

## Product datasheet for **MC228892**

### Sec23b (NM\_001252543) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec23b (NM_001252543) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec23b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228892 representing NM\_001252543  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCAACGTATCTGGAATTCATTTCAGCAGAATGAAGAACGAGATGGTGTGCGTTTCAGTTGGAACGTGT  
 GGCTTCTAGCCGCTTGAAGCCACAAGAATGGTTGTGCCCTTGCTTGTCTCCTCACTCCTTTAAAGA  
 ACGCCAGACTTACCTCCTGTACAGTATGAACCTGTGCTTTCAGTAGGCCTACCTGCAAAGCTATTCTC  
 AATCCACTTTGTCAAGTGGATTACCGAGCAAACTCTGGGCTGCAATTTCTGTTTTCAAAGAAATCAGT  
 TCCCTCCAGCATATGCAGGCATATCTGAGGTGAATCAACCTGCTGAATTGATGCCCCAGTTCTCCACAAT  
 TGAGTACATGATCCAGAGAGGTGCTCGGTCTCCTCTGATCTTTCTCTATGTGGTTGACACGTGTTTGGAG  
 GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCTCTGAGTCTCCTTCTCCAGATGCCCTGG  
 TTGGTCTCATCACTTTTGGGAGGATGGTGCAGGTTTCATGAGCTAAGCTGTGAAGGAATCTCCAAGAGCTA  
 TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGAGATGTGGGCTGACCAAGTACGCC  
 ATGCTGTGCAGCAAGCCAGACCTGCTCAACCTCAGGAGCAGCCTTTGTTTCCAGCAGATTTCTACAGC  
 CCATTCACAAGATTGACATGAACCTCACAGATCTTCTCGGGGAGCTGCAGAGGGACCCATGGCCAGTAAAC  
 TCAGGGGAAGAGACCACTGCGGTCCACTGGTGTGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGGACT  
 TTCCCAAATACTGGAGCCAGGATCATGTGTTCACTGGCGGGCCCCGACCCAAGGACCTGGCATGGTGG  
 TTGGAGATGAGTTGAAGACTCCTATTCGTTCTGGCAGCAGATTGAGAAAAGATAACGCACGATTCATGAA  
 GAAGGCAACCAAGCATTATGAGATGCTTGTCTAATCGAAGTGTACAAATGGCCACTGCATTGATATTTAT  
 GCTTGTGCCCTTGACCAAACTGGACTTCTGGAGATGAAGTGTGCTTCCAAATCTTACAGGAGGCCACATGG  
 TGATGGGAGATTCTTCAACACTTCTCTTTTCAAGCAGACATTCCAAAGAATTTTAGTAAAGACTTCAA  
 CGGAGATTTTCAAGATGGCGTTTGGTGTACGTTGGATGTAAGACCTCTCGGGAACCTGAAGATTGCAGGA  
 GCCATTGGTCCATGCGTGTCTCTGAATGTGAAAGGGCCATGCGTGTGCAAAAATGAGCTTGGTGTGGTG  
 GCACAAGTCAGTGAAGATCTGTGGCCTGGATCCCTCATCTACTCTTGGCATCTACTTTGAAGTTGTCAA  
 TCAGCACAATGCTCCAGTTCCCCAGGGAGGCGAGAGGTGCCATCCAGTTTGTACACAGTATCAGCATTCC  
 AGCACTCAGAAGCGCATCCGAGTGACCACCATTGCCCGCAATGGGCAGATGCACAGAGTCAGCTGAGGC  
 ACATAGAAGCAGCATTGACCAGGAGGCCGAGCAGTCTGATGGCACGGCTTGGAGTGTCCGCGCAGA  
 GTCAGAGGAGGGCCTGACGTGCTTCGGTGGCTGGATCGGCAACTCATCAGACTGTGTCAGAAGTTTGGG  
 CAGTATAACAAAGAAGACCTACGTCTTTCAGATTGTCAGACTCCTTTTCTGTATCCTCAGTTTATGT  
 TCCATCTGAGAAGATCTCCATTTCTTCAAGTATTTAACAACAGTCTGATGAGTCTCCTATTATAGACA  
 CCATTTTGGCCGGCAGGATCTGACTCAGTCCCTCATTATGATCCAGCCATTCTCTATTCTTACTCCTTC  
 CACGGACCACAGAGCCTGACTCCTGGACAGCAGTAGCATTCTAGCTGCAGAAATCTGCTGATGGATA  
 CTTTCTTCCAAATTTGTCATTTACCTTGGTGGAGACCATAGCCAGTGGCGGAAGGCTGGATACCAGGACAT  
 GCCCGAGTATGAAAACCTCAAGCACCTTCTCAGGCGCCCTGGATGATGCCCAAGAAATCTGCAAGCA  
 CGCTTCCCAATGCCACGTTATATCAACACAGAGCATGGCGGCAGTCAGGCTCGGTTCTGTTGTCTAAAG  
 TTAACCATCTCAGACACACAATAACCTGTATGCCTGGGGCAGGAACTGGAGCGCCCATCTGACAGA  
 CGATGTACGCCTACAGGTGTTTCATGGATCACCTGAAGAAGCTGGCTGTGTCTAGTGCCTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul  
 ACCN: NM\_001252543  
 Insert Size: 2304 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001252543.1</a></u> , <u><a href="#">NP_001239472.1</a></u>
<b>RefSeq Size:</b>	2799 bp
<b>RefSeq ORF:</b>	2304 bp
<b>Locus ID:</b>	27054
<b>UniProt ID:</b>	<u><a href="#">Q9D662</a></u>
<b>Cytogenetics:</b>	2 G1
<b>Gene Summary:</b>	<p>Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules for their transport to the Golgi complex.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 6. Variants 1, 2, 3, 4, 6, and 7 all encode the same isoform (1).</p>