

Product datasheet for **RC217911**

SEC23B (NM_006363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_006363) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC217911 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

 ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT
GGCCTTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCCTGGCTTGCTCCTTACTCCTTTGAAAGA
ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTCAGCAGGCCAACTTGTAAAGCTGTTCTC
AACCCACTTTGTGAGTTGATTATCGAGCAAACTTTGGGCTGTAAATTTCTGTTTTCAAAGAAATCAGT
TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT
TGAGTACGTGATACAGCAGGTGCTCAGTCCCCTCTGATCTTCTCTATGTGGTTGACACATGCCTGGAG
GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTCCTCCAGATGCTCTGG
TGGGTCTGATCACATTTGAAGGATGGTGCAGGTTCATGAGCTAAGCTGTGAAGGAATCTCCAAAAGTTA
TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGGCTGACCAAGCCAGCC
ATGCCCATGCAGCAAGCAGCAGCTGCACAACCACAGGAGCACCTTTTGCTTCAAGCAGATTTCTGCAGC
CTGTTTCAAGATTGATATGAACCTCACTGATCTTCTTGGGGAGCTACAGAGGGACCCATGGCCAGTAAC
TCAGGGGAAGAGACCTTTGCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGGCTTGCTGGAGGGCACT
TTTCCAAACACAGGAGCCAGGATCATGCTGTTTACTGGAGGTCCCCTACCCAAGGGCTGGCATGGTGG
TTGGAGATGAATTAAAGATTCTATTGCTTCTTGGCATGATATTGAGAAAGATAATGCACGATTATGAA
AAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCACTGCATTGATTTAT
GCTTGTGCCCTTGATCAAACCTGGACTTTTGGAGATGAAGTGTGTGCAAATCTTACTGGAGGCTACATGG
TAATGGGAGATTCTTTCAACACTTCTCTTCAAGCAGACATTCAAAGAATCTTACTAAAGATTTTAA
TGGAGATTTCCGAATGGCATTGTGGTGTACTTTGGACGTAAAGACCTCTCGGGAACCTGAAGATTGCAGGA
GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACTGTGTGTGTGAGAAAATGAGCTTGGTGTGGTG
GCACGAGTCAGTGGAATCTGTGGCTAGATCTACATCTACACTTGGCATCTATTTTGAAGTTGTCAA
TCAGCACAAACACCCCGATCCCCAAGGAGGCAGAGGAGCCATCCAGTTTGTACGCATTATCAGCACTCC
AGCACCCAGAGACGCATCCGCGTGACCACCATCGCCGAAATGGGCAGATGTACAGAGTCAGCTCAGGC
ACATAGAAGCAGCATTTGACCAGGAGGCTGCGGCAGTGTGATGGCACGGCTTGGGTGTTCCGAGCGGA
GTCAGAGGAGGGCCCGATGTGCTCCGGTGGCTGGACCGACAACCTATCCGACTGTGTCAAAGTTTGA
CAGTATAACAAAGAACCCCACTTCTTTAGGTTATCAGATTCTTTTCTCTATATCCTCAGTTTATGT
TCCATCTGAGAAGATCTCCATTTCTTCAAGTGTAAACAACAGTCCTGATGAGTCGTATATTACAGACA
TCATTTTGCCCGGAGGACCTGACCCAGTCCCTCATCATGATCCAGCCATTCTCTACTCTTACTCCTTT
CATGGGCCACAGAGCCAGTACTCTTGATAGCAGCAGCATTCTAGCTGACAGAAATTTGCTGATGGATA
CTTTCTTTCAAATTGTCATTTATCTTGGTGAGACCATAGCCAGTGGCGTAAAGCTGGCTACCAGGACAT
GCCCAGATGAAAACTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATCTGCAAGCA
CGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCTTTTGTCCAAAG
TGAACCATCTCAGACACACAATAACCTGTATGCTTGGGACAGGAACTGGAGCACCCATCCTAACTGA
TGATGTTAGCCTGCAGGTGTTTATGGACCATTGAAGAAGCTGGCTGTCTCCAGTGCCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217911 protein sequence
Red=Cloning site Green=Tags(s)

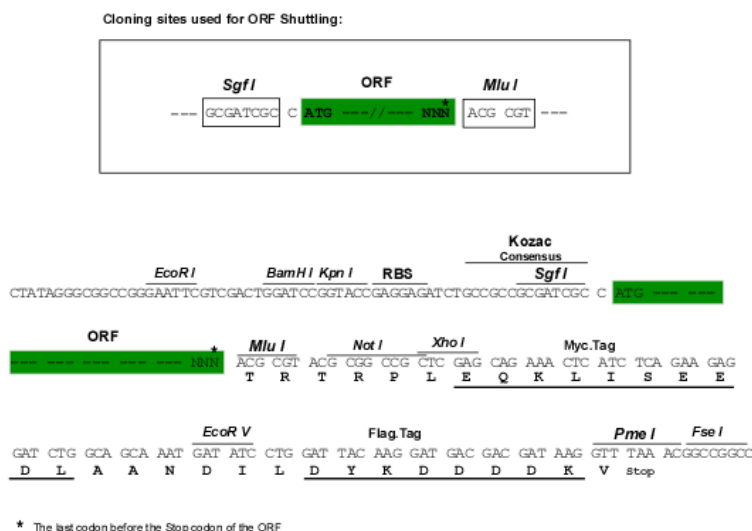
MATYLEFIQQNEERDGVRF SWNVWPSSRLEATRMVVPACL L TPLKERPD LPPVQYEPVLC SRPTCKAVL
NPLCQVDYRAKLWACNFCFQRNQFPAYGGISEVNQPAELMPQFSTIEYVIQRGAQSPLIFLYVVDTCLE
EDDLQALKESLQMSL SLLPPDALVGLITFGRMVQVHEL SCEGISKSYVFRGTDLTAKQIQDMLGLTKPA
MPMQQARPAQPQEHF ASSRFLQPVKHIDMNL TDLLGELQRDPWPVTQGRPLRSTGVALSIAVGLLEGT
FPNTGARIMLFTGGPPTQGPVMVGDELKIPIRSWHDIEKD NARFMKKATKHYEMLANRTAANGHCIDIY
ACALDQTGLLEMKCCANLTGGYVMVGDSFNTSLFKQTFQRIFTKDFNGDFRMAFGATLDVKTSRELKIAG
AIGPCVSLNVKGLCVSENELGVGGTSQWKICGLDPTSTLGIYFEVNVQHNTPI PQGGRGAIQFVTHYQHS
STQRRIRVTTIARNWADVQSLRHIEAAFDEAAAVLMARLGVFRAESEEGPDVLRWLDRQLIRLCQKFG
QYNKEDPTSTFRLSDSFLDLPYCFMFLHRSSPFLQVFNNSPDESSYYRHHFARQDLTQSLIMQDPAIYSYSF
HGKPEPVLLDSSSILADRI LLMDFTFYIYVIGETIAQWRKAGYQDMPEYFNKHLIQAIPDLAQEILQA
RFPMPRYINTEHGGSOARELLSKVNPSTHNNLYAWGOETGAPILTDDVSLOVEMPHLKKLAVSSAC

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6692_b02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM 006363

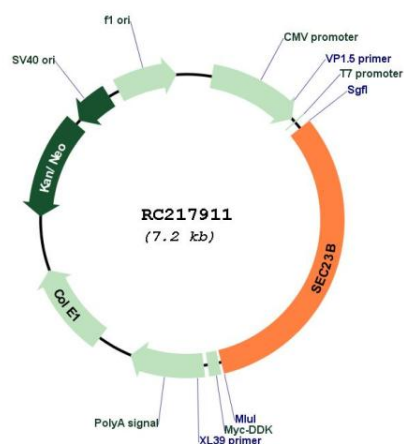
ORF Size: 2301 bp

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](#)

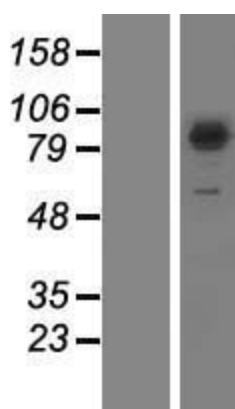
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_006363.6</u>
RefSeq Size:	3429 bp
RefSeq ORF:	2304 bp
Locus ID:	10483
UniProt ID:	<u>Q15437</u>
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]

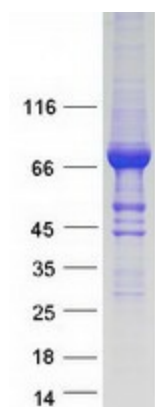
Product images:



Circular map for RC217911



Western blot validation of overexpression lysate (Cat# [LY416692]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217911 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC23B protein (Cat# [TP317911]). The protein was produced from HEK293T cells transfected with SEC23B cDNA clone (Cat# RC217911) using MegaTran 2.0 (Cat# [TT210002]).