

Product datasheet for **MC223778**

Sec31b (NM_001033343) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sec31b (NM_001033343) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sec31b
Synonyms: Gm341; Sec31I2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223778 representing NM_001033343
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTTGAAAGAACTTGAGAAGCCAGCTGTCCAAGCGTGGAGCCCGCCAGGCAGTACCTGTGTATC
TGGCCACAGGAACATCTGCTCAGCAACTAGATGCCTCCTTAGCACAAATGCCACCCTGGAAATATTTGA
GATTGATTTTCAGGGACCCTTCTCTGGACTTGAAACACAAAAGGAATCTTTCTGTCTCCAGCAGGTTTCAC
AAGCTAATATGGGGAAGCTTTGGCAGTGGGCTTCTGAAAACTCCGGGGTTATTGCTGGTGGAGGAGACA
ACGGCACACTGACTCTATACAATGTGACCCACGTCCTTTCTTCAGGGAAGGAGCCCTGATTGCCAGAA
ACAGAAGCACACTGGAGCTGTCAGAGCCTTGGACTTTAATCCTTTCCAGGGCAATCTCCTGGCCTCAGGA
GCCAGTACTCTGAGATCTTCAATTTGGGATTTGAACCACTGAGTGTCCAATGACACCTGGACCCAAGT
CACAGAACCCCCAGAGGACATCAAGGCATTGTCTTGGAACTCCAAGTCCAGCACATCCTGGCTTCCGC
TCACCCAGCGGCAAGGCGGTGGTGTGGGATCTCAGAAAGAATGAGCCCATCATTAAAGTCAGCAGCCAC
AGCAGCAGGATGAACTGCTCGGGCTGGCCTGGAACCCAGACATAGCCACTCAGTTAGTGTGTGCTCAG
AAGACGACCAACTCCCGTGATTCAGTTGTGGACCTGCGCTTCGCTTCCGCTTGAAGGTGCTGGA
GAGCCACAGCAGGGCATCTTGTGATGTCTGGAACCCAGGCGGATGCCGAAGTCTGCTTAGCACTGCC
AAAGACAGCCAGATCTTTTGTGGAACCTGTCAAGCAGTGAAGTGGTCTACAAGTGCACACAGAGCA
GCTGGTCTTTGATGTTCAAGTGGTGCCTCAGAGCCCTCCCGTGTCTCTGCTGTCTCCTTCGATGGCTG
GATCAGTTTGTGCTCTGTGATGGTAGGAGCTGGGAAGCCAGCACATGAGGCAGGCTGACAAGGTGCCT
GAGCAGGTGGCCCAAGCATCACTCATCCCTCCCTTGAAGAAGCCTCCAAGTGGATGCGAAGGCCGCGAG
GCGGTTCAATTTGCTTTTGGGGAAAGCTGGTACTTTTGGCCTTCCAGCATCCCTGTCCAGCCAGTGGC
ACAGGCTTGTCCCGCCCTGTCTTCATCAGTCAAGTCATCACAGAGTCAGAAGTCCTGACTCGGTGAGTT
GTGCTGCAGGAGGCTTGGGATCTGAAATCTCCTTAATTATTGTGAGAGCAAGGTTGAGCAAGCATCAC
TGCCATGCGAGAAGATACTCTGGCAGTTCTGAAGGTGACCTTAGAGCAGGATTCCAGGCCGAAGTCTCT
TGGGCTGTTAGGTTACAGCAGAGAGGAACTTCAGAAGAAGGTGGACACTTGCCTGAAGAGTGACTCAAAA
TCACAGGAAAGCCCTCAGCTTGAAGCGGTTGACCTCAAAAGTGCAGAGCACACAGCCCTTGCGCCAGG



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CCTCCAAACACTGCCAAGGAAGCCTCTGAGTCTCAGCCTTCTTTGATGAGCTGATACCTCAGAACAT
 GACTCCCTGGGAGATCCCCACCACAGAAGACACTGATGGACTCCTGAGCCAGGCTCTGCTGCTCGGGAA
 CTGCGTCTGCTGTGGAGCTGTGTTGAAGGAGGAACGCTTTGCTGATGCCATCATCCTGGCTCAGGCTG
 GGGATGCAGAGCTGCTCAAGTGGACACAAGAAGCTACCTAGCCAAGAGGAGAACCAAACCTCCTCGCT
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 GAATGGAGCAGGAGGGAGGCAGGGCACTCACCTCTGAAGCCAGACTCTGCTACGTGTGCTCAGGGAGTGTG
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 GAGCAGGTGACAGTCTCAGCAGGAGCCTGGAGCTCCTTCAGGGCTCTAACAAGATGAGCCAGGTCCTG
 CCACAACACACAGGCTCACCCAGTATGCCAATCTCCTGGCAGCCAGGGCAGCCTAGCCACTGCTATGAG
 CTTCTACCCAGCGACTGTATCCAGCCAGGAGTTCAGCAGCTGAGAGATCGGCTTTTTTCATGCCAAGGT
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 CCAAAGAGACATCGTCATACAGAAGGGGCTCCAGCCTCCTCAGCAGTCCCAGCTCCATCTGTGAGGCC
 GAGGACCACAGCTCAGCCGTATCAGTGTGCCCTTCAGCCCCTCCAGCCCAGCCCTTCTCAGGGCTCA
 AGTGACCACAGGGTCTTAGGCCCCAGGCAATCCTGCCTGGGCATTTGTCCTGGAGTAAGGCCTGCTT
 TATCTCCGCCACAGCTGTCCGGAGGACAAAGTGTCCAGCTGTAACCCAGCTGGATTCTGTGGCGCATG
 GCCTTCTCCTGGCCCCACTCCAGTCATGGCGTCCCAGACTTCATGCAGCCCGGCTCTACCCATCTGCCT
 GAAACTCTAGACTCCTCCCTCTGCCTCCTGTGGGACCACCAGGTCCCAACCCTCTGAGCTCCCAGCTCC
 CAGCCTCCTGTCACTTCTCTGTGGCTCCCCCTCCTGGAGGTCCAAGAGCACCAGTGTCTAGTGCCT
 CCCGAGCTCTGGCATCTTGGCCACTTGTCCAGGACCCAGGACTCCTGGAAAGTTTCTCCAGCCTCCCAG
 GGAAACCTCCAAAGAAAAAGCTGCCTGAGACATTCATGCCTCCAGCACAATTACAGCTCCGCTTAGGA
 GCCTTGGCCCTGAGCCACAACAGGCCCTGCTACCTCAGCCCCTAGTCTCCAGTGGCAGCCCTGCCTCCTC
 TGGAGCCCCAAGAGAATGCAGCCTGCAGCAACTCCAGCCACTGCCTCCTGAGAGGACAGAGAAGGAGCTG
 CCCCCAGAGCATCAGTGGTGAAGGACAGCTTTGAGGCACTCCTTCAGCGCTGTTCCCTGACCGCCACTG
 ACCTTAAAAACAAAAGGAAGCTGGAGGAGGAGCCCGCCGCTAGAATGTCTGTATGAGAAGCTTTGCGA
 GGGGACTCTCGCCCCAGTCTGGTGGGCTCCATGAAGTTGCCCGATGTGTGGATGCCGGAAGCTTT
 GAGCAGGGCTCGCGGTGCATGCGCAGGTGGCGGGCTGCAGCAGCTTCAGCGAGGTATCCAGCTTCATGC
 CTATGCTGAAGGCCGTCTCACCATCGCGACAAGCTGCAGGGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033343
- Insert Size:** 3477 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_001033343.1](#), [NP_001028515.1](#)

RefSeq Size: 3923 bp

RefSeq ORF: 3477 bp

Locus ID: 240667

UniProt ID: [Q3TZ89](#)

Cytogenetics: 19 C3

Gene Summary: As a component of the coat protein complex II (COPII), may function in vesicle budding and cargo export from the endoplasmic reticulum.[UniProtKB/Swiss-Prot Function]