

Product datasheet for **SC110165**

SEC23B (NM_032986) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_032986) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC23B
Synonyms:	CDA-II; CDAIL; CDAN2; CWS7; HEMPAS; hSec23B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC110165 sequence for NM_032986 edited (data generated by NextGen Sequencing)

```

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGT
TGGAACGTGTGGCCTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCCTGGCTTGT
CTCCTTACTCCTTTGAAAGAACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTT
TGCAGCAGGCCAACTTGTAAAGCTGTTCTCAACCCACTTGTGAGGTTGATTATCGAGCA
AACTTTGGCCGTGAATTTCTGTTTTCAAAGAAATCAGTTTTCCCTCCAGCTTATGGAGGC
ATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAATTGAGTACGTG
ATACAGCGAGGTGCTCAGTCCCCCTGTGATCTTTCTCTATGTGGTTGACACATGCCTGGAG
GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTTCTCCA
GATGCTCTGGTGGTCTGATCACATTTGGAAGGATGGTGCAGGTTGATGAGCTAAGCTGT
GAAGGAATCTCCAAAAGTTATGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATA
CAGGATATGTTGGGCCTGACCAAGCCAGCCATGCCATGCAGCAAGCACGACCTGCACAA
CCACAGGAGCACCTTTTGTCTCAAGCAGATTTCTGCAGCCTGTTACAAGATTGATATG
AACCTCACTGATCTTCTGGGGAGCTACAGAGGGACCCATGGCCAGTAACTCAGGGGAAG
AGACCTTTGCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGGCTTGTGGAGGGCACT
TTTCCAAACACAGGAGCCAGGATCATGCTGTTTACTGGAGGTCCCCCTACCCAAGGGCCT
GGCATGGTGGTTGGAGATGAATTAAGATTCTATTCTGTTCTTGGCATGATATTGAGAAA
GATAATGCACGATTATGAAAAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAAACA
GCTGCAAAATGGTCACTGCATTGATATTTATGCTTGTGCCCTTGATCAAATGGACTTTTG
GAGATGAAGTGTGTGCAAACTTACTGGAGGCTACATGGTAATGGGAGATTCTTTCAAC
ACTTCTCTTTCAAGCAGACATTTCAAAGAATCTTTACTAAAGATTTTAAATGGAGATTTT
CGAATGGCATTGGTGTACTTTGGAGCTAAAGACCTCTCGGAACTGAAGATTGCAGGA
GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACCGTGTGTGTCAGAAAATGAGCTT
GGTGTGGTGGCAGGAGTCAAGTGGAAAATCTGTGGCCTAGATCCTACATCTACACTTGGC
ATCTATTTTGAAGTTGTCAATCAGCACAAACACCCCGATCCCCAAGGAGGCAGAGGAGCC
ATCCAGTTTGTACGCATTATCAGCACTCCAGCACCCAGAGACGCATCCGCGTGACCACC
ATCGCCCCGAAATGGGCAGATGTACAGAGTCAGCTCAGGCACATAGAAGCAGCATTGAC
CAGGAGGCTGCGGAGTGTGATGGCACGGCTTGGGGTGTCCGAGCGGAGTCAGAGGAG
GGGCCCGATGTGCTCCGGTGGCTGGACCGACAACCTCATCCGACTGTGTCAAAAGTTTGA
CAGTATAACAAAGAAGACCCCACTTCTTTTAGGTTATCAGATTCTTTTCTATATCCT
CAGTTTATGTTCCATCTGAGAAGATCTCCATTTCTTCAAGTGTTTAAACAAGTCCTGAT
GAGTCGTCATATTACAGACATCATTTTGGCCGGCAGGACCTGACCCAGTCCCTCATCATG
ATCCAGCCCACTTCTACTCTTACTCCTTTTATGGGCCACCAGAGCCAGTACTCTTGGAT
AGCAGCAGCATTCTAGCTGACAGAAATTTGCTGATGGATACTTTCTTTCAAATTTGTCATT
TATCTTGGTGAGACCATAGCCCAGTGGCGTAAAGCTGGTACCAGGACATGCCCGAGTAT
GAAAACCTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATTTCTGCAAGCA
CGCTTCCCAGTCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCTT
TTGTCCAAAGTGAACCCATCTCAGACACACAATAACCTGTATGCTTGGGGACAGGAACT
GGAGCACCCATCCTAACTGATGATGTTAGCCTGCAGGTGTTTATGGACCAATTTGAAGAAG
CTGGCTGTCTCCAGTGCCTGTAA

```

Clone variation with respect to NM_032986.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032986 unedited GTAATACGACTTACTATAGGGCGGCCGCAATTCGGCACGAGGGGCCAGTGGACAGCGCC GTGGCATGACGCGCTGGGGCGCTGGCCAATCGGTTGAGAGCTGAGCTGGACTTGGCGGTG GGAGCCGAGCCTGCTTGTTCAGCTGTGGGTGAGGACGGCTCTAGCTAGGTGAGCGGCT CCGGCCAGTTCCTTTTAGACTATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGA ACGGGATGGTGTGCGTTTTAGTTGGAACGTGTGGCTTCCAGCCGGCTGGAGGCTACAAG AATGGTTGTACCCTGGCTTGTCTCCTTACTCCTTTGAAAGAACGTCCAGACCTACCTCC TGTACAATATGAACCTGTGCTTTGCAGCAGGCCAACTTGTAAAGCTGTTCTCAACCCACT TTGTCAGGTTGATTATCGAGCAAACTTTGGGCCTGTAATTTCTGTTTTCAAAGAAATCA GTTTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCA GTTTTCTACAATTGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCTA TGTGGTTGACACATGCCTGGAGGAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGAT GTCCTGAGTCTTCTTCCAGATGCTCTGGTGGGTCTGATCACATTTGGAAGGATGGT GCANGTTCATGAGCTAAGCTGTGAAGGAATCTCCAANNAGTATGTCTCCGAGGGACCAA GGATTTAACTGCACAAGCAATACAGGATATGTTGNGCCNTGACAAGCCAGCCATGCCCA TGCAAGCAAGCAGCAGCTGCACAACCACAGGAGCACCTTTTGCCTCAGCAGATATCTGCA GCTTGTTACAAGATGATGAACCTNACTGTACTTTG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032986 unedited TAGCTCTGGACCCGCGGCCGAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTACAAATAAATTATAATCTAAAGAGTTACATATAAAATGCCTTGATTAT TTGTTAAATCTGCTAAAAAGTAACAGGAATGTTATCAAGCCTTCTAAACATTTTGAA CACAATCTGACACCGTTGCATTTCTGGTTGTATCCTCAGCTTAACAGGCACTGGAACA GCCAGTCTTCAAATGGTCCATGAACACCTGCAGGCTAACATCATCAGTTAGGATGGGT GCTCCAGTTTCTGTCCCAAGCATACAGGTTATTGGGTGCTGAAATGGGTTCACTTTG GACAAAAGGAATCGAGCCTGACTGCCTCCATGCTCCGTGTTGATGAACGTGGCATCGGG AAGCGTGCTTGCAAAATTTCTTGAGCATCATCCAGTGGTGCCTGCAAAAGGTGCTGAAG TTTTCATACTCGGGCATGCTCGGTAGCCAGCTTACGCCACTGGGCTATGGTCTACCA AGATAAATGACAATTTGAAAGAAAGTATCCATCAGCAAAATTTGTGTCAGTAAAAATGCTG CTGCTATCCAAGAGTACTGGCTCTGGTGGCCCATGAAAGGAGTAAGAGTANAGAATGGCG TGGATATGATGAGGGACTGGGTGAGTCCCTGCGGGCAAAATGATGCTGTAATATGACG ACTCATCAAGGACTGTTGTTAAACACTTGAAGAAAATGGAGATCTTCTCAGATGGAACCA TAACTGAGGATATAGAGAAAAGGATCTGATACCTAAAGAAAANGGGGCTTCTTTGTATAC TGTNCAACTTTGACACAGCGAAGAAATGTGCGGTCCGCCACGAGAACATGGCCCCTCTTTG ATCGTGGGACCAACCGGCATCAACTGCGAACCTCGGCAAGCTGTN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_032986
Insert Size:	2550 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_032986.3](#), [NP_116781.1](#)

RefSeq Size: 3126 bp

RefSeq ORF: 2304 bp

Locus ID: 10483

UniProt ID: [Q15437](#)

Cytogenetics: 20p11.23

Domains: zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin

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]

Transcript Variant: This variant (3) uses an alternate splice site and lacks a segment in the 5' UTR, as compared to variant 2. Variants 1, 2, 3 and 4 encode the same isoform (1).