

## Product datasheet for **RG210572**

### **SEC23B (NM\_032985) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | SEC23B (NM_032985) Human Tagged ORF Clone   |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | SEC23B                                      |
| Synonyms:                 | CDA-II; CDAIL; CDAN2; CWS7; HEMPAS; hSec23B |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>RG210572 representing NM\_032985  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT  
 GGCTTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCTGGCTTGCTCCTTACTCCTTTGAAAGA  
 ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC  
 AACCCACTTTGTGAGTTGATTACGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT  
 TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT  
 TGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCTATGTGGTTGACACATGCCTGGAG  
 GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTCCTCCAGATGCTCTGG  
 TGGGTCTGATCACATTTGAAGGATGGTGCAGGTTTATGAGCTAAGCTGTGAAGGAATCTCCAAAAGTTA  
 TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGGCTGACCAAGCCAGCC  
 ATGCCCATGCAGCAAGCAGCACCTGCACAACCACAGGAGCACCTTTTGCTTCAAGCAGATTTCTGCAGC  
 CTGTTCAAGATTGATATGAACCTCACTGATCTTCTTGGGGAGCTACAGAGGGACCCATGGCCAGTAAAC  
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 TAATGGGAGATTCTTCAACACTTCTCTTCAAGCAGACATTCCAAAGAATCTTACTAAAGATTTTAA  
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 GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACTGTGTGTGTCAGAAAATGAGCTTGGTGTGGTG  
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 TCAGCACAAACACCCCGATCCCCAAGGAGGAGGAGGCCATCCAGTTTGTACGCATTATCAGCACTCC  
 AGCACCCAGAGACGCATCCGCGTGACCACCATCGCCCGAAATGGGCAGATGTACAGAGTCAGCTCAGGC  
 ACATAGAAGCAGCATTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTGGGGTGTCCGAGCGGA  
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 GCCCGAGTATGAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATCTGCAAGCA  
 CGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCTTTTGTCCAAAG  
 TGAACCATCTCAGACACACAATAACCTGTATGCTTGGGACAGGAACTGGAGCACCCATCCTAACTGA  
 TGATGTTAGCCTGCAGGTGTTTATGGACCATTTGAAGAAGCTGGCTGTCTCCAGTGCCTGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

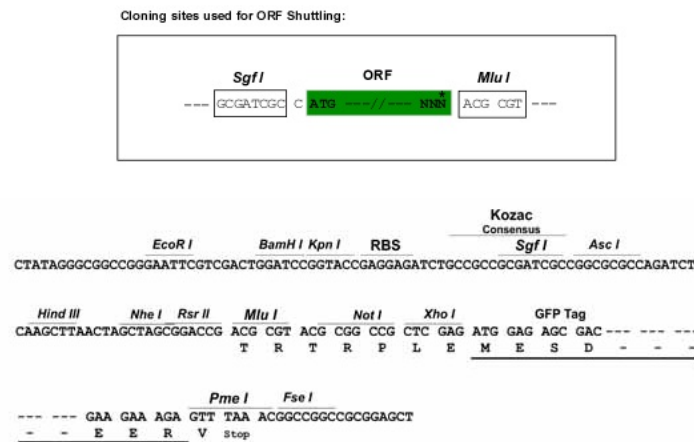
**Protein Sequence:** >RG210572 representing NM\_032985  
Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSSWVWPSSRLEATRMVPLACLITPLKERPDLPVQYEPVLCRSRPTCKAVL  
 NPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNPQAEMLMPQFSTIEYVIQRGAQSPLIFLYVVDTCLE  
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGEGISKSYVFRGKDKLTAKQIQDMLGLTKPA  
 MPMQQAQPAQPQEHFPAASSRFLQPVHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT  
 FPNTGARIMLFTGGPPTQGPVMVVGDELKIPIRSWHDIKDNARFMKKATKHYEMLANRTAANGHCIDIY  
 ACALDQTGLLEMCCANLTGGYVMVGDSTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKTSRELKIAAG  
 AIGPCVSLNVKGLCVSENELGVGGTSQWKICGLDPTSTLGIYFEVVNQHNTPIPPQGGRAIQFVTHYQHS  
 STQRRIRVTTIARNWADVQSQLRHIEAAFDQEAQAAVLMARLGVFRAESEEGPDVLRWLDRLIRLCKKFG  
 QYNKEDPTSFRLSDSFLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIQPILYSYSF  
 HGPPEPVLLDSSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA  
 RFPMPRYINTEHGGSQARFLLSKVNPSTHNNLYAWGQETGAPILTDVSLQVFMHLLKLAIVSSAC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032985

**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\\_032985.4](#), [NP\\_116780.1](#)

**RefSeq Size:** 3447 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 10483

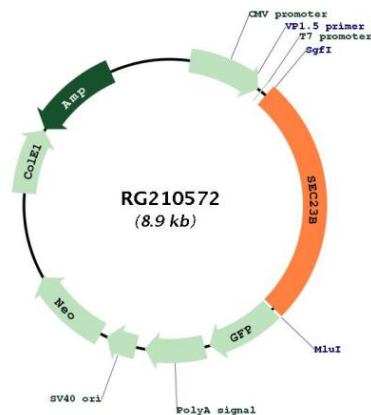
**UniProt ID:** [Q15437](#)

**Cytogenetics:** 20p11.23

**Domains:** zf-Sec23\_Sec24, Sec23\_trunk, Sec23\_helical, Gelsolin

**Gene Summary:** The protein encoded by this gene is a member of the SEC23 subfamily of the SEC23/SEC24 family, which is involved in vesicle trafficking. The encoded protein has similarity to yeast Sec23p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. The function of this gene product has been implicated in cargo selection and concentration. Multiple alternatively spliced transcript variants have been identified in this gene. [provided by RefSeq, Feb 2010]

### Product images:



Circular map for RG210572