

Product datasheet for **MG224942**

Sec22b (NM_011342) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec22b (NM_011342) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec22b
Synonyms:	4930564D15Rik; AA517334; AI480645; C81333; ERS-24; Sec22l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224942 representing NM_011342 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCTGCTGACGATGATCGCCCGTGTGGCGGACGGCCTTCCGCTGGCCGCCTCGATGCAGGAGGACG
AGCAGTCAGGCCGGGACCTTCAACAGTATCAGAGTCAGGCTAAGCAACTCTTTCGAAAGTTGAATGAGCA
GTCCCTACCCGATGTACCTTGAAGCAGGAGCCATGACTTTTCACTACATTATTGAGCAGGGGGTGTGT
TACTTGTTTTGTGTGAAGCTGCCTTCCCTAAGAAGTTGGCCTTTCCTACCTAGAAGATTGCACTCGG
AATTTGATGAACAGCATGGGAAGAAGGTGCCACTGTGTCTAGGCCCTATTCCTTCATCGAGTTTGATAC
CTTCATTAGAAAACCAAGAACTCTACATTGATAGCCGTGCTCGAGAAATCTAGGCTCCATTAACT
GAATTGCAGGATGTGAGAGGATCATGGTGGCCAATATTGAAGAAGTCTACAGCGGGGAGAAGCACTCT
CAGCATTGGATTCAAAGGCTAACAATTTGTCCAGTCTATCTAAGAAATACCGCCAGGATGCGAAGTACCT
GAACATGCGCTCCACTTACGCCAAGCTTGAGCAGTAGCTGTGTTTTTCATCATGCTGATAGTGTATGTG
CGTTTTGGTGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224942 representing NM_011342
 Red=Cloning site Green=Tags(s)

MVLLTMIARVADGLPLAASMQEDEQSGRDLQQYQSQAQLFRKLNEQSPTRCTLEAGAMTFHYIIEQGVC
 YLVLCEAAFPKKLAFAYLEDLHSEFDEQHGKKVPTVSRPYSFIEFDTFIQTKKLYIDSRARRNLGSINT
 ELQDVQRIMVANIEEVLQRGEALSALDSKANLSSLKKYRQDAKYLNMSTYAKLAHAVVFFIMLIVYV
 RFWWL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011342

ORF Size: 645 bp

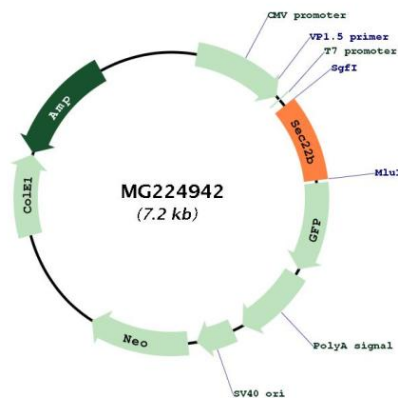
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_011342.4 , NP_035472.1
RefSeq Size:	1815 bp
RefSeq ORF:	648 bp
Locus ID:	20333
UniProt ID:	O08547
Cytogenetics:	3 F2.2
Gene Summary:	SNARE involved in targeting and fusion of ER-derived transport vesicles with the Golgi complex as well as Golgi-derived retrograde transport vesicles with the ER.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224942