

## Product datasheet for **MR231105**

### Sec23b (NM\_001252545) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec23b (NM_001252545) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sec23b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR231105 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAACGTATCTGGAATTCATTTCAGCAGAATGAAGAACGAGATGGTGTGCGTTTCAGTTGGAACGTGT  
 GGCTTCTAGCCGCTTGAAGCCACAAGAATGGTTGTGCCCTTGCTTGTCTCCTCACTCCTTTAAAGA  
 ACGCCAGACTTACCTCCTGTACAGTATGAACCTGTGCTTTCAGTAGGCCTACCTGCAAAGCTATTCTC  
 AATCCACTTTGTCAAGTGGATTACCGAGCAAACTCTGGGCTGCAATTTCTGTTTTCAAAGAAATCAGT  
 TCCCTCCAGCATATGCAGGCATATCTGAGGTGAATCAACCTGCTGAATTGATGCCCCAGTTCTCCACAAT  
 TGAGTACATGATCCAGAGAGGTGCTCGGTCTCCTCTGATCTTTCTCTATGTGGTTGACACGTGTTTGGAG  
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 TTGGTCTCATCACTTTTGGGAGGATGGTGCAGGTTTCATGAGCTAAGCTGTGAAGGAATCTCCAAGAGCTA  
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 GCTTGTGCCCTTGACCAAACTGGACTTCTGGAGATGAAGTGTGCTCAAAATCTTACAGGAGGCCACATGG  
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 CGGAGATTTGAGAAATGGCGTTTGGTGTACGTTGGATGTAAGACCTCTCGGGAACCTGAAGATTGCAGGA  
 GCCATTGGTCCATGCGTGTCTCTGAATGTGAAAGGGCCATGCGTGTGAGAAAATGAGCTTGGTGTGGTG  
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 ACATAGAAGCAGCATTGACCAGGAGGCCGAGCAGTCTGATGGCACGGCTTGGAGTGTCCGCGCAGA  
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 TTAACCATCTCAGACACACAATAACCTGTATGCCTGGGGCAGGAACTGGAGCGCCCATCCTGACAGA  
 CGATGTCAGCCTACAGGTGTTTCATGGATCACCTGAAGAAGCTGGCTGTGTCTAGTGCCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231105 protein sequence  
 Red=Cloning site Green=Tags(s)

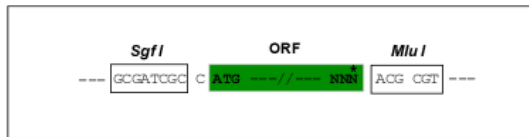
MATYLEFIQQNEERDGVRFSWNVWVSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVLCRSRPTCKAIL  
 NPLCQVDYRAKLWACNFCFQRNQFPAYAGISEVNQPAELMPQFSTIEYMIQRGARSPLIFLYVVDTCLE  
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGEGISKSYVFRGTDLAKQIQEMLGLTKSA  
 MPVQARPAQPQEQPFVSSRFLQPIHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT  
 FPNTGARIMLFTGGPPTQGPVMVGDDELKTPIRSWHDIEKDNARFMKKATKHYEMLANRTATNGHCIDIY  
 ACALDQTGLLEMCCPNLTGGHMVMGDSFNTSLFKQTFQRFISKDFNGDFRMAFGATLDVKTSTRELKIAG  
 AIGPCVSLNVKGPCVSENELGVGGTSQWKICGLDPSSTLGIYFEVVNQHNAPVPQGGRAIQFVTQYQHS  
 STQKRIRVTTIARNWADAQSQLRHIEAAFDQEAALVLMARLGVFRAESEEGPDVLRWLDRLIRLCQKFG  
 QYNKEDPTSFRLSDSFLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIQPILYSYSF  
 HGPPPEVLLDSSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA  
 RFPMPRYINTEHGGSQARFLLSKVNPSTHNNLYAWGQETGAPILTDDVSLQVFMHLLKLAVSSAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001252545

**ORF Size:** 2301 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001252545.1](#), [NP\\_001239474.1](#)

**RefSeq Size:** 2781 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 27054

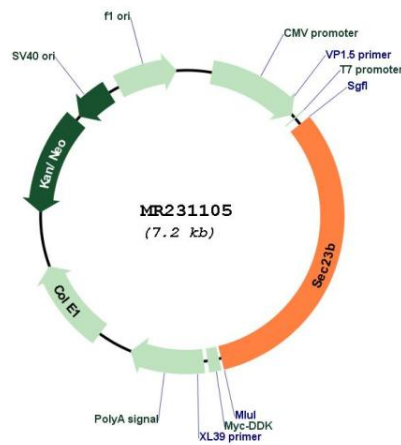
**UniProt ID:** [Q9D662](#)

**Cytogenetics:** 2 G1

**MW:** 86.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR231105