

## Product datasheet for MC223109

### Sec16b (NM\_001159986) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec16b (NM_001159986) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec16b
Synonyms:	Lztr2; Rgpr; Rgpr-p117
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223109 representing NM_001159986 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTTGGGTTCCCAGACACAAGGAAGGACCACGGGACCATCAAGGGATACAAATAGAGGACTTC  
AGAGTGGACATTATAGACCCCGTCTGCATTCTCAGTACAGTGGAGATAAGTACCACCAATGGCAAGATGC  
CCACAAGAAGTCAAAGTACAGCAGGACCTCAGGGATGACCACCAACAGTCTCACTCTGTATCCAGGAGT  
GGGGAGTGGTCCCAGCCTGTGTCTGGTGTGACTACTTGAAGGATCTTATCCCAGTCACTGTACTCAA  
GGTCAGGCTATGGGGACCCCTATCAGAGGTACCACACTCCGACACCGAGGGATGAGTATGCTTATGGAAA  
TTACTACTACCACGGACATCCACAGCTGCTGCCGGAAGAAAGAGTGGCAAGGCAAGGGAGTCTTATATC  
TGGCATGAAGATCATGGAGACCAGAGTACTTCGGCGAGCATCATCGGGAGAAGCACAATGGTACATTTG  
GAGCAAACAGTGATACCCAGTTCGAATTTACCAGTAAGAATCCATACCGAGACAGCCCTGCTTCTGTGTC  
TGGACAGGAACAGCCTGGGGAATTTTCCAGAGAGTGAAGCCCAGAAACAAAAGCCATTGCTGACCAGC  
AAATCCAGCCTTCTCCAGCAGCAGAGTCTGGGCTCAGCTCTAGTAGCTACGAGCTCAGTCAATACATGA  
CAGCTGCCCCGAGGAGTATGAACCTATGGTGTGAGCAGCTTGGAGGCCATTGAGGCTGATGACACCTC  
AGCGACAGTTCCAAAGGCACCTATGAGGTTCTATGTTCCCATGTGTCTGTGAGCTTTGGCCAGGAGGC  
CAGCTAGTGTGTGTCACCCCAACTCCTGCTGATGGACAACCGCCCTCGTTGAAGTGCACAGCATGG  
AGGTTTTACTTAATGATTTTGGAGTACAGGAGGAGATGAGAGCTTTCCAGGGCCCTTATTAGGGAGGA  
CATAACAAGGTGGATATCATGACGTTTTGTGACGAGAAAGCAACGCAGTGTCTCAAATCTGAGACACCA  
GGGAGCAGAGACTCAGCTCTACTTTGGCAACTGCTGGTCTCCTTTGTCGACAGAATGGTCCATGGTGG  
GATCTGACATTGCTGAGCTGCTGATGCAGGACTGCAAGAAGCTGGAGAAGTACAAGAGGCAGCCCTGT  
AGCCAACCTCATCAACCTGACTGACGAGGACTGGCCGGTACTGAGCTCTGGGACTCGTGTCTCCTCACT  
GGGGAGATTCCCCCAATGTGGATACGCCAGCGCAGATCGTGGAGAAATCACAAGCTGCTCTACTACG  
GAAGGAAGAAGGAGGCTTTGGAGTGGGCTATGAAGAACCCTTGTGGGACATGCCTTGTCTAGCCAG  
TAAGATGGACCAAGGACCTACAACCTGGGTCATGAGTGGTTTACCAGTACGCTGGCGCTCAATGACCTT



[View online »](#)

CTGCAGACCCTCTCCAGCTCATGTCCAGGAAGGATTCCACAAGCAGCCACGGTTTGTGGAGACAAACAGT  
 GGGGAGACTGGCGGCCCACTTGGCTGTGATCCTGTCAAATCAGGCTGGAGATACAGAGTTGTACCAGCG  
 AGCGATTGTGAGCATGGGGGATACCCTGGCTGGAAAAGGGCTTGTGGAGGCATCTCACTTCTGCTATCTC  
 ATGGCTCATGTGCCCTTTGGTCACTATACGGTGAAGACAGATCATCTGGCCTTGGTGGCAGTAGCCACA  
 GTCAAGAGTTTATGAAATTTGCAACAATTGAGGCTATCCAGCGGACGAAATCTTCGAGTACTGCCAGAT  
 GCTGGGCCGCCCAATCCTTTCATCCCTCTTTCCAGGTGTATAAGCTCCTCTATGCCTCCCGTCTGGCA  
 GATTATGGCCTGGCATCCAGGCTTGCATTACTGTGAAGCCATTGGTGCAGCTGTCTTGAGCCAGGAAG  
 GGAGCAGCCACCCTGTGCTATTAGCGGAGCTCATCAAGCTCGCAGAGAACTGAAGCTGTGAGATCCTCT  
 GGTTTTAGAAAGACGCCGTGGGGACAGGGACCTGGAACCAGATTGGCTTGTGCAACTGCGGAGGAAGCAC  
 AAGGACCTGGAGCAAAATAGAACAGGAGCCCCGAGAGATCCTGATTGACTCCTTCAGATATTTATGGAG  
 CTGGAGGAACAACAGACTCCCTACCCTGATCTCTCTGGCCATCAAACTACTCAGAAGACTCTGAGTA  
 CAGCTCCACCTTGTGGTCAACAGCAGAGCAGACAAGCCTGACCAATCCCCTCGCACAGCAGTCTTCCCC  
 CTGCAGCGAGATACCTATTCAGGACACATGGGAACCCAGTGCCTCTCTACTCAGTTCCTGCAACCCACT  
 TGGCAGTGACGAGTGGAGCCAGTGGTAGCAGTGTGGCAGTGACGGGGACTCCTGGGGGAAGGTTGGAGA  
 GGATATGTGCGGACACATCCTGCCTTTGGAGAGAACAATGACTCAAGAACCCTGGAAGATCCTGAT  
 GGTCTCGAAGTCAATTCAGTCTTCAGACACCAGCGGCTCCAGGGTTCCAAGTTTTCTGAGGATTCTG  
 CTGCTTACGCCAAGGAGGATGAGGAGGGTCTTCTGATGGAGCAGACAAACCATCTCACCCCGATGCTTC  
 ACAGAAAGGAAAGCTGGGAGATGGGAAGAATACAAAGAGCTCGGGATTCCGGCTGGTTCAGCTGGTTTCGA  
 TCAAAGCTGCCAGCAGTGTGTCCACCTCTGGAGATGAAGACTCCTCGGACAGTTCTGACTCAGAGGAGT  
 CTCCCAGAGCATTTCTCCTCACCATGCGAGCCAGGCCCTCTACCAACACCTCCTCATACCCCATC  
 CCTGCCAGGTGCCAGCACCTTCTCGAGAGGCACAGGTGGGAGTATTCTCCAAGGATCCTCAAACAGTAGT  
 GGAATCGCTGAAGGCATGGGATTGGAGGGTTCTCGGGGACACAGGTGTTTCTTCTGAGTCTACTCCC  
 AGCCTGGTGCCCTGCCTCCTCCGCTACCTTGAAGGTGCTGTTCTCTACAATCCATCTCAGGTCCC  
 TCAGCTTCCCAGTCTAGTAGCCTGAACCGGCCAAACCGCCTAGCCCAGCGCCGTACCCAACCCAGCCA  
 TGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001159986

**Insert Size:**

3156 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\\_001159986.1](#), [NP\\_001153458.1](#)

RefSeq Size: 4364 bp

RefSeq ORF: 3156 bp

Locus ID: 89867

UniProt ID: [Q91XT4](#)

Cytogenetics: 1 H1

**Gene Summary:** Plays a role in the organization of the endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER). Required for secretory cargo traffic from the endoplasmic reticulum to the Golgi apparatus. Involved in peroxisome biogenesis. Regulates the transport of peroxisomal biogenesis factors PEX3 and PEX16 from the ER to peroxisomes. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.