

Product datasheet for **MC215746**

Fbxl21 (NM_178674) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxl21 (NM_178674) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fbxl21
Synonyms:	D630045D17Rik; FBL3B; FBXL3B; Psttm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215746 representing NM_178674
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAGGAATAATTTCTCTGCCGTGAATAAGGTTGTCCAGTCGTACCAGTAGTGAAACAGCCCAAAC
 GTGGGCTCTGCTCTTCCCTCCGCCAGACCCATGCGCTCTCTGTCTTCTGGACTGGGGACTTTACCTCA
 CCATGTCAATACAGATCTTTCAGTACCTTCTTTAATAGATCGAGCCCGGGCTTCGTCCGTGTGCAGG
 AGATGGAATGAAGTATCCACATCCCTGATCTTTGGAGGAAGTTTGTGTTGAGCTGAACCAATCAGCAA
 CTTCTTATTTCAAGTCCACTCATCCCGACCTCATTCAACAGATCATCAAAAAGCAGCTGCACATCTTCA
 GTATGTCAGCTTAAAGTTGATAGCAGTACTGAGTCGGCAGAAGCCGCCTGTGATATCCTTTCTCAGCTG
 GTAATTTGTTCTATCCAGACCTGGGATTGATTTCAACAGCCAAACCAAGTTTCATGAATGTGCCCAAGT
 CTCACCTTTGTGTCGGCACTTACGGTCGTGTTGTCAACTCAAAATCGTTATCATCGATTAATTTGAGGA
 CAGCCAGTGGATGACCCTTCCCTGAAGATTCTGTGGCTAACACAGTGACACCCTTCGACTCCTCAAA
 ATGAGTAGCTGTCTCAGTTTCATCTGATGGGATCCTCTGTGTGGCGGACCAGTGTGAGGCCTCCGAG
 AGCTGGCCCTGAATTACTACATTCTGAGCGACGAAATTCCTTGCCTCTCCAGCGAGACTCACGTGAA
 CCTCGAACATCTCCGGATAGACGTTGTGAGTGAAAACCCGGGCAGATCAAGTTCATTCTATTAAGAAA
 CGCAGCTGGGACGCACTGATCAAACTCCCGAGAGTGAACGTCGTCACTTCTTCTGTATGAAG
 AAGAGTTTGAGGCATTCTTCAAAGAGGAAACCCCGTCACTCACCTTTATTTCCGACGTTTCAGTAAGCAG
 AGCCATCTGGCCGGATAGGTCTTAACTGCCGAGGCTGATCGAGTTAGTGGTGTGTGCCAATGGCCTT
 CTGCCCCGGACAGTGAAGTCACTCCGATTTGCCAAGCATTGTAATACTAACCTCCTTGGGCCTGAGTG
 AGTGTGAAGTCACTGCAGCGCATTTGTAGAGTTTGTGAGACTCTGTGGCAGAAGGCTCACCCAGCTGTC
 TATCATGGAGGAAGTTCTGGTCCCTGACGACAGGTACACCCAGATGAAGTCCACTGAAGTCTCTAAG
 CACCTGGGAAGAGTGTGGTTCCGGATGTGATGCCCATCTGG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_178674

Insert Size: 1305 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_178674.4](#), [NP_848789.2](#)

RefSeq Size: 1965 bp

RefSeq ORF: 1305 bp

Locus ID: 213311

UniProt ID: [Q8BFZ4](#)

Cytogenetics: 13 B1

Gene Summary: Substrate-recognition component of the SCF(FBXL21) E3 ubiquitin ligase complex involved in circadian rhythm function. Plays a key role in the maintenance of both the speed and the robustness of the circadian clock oscillation. The SCF(FBXL21) complex mainly acts in the cytosol and mediates ubiquitination of CRY proteins (CRY1 and CRY2), leading to CRY proteins stabilization. The SCF(FBXL21) complex counteracts the activity of the SCF(FBXL3) complex and protects CRY proteins from degradation. Involved in the hypothalamic suprachiasmatic nucleus (SCN) clock regulating temporal organization of the daily activities.[UniProtKB/Swiss-Prot Function]