

Product datasheet for **RC210572**

SEC23B (NM_032985) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_032985) 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:**

>RC210572 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT
 GGCCTTCCAGCCGCTGGAGGCTACAAGAATGGTTGTACCCTGGCTTGCTCCTTACTCCTTTGAAAGA
 ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC
 AACCCACTTTGTGAGTTGATTACGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT
 TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT
 TGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCTATGTGGTTGACACATGCCTGGAG
 GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTCCTCCAGATGCTCTGG
 TGGGTCTGATCACATTTGAAGGATGGTGCAGGTTTATGAGCTAAGCTGTGAAGGAATCTCCAAAAGTTA
 TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGGCTGACCAAGCCAGCC
 ATGCCCATGCAGCAAGCAGCACCTGCACAACCACAGGAGCACCTTTTGTCTCAAGCAGATTTCTGCAGC
 CTGTTCAAGATTGATATGAACCTCACTGATCTTCTTGGGGAGCTACAGAGGGACCCATGGCCAGTAAC
 TCAGGGGAAGAGACCTTTGCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGCACT
 TTTCCAAACACAGGAGCCAGGATCATGTGTTTACTGGAGGTCCCCTACCCAAGGGCCTGGCATGGTGG
 TTGGAGATGAATTAAGATTCTATTGCTTCTTGGCATGATATTGAGAAAAGATAATGCACGATTCATGAA
 AAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCACTGCATTGATATTTAT
 GCTTGTGCCCTTGATCAAACCTGGACTTTTGGAGATGAAGTGTGCAAATCTTACTGGAGGCTACATGG
 TAATGGGAGATTCTTCAACACTTCTCTTCAAGCAGACATTCCAAAGAATCTTACTAAAGATTTTAA
 TGGAGATTTCCGAATGGCATTGGTGTACTTTGGACGTAAGACCTCTCGGGAACCTGAAGATTGCAGGA
 GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACTGTGTGTGTCAGAAAATGAGCTTGGTGTGGTG
 GCACGAGTCAGTGGAAAATCTGTGGCCTAGATCCTACATCTACACTTGGCATCTATTTTGAAGTTGTCAA
 TCAGCACAAACACCCCGATCCCCAAGGAGGAGGAGCCATCCAGTTTGTACGCATTATCAGCACTCC
 AGCACCCAGAGACGCATCCGCGTGACCACCATCGCCGAAATGGGCAGATGTACAGAGTCAGCTCAGGC
 ACATAGAAGCAGCATTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTGGGGTGTCCGAGCGGA
 GTCAGAGGAGGGGCCGATGTGCTCCGGTGGCTGGACCGACAACCTCATCCGACTGTGTCAAAGTTTGA
 CAGTATAACAAAGAAGACCCCACTTCTTTTAGGTTATCAGATTCTTTTCTCTATATCCTCAGTTTATGT
 TCCATCTGAGAAGATCTCCATTTCTTCAAGTGTAAACAACAGTCTGATGAGTCGTATATTACAGACA
 TCATTTTGCCTGGCAGGACCTGACCCAGTCCCTCATCATGATCCAGCCATTCTCTACTCTTACTCCTTT
 CATGGGCCACAGAGCCAGTACTCTTGGATAGCAGCAGCATTCTAGCTGCAGAAATTTGCTGATGGATA
 CTTTCTTTCAAATGTCAATTTATCTTGGTGGAGCCATAGCCAGTGGCGTAAAGCTGGCTACCAGGACAT
 GCCCGAGTATGAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATCTGCAAGCA
 CGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCTTTTGTCCAAAG
 TGAACCATCTCAGACACACAATAACCTGTATGCTTGGGACAGGAACTGGAGCACCCATCCTAACTGA
 TGATGTTAGCCTGCAGGTGTTTATGGACCATTTGAAGAAGCTGGCTGTCTCCAGTGCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210572 protein sequence
 Red=Cloning site Green=Tags(s)

MATYLEFIQQNEERDGVRFSWNVWVSSRLEATRMVVPLACLLTPLKERPDLPVQYEPVLCRSRPTCKAVL
 NPLCQVDYRAKLWACNFCFQRNQFPPAYGGISEVNPQAEMLMPQFSTIEYVIQRGAQSPLIFLYVVDTCLE
 EDDLQALKESLQMSLSLLPPDALVGLITFGRMVQVHELSCGISKSYVFRGKDLTAKQIQDMLGLTKPA
 MPMQARPAQPQEHF ASSRFLQPVHKIDMNLTDLLGELQRDPWPVTQGKRPLRSTGVALSIAVGLLEGT
 FPNTGARIMLFTGGPPTQGPVMVVGDELKIPIRSWHDIKDNARFMKATKHYEMLANRТАANGHCIDIY
 ACALDQTGLLEMCCANLTGGYVMGDSFNTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKT SRELKIA G
 AIGPCVSLNVKGLCVSENELGVGGTSQWKICGLDPTSTLGIYFEVVNQHNTPIPQGGRGAIQFVTHYQHS
 STQRRIRVTTIARNWADVQSQLRHIEAAFQEEAAVLMARLGVFRAESEEGPDVLRWLDRLIRLCQKFG
 QYNKEDPTSFRLSDSFLYPQFMFHLRRSPFLQVFNNSPDESSYRHHFARQDLTQSLIMIQPILYSYSF
 HGPPPEVLLDSSILADRILLMDTFFQIVIYLGETIAQWRKAGYQDMPEYENFKHLLQAPLDDAQEILQA
 RFPMPRYINTEHGGSQARFLLSKVNPSQTHNNLYAWGQETGAPILTDDVSLQVFMHLLKLA VSSAC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6140_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032985

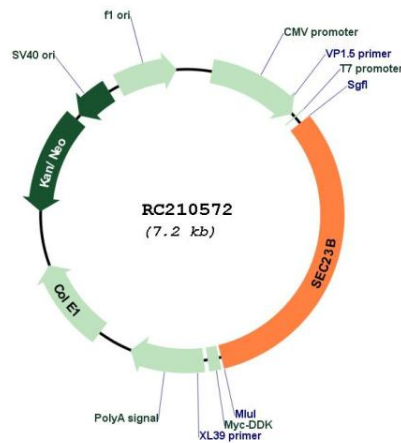
ORF Size: 2301 bp

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](#)

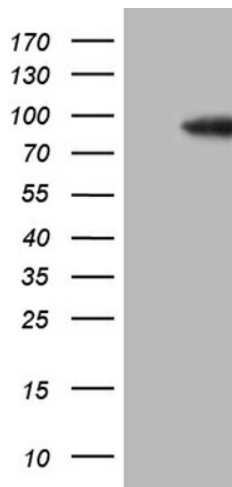
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
RefSeq:	NM_032985.6
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
MW:	86.5 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]

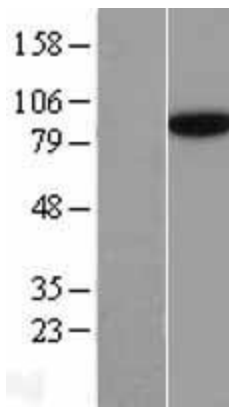
Product images:



Circular map for RC210572



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SEC23B (Cat# RC210572, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SEC23B (Cat# [TA810159])(1:2000). Positive lysates [LY403219] (100ug) and [LC403219] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409758]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220880] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC23B protein (Cat# [TP310572]). The protein was produced from HEK293T cells transfected with SEC23B cDNA clone (Cat# RC210572) using MegaTran 2.0 (Cat# [TT210002]).