

Product datasheet for **MG222589**

Fbx15 (NM_178729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbx15 (NM_178729) 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:

>MG222589 representing NM_178729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCCCTTCCCCGATGAAGTGGACGTCTTACCGCCCCGACTGGCGGATGAAGCAACTGGTGGGGC
 GCTACTGCGACAAGCTTTCTAAAACCAACTTTTCCAACAACAATGACTTCCGTGCTCTTCTCCAGCTTT
 ATATGCTACTTTCAAGGAGTTTAAAATGCATGAACAAATTGAAAATGAATACATTATCGGTTTACTTCAG
 CAGCGCAGTCAGACCATATATAATGTACTCTGACAATAAGCTCTCGAGATGCTGAGTCTCTTTGAAA
 AGGGGCTGAAGAATGTCAAGAATGAGTACGAACAGTTAAATTAAGCAAAACAGCTGAAAGAGAGATTGGA
 GGCTTTTACAAGAGATTTTCTTCTCACATGAAAGAGGAAGAAGAGGTTTTTTCAGCCCATGTTAATGGAA
 TATTTTACCTACGAGGAGCTTAAAGATATCAAAAAGAAAGTATTGCACAGCACTGCTCACAGAAGGACA
 CGGCAGAGCTCCTCAGAGGGCTCAGTCTGTGGAACCAAGCTGAGGAGCGACAGAAAGTTCTCAAGTACTC
 TGTGGATGAGAAGGCAGATACAGAAGCGGAAGTGTGAGAACACTCCACAGGTATAACCCATCTTCTCCT
 GAGGTAATGCTGTCCATTTTTCAGTTACCTTAATCCTCAAGAATTGTGTCGGTGTAGTCAAGTCAAGTACTA
 AGTGGTCTCAGCTGGCAAAAACAGGATCTTTGTGGAACATCTTTACCCTGTTTATTGGGCAAGAGGTGA
 CTGGTATAGTGGTCTGCCACTGAACCTTGATACTGAGCCTGATGAGGAATGGGTGAGAAATAGGAAAGAT
 GAAAGTCGTGCTTCCAGGAGTGGGATGAAGATGCCGATATAGATGAATCTGAAGAGTCTGCAGAGGAAT
 CGGTTGCTATCAGCATTGCACAAATGAAAAACGTGTACTCCATGGCTTAATTCATAATGTTCTGCCATA
 TGTTGGTACCTCTGTAACCTTAACTTGTAGCTTACAGCTCTGCAGTCTCCAGCAAAATGGTTAGGCAG
 ATTTTAGAGCTTTGTCTAACCTGGAACATCTGGATCTTACCCAGACCCAGATTTCTGATTCTGCATTTG
 ACAGTTGGTCTTGGCTCGGTTGCTGCCAGAGTCTCGGCATCTTGATCTGTCTGGATGTGAAAAAATCAC
 AGACATGGCTCTAGAGAAGATTTCTAGAGCTCTTGGAGTCTGACATCTCATCAGAGTGGCTTTCTGAAA
 AGTGCAGGCAAGGCTGCTTCAACTCCATGGACAAGTAAAGACATTACCATGCCATCCACCACGCAGTATG
 CCTGTTTGCACAATTTAACTGACAAAGGCATTGGTGAAGAAATAGACAACGAGCACTCTTGGACTGAACC
 TGTGTCTTCTGAAAGTTTACTTCTCTTATGTGTGGATGCTAGATGCTGAAGATTTGGCTGATATTGAA
 GATGCTGTAGAGTGGAGACACAGAAATGTTGAGAGTCTCTGTGTGATGGAACAGCCTCCAACCTTGGTT
 GTTCTCATCTGGTTGTTACAGTAAGGACATTGTGGGATTAAGGACTAGTGTCTGTTGCCAGCAGCATTG
 TGCTTCTCCAGCCTTTGCATATTGTGGTATTCTGTTGTACAGGGACAGCTTAAAGAACTATGACT
 AACTCCAGCAGCTTCTGCAATGTGTAGAAAAGCATTAAAGGACTACATTGCCAGGGGAAAGACTTAA
 TTTATTTGGGAGTGAAGAGTCTGACCAAGAGACTGGACGAGTACTTTTGTCTCAGTCTGTCTGGATG
 TTACCAGATCACAGACCATGGTCTCAGGTGGGTGATCAGCCCTAGTTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222589 representing NM_178729
 Red=Cloning site Green=Tags(s)

MAPFPDEVDFVFTAPHWRMKQLVGRYCDKLSKTNFSNNDFRALLQSLYATFKEFKMHEQIENEYIIGLLQ
 QRSQTIYNVHSDNKLSEMLSLFEKGLKNVKNYEQLNYAKQLKERLEAFTRDFLPHMKEEEEVFQPLME
 YFTYEELKDIKKKVIAQHCSQKDTAELLRGLSLWNQAEERQKVLKYSVDEKADTEAEVSEHSTGITHLPP
 EVMLSIFSYLNPQELCRCSQVSTKWSQLAKTGSLLWHLYPVHWARGDWYSGPATELDTEPDEEWRNRKD
 ESRAFQEWDEDADIDESEESAEEVAISIAQMEKRVLHGLIHNVLPPYVGTGSKTLVLAAYSSAVSSKMVRQ
 ILELCPNLEHLDLTQTDISDSAFDSWSWLGCCQSLRHLDLGCEKITDMALEKISRALGVLTSHQSGFLK
 SAGKAASTPWTSKDIIMPSTTQYACLHNLTDKIGIEIDNEHSWTEPVSSSLTSPYVWMLDAEDLADIE
 DAVEWRHRNVESLCYMETASNFGCSSSGCYSKDIVGLRTSVCWQQHCASPAFAYCGHSFCCTGTALRMT
 TLPATSAMCRKALRRTTLPRGKDLIYFGSEKSDQETGRVLLFLSLSGCYQITDHGLRWVISPSC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_178729.4 , NP_848844.1
RefSeq Size:	2421 bp
RefSeq ORF:	1872 bp
Locus ID:	242960
UniProt ID:	Q8C2S5
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]