

## Product datasheet for **RC230484**

### **SEC23B (NM\_001172745) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_001172745) 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:**

>RC230484 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT  
 GGCCTTCCAGCCGCTGGAGGCTACAAGAATGGTTGTACCCTGGCTTGCTCCTTACTCCTTTGAAAGA  
 ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC  
 AACCCACTTTGTGAGTTGATTACGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT  
 TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT  
 TGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCTATGTGGTTGACACATGCCTGGAG  
 GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTCCTCCAGATGCTCTGG  
 TGGGTCTGATCACATTTGGAAGGATGGTGCAGGTTTCATGAGCTAAGCTGTGAAGGAATCTCCAAAAGTTA  
 TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGGCTGACCAAGCCAGCC  
 ATGCCCATGCAGCAAGCAGCACCTGCACAACCACAGGAGCACCTTTTGCTTCAAGCAGATTTCTGCAGC  
 CTGTTCAAGATTGATATGAACCTCACTGATCTTCTTGGGGAGCTACAGAGGGACCCATGGCCAGTAAC  
 TCAGGGGAAGAGACCTTTGCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGCACT  
 TTTCAAACACAGGAGCCAGGATCATGTGTTTACTGGAGGTCCCCTACCCAAGGGCCTGGCATGGTGG  
 TTGGAGATGAATTAAGATTCTATTGCTTCTTGGCATGATATTGAGAAAAGATAATGCACGATTCATGAA  
 AAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCACTGCATTGATATTTAT  
 GCTTGTGCCCTTGATCAAACCTGGACTTTTGGAGATGAAGTGTGCAAATCTTACTGGAGGCTACATGG  
 TAATGGGAGATTCTTCAACACTTCTCTTCAAGCAGACATTCAAAGAATCTTACTAAAGATTTTAA  
 TGGAGATTTCCGAATGGCATTGGTGTACTTTGGACGTAAGACCTCTCGGGAACCTGAAGATTGCAGGA  
 GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACTGTGTGTGTCAGAAAATGAGCTTGGTGTGGTG  
 GCACGAGTCAGTGAAAACTGTGGCCTAGATCCTACATCTACACTTGGCATCTATTTTGAAGTTGTCAA  
 TCAGCACAAACACCCCGATCCCCAAGGAGGAGGAGCCATCCAGTTTGTACGCATTATCAGCACTCC  
 AGCACCCAGAGACGCATCCGCGTGACCACCATCGCCGAAATGGGCAGATGTACAGAGTCAGCTCAGGC  
 ACATAGAAGCAGCATTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTGGGGTGTCCGAGCGGA  
 GTCAGAGGAGGGGCCGATGTGCTCCGGTGGCTGGACCGACAACCTCATCCGACTGTGTCAAAGTTTGA  
 CAGTATAACAAAGAAGACCCCACTTCTTTTAGGTTATCAGATTCTTTTCTCTATATCCTCAGTTTATGT  
 TCCATCTGAGAAGATCTCCATTTCTTCAAGTGTAAACAACAGTCTGATGAGTCGTCATATTACAGACA  
 TCATTTTGCCCGGAGGACCTGACCCAGTCCCTCATCATGATCCAGCCATTCTCTACTCTTACTCCTTT  
 CATGGGCCACCAGAGCCAGTACTCTTGGATAGCAGCAGCATTCTAGCTGCAGAAATTTGCTGATGGATA  
 CTTTCTTTCAAATGTCAATTTATCTTGGTGGAGCCATAGCCAGTGGCGTAAAGCTGGCTACCAGGACAT  
 GCCCGAGTATGAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATCTGCAAGCA  
 CGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCTTTTGTCCAAAG  
 TGAACCATCTCAGACACACAATAACCTGTATGCTTGGGACAGGAACTGGAGCACCCATCCTAACTGA  
 TGATGTTAGCCTGCAGGTGTTTATGGACATTTGAAGAAGCTGGCTGTCTCCAGTGCCTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230484 protein sequence  
 Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSWNVWVSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVLCRSRPTCKAVL  
 NPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNPQAEMLMPQFSTIEYVIQRGAQSPLIFLYVVDTCLE  
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGISKSYVFRGKDLTAKQIQDMLGLTKPA  
 MPMQARPAQPQEHF ASSRFLQPVHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT  
 FPNTGARIMLFTGGPPTQGPVMVVGDELKIPIRSWHDIKDNARFMKKATKHYEMLANRTAANGHCIDIY  
 ACALDQTGLLEMCCANLTGGYVMGDSFNTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKT SRELK IAG  
 AIGPCVSLNVKGLCVSENELGVGGTSQWKICGLDPTSTLGIYFEVVNQHNTPIPQGGRGAIQFVTHYQHS  
 STQRRIRVTTIARNWADVQSQLRHIEAAFDQEA AAVLMARLGVFRAESEEGPDVLRWLDRLIRLCQKFG  
 QYNKEDPTSFRLSDSFSLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIQPILYSYSF  
 HGPPPEVLLDSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA  
 RFPMPRYINTEHGGSQARFLLSKVNPSQTHNNLYAWGQETGAPILTDDVSLQVFMHLLKLA VSSAC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6692\\_b02.zip](https://cdn.origene.com/chromatograms/mk6692_b02.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001172745

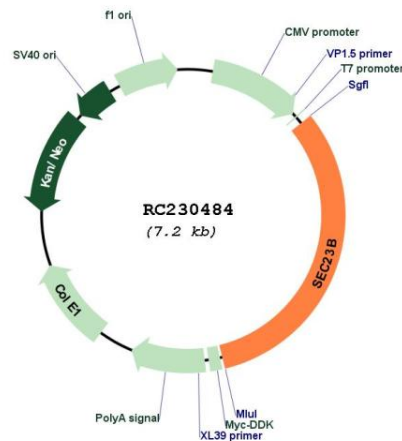
**ORF Size:** 2301 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001172745.1</u> , <u>NP_001166216.1</u>
<b>RefSeq Size:</b>	3328 bp
<b>RefSeq ORF:</b>	2304 bp
<b>Locus ID:</b>	10483
<b>UniProt ID:</b>	<u>Q15437</u>
<b>Cytogenetics:</b>	20p11.23
<b>MW:</b>	86.5 kDa
<b>Gene Summary:</b>	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 RC230484