEYEQLNyakQLKERLEAFTRDFLPHMKEEEVFQPMLMEYFTYEE  
 LKDIIKKVIAQHCsqkDTAELLRGLSLWNQAEERQKVLKYSVDEKADTEAEVSEHSTGITHLPPEVMLSI  
 FSYLNPQELCRCSQVSTKWSQLAKTGSGLWKHLYPVHWARGDWYSGPATELDTPEDEEWVRNRKDEsRAFQ  
 EWDEDADIDESEESAEEsvAISIAQMEKRVLHGLIHNVLpyVGTsvKTLVLAySSAVSSKMVRQILELCP  
 NLEHLDLTQTDISDSAFDSWSWLGCCQSLRHLDLsgCEKITDMALEKISRALGVLtSHQSGFLKSAGKAA  
 STPWTSKIDITMPSTTQYAclHNLTDKGIgEEIDNEHSWTEPVSSesLTSpyVWMLDAEDLADIEDAVEWR  
 HRNVESLcVmetASnFGcSSSGCYskDIvGLRTsvCWQQHCAsPAfAYCGHSfCCTGTALRTMTTLpATS  
 AMCRKALRTTLPRGKDLIYFGSEKSDQETGRVLLFLSLSGCYQITDHGLRALTLGGGLPYLEHLNLSGCL  
 TVTGAGLQDLVSACPSLNDEYFYCDNINGPHADTASGCQNLQCGFRACCRSGE

TRTRPLE - GFP Tag - V

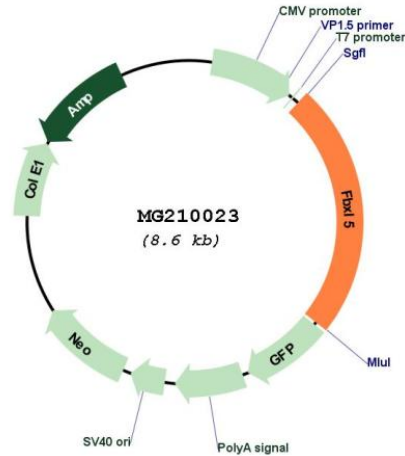
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** BC047214

**ORF Size:** 2052 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:** [BC047214.1](#)

**RefSeq Size:** 2778 bp

RefSeq ORF: 2054 bp

Locus ID: 242960

Cytogenetics: 5 B3

**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]