

Product datasheet for **MR210545**

Sec23b (NM_019787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec23b (NM_019787) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sec23b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210545 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAACGTATCTGGAATTCATTACAGCAGAATGAAGAACGAGATGGTGTGCGTTTCAGTTGGAACGTGT
GGCCTTCTAGCCGCTTGAAGCCACAAGAATGGTTGTGCCCTTGCTTGTCTCCTCACTCCTTTAAAGA
ACGCCACGACTTACCTCCTGTACAGTATGAACCTGTGCTTTCAGTAGGCCTACCTGCAAAGCTATTCTC
AATCCACTTTGTCAAGTGGATTACCGAGCAAACTCTGGGCTGCAATTTCTGTTTTCAAAGAAATCAGT
TCCCTCCAGCATATGCAGGCATATCTGAGGTGAATCAACCTGCTGAATTGATGCCCCAGTTCTCCACAAT
TGAGTACATGATCCAGAGAGGTGCTCGGTCTCCTCTGATCTTTCTCTATGTGGTTGACACGTGTTTGGAG
GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCTCTGAGTCTCCTTCTCCAGATGCCCTGG
TTGGTCTCATCACTTTTGGGAGGATGGTGCAGGTTACAGACTAAGCTGTGAAGGAATCTCCAAGAGCTA
TGCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGAGATGTGGGCTGACCAAGTACGCC
ATGCCTGTGCAGCAAGCCAGACCTGCTCAACCTCAGGAGCAGCCTTTGTTTCCAGCAGATTTCTACAGC
CCATTCACAAGATTGACATGAACCTCACAGATCTTCTCGGGGAGCTGCAGAGGGACCCATGGCCAGTAAAC
TCAGGGGAAGAGACCACTGCGGTCCACTGGTGTGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGGACT
TTCCCAAATACTGGAGCCAGGATCATGTCTTCACTGGCGGGCCCCGACCCAGGGACCTGGCATGGTGG
TTGGAGATGAGTTGAAGACTCCTATTCGTTCTGGCATGACATTGAGAAAAGATAATGCACGATTCATGAA
GAAGGCAACCAAGCATTATGAGATGCTTGCTAATCGAAGTGTACAAATGGCCACTGCATTGATATTTAT
GCTTGTGCCCTTGACCAAACTGGACTTCTGGAGATGAAGTGTGCTTCCAAATCTTACAGGAGGCCACATGG
TGATGGGAGATTCTTCAACACTTCTCTTTTCAAGCAGACATTCAAAGAATTTTTAGTAAAGACTTCAA
CGGAGATTTGAGAAATGGCGTTTGGTGTACGTTGGATGTAAGAGCCTCTCGGGAACCTGAAGATTGCAGGA
GCCATTGGTCCATGCGTGTCTCTGAATGTGAAAGGGCCATGCGTGTGAGAAAATGAGCTTGGTGTGGTG
GCACAAGTCAGTGAAGATCTGTGGCCTGGATCCCTCATCTACTTGGCATCTACTTTGAAGTTGTCAA
TCAGCACAATGCTCCAGTTCCCCAGGGAGGCGAGAGGTGCCATCCAGTTTGTACACAGTATCAGCATTCC
AGCACTCAGAAGCGCATCCGAGTGACCACCATTGCCCGCAATTGGGCAGATGCACAGAGTCAGCTGAGGC
ACATAGAAGCAGCATTGACCAGGAGGCCGAGCAGTCTGATGGCACGGCTTGGAGTGTCCGCACAGA
GTCAGAGGAGGGCCTGACGTGCTTCGGTGGCTGGATCGGCAACTCATCAGACTGTGTCAGAAGTTTGGG
CAGTATAACAAAGAAGACCCTACGTCTTTCAGATTGTCAGACTCCTTTTCTGTATCCTCAGTTTATGT
TCCATCTGAGAAGATCTCCATTTCTTCAAGTATTTAACAACAGTCTGATGAGTCGCTCCTATTATAGGCA
CCATTTTGCCCGGAGGATCTGACTCAGTCCCTCATTATGATCCAGCCATTCTCTATTCTTACTCCTTC
CACGGACCACCAGAGCCTGTACTCCTGGACAGCAGTAGCATTCTAGCTGACAGAATTCTGCTGATGGATA
CTTTCTTCCAAATTTGTCATTTACCTTGGTGGAGACCATAGCCAGTGGCGGAAGGCTGGATACCAGGACAT
GCCTGAGTATGAAAACCTCAAGCACCTTCTCAGGCGCCCTGGATGATGCCCAAGAAATCTGCAAGCA
CGCTTCCCAATGCCACGTTATATCAACACAGAGCATGGCGGCAGTCAGGCTCGGTTCTGCTGTCTAAAG
TTAACCATCTCAGACACACAATAACCTGTATGCCTGGGGCAGGAACTGGAGCGCCCATCCTGACAGA
CGATGTCAGCCTACAGGTGTTTATGGATCACCTGAAGAAGCTGGCTGTGTCTAGTGCCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210545 protein sequence
 Red=Cloning site Green=Tags(s)

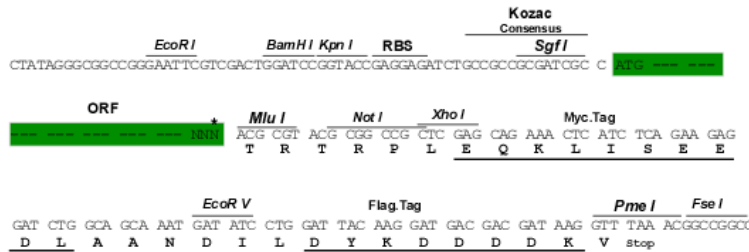
MATYLEFIQQNEERDGVRFSWNVWVSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVLCRSPTCKAIL
 NPLCQVDYRAKLWACNFCFQRNQFPAYAGISEVNQPAELMPQFSTIEYMIQRGARSPLIFLYVVDTCLE
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGISKSYVFRGTDLAKQIQEMLGLTKSA
 MPVQARPAQPQEQPFVSSRFLQPIHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT
 FPNTGARIMLFTGGPPTQGPVMVGDDELKTPIRSWHDIEKDNARFMKKATKHYEMLANRTATNGHCIDIY
 ACALDQTGLLEMCCPNLTGGHMVMGDSFNTSLFKQTFQRFISKDFNGDFRMAFGATLDVKTSTRELKIAG
 AIGPCVSLNVKGPCVSENELGVGGTSQWKICGLDPSSTLGIYFEVVNQHNAPVPQGGRAIQFVTQYQHS
 STQKRIRVTTIARNWADAQSQLRHIEAAFDQEAALVLMARLGVFRTESEEGPDVLRWLDRLIRLCQKFG
 QYNKEDPTSFRLSDSFLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIQPILYSYSF
 HGPPPEVLLDSSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA
 RFPMPRYINTEHGGSQARFLLSKVNPSTHNNLYAWGQETGAPILTDVSLQVFMHLLKLAIVSSAS

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_019787

ORF Size: 2304 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_019787.2](#), [NM_019787.3](#), [NM_019787.4](#), [NP_062761.2](#)

RefSeq Size: 2810 bp

RefSeq ORF: 2304 bp

Locus ID: 27054

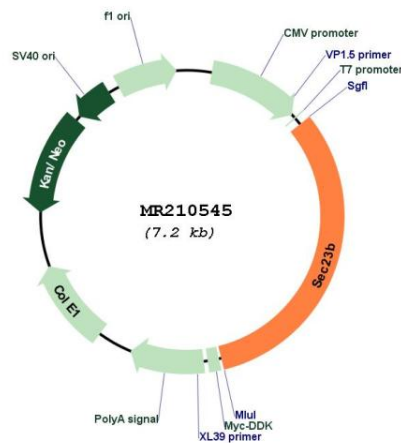
UniProt ID: [Q9D662](#)

Cytogenetics: 2 G1

MW: 86.5 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 MR210545