OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC207719

Fbxl2 (NM_178624) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxl2 (NM_178624) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fbxl2
Synonyms:	2810423A21Rik; Fbl3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC207719 representing NM_178624
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTTTCTCAAACAGTGATGATGGCCTTATCAACAAGAAGCTACCCAAGGAGCTCCTCTTGAGAATAT
TCTCCTTCTTGGACATCGTAACTCTATGCCGATGTGCACAGATCTCCAAGGCCTGGAACATCTTAGCCCT
GGATGGCAGCAACTGGCAACGGGTGGATCTTTTTAACTTCCAGACAGATGTAGAGGGCCGAGTGGTGGAA
AACATCTCCAAGAGGTGCGGTGGCTTCCTTAGAAAGCTCAGCCTGCGTGGCTGCATCGGAGTCGGGGACT
CCTCTTTGAAGACCTTTGCACAGAACTGCCGGAACATTGAACATTTAAACCTCAATGGCTGCACGAAAAT
CACTGACAGCACGTGTTACAGCCTTAGCAGATTCTGTTCCAAGCTGAAACACCTGGATCTCACGTCCTGC
GTGTCTGTTACCAACAGCTCTTTAAAGGGCATCAGCGAGGGCTGCCGGAACCTGGAATATCTGAACCTCT
CCTGGTGTGACCAGATCACAAAGGAAGGCATTGAGGCGCTGGTGCGGGGGTGCCGGGGTTTGAAAGCCCT
GCTCCTGAGGGGTTGTACACAGTTAGAGGACGAAGCTCTGAAACACATTCAGAACCACTGCCACGAGCTG
GTGAGCCTCAACCTGCAGTCCTGCTCACGCATCACTGATGATGGCGTGGTGCAGATCTGCAGGGGCTGCC
ACCGGCTACAGGCTCTGTGCCTCTCGGGTTGTAGCAACCTTACGGATGCATCTCTCACAGCCTTGGGCCT
GAACTGCCCCAGACTACAAGTTTTGGAGGCTGCCCGGTGCTCCCATCTGACCGACGCAGGCTTTACACTG
CTAGCTCGGAATTGCCATGAGCTGGAGAAGATGGACCTTGAAGAATGTGTCCTGATTACCGACAGCACCC
TCGTCCAGCTCTCCATCCACTGTCCCAAGCTGCAAGCCCTGAGCTTGTCCCACTGTGAGCTCATCACAGA
TGAGGGGATCCTGCACCTGAGCAGCAGCACCTGTGGGCACGAGAGACTCCGGGTGCTGGAGCTGGACAAC
TGCCTTCTTGTCACGGACGCCTCGCTGGAGCACCTGGAGAACTGCCGAGGCCTGGAGCGACTGGAGCTTT
ACGACTGCCAGCAGGTCACCCGTGCAGGCATCAAGCGCATGCGGGCTCAGCTTCCTCATGTCAAAGTCCA
TGCCTACTTTGCTCCAGTCACCCCTCCACCAGCAGTGGCAGGAAGTGGACATCGACTGTGCAGATGCTGT
GTCATACTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_178624
Insert Size:	1272 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_178624.6, NP_848739.1
RefSeq Size:	3203 bp
RefSeq ORF:	1272 bp
Locus ID:	72179
UniProt ID:	Q8BH16
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]