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# Product datasheet for SC110085

## SEC24C (NM_004922) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | Tag Free |
| **Symbol:** | SEC24C |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>NCBI ORF sequence for NM_004922, the custom clone sequence may differ by one or more nucleotides

ATGAACGTCAACCAGTCAGTTCCACCTGTGCCACCATTTGGGCAGCCCCAGCCCATCTACCCAGGGTATC
ATCAGTCCAGCTATGGTGGGCAATCAGGGTCCACAGCCCCCGCCATTCCCTATGGAGCCTACAATGGCCC
AGTACCAGGCTATCAGCAAACACCTCCCCAAGGTATGTCAAGAGCCCCACCTTCCTCGGGGGCACCTCCA
GCCTCAACAGCACAGGCTCCTTGTGGCCAGGCTGCATATGGCCAGTTTGGCCAAGGAGATGTACAGAATG
GGCCAAGCTCCACTGTTCAGATGCAAAGGCTGCCTGGGTCTCAGCCATTTGGGTCCCCATTGGCCCCTGT
GGGCAACCAGCCACCTGTGCTTCAGCCCTATGGCCCTCCCCCGACAAGTGCACAGGTGGCTACGCAGCTG
TCTGGAATGCAGATCAGCGGTGCTGTGGCCCCAGCCCCTCCTTCTTCAGGGCTGGGCTTTGGCCCACCAA
CATCGCTGGCTTCAGCCTCAGGAAGTTTCCCTAACTCTGGTCTGTATGGCTCCTATCCTCAGGGCCAGGC
TCCTCCCCTTAGCCAGGCCCAAGGTCATCCTGGGATCCAGACTCCCCAGCGATCTGCCCCATCACAGGCC
TCCAGCTTCACACCCCCAGCTTCAGGGGGTCCTCGGCTGCCTTCGATGACTGGTCCACTCCTGCCTGGAC
AGAGTTTTGGAGGGCCCTCAGTGAGCCAGCCCAACCATGTGTCTTCACCTCCTCAAGCTCTGCCCCCTGG
CACCCAGATGACTGGGCCCCTGGGACCACTGCCACCTATGCACTCCCCGCAGCAGCCAGGCTATCAGCCC
CAACAAAATGGTTCCTTCGGACCAGCCCGGGGCCCTCAGTCTAATTATGGAGGCCCCTACCCAGCAGCAC
CCACCTTTGGCAGTCAGCCTGGGCCTCCTCAGCCACTGCCTCCTAAGCGCCTGGACCCTGATGCCATCCC
AAGCCCTATTCAGGTCATTGAAGATGACAGGAACAACCGGGGTACAGAGCCATTTGTTACTGGAGTACGG
GGCCAGGTGCCACCCTTAGTCACTACCAACTTCCTGGTGAAAGACCAAGGGAATGCAAGTCCCCGATACA
TCCGATGTACATCCTATAATATCCCTTGCACATCTGACATGGCTAAGCAGGCTCAGGTGCCCCTGGCAGC
AGTCATCAAACCGCTGGCAAGGCTGCCCCCAGAGGAGGCTTCACCGTATGTTGTGGACCATGGGGAATCT
GGCCCTTTGCGCTGCAACCGCTGCAAAGCATACATGTGTCCCTTCATGCAGTTCATTGAAGGAGGGAGGC
GTTTCCAGTGCTGTTTTTGCAGCTGTATCAATGATGTTCCCCCCCAGTATTTTCAGCACCTGGATCATAC
CGGCAAACGTGTGGATGCTTATGACCGCCCTGAGCTATCCCTGGGCTCTTATGAATTCTTGGCCACTGTA
GATTACTGCAAGAACAATAAGTTCCCCAGCCCTCCTGCCTTTATCTTCATGATTGACGTCTCCTACAATG
CCATCAGGACTGGTCTTGTTAGGCTCCTCTGTGAGGAGCTCAAGTCACTGTTAGACTTTCTACCTAGGGA
GGGTGGGGCAGAAGAGTCAGCAATCCGCGTTGGCTTTGTCACCTACAATAAGGTGCTCCACTTCTATAAT
GTGAAGAGCTCATTGGCCCAGCCACAGATGATGGTTGTGTCTGATGTGGCTGACATGTTTGTGCCACTGC
TGGATGGCTTCCTGGTCAACGTCAATGAGTCTCGGGCAGTTATCACCAGCTTATTGGATCAGATTCCAGA
AATGTTTGCAGACACAAGGGAAACAGAGACAGTATTTGTACCAGTTATCCAGGCTGGAATGGAGGCTCTG
AAGGCTGCTGAGTGTGCAGGGAAGCTCTTTCTATTCCATACATCCCTGCCCATTGCAGAGGCCCCAGGGA
AACTGAAGAACAGAGATGACAGGAAGCTGATCAATACAGACAAGGAGAAGACTCTGTTCCAGCCTCAGAC
AGGTGCCTATCAGACCCTGGCCAAAGAGTGTGTGGCCCAAGGCTGCTGTGTAGATCTCTTTCTCTTCCCT
AACCAGTATGTGGATGTGGCCACACTCTCTGTTGTGCCCCAGCTCACTGGTGGCTCTGTCTACAAATATG
CTTCCTTTCAGGTGGAGAACGACCAGGAGCGGTTCCTGAGTGACCTGCGTCGTGATGTCCAGAAGGTTGT
TGGCTTTGATGCTGTGATGCGGGTCCGGACAAGCACTGGTATCCGTGCTGTAGATTTCTTTGGAGCTTTC
TACATGAGCAACACGACAGATGTGGAGCTGGCTGGGCTAGATGGGGACAAAACAGTGACTGTGGAGTTCA
AGCATGACGATCGGCTCAATGAAGAGAGCGGAGCTCTCCTGCAGTGTGCCCTGCTTTACACCAGCTGTGC
AGGGCAGCGTCGGCTCCGCATCCATAATCTGGCCCTGAACTGCTGCACCCAGCTGGCTGATCTATATCGA
AACTGTGAGACTGACACGCTCATCAACTACATGGCCAAGTTTGCATATCGGGGAGTCCTGAATAGCCCTG
TGAAGGCTGTTCGTGACACGCTCATCACCCAGTGTGCCCAGATCCTGGCCTGTTACAGAAAGAACTGTGC
TAGCCCCTCCTCTGCAGGACAGTTGATCCTTCCTGAGTGCATGAAGCTACTCCCAGTTTACCTGAACTGT
GTGTTGAAGAGTGATGTCCTGCAGCCTGGAGCTGAAGTCACTACTGATGACCGTGCCTATGTCCGACAGC
TAGTTACCTCCATGGATGTGACTGAGACCAATGTCTTCTTCTACCCTCGGCTCTTACCTTTGACAAAGTC
TCCCGTTGAGAGTACTACCGAACCACCAGCAGTTCGAGCCTCTGAAGAGCGTCTAAGCAATGGGGATATA
TATTTACTGGAGAATGGGCTCAACCTCTTCCTCTGGGTGGGAGCAAGCGTCCAACAGGGTGTTGTCCAGA
GCCTTTTCAGCGTCTCCTCCTTCAGTCAGATCACCAGTGGTTTGAGTGTTCTGCCAGTTCTGGATAATCC
ACTGTCCAAGAAGGTTCGAGGCCTCATTGATAGCTTACGGGCACAGAGATCCCGGTACATGAAGCTTACC
GTGGTGAAACAGGAAGACAAGATGGAGATGCTGTTCAAGCACTTCCTGGTGGAAGACAAGAGTCTGAGTG
GGGGAGCATCTTATGTGGACTTTCTCTGTCATATGCACAAGGAGATTCGGCAGCTACTGAGCTAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_004922 unedited
ACATTTTGTAATACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGCCTTGACGTT
AGGAACGAAGTCTAACCTGGATCTGGAGCCGGGTGAGATCAAATTGGGAATGCTTTCATA
ATGAACGTCAACCAGTCAGTTCCACCTGTGCCACCATTTGGGCAGCCCCAGCCCATCTAC
CCAGGGTATCATCAGTCCAGCTACGGTGGGCAATCAGGGTCCACAGCCCCCGCCATTCCC
TATGGAGCCTACAATGGCCCAGTACCAGGCTATCAGCAAACACCTCCCCAAGGTATGTCA
AGAGCCCCACCTTCCTCGGGGGCACCTCCAGCCTCAACAGCACAGGCTCCTTGTGGCCAG
GCTGCATATGGCCAGTTTGGCCAAGGAGATGTACAGAATGGGCCAAGCTCCACTGTTCAG
ATGCAAAGGCTGCCTGGGTCTCAGCCATTTGGGTCCCCATTGGCCCCTGTGGGCAACCAG
CCACCTGTGCTTCAGCCCTATGGCCCTCCCCCGACAAGTGCACAGGTGGCTACGCAGCTG
TCTGGAATGCAGATCAGCGGTGCTGTGGCCCCAGCCCCTCCTTCTTCAGGGCTGGGCTTT
GGCCCACCAACATCGCTGGCTTCAGCCTCAGGAAGTTTCCCTAACTCTGGTCTGTATGGC
TCCTATCCTCAGGGCCAGGCTCCTCCCCTTAGCCAGGCCCAAGGTCATCCTGGNGATCCA
GACTCCCCAGCGATCTGCCCCATCACAGGCCTCCAGCTTCACACCCCCAGCTTCAGGGGG
TCCTCGGCTGCCTTCGATGACTGGTCCACTCCTGCCTGGACAGAGTTNTGGGAGGCCCTC
AGTGAGCCAGCCCAACCATGTGTCTTCACCTNCTCAAGCTCTGCCCCCTGGCACCCAGAT
GACTGGGCCCCTGGGACCACTGNTCACTATGCACTCCCCGCAGCAGCCAGCTATCAGCCC
ACAAAATGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_004922 unedited
NTCNTTGNCCGCGGCCGCATTCTANGATCGGTTTTTTTTTTTTTTTTTTTTTTTTACA
TCTTAATTTATTTTATTTCTTTACAAATTAAAGATGCATTGGAAAAATAAACCAATGGAA
GAGAAATGAGAGGTCCAGAGCAGGGGCATCCCAGGTGGGGAGCAGGCAAGCCTGGCCACC
ATCAAGCCTAGCCCTTGTCCTGCCCCCAAGCCAGTTGGGGTTGGAAGATAACTGTCAGCC
ACTCAGTCAATACCAAAGCCCAAGCGGTGTCCCAGCAGGAGAGAACGGCGCTCCAGCTGC
CTCTGCCTCTCTCCCCAACAACCCCGGGCCTGGAGAAGCAGTGTTTCTCGTGGGAGCTCA
AAGTGGGATGTGAACTGGCTCTGTGAGGTATTGCAAGTTGATGACCAGGCTCCCTAGGCT
CCCTACAGAACCATCCAGTGTTGGGGCCTCTCCAGCTGGAAAGGAAGCTGGTACCTCTAC
CAGATCTTAATATATTTTGCAACTCAGTTCTCCGGTCACCTCTGACAGTGTGCCTCTCTA
TCCACGGAGTGATCATCAATCATTGCAGGAGAGAGCGAGCGAGCAGTGAAAGCAGAGAAA
CTTGACTGCTAACCTCCAGGCCCAAGAAGGACTGACCACTTTTCTCTCCACCACCTATGG
GCTATACCCCAGCTTTTGTGCACCTATATGTTTTATCCCTAATATAGGAGTTGTGGATGA
CACTGGACCCCCTGTAGTAACCTTAGGATCCCCAATTTTTCTGGCTGCCCCCTTCTTTTG
GGAGATGGTCCAAGGGACCATATATTGCCAGGTCTGGGGGCCCCAACCCCCATACCGATT
TTTTCCGGGAACTGGCAAGCTCTTTTTTTTTGACGGATATCCGAAAAGAGGGTAATTGGG
GAACAGGGCCCTTTCATCCCGGACATACAAATGGGGGATT

**Restriction Sites:** NotI-NotI

**ACCN:** NM_004922

**Insert Size:** 4760 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NM_004922.2, NP_004913.2 |
| **RefSeq Size:** | 4563 bp |
| **RefSeq ORF:** | 4563 bp |
| **Locus ID:** | 9632 |
| **UniProt ID:** | P53992 |
| **Cytogenetics:** | 10q22.2 |
| **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 has similarity to yeast Sec24p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. The product of this gene may play a role in shaping the vesicle, as well as in cargo selection and concentration. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]<br>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. |