

Product datasheet for **RC230476**

SEC23B (NM_001172746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_001172746) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC23B
Synonyms:	CDA-II; CDAIL; CDAN2; CWS7; HEMPAS; hSec23B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230476 representing NM_001172746
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT
 GGCTTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCTGGCTTGCTCCTTACTCCTTTGAAAGA
 ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC
 AACCCACTTTGTGAGTTGATTACGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT
 TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT
 TGAGTACGTGATACAGGAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCTGAGTCTTCTT
 CCTCCAGATGCTCTGGTGGTCTGATCACATTTGGAAGGATGGTGCAGGTTTCATGAGCTAAGCTGTGAAG
 GAATCTCCAAAAGTTATGCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGG
 CCTGACCAAGCCAGCCATGCCCATGCAGCAAGCAGCACCTGCACAACCACAGGAGCACCTTTTGTCTCA
 AGCAGATTTCTGCAGCCTGTTCAACAAGATTGATATGAACCTCACTGATCTTCTGGGGAGCTACAGAGGG
 ACCCATGGCCAGTAACTCAGGGGAAGAGACCTTTCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGG
 CTTGCTGGAGGGCACTTTTCAAACACAGGAGCCAGGATCATGCTGTTTACTGGAGGTCCCCCTACCCAA
 GGGCTGGCATGGTGGTGGAGATGAATTAAGATTTCCTATTCGTTCTTGGCATGATATTGAGAAAGATA
 ATGCACGATTCATGAAAAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCA
 CTGCATTGATATTTATGCTTGTGCCCTTGATCAAACCTGGACTTTTGGAGATGAAGTGTGTGCAAATCTT
 ACTGGAGGCTACATGGTAAATGGAGATTTCCGAATGGCATTGGTGTACTTTGGACGTAAGACCTCTCGGGA
 ACTGAAGATTGCAGGAGCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACCGTGTGTGTCAGAAAAT
 GAGCTTGGTGTGGTGGCAGAGTCAGTGGAAAATCTGTGGCCTAGATCCTACATCTACACTTGGCATCT
 ATTTTGAAGTTGTCAATCAGCACAAACCCCGATCCCCAAGGAGGCAGAGGAGCCATCCAGTTTGTAC
 GCATTATCAGCACTCCAGCACCCAGAGACGCATCCGCGTGACCACCATCGCCGAAATTGGGCAGATGTA
 CAGAGTCAGTCCAGGCACATAGAAGCAGCATTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTG
 GGGTGTCCGAGCGGAGTCAGAGGAGGGGCCGATGTGCTCCGGTGGCTGGACCGACAACCTATCCGACT
 GTGTCAAAGTTTGGACAGTATAACAAAGAAGACCCCACTTCTTTAGGTTATCAGATTCCTTTTCTCTA
 TATCCTCAGTTTATGTTCCATCTGAGAAGATCTCCATTTCTTCAAGTGTTAACAACAGTCTGATGAGT
 CGTCATATTACAGACATCAATTTGCCCGCAGGACCTGACCCAGTCCCTCATCATGATCCAGCCATTCT
 CTACTCTTACTCCTTTTATGGGCCACCAGGCCAGTACTCTTGGATAGCAGCAGCATTCTAGCTGACAGA
 ATTTTGTGATGGATACTTTCTTCAAATGTGATTTATCTTGGTGGAGCCATAGCCAGTGGCGTAAAG
 CTGGCTACCAGGACATGCCCGAGTATGAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCA
 AGAAATTTGCAAGCACGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGA
 TTCCTTTTGTCAAAGTGAACCCATCTCAGACACAAATAACCTGTATGCTTGGGACAGGAACTGGAG
 CACCCATCTAACTGATGATGTTAGCCTGCAGGTGTTTCATGGACCATTGAAGAAGCTGGCTGTCTCCAG
 TGCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230476 representing NM_001172746
 Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSWNVWVSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVLCRSRPTCKAVL
 NPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNOAELMPQFSTIEYVIQEDDLQALKESLQMSLSLL
 PPDALVGLITFGRMVQVHELSCGISKSYVFRGTDLTAKQIQDMLGLTKPAMPMQARPAQPQEHFAS
 SRFLQPVHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGTFPNTGARIMLFTGGPPTQ
 GPGMVVGDDELKIPIRSWHDIKDNARFMKKATKHYEMLANRTAANGHCIDIYACALDQTGLLEMKCCANL
 TGGYVMVGDSEFNTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKTRELKIAAGIGPCVSLNVKGPCVSEN
 ELGVGGTSQWKICGLDPTSTLGIYFEVVNQHNTPIPQGGRGAIQFVTHYQHSSTQRRIRVTTIARNWADV
 QSQLRHIEAAAFDQEAVALMARLVGFRAESEEGPDVLRWLDRQLIRLCQKFGQYNKEDPTSFRLSDSFL
 YPQFMFHLRRSPFLQVFNNSPDESSYYRHHFARQDLTQSLIMIQPILYSYFHPPEPVLLDSSSILADR
 ILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQARFPMPRYINTEHGGSQAR
 FLLSKVNSQTHNLYAWGQETGAPILTDDVSLQVFMHLLKLAIVSSAC

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_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 ORF: 2250 bp

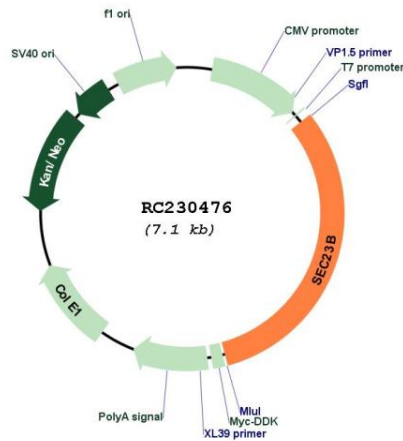
Locus ID: 10483

Cytogenetics: 20p11.23

MW: 84.9 kDa

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 RC230476