

Product datasheet for **SC116223**

SEC24B (NM_006323) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC24B (NM_006323) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC24B
Synonyms:	SEC24
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006323, the custom clone sequence may differ by one or more nucleotides

ATGTCGGCCCCCGCGGGTCTCTCACCCGGCCGCCAGCGCCGGATCCCGCCCAAGTTCGGCGGAGCGG
CCGTCTCAGGAGCCGAGCGCCCGGGCCCGGGTGC GGCGCCGCCACCAGCAGAACGGTCCAGC
CCAGAATCAAAATGCAGGTTCCATCTGGATATGGATTGCATCATCAAACTATATTGCTCCCTCAGGACAT
TACTCTCAAGGACCTGGGAAATGACCTCATTGCCATTGGATACCCAGTGTGGTATTACTACTCTGCTC
TCTATACAGTACCAACACAAAATGTGACTCCTAACACAGTGAACCAGCAACCAGGAGCACAGCAGTTGTA
CAGCAGGGGTCTCTGCCCTCATATTGTGGGATCCACTCTAGGATCTTTCAAGGTGCTGCATCGTCA
GCATCCCATTTGCATACGAGTGCCTCCCAACCATACTCCTCTTTTGTGAATCACTACAATAGTCCAGCCA
TGTAATCTGCCAGCTCTTCTGTTGCGTCTCAGGGATTTCCCTCTACTTGTGGTCATTATGCTATGTCAAC
TGTTTCTAATGCCGCGTATCCTAGTGTTTCATATCCCTCTCTGCCTGCTGGTGATACATATGGGCAAATG
TTTACCTCACAGAATGCTCCGACTGTTAGGCCAGTTAAAGATAATTCTTCTCTGGTCAAAATACAGCTA
TCAGCCATCCATCGCCACTTCCACCTCTACCATCACAACAGCACCACCAGCAGCAAGTCTTTCAGGATA
CAGTACTCTAACGTGGTCATCTCCAGGCCTTCCATCGACTCAAGACAATCTCATCCGAAACCACACAGGA
TCCCTGGCTGTAGCGAACAACAACCAACCATTACTGTTGAGATTCTTTATCCTGTCTGTTATGCAAA
ATGTTTCAGCCTCCCAAGTCCAGCCAGTGGTATCCACTGTTTTATCAGGATCCTCAGGATCCTCATCAAC
AAGAACACCTCCCACTGCAAAATCACCCAGTTGAGCCTGTGACCTCAGTTACACAGCCATCAGAGCTATTA
CAACAAAAGGCGTGAGTATGGTGAATATGTTAATAACCAAGCTAGCTCCGCACCAACTCCCTTGTCTAT
CAACTTCCGATGATGAGGAAGAGGAGGAGGAGGATGAGGAAGCAGGTGTTGACAGCTCTTCTACCACAAG
CAGTGCTTCTCCAATGCCAACAGTTATGATGCCCTGGAAGGAGGCAGTTACCCAGATATGCTTTCTTCA
TCAGCAAGCAGTCTGCTCCTGATCCCGCCCTGAACCTGATCCTGCTTCTGCTCCAGCTCCAGTTCAG
CTCCAGCTCCTGCTGCTCCTCAGCCTTCAAAAATGGCTAAGCCTTTTGGCTATGGCTATCCAACACTTCA
GCCTGGTTATCAGAATGTACAGCACCATTATTTCTGGAGTACAGCCAGTAACCCGGTATATTCTGGA
TTCCAGCAGTATCTCAACAGTATCCTGGTGTGAACCAGTATCCTCCAGTATAGGAGGATTGAGTCTTC
AGAGTTCTCCACAACCAGAAAGCCTGAGACCTGTAACCTTACTCAGGAGAGGAATATTTTACCTATGAC



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TCCTGTTTGGGCTCCTGTACCTAATTGAATGCAGACCTCAAAAAATTAACTGTAGCCAGATTCATT
CGGTGTAATTTGACAAATATTCCACAGACACAGGCTTTACTGAATAAGCTAAGCTTCCTTTAGGATTGT
TGTTACATCCCTTCAGAGACCTAACGCAATTACCAAGTATAACATCAAATACCATTGTGAGGTGCCGATC
CTGTGGAACGTATATTAACCCCTTTGTATCCTTCATTGATCAACGTAGATGGAATGCAATTTGTGCTAT
AGAGTAAACGATGTTCTGAAGAATTTATGTATAACCCCTTACCGATCTTATGGAGAGCCTCATAAAC
GACCAGAAGTTCAGAATTCAACTGTGGAGTTTCATTGCTTCTTCAGATTACATGCTGCGTCTCTCAACC
TGCAGTTTACTTGTGTTTGTATGTCTCATAATGCAGTGGAGCTGGATATTTGACAAATTTGTGC
CAGTCACTCCTAGAAAACTAGACAAGCTTCTGGAGATTACGAACAAGAATAGGATTCATGACCTTTG
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GACTTACTGAATGCATTACCAACATGTTACCAATACAAGAGAAACACACAGTGCCCTTGGTCTGCAC
TTCAGGCTGCCTTTAAATTAATGTCTCCAACAGGTGGCGGTGTGTCTGTATTTACAGACACAGTTACCTTC
CTTGGGTGCAGGACTTCTGCAATCCAGAGAAGATCCTAATCAGAGATCAAGTACAAAGGTGGTACAACAT
CTTGGCCCTGCAACTGATTTTTATAAGAACTTGCAATAGATTGCTCGGACAGCAAACTGCAGTGGATT
TGTTCTTTTAAAGTTCACAGTATTCTGATCTTGCTTCTAGCTTGCATGTCCAAGTATTCTGCAGGGTG
CATCTATTATTATCCATCATTCCACTATACTCACAATCCTTCACAAGCAGAAAAGTTACAAAAAGACCTA
AAACGGTATCTCACAAGAAAAATTGGGTTTGAAGCTGTTATGAGAATAAGGTGTAAGGTGTTTCAA
TGCACACTTTTACGGTAACCTCTTTGTCGGTCTACTGATTTGTTATCCCTTGCCAACATCAATCCTGA
TGCTGGATTTGCGGTGCAGTTGTCAATTGAAGAAAGTTTAAACAGATACTTCTTAGTATGTTTTCAAACA
GCCCTATTATATACATCAAGCAAGGTGAGCGGAGAATTAGAGTACATACACTTTGTTTGCCAGTGGTAA
GTTCACTAGCAGATGTATATGCGGGAGTGGATGTACAAGCTGCCATCTGCCTTCTGGCAACATGGCTGT
GGATCGGTCCGTTTCATCAAGTCTGTGAGTGAAGAGATGCCTTAGTGAATGCTGTAGTGGACTCATTG
TCTGCTATGGCTCAACTGTCTCAAATTTACAGCACTCTGCATTGATGGCGCCAGCTCCCTCAAGTTGT
TTCCTCTCTATGTTTTGGCCCTTCTCAAACAGAAAGCATTAGAACGGGTACAAGCACACGGCTGGATGA
TCGTGTATATGCCATGTGTGAGTAAAGTCTCAGCCACTTGTTCATCTAATGAAATGATTCATCCCAAC
TTATACAGGATAGACAGATTGACAGATGAGGGTGCAGTACATGTTAATGACAGGATTGTACCACAGCCAC
CTCTTCAAAAATTGTCTGCAGAGAAGCTGACAAGAGAAGGTGCTTCTTATGGACTGTGGCTCTGTTTT
TTACATTTGGGTTGGGAAAGGCTGTGACAATACTTCATAGAGGATGTGCTTGGATATACTAATTTTGCA
TCAATACCACAGAAAATGACACATCTCCAGAGCTAGATACACTTTCATCAGAAAGAGCCAGATCCTTCA
TAACTTGGCTTAGAGACAGCAGACCATTAAGTCCAATCCTTCACATAGTAAAAGATGAGAGTCTGCCAA
AGCAGAATTTTTTCAGCATTTGATTGAAGACCGGACAGAGGCTGCATTTTCTACTATGAATTTTGCTT
CATGTTACAGCAGCAGATTGTAAAGTGA

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**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_006323 unedited

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NTTGTTTGAATTTTGGTATACGACTCACTATAGGGCGGCCGGCGATTTCGGCACCAGGCCC
ACCTCCCTGAAGCGGAGCCGCCGTGCGCACAGCGCCGTCATGTCGGCCCCCGCCGGGTC
CTCTACCCCGGCCGCGAGCGCCGGATCCCGCCCAAGTTCGGCGGAGCGCCGTCCTCAGG
AGCCGCAGCGCCCGCGGGCCCGGTGCGGGCCCGCGCCGACCAAGCAGAACGGTCCAGC
CCAGAATCAAATGCAGGTTCCATCTGGATATGGATTGCATCATCAAACTATATTGCTCC
CTCAGGACATTACTCTCAAGGACCTGGGAAAATGACCTCATTGCCATTGGATACCCAGTG
TGGTGATTACTACTCTGCTCTCTATACAGTACCAACACAAAATGTGACTCCTAACACAGT
GAACCAGCAACCAGGAGCACAGCAGTTGTACAGCAGGGGTCTCTGCCCTCATATTGT
GGGATCCACTCTAGGATCTTTCCAAGGTGCTGCATCGTCAGCATCCCATTTGCATACGAG
TGCTCCCAACCATCTCTCTTTGTGAATCACTACAATAGTCCAGCCATGTAATCTGC
CAGCTCTTCTGTTGCGTCTCAGGATTTCCCTCTACTTGTGGTCATTATGCTATGTCAAC
TGTTTCTAATGCCGCGTATCCTAGTGTTTCATATCCCTCTCGCTGCTGGTGATACATA
TGGGCAATGTTTACCTCACAGAATGCTCCGACTGGTAGGCCAGTTANAGATAATTCATT
CTNTGGTCAANATACAGCTATCAGCCATCCATCGCCACTTTCACCTCTACCATCACAACA
GCACCACCAGCAGCAAGTNCCTTAGGGATACAGACTCTTAACGGTGGTCATTTCCAGGGC
TTTCATCGACTCCAGACATCTCATTGAAACACACAGATCCCCTGN

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006323 unedited <pre> CTATGGCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTCAAGCGAA ATAGTTTTAATAGTAGGCTGATCATAAATAAATCTACATAAAAGATTTAACAGAATTAC AAAGAGTTTTGTGTTCTTTGTGGACTCAATTCATAATATGCATTAGTCAACCTCATTCT CTAACTGTGACAAAAAGAGTTGTCATCCAACAATGCAGCACAGTTAAGCAATTCATATG CTATAGTTACATTTTTACATTTTCTTTACAAATGTAACATTTATGTACATTATATATAGA TTTTTTTCTATAGTTCATGTACTGAAACTCTATTGTTTTTACAGAGAAAATGTTGAATTC ATTTAATGAATAAGAAACATTCCTTGTTAAAAAGTAATTCATATAAACAAATAACACGGT ACCAATGCCTTTTGGCATCTCTTGCCAGAGTTCAGTCCAGAAATGTTATATTAATTATA AGAAAAAGAATTTATCTAATTTTACATTATGACATATCATTCCACATAGCTACATAAAT TTGCCAGCTTGCAATGAACAGAGCACTGTACTGCCATACTACTGGAAATGTGTAGAAACC AATTCAAATATACTTGGTGAAACAGCATCATCGTTACCATTAAATTTGAGTTGAAAAAGA TCTGTCAAGTTCTTTCTCCCTTTACTTTTTACCAAAGCCTCAGACAGAGTGCTGTGCG TTGCATCTTGATTAACAAATGCCTTCATTTCAAATTTCTCACGCGCTTCTCTGACAGAT TATGCTTTACCCTAGTTATAGATCTTTTCTTATTCATNTATNCTACTCACTTACAAA TCTGCTGCTGAACATGAAGCANAATTCATAGNTAGAAATGCAGCCTCTGTCCGGTCTTCA TCAATGCTGAAAAATCTGCTTTGCAGACTCTCATCTTACTAGTGAAGATGNACTTAATGT CTGTGCCTTAGCCAGTATGAAGAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006323
Insert Size:	4860 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:	<u>NM_006323.1, NP_006314.1</u>
RefSeq Size:	4758 bp
RefSeq ORF:	3807 bp
Locus ID:	10427
UniProt ID:	<u>Q95487</u>
Cytogenetics:	4q25
Domains:	zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin

Gene Summary:

The protein encoded by this gene is a member of the SEC24 subfamily of the SEC23/SEC24 family, which is involved in vesicle trafficking. The encoded protein is thought to be a cargo-binding component of the COPII vesicle, and is thought to be involved in the transport of secretory proteins from the endoplasmic reticulum to the Golgi apparatus. Mutations in this gene have been associated with neural tube defects, and are thought to be a result of a disruption in interactions with the protein encoded by the VANGL planar cell polarity protein 2 (VANGL2) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) lacks an in-frame exon in the 5' coding region and uses an alternate in-frame splice site in the central coding region, compared to variant 3. The encoded isoform (a) is shorter, compared to isoform c.