

Product datasheet for **MG210545**

Sec23b (NM_019787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec23b (NM_019787) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec23b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210545 representing NM_019787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACGTATCTGGAATTCATTTCAGCAGAATGAAGAACGAGATGGTGTGCGTTTCAGTTGGAACGTGT
 GGCTTCTAGCCGCTTGAAGCCACAAGAATGGTTGTGCCCTTGCTTGTCTCCTCACTCCTTTAAAGA
 ACGCCAGACTTACCTCCTGTACAGTATGAACCTGTGCTTTCAGTAGGCCTACCTGCAAAGCTATTCTC
 AATCCACTTTGTCAAGTGGATTACCGAGCAAACTCTGGGCTGCAATTTCTGTTTTCAAAGAAATCAGT
 TCCCTCCAGCATATGCAGGCATATCTGAGGTGAATCAACCTGCTGAATTGATGCCCCAGTTCTCCACAAT
 TGAGTACATGATCCAGAGAGGTGCTCGGTCTCCTCTGATCTTTCTCTATGTGGTTGACACGTGTTTGGAG
 GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCTCTGAGTCTCCTTCTCCAGATGCCCTGG
 TTGGTCTCATCACTTTTGGGAGGATGGTGCAGGTTACAGAGCTAAGCTGTGAAGGAATCTCCAAGAGCTA
 TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGAGATGTGGGCTGACCAAGTACGCC
 ATGCCTGTGCAGCAAGCCAGACCTGCTCAACCTCAGGAGCAGCCTTTGTTTCCAGCAGATTTCTACAGC
 CCATTCACAAGATTGACATGAACCTCACAGATCTTCTCGGGGAGCTGCAGAGGGACCCATGGCCAGTAAAC
 TCAGGGGAAGAGACCACTGCGGTCCACTGGTGTGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGGACT
 TTCCCAAATACTGGAGCCAGGATCATGTGTTCACTGGCGGGCCCCGACCCAGGGACCTGGCATGGTGG
 TTGGAGATGAGTTGAAGACTCCTATTCGTTCTGGCATGACATTGAGAAAAGATAATGCACGATTCATGAA
 GAAGGCAACCAAGCATTATGAGATGCTTGCTAATCGAAGTGTACAAATGGCCACTGCATTGATATTTAT
 GCTTGTGCCCTTGACCAAACTGGACTTCTGGAGATGAAGTGTGCTCAAAATCTTACAGGAGGCCACATGG
 TGATGGGAGATTCTTCAACACTTCTCTTTTCAAGCAGACATTCAAAGAATTTTTAGTAAAGACTTCAA
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 GCCATTGGTCCATGCGTGTCTCTGAATGTGAAAGGGCCATGCGTGTGAGAAAATGAGCTTGGTGTGGTG
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 AGCACTCAGAAGCGCATCCGAGTGACCACCATTGCCCGCAATTGGGCAGATGCACAGAGTCAGCTGAGGC
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 GTCAGAGGAGGGCCTGACGTGCTTCCGGTGGCTGGATCGGCAACTCATCAGACTGTGTCAGAAGTTTGGG
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 CTTTCTTCCAAATGTGATTTACCTTGGTGGAGACCATAGCCAGTGGCGGAAGGCTGGATACCAGGACAT
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 CGCTTCCCAATGCCACGTTATATCAACACAGAGCATGGCGGCAGTCAGGCTCGGTTCTGCTGTCTAAAG
 TTAACCATCTCAGACACACAATAACCTGTATGCCTGGGGCAGGAACTGGAGCGCCCATCCTGACAGA
 CGATGTCAGCCTACAGGTGTTTATGGATCACCTGAAGAAGCTGGCTGTGTCTAGTGCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210545 representing NM_019787
 Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSSWVWPSSRLEATRMVVPLACLITPLKERPDLPVQYEPVLCRSRPTCKAIL
 NPLCQVDYRAKLWACNFCFQRNQFPAYAGISEVNQPAELMPQFSTIEYMIQRGARSPLIFLYVVDTCLE
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGEGISKSYVFRGKDLTAKQIQEMLGLTKSA
 MPVQQAQPAQPQEPFVSSRFLQPIHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT
 FPNTGARIMLFTGGPPTQGPVMVVGDELKTPIRSWHDIEKDNARFMKKATKHYEMLANRTATNGHCIDIY
 ACALDQTGLLEMKCCPNLTGGHMVMGDSFNTSLFKQTFQRFISKDFNGDFRMAFGATLDVKTSRELKIAG
 AIGPCVSLNVKGPCVSENELGVGGTSQWKICGLDPSSTLGIYFEVVNQHNAPVPQGGRGAIQFVTQYQHS
 STQKRIRVTTIARNWADAQSQLRHIEAAFDQEAALVLMARLGVFRTESEEGPDVLRWLDRLIRLCQKFG
 QYNKEDPTSFRLSDSFLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIPIILYSYSF
 HGPPPEVLLDSSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA
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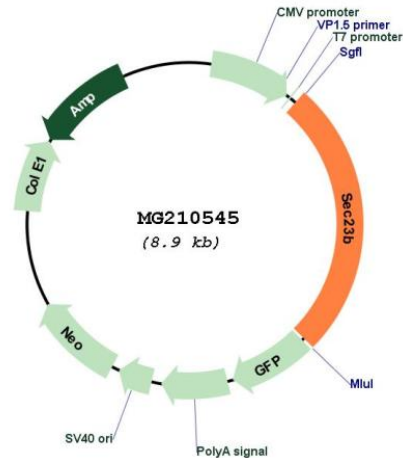
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_019787

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_019787.3](#), [NP_062761.2](#)

RefSeq Size: 2752 bp

RefSeq ORF: 2304 bp

Locus ID: 27054

UniProt ID: [Q9D662](#)

Cytogenetics: 2 G1

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]