

Product datasheet for **MG206738**

Fbxl2 (NM_178624) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxl2 (NM_178624) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fbxl2
Synonyms:	2810423A21Rik; Fbl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206738 representing NM_178624 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTTCTCAAACAGTGATGATGGCCTTATCAACAAGAAGCTACCCAAGGAGCTCCTCTTGAGAATAT
TCTCCTTCTTGGACATCGTAACCTATGCCGATGTGCACAGATCTCCAAGGCCTGGAACATCTTAGCCCT
GGATGGCAGCAACTGGCAACGGGTGGATCTTTTAACTTCCAGACAGATGTAGAGGGCCGAGTGGTGAA
AACATCTCCAAGAGGTGCGGTGGCTTCTTAGAAAGCTCAGCCTGCGTGGCTGCATCGGAGTCGGGGACT
CCTCTTTGAAGACCTTTGCACAGAACTGCCGAACATTGAACATTTAAACCTCAATGGCTGCACGAAAAT
CACTGACAGCACGTGTTACAGCCTTAGCAGATTCTGTTCCAAGCTGAAACACCTGGATCTCACGTCCTGC
GTGTCTGTTACCAACAGCTCTTTAAAGGGCATCAGCGAGGGCTGCCGGAACCTGGAATATCTGAACCTCT
CCTGGTGTGACCAGATCACAAGGAAGGCATTGAGGCGCTGGTGCAGGGGTGCCGGGGTTTGAAAGCCCT
GCTCCTGAGGGGTTGTACACAGTTAGAGGACGAAGCTCTGAAACACATTCAGAACCACTGCCACGAGCTG
GTGAGCCTCAACCTGCAGTCCTGCTCACGCATCACTGATGATGGCGTGGTGCAGATCTGCAGGGGCTGCC
ACCGGCTACAGGCTCTGTGCCTCTCGGTTGTAGCAACCTTACGGATGCATCTCTCACAGCCTTGGGCCT
GAACTGCCCCAGACTACAAGTTTTGGAGGCTGCCCGGTGCTCCCATCTGACCGACGAGGCTTTACACTG
CTAGCTCGGAATTGCCATGAGCTGGAGAAGATGGACCTTGAAGAATGTGTCCTGATTACCGACAGCACCC
TCGTCCAGCTCTCCATCCACTGTCCCAAGCTGCAAGCCCTGAGCTTGTCCCACTGTGAGCTCATCACAGA
TGAGGGGATCCTGCACCTGAGCAGCAGCACCTGTGGGCACGAGAGACTCCGGGTGCTGGAGCTGGACAAC
TGCCTTCTGTACGGACGCCTCGCTGGAGCACCTGGAGAAGTGGCGAGGCTGGAGCGACTGGAGCTTT
ACGACTGCCAGCAGGTCAACCGTGCAGGCATCAAGCGCATGCGGGCTCAGCTTCTCATGTCAAAGTCCA
TGCCTACTTTGCTCCAGTCACCCCTCCACCAGCAGTGGCAGGAAGTGGACATCGACTGTGCAGATGCTGT
GTCATACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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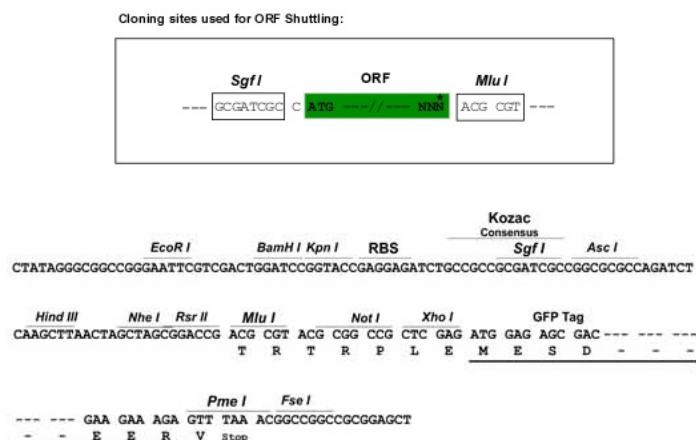
Protein Sequence: >MG206738 representing NM_178624
Red=Cloning site Green=Tags(s)

MVFSNSDDGLINKKLPKELLRLRIFSFLDIVTLRCRAQISKAWNILALDGSNWQVRDLFNFQTDVEGRVVE
 NISKRCGGFLRKLRLRGCIQVGDSSLKTFQNCNRNIEHLNLNGCTKITDSTCYSLSRFCSKLKHLDLTSC
 VSVTNSLSLKGISEGCRNLEYLNLNLSWCDQITKEGIEALVRGCRGLKALLRGCTQLEDEALKHIQNHCHEL
 VSLNLQSCSRITDDGVVQICRGCHRLQALCLSGCSNLTASLTALGLNCPRLQVLEAARCSHLDAGFTL
 LARNCHELEKMDLEEVLITDSTLVQLSIHCPKLQALSLSHCELITDEGILHLSSSTCGHERLRVLELDN
 CLLVTDAASLEHLENCRGLERLELYDCQQVTRAGIKRMRAQLPHVKVHAYFAPVTPPPAVAGSGHRLCRCC
 VIL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_178624

ORF Size: 1269 bp

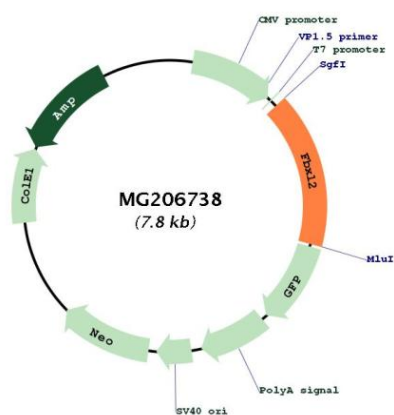
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_178624.6, NP_848739.1</u>
RefSeq Size:	3444 bp
RefSeq ORF:	1272 bp
Locus ID:	72179
UniProt ID:	<u>Q8BH16</u>
Cytogenetics:	9 F3
Gene Summary:	Calcium-activated substrate recognition component of the SCF (SKP1-cullin-F-box protein) E3 ubiquitin-protein ligase complex, SCF(FBXL2), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Unlike many F-box proteins, FBXL2 does not seem to target phosphodegron within its substrates but rather calmodulin-binding motifs and is thereby antagonized by calmodulin. This is the case for the cyclins CCND2 and CCND3 which polyubiquitination and subsequent degradation are inhibited by calmodulin. Through CCND2 and CCND3 degradation induces cell-cycle arrest in G(0). SCF(FBXL2) also mediates PIK3R2 ubiquitination and proteasomal degradation thereby regulating phosphatidylinositol 3-kinase signaling and autophagy (By similarity). PCYT1A monoubiquitination by SCF(FBXL2) and subsequent degradation regulates synthesis of phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (PubMed:21343341).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206738