

## Product datasheet for **SC323875**

### Sec8 (EXOC4) (NM\_021807) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | Sec8 (EXOC4) (NM_021807) Human Untagged Clone |
| Tag:                      | Tag Free                                      |
| Symbol:                   | Sec8  |
| Synonyms:                 | SEC8; SEC8L1; Sec8p                           |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC (PS100020)                           |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |

**Fully Sequenced ORF:** >OriGene sequence for NM\_021807.3  
 CCCGCGTCCAAGATGGCGGCAGAACGACAGCTGGTGGGAAATACAGAAGCACAGTCAGCAAA  
 AGCAAAGACCCCTCGGGGCTGCTCATCTCTGTGATCAGGACTCTGTCTACTAGTGACGAT  
 GTCGAAGACAGGAAAATGAAAAGGGTCGCCTTGAAGAAGCCTACGAGAAATGTGACCGT  
 GACCTGGATGAATTGATTGTACAGCACTACACAGAATTGACGACAGCCATTTCGCACATAC  
 CAGAGCATCACAGAGCGCATCACTAACTCCCGAAATAAAATAAAGCAGGTAAAAGAGAAC  
 CTGCTTTCATGCAAGATGCTGCTGCACTGCAAACGGGATGAGCTTCGAAACTGTGGATT  
 GAAGGAATTGAGCATAAGCATGCTCTGAACTTGTGGATGAAATTGAGAATATCAAGCAA  
 GTGCCTCAAAAGCTGGAACAGTGCATGGCCAGCAAGCACTATCTCAGTGCCACTGACATG  
 TTGGTGTGACAGTTGAGTCTTTGGAGGGCCCCCTGCTCCAGGTGGAAGGACTGAGTGAC  
 CTTGACTAGAGCTTACAGCAAGAAGATGAACCTTCACTTGGTTCTCATAGATGAACTA  
 CACCGGCACCTGTACATCAAATCGACTAGCCGAGTTGTGACGCGTAACAAGGAAAAAGGG  
 AAAATCAGCTCCCTCGTGAAGATGCTTCTGTTCTCTGATTGATGTTACAAACCTCCCT  
 ACTCCTCGAAAATTCCTTGATACCTCTCACTATTCTACTGCTGGAAGCTCAAGTGTGAGG  
 GAGATAAATCTGCAGGACATCAAGGAAGATTTAGAATTGGATCCAGAGGAAAAACAGCACC  
 CTGTTTATGGGTATCCTCATTAAAGGGCTTGCGGAAACTGAAGAAGATCCCAGAAACAGTT  
 AAGGCAATCATAGAGCGCTTGGAGCAGGAGTTGAAGCAAATTGTGAAGAGGTCTACAACC  
 CAGGTGGCAGACAGTGGCTATCAGCGGGGGGAGAACGTTACTGTGGAGAACCAACCAAGG  
 TTGCTTTAGAACTGCTGGAGTTACTGTTTGACAAGTTTAAATGCTGTAGCCGCTGCACAC  
 TCTGTGGTCTGGGATACCTGCAGGACACTGTAGTGACTCCACTGACTCAGCAGGAAGAT  
 ATCAAACCTGTATGATATGGCAGATGTATGGGTGAAGATCCAAGATGTTCTACAGATGCTA  
 TTAAGTACTGACTTGGATATGAAAAATACTCGTACGGCCTCTGAACCATCAGCTCAACTA  
 AGCTATGCCAGCACTGGACGAGAGTTTGCAGCCTTTTTTGCCAAGAAGAAACCTCAAAGG  
 CCAAAAAATTCTTTTTCAAGTTCGAATCGTCTCCCATGCCATCAGTATGAGCGCTAT  
 CTGCGAGAACAGAGAAGGGAGCTCTATAGTCGGAGTGGAGAACTGCAAGGGGGTCTGAT  
 GACAACCTACTTGAAGGTGGAGGAACAAAATTTGTCTGCAAACCTGGAGCCAGAAACATT  
 ACCGTCATATTCCACCCATTACTAAGATTTATTACAGGAGATTGAGCATGCTCTGGTCTT



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GGCCAGCCAAACAGTGTCTCTTCGAGAGTTTCTCACCGTGTACATCAAAAACATCTTT  
 CTCAATCAAGTCTTGGCTGAGATCAACAAGGAGATTGAAGGAGTCACTAAAAATCTGAC  
 CCTTTGAAGATTCTGGCCAACGCAGACACCATGAAGGTGCTGGGAGTGCAGCGGCCTCTC  
 CTACAGAGCACAATCATTGTGGAGAAGACAGTTCAAGACCTCCTGAACCTGATGCATGAC  
 TTGAGTGCATATTCAGATCAATTCCTCAACATGGTGTGCGTGAAGCTCCAGGAGTACAAG  
 GACACCTGCAGTGCAGCTTACAGGGGATTGTCCAGTCAGAAGAAAAACTTGCATCAGT  
 GCATCCTGGGCAAAAGATGATGATATCAGCAGACTCTTCAAATCTCTACCAAACCTGGATG  
 AATATGGCTCAACCCAAACAGCTGAGGCCAAAAAGAGAGGAGGAAGAAGATTTCAAAAGG  
 GCAGCTTTTGGCAAGGAGTCTGAAGTTCTTATTGGGAACCTGGGTGATAAATTAATCCCT  
 CCACAAGACATCCTTCGTGACGTGACCTCAAAGCCTTGGCCAACATGCATGAAAGC  
 CTGGAATGGTTGGCAAGTCAACAAAGTCAGCTTTCTCCAATCTTTCTACATCCCAGATG  
 CTTTCTCCTGCTCAAGACAGCCACACGAACACGGATCTCCCCCAGTGTGAGAGCAGATC  
 ATGCAGACTCTCAGTGAACCTGCCAAATCGTTCAGGATATGGCTGACCGCTGCTTGCTT  
 GTCTTACATCTGGAAGTGAAGGTTCACTGTTTCCACTATCTTATCCCTCTTGCAAAGGAG  
 GGGAACTATGCCATTGTGGCTAATGTGGAAGTATGGATTATGACCCCTGGTGGTCAAG  
 CTCACAAAGATATCAGCGCCATTGAAGAGGCCATGAGCGCCAGCCTTCAGCAGCACAAG  
 TTCCAGTATATCTTGAAGGCCTGGGCCACCTGATCTCCTGCATCCTTAATGGTGCC  
 CAGTACTTCAGGCGCATCAGTGAGTCTGGCATCAAGAAAATGTGTAGGAACATTTTTGTT  
 CTTCAGCAGAATTTGACCAACATCACCATGTCCGGGAGGCAGACCTGGACTTTGCAAGG  
 CAGTACTACGAGATGCTTTACAACACAGCTGACGAGCTCCTGAACCTGGTGGTGGACCAG  
 GGTGTGAAGTACACGGAGCTGGAGTACATCCACGCTCTGACCCTGCTGCACCGCAGCCAA  
 ACTGGGGTGGGGAACTGACCACCCAGAACACGAGGCTGCAGAGGCTCAAAGAGATCATC  
 TGCGAGCAGGCTGCCATCAAGCAAGCCACCAAGGACAAGAAGATAACTACCGTTTAGCAG  
 GGCGTACTGCGGTTGGTACGGGGTCCCCTCAGTCACACTCACTTTTTTCTTGGTATG  
 TTATTGAGTATATTCTGAGCTTAGTTTTCTTACAGTGATACTTTAGTGGAGAGGAGGTG  
 TAAGGATTCTTTCTCTGGTTTTGGCTTTTCATATAAATGCTAAAGGAAGGCGACAGTA  
 CAGAGTGTGGTTGAACAACACTTTAATGCAGTCAAATCTAACGGGACTAGGGTGGG  
 ATAGGGAGGAAGGTGGTATCAAATGTTGGACTCTGAAAAACAAGTGGATGGATTACTAA  
 TATTTGATTTATTACTCAATATATATAAATCCAGCCTTGGAAGTAGGAAAGTAGGCT  
 GCTACCTAACTTTAGTCCCTTCCAAAACCATTTAGTAGGTTCTATTACATAAACAGTA  
 GGGTTTTTCTCTCCTGACCTTATCCGTTTACAGTTCAATGAAATAAGTGTATGTGCATT  
 GCTGTCTGTCTATTGCCAAAATCAAATAAATGGCTTCTCAGCTGCTGTTTACAACAAA  
 CTTCCCTAACCAAAACAGAACCTCTAATTTAGGGCTAGGAATAGAAGTCTTTTGATCCCA  
 GTCCGTGGGACAGTTTTGTATGCTGTATCTTGTACACAGGTTGTAGGTTGGTTTTATTGCC  
 ATTTTGTTTTATTTCTGTATATAAAAACCAAGAGCCAGACAATTAGACAACATATGGAGG  
 AATGAAAGGCAATTCAAACATCTGCTTGATTCCCGCCCGCCACCCTAATTTCTGAGAG  
 AATAATGGTTAGAGAACATTGCATCTCACTTGAACATCCTTTGGGGTAAATGATTCTT  
 AGGTGCTCACTTGGTCTGAGCTCAGCTGAATGCAGGGAAGATGGGACAGAGTGACATTC  
 TCCTCTGTGCGGCCTCCAGCTGAGCCTGTCTCTGAATTGTTCCCTCCCCGCAATGTGGG  
 CACTTACCATGTTCTTGGCACACTGGACCTACCATGTCCCCCGTCAACAGTCCCTTTG  
 CTGCCATGGTTCATAGTGCATAGAAGGCAAGTGCAGTACTGGGCCATCTTGAAA  
 ACTCGTGGAAAGGAAAGGGGAGGAGATGGGACTTTGACCACACAGTGTGCCTCACA  
 CCCTGAAGGTGGGGATTTTGTACCTGTTTGTACAACCTTGGTCTTGATGGGAAAAATGG  
 AGAATTAAGTGTGGTGGAGAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT  
**ACCN:** NM\_021807

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <u><a href="#">NM_021807.3</a></u> , <u><a href="#">NP_068579.3</a></u>  |
| <b>RefSeq Size:</b>           | 4203 bp  |
| <b>RefSeq ORF:</b>            | 2925 bp  |
| <b>Locus ID:</b>              | 60412  |
| <b>UniProt ID:</b>            | <u><a href="#">Q96A65</a></u>  |
| <b>Cytogenetics:</b>          | 7q33   |
| <b>Domains:</b>               | Sec8_exocyst   |
| <b>Protein Pathways:</b>      | Tight junction   |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is a component of the exocyst complex, a multiple protein complex essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Though best characterized in yeast, the component proteins and functions of exocyst complex have been demonstrated to be highly conserved in higher eukaryotes. At least eight components of the exocyst complex, including this protein, are found to interact with the actin cytoskeletal remodeling and vesicle transport machinery. The complex is also essential for the biogenesis of epithelial cell surface polarity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p> |