

## Product datasheet for **MC220581**

### **Fbxl17 (NM\_015794) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fbxl17 (NM_015794) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fbxl17
Synonyms:	6330576B01Rik; AI452053; BB073797; C130023C01Rik; Fbx13; Fbxo13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220581 representing NM\_015794  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCACCTTCTCTCGAAGGAGCCGCTAACGCCCGAGCCAGAAAGAGCCTCGCTGCTGCAGCTGGT  
 GTCGCCGCCGGCCCTCTCCTCAGACTGCCCGCCGGGCTCTGGCCAAGGCGTCCCGCAGCCCGCGG  
 GCCCGGAGCCGGGACTGCTTCTCCGCGGGCCCTGCATGCTCTGCTTTCATCGTGACAGCCCGCGCGG  
 CCCGCTCCGCCGGCTAGAGGAGGAGCCGCGCTCTCGCCACCGCCCGCCCGCGGGAGCGGGGCT  
 ACGCCCGCTCTCCTCGCAGCACTTGGCGCGGCTACGCGGCCCTGGCCCGGAGGACTGCGCCCGCG  
 CGCAGCCCGTCTCCTGCTGTCTCGGCCCGCCCGCCCGCCGCTGCTCGTCCGCCGCTCTGCTGC  
 AAGGAGCTGGGGTGGCCCGCCCGCCCTGGGAGCAGAGGGCCGGAGCCTCTCCTGGCCGGCTGG  
 GGCCCGTGCCTCTCGGACCGCTGGCCCGCGTGCAGCTTCCGGGACCGCCGGCGCCCGCCGCA  
 GGCCGAGCCCGCACGGCCCTCGAGATGGTTTGAAGCGAAAGGGCCGGGGTCCCGCCTGCACCC  
 TGAAGCAGCCCGTGGCGGCTGCGGGGCTGCGGCGGGGGCGCGGCGGGGAGGGCCCGCGGGAG  
 GAGGTGCCTCGCCCGCGGGCCCGCCGATGCCGGCTGCTGCCAGGCCCGGAGCAGCCCGCGCGGCT  
 CTGCCCGCGCCCGCTCTCCGCTCAGAGTGTGCCCCATCGTGGCCCGCCGGGGACACAGTCCGA  
 GCCGGGGCACC GCCCTCTGCTGCCAGCAGCAGCCGAGAGCGGCGCAGCGGACTGTGAGGAGCC  
 CCGAAAACCCCTGCGACTGTACAGGGAGCCGCCCGGAGATCCAGACATCAACCAACTGCCCGCTC  
 CATCCTGCTTAAGATATTTCCAATTTGTCCTGAACGAACGCTGCCTTCTGCATCGTTGGTTGCAAG  
 TACTGGCGTGACCTTTGCTTAGATTTCCAGTTTGGAAAGCAGCTGGACCTTAGTAGTCGTCAGCAGT  
 CTGATGAATTTGGAAAAATTCCTCCAGAAGTCAGAAATAAATTGAGATTAACATTTCTGATTGTCG  
 AAGTCTGTCTGACAGTGGCGTGTGTCTAGCATTTAAGTGTCCCTGGACTTCTTAGGTATACAGCCTAC  
 AGGTGTAAGCAGCTTTCTGACACCTCAATCATTGCGGTGCGTCTCACTGCCCTTACTGCAGAAAGTCC  
 ACGTAGGCAACCAGGACAAGCTACCGATGAAGGACTTAAGCAGCTGGGCTCAAGATGCAGAGAAGTCAA  
 AGACATCCATTTGGCCAGTGTACAAGATCTCAGATGAAGGCATGATTGTCATAGCTAAGAGCTGCCTG  
 AAGTTACAGAGGATATACATGCAGGAAAACAATTAGTGACAGATCAGTCAAGGCATTTGCTGAGC  
 ACTGCTCTGAAGTCCAGTATGTTGGCTTTCATGGGTTGTTCACTTCCAAAGGAGTCACTCACTAAC  
 CAAGCTAAGGAACCTGTCCAGCTTAGACCTCCGTCACATCACTGAAGTGAATGAAACCGTGATGGAA  
 ATCGTCAAGAGGTGCAAAAATCTCAGCTCTCTGAATCTGTCTGAAGTGGATCATAAACGACAGGTGTG  
 TGGAGGTCAATGCAAGGAAGGACAGAAGCTGAAAGAGCTGTACCTGGTGTCTGTAAGATCACTGATTA  
 TGCACTGATAGCCATTGGGCGATACAGCGTGACCATAGAGACTGTGGACGTCGGATGGTGTAAAGAAATC  
 ACAGATCAAGGAGCCACCCTGATTGCACAGAGCAGCAAGTCCCTGAGATACTTGGGCTGATGAGATGTG  
 ACAAAAGTCAATGAATTGACAGTGGAGCAGCTGGTGCAGCAGTACCCGCACATCACCTTACGACCGTTCT  
 GCAGGACTGCAAGAGGACCTTGGAGAGAGCCTACCAGATGGGCTGGACCCCAATATGTCGCTGCCACC  
 TCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_015794

**Insert Size:** 2106 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_015794.1</a></u> , <u><a href="#">NP_056609.1</a></u>
<b>RefSeq Size:</b>	17001 bp
<b>RefSeq ORF:</b>	2106 bp
<b>Locus ID:</b>	50758
<b>UniProt ID:</b>	<u><a href="#">Q9QZN1</a></u>
<b>Cytogenetics:</b>	17 E1.1
<b>Gene Summary:</b>	Substrate-recognition component of the SCF(FBXL17) E3 ubiquitin ligase complex, a key component of a quality control pathway required to ensure functional dimerization of BTB domain-containing proteins (dimerization quality control, DQC). FBXL17 specifically recognizes and binds a conserved degron of non-consecutive residues present at the interface of BTB dimers of aberrant composition: aberrant BTB dimer are then ubiquitinated by the SCF(FBXL17) complex and degraded by the proteasome (By similarity). The ability of the SCF(FBXL17) complex to eliminate compromised BTB dimers is required for the differentiation and survival of neural crest and neuronal cells (By similarity). The SCF(FBXL17) complex mediates ubiquitination and degradation of BACH1 (By similarity). The SCF(FBXL17) complex is also involved in the regulation of the hedgehog/smoothened (Hh) signaling pathway by mediating the ubiquitination and degradation of SUFU, allowing the release of GLI1 from SUFU for proper Hh signal transduction (PubMed:27234298). The SCF(FBXL17) complex mediates ubiquitination and degradation of PRMT1 (PubMed:28883095).[UniProtKB/Swiss-Prot Function]