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Product datasheet for SC110164

SEC23B (NM_032985) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC23B (NM_032985) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC23B
Synonyms:	CDA-II; CDAII; CDAN2; CWS7; HEMPAS; hSec23B
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_032985, the custom clone sequence may differ by one or more nucleotides

ATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAGAACGGGATGGTGTGCGTTTTAGTTGGAACGTGT
GGCCTTCCAGCCGGCTGGAGGCTACAAGAATGGTTGTACCCCTGGCTTGTCTCCTTACTCCTTTGAAAGA
ACGTCCAGACCTACCTCCTGTACAATATGAACCTGTGCTTTGCAGCAGGCCAACTTGTAAAGCTGTTCTC
AACCCACTTTGTCAGGTTGATTATCGAGCAAAACTTTGGGCCTGTAATTTCTGTTTTCAAAGAAATCAGT
TTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCCAGTTTTCTACAAT
TGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCTATGTGGTTGACACATGCCTGGAG
GAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGATGTCCCTGAGTCTTCTTCCTCCAGATGCTCTGG
TGGGTCTGATCACATTTGGAAGGATGGTGCAGGTTCATGAGCTAAGCTGTGAAGGAATCTCCAAAAGTTA
TGTCTTCCGAGGGACCAAGGATTTAACTGCAAAGCAAATACAGGATATGTTGGGCCTGACCAAGCCAGCC
ATGCCCATGCAGCAAGCACGACCTGCACAACCACAGGAGCACCCTTTTGCTTCAAGCAGATTTCTGCAGC
CTGTTCACAAGATTGATATGAACCTCACTGATCTTCTTGGGGAGCTACAGAGGGACCCATGGCCAGTAAC
TCAGGGGAAGAGACCTTTGCGATCCACTGGTGTGGCTTTGTCCATTGCTGTTGGCTTGCTGGAGGGCACT
TTTCCAAACACAGGAGCCAGGATCATGCTGTTTACTGGAGGTCCCCCTACCCAAGGGCCTGGCATGGTGG
TTGGAGATGAATTAAAGATTCCTATTCGTTCTTGGCATGATATTGAGAAAGATAATGCACGATTCATGAA
AAAGGCAACCAAGCACTATGAGATGCTTGCTAATCGAACAGCTGCAAATGGTCACTGCATTGATATTTAT
GCTTGTGCCCTTGATCAAACTGGACTTTTGGAGATGAAGTGTTGTGCAAATCTTACTGGAGGCTACATGG
TAATGGGAGATTCTTTCAACACTTCTCTCTTCAAGCAGACATTCCAAAGAATCTTTACTAAAGATTTTAA
TGGAGATTTCCGAATGGCATTTGGTGCTACTTTGGACGTAAAGACCTCTCGGGAACTGAAGATTGCAGGA
GCCATTGGTCCATGCGTATCTCTGAATGTGAAAGGACCGTGTGTGTCAGAAAATGAGCTTGGTGTTGGTG
GCACGAGTCAGTGGAAAATCTGTGGCCTAGATCCTACATCTACACTTGGCATCTATTTTGAAGTTGTCAA
TCAGCACAACACCCCGATCCCCCAAGGAGGCAGAGGAGCCATCCAGTTTGTCACGCATTATCAGCACTCC
AGCACCCAGAGACGCATCCGCGTGACCACCATCGCCCGAAATTGGGCAGATGTACAGAGTCAGCTCAGGC
ACATAGAAGCAGCATTTGACCAGGAGGCTGCGGCAGTGTTGATGGCACGGCTTGGGGTGTTCCGAGCGGA
GTCAGAGGAGGGGCCCGATGTGCTCCGGTGGCTGGACCGACAACTCATCCGACTGTGTCAAAAGTTTGGA
CAGTATAACAAAGAAGACCCCACTTCTTTTAGGTTATCAGATTCCTTTTCTCTATATCCTCAGTTTATGT
TCCATCTGAGAAGATCTCCATTTCTTCAAGTGTTTAACAACAGTCCTGATGAGTCGTCATATTACAGACA
TCATTTTGCCCGGCAGGACCTGACCCAGTCCCTCATCATGATCCAGCCCATTCTCTACTCTTACTCCTTT
CATGGGCCACCAGAGCCAGTACTCTTGGATAGCAGCAGCATTCTAGCTGACAGAATTTTGCTGATGGATA
CTTTCTTTCAAATTGTCATTTATCTTGGTGAGACCATAGCCCAGTGGCGTAAAGCTGGCTACCAGGACAT
GCCCGAGTATGAAAACTTCAAGCACCTTCTGCAGGCACCACTGGATGATGCTCAAGAAATTCTGCAAGCA
CGCTTCCCGATGCCACGTTACATCAACACGGAGCATGGAGGCAGTCAGGCTCGATTCCTTTTGTCCAAAG
TGAACCCATCTCAGACACACAATAACCTGTATGCTTGGGGACAGGAAACTGGAGCACCCATCCTAACTGA
TGATGTTAGCCTGCAGGTGTTCATGGACCATTTGAAGAAGCTGGCTGTCTCCAGTGCCTGTTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032985 unedited
GTCAAAATTTTGTAATACGACTCACTATAGGGCGGCCGCGNAATTCGCACGAGGGACGGC
TCTAGCTAGTTCCCTTTTAGACTATGGCGACATACCTGGAGTTCATCCAGCAGAATGAAG
AACGGGATGGTGTGCGTTTTAGTTGGAACGTGTGGCCTTCCAGCCGGCTGGAGGCTACAA
GAATGGTTGTACCCCTGGCTTGTCTCCTTACTCCTTTGAAAGAACGTCCAGACCTACCTC
CTGTACAATATGAACCTGTGCTTTGCAGCAGGCCAACTTGTAAAGCTGTTCTCAACCCAC
TTTGTCAGGTTGATTATCGAGCAAAACTTTGGGCCTGTAATTTCTGTTTTCAAAGAAATC
AGTTTCCTCCAGCTTATGGAGGCATATCTGAGGTGAATCAACCTGCCGAATTGATGCCCC
AGTTTTCTACAATTGAGTACGTGATACAGCGAGGTGCTCAGTCCCCTCTGATCTTTCTCT
ATGTGGTTGACACATGCCTGGAGGAAGATGACCTTCAAGCACTCAAAGAGTCCCTGCAGA
TGTCCCTGAGTCTTCTTCCTCCAGATGCTCTGGTGGGTCTGATCACATTTGGAAGGATGG
TGCAGGTTCATGAGCTAAGCTGTGAAGGAATCTCCANAAGTTATGTCTTCCGAGGGACCA
AAGATTTAACTGCANAGCAAATACCAGATATGTTGGGCCTGACCAAGCCAGCCATGCCCA
TGCAGCAAGCACGACCTGCACAACCACCAGAGCACCCTTTTGCTTTAAGCAGATNTTTGC
AGCCTGTTCACAGAATGATATGAACCTCACTGATCTTTTTGGGGAGCTCAGAGGGACCCT
TGCCCATAACTCAGGGGAAGAGACCTTTGCAACCCCGGGTGGGCTTTGTCCTTTGCTGTT
GCCTGCTGGAAGGACCTTTTCAAACCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032985 unedited
GCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTACATTACCTCTGATTTTATTTA
GATTCTAAAAGTTAGGATACAAAAAGCACATAAACATCTACAAGTACCAAAACATTTATG
ACCTTATAATTTTATAGTGCAAGAAAAAGGACAAAGACAGGAATACAAATAAATTATAAT
CTAAAGAGTTACATATAAAATGTCCTTGATTATTTGTTAAAATCTGCTAGAAAAGTAACA
GGAATGTTATCAAGCCTTTCTAGACATTTTGAACACAATCTGACACCGTTGCATTTCCTG
GTTGTATCCTCAGCTTAACAGGCACTGGAGACAGCCAGCTTCTTCAAATGGTCCATGAAC
ACCTGCAGGCTAACATCATCAGTTAGGATGGGTGCTCCAGTTTCCTGTCCCCAAGCATAC
AGGTTATTGTGTGTCTGAGATGGGTTCACTTTGGACAAAAGGAATCGAGCCTGACTGCCT
CCATGCTCCGTGTTGATGTAACGTGGCATCGGGAAGCGTGCTTGCAGAATTTCTTGAGCA
TCATCCAGTGGTGCCTGCAGAAGGTGCTTGAAGTTTTCATACTCGGGCATGTCCTGGTAG
CCAGCTTTACGCCACTGGGCTATGGTCTCACCAAGATAAATGACAATTTGAAAGAAAGTA
TCCATCAGCAAATTTCTGTCAGCTAGAATGCTGCTGCTATCCAAGAGTACTGGCTCTGGT
GGCCCATGANAGGAGTAAGAGTTNAGAATGGGCTGGATCATGATGAGGGACTGGGTCAAG
TCCTGCCGGGCAAATGATGTCTGTAATATGACCACTCATCAAGACTGTNGTTAAACACTT
GAAGAAATGAAGACTTCTTAGATGCAACTAAACTGACGATTTAAAGAAAGAATCTGATAA
CCTAAAGAGTGGGGTCTTTTTGTTTACTGTCCACACTTTGAACCATCGTGATTTGCGGGC
CACCACGAACACTTGCGCCNCTTT

Restriction Sites: NotI-NotI

ACCN: NM_032985

Insert Size: 2890 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_032985.3, NP_116780.1
RefSeq Size:	3447 bp
RefSeq ORF:	3447 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 (2) represents the longest transcript. Variants 1, 2, 3 and 4 encode the same isoform (1).