

Product datasheet for **RG230476**

SEC23B (NM_001172746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_001172746) 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:

>RG230476 representing NM_001172746
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT
GGCCTTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCTGGCTTGCTCCTTACTCCTTTGAAAGA
ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC
AACCCACTTTGTGAGTTGATTACGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT
TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT
TGAGTACGTGATACAGGAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCTGAGTCTTCTT
CCTCCAGATGCTCTGGTGGTCTGATCACATTTGGAAGGATGGTGCAGGTTTCATGAGCTAAGCTGTGAAG
GAATCTCCAAAAGTTATGCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGG
CCTGACCAAGCCAGCCATGCCCATGCAGCAAGCAGCACCTGCACAACCACAGGAGCACCTTTTGTCTCA
AGCAGATTTCTGCAGCCTGTTCAACAAGATTGATATGAACCTCACTGATCTTCTGGGGAGCTACAGAGGG
ACCCATGGCCAGTAACTCAGGGGAAGAGACCTTTCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGG
CTTGCTGGAGGGCACTTTTCAAACACAGGAGCCAGGATCATGCTGTTTACTGGAGTCCCCCTACCCAA
GGGCTGGCATGGTGGTGGAGATGAATTAAGATTTCCTATTCGTTCTTGGCATGATATTGAGAAAGATA
ATGCACGATTCATGAAAAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCA
CTGCATTGATATTTATGCTTGTGCCCTTGATCAAACCTGGACTTTTGGAGATGAAGTGTGTGCAAATCTT
ACTGGAGGCTACATGGTAAATGGAGATTTCCGAATGGCATTGGTGTACTTTGGACGTAAGACCTCTCGGA
TTACTAAAAGTTTTAATGGAGATTTCCGAATGGCATTGGTGTACTTTGGACGTAAGACCTCTCGGA
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CAGAGTCAGTCAGGCACATAGAAGCAGCATTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTG
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GTGTCAAAGTTTGGACAGTATAACAAAGAAGACCCCACTTCTTTAGGTTATCAGATTCCTTTTCTCTA
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CGTCATATTACAGACATCAATTTGCCCGCAGGACCTGACCCAGTCCCTCATCATGATCCAGCCATTCT
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ATTTTGTGATGGATACTTTCTTCAAATTGTCATTTATCTTGGTGGAGCCATAGCCAGTGGCGTAAAG
CTGGTACCAGGACATGCCCGAGTATGAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCA
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TTCCTTTTGTCAAAGTGAACCCATCTCAGACACAAATAACCTGTATGCTTGGGGACAGGAACTGGAG
CACCCATCTAACTGATGATGTTAGCCTGCAGGTGTTTCATGGACCATTGAAGAAGCTGGCTGTCTCCAG
TGCTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230476 representing NM_001172746
 Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSSWVWPSSRLEATRMVVPLACLITPLKERPDLPVQYEPVLCRSRPTCKAVL
 NPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNOAELMPQFSTIEYVIQEDDLQALKESLQMSL SLL
 PPDALVGLITFGRMVQVHELSCGISKSYVFRGTDLTAKQIQDMLGLTKPAMPMQQARPAQPQEHFAS
 SRFLQPVHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGTFPNTGARIMLFTGGPPTQ
 GPGMVVGDELKIPIRSWHDIEKDNARFMKKATKHYEMLANRTAANGHCIDIYACALDQTGLLEMKCCANL
 TGGYVMVGD SFNTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKTSRELKIAGAIGPCVSLNVKGPCVSEN
 ELGVGGSQWKICGLDPTSTLGIYFEVNVQHNTPIQGGRGAIQFVTHYQHSSTQRRIRVTTIARNWADV
 QSQLRHIEAAFDQEAAA VLMARLGVFRAESEEGPDVLRWLD RQLIRLCQKFGQYNKEDPTSFRLSDSFSL
 YPQFMFHLRRSPFLQVFNNSPDESSYYRHHFARQDLTQSLIMIQPILYSYSFHGPPPEVLLDSSSILADR
 ILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQARFPMPRYINTEHGGSQAR
 FLLSKVNPSTHNNLYAWGQETGAPILTDDVSLQVFMHLLKLVSSAC

TRTRPLE - GFP Tag - V

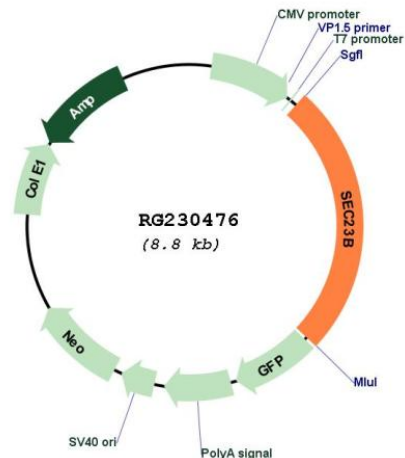
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001172746

ORF Size: 2247 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_001172746.3](#)

RefSeq Size: 3364 bp

RefSeq ORF: 2250 bp

Locus ID: 10483

Cytogenetics: 20p11.23

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]