

## Product datasheet for **RG209487**

### Sec8 (EXOC4) (NM\_021807) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | Sec8 (EXOC4) (NM_021807) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | Sec8  |
| Synonyms:                 | SEC8; SEC8L1; Sec8p                             |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                         |
| E. coli Selection:        | Ampicillin (100 ug/mL)                          |



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ORF Nucleotide  
Sequence:

>RG209487 representing NM\_021807  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCAGAAGCAGCTGGTGGGAAATACAGAAGCACAGTCAGCAAAGCAAAGACCCCTCGGGGCTGC  
 TCATCTCTGTGATCAGGACTCTGTCTACTAGTGACGATGTCGAAGACAGGGAAAATGAAAAGGGTCGCCT  
 TGAAGAAGCCTACGAGAAATGTGACCGTGACCTGGATGAATTGATTGTACAGCACTACACAGAATTGACG  
 ACAGCCATTTCGCACATACCAGAGCATCACAGAGCGCATCACTAACTCCCGAAAATAAAATAAAGCAGGTAA  
 AAGAGAACCTGCTTTCATGCAAGATGCTGCTGCACTGCAAACGGGATGAGCTTCGGAAAATGTGGATTGA  
 AGGAATTGAGCATAAGCATGTCTGAACTTGTGGATGAAATTGAGAATATCAAGCAAGTGCCTCAAAG  
 CTGGAACAGTGCATGGCCAGCAAGCACTATCTCAGTGCCACTGACATGTTGGTGCAGCAGTTGAGTCTT  
 TGGAGGGCCCCCTGCTCCAGGTGGAAGGACTGAGTGACCTTCGACTAGAGCTTCACAGCAAGAAGATGAA  
 CCTTCACTTGGTTCTCATAGATGAACTACACCGGCACCTGTACATCAAATCGACTAGCCGAGTTGTGCAG  
 CGTAACAAGGAAAAAGGGAAAATCAGCTCCCTCGTGAAGATGCTTCTGTTCCCTCTGATTGATGTTACAA  
 ACCTCCCTACTCCTCGAAAATTCCTTGATACCTCTCACTATTCTACTGCTGGAAGCTCAAGTGTGAGGGA  
 GATAAATCTGCAGGACATCAAGGAAGATTTAGAATTGGATCCAGAGGAAAACAGCACCCCTGTTTATGGGT  
 ATCCTCATTAAAGGGCTTGGCGAAACTGAAGAAGATCCCAGAAAACAGTTAAGGCAATCATAGAGCGCTTGG  
 AGCAGGAGTTGAAGCAAATTTGTGAAGAGGTCTACAACCCAGGTGGCAGACAGTGGCTATCAGCGGGGGGA  
 GAACGTTACTGTGGAGAACCAACCAAGGTTGCTTCTAGAAGTCTGGAGTTACTGTTTGACAAGTTAAT  
 GCTGTAGCCGCTGCACACTCTGTGGTCTGGGATACCTGCAGGACACTGTAGTGACTCCACTGACTCAGC  
 AGGAAGATACAACTGTATGATATGGCAGATGTATGGGTGAAGATCCAAGATGTTCTACAGATGCTATT  
 AACTGAGTACTTGGATATGAAAAATACTCGTACGGCCTCTGAACCATCAGCTCAACTAAGCTATGCCAGC  
 ACTGGACGAGAGTTTGCAGCCTTTTTTGGCAAGAAGAAACCTCAAAGGCCAAAAAATTTCTTTTTCAAGT  
 TCGAATCGTCTCCCATGCCATCAGTATGAGCGCCTATCTGCGAGAACAGAGAAGGGAGCTCTATAGTCG  
 GAGTGGAGAAGTCAAGGGGGTCTGATGACAACCTACTTGAAGGTGGAGGAACAAAATTTGCTGCAAAA  
 CCTGGAGCCAGAAAACATTACCGTCATATCCACCCATTACTAAGATTTATTCAGGAGATTGAGCATGCTC  
 TGGGTCTTGGCCAGCCAAACAGTGTCTCTTCGAGAGTTTCTCACCGTGTACATCAAAAACATCTTTCT  
 CAATCAAGTCTTGCTGAGATCAACAAGGAGATTGAAGGAGTCACTAAAACATCTGACCCTTTGAAGATT  
 CTGGCCAAACGCAGACACCATGAAGGTGCTGGGAGTGCAGCGGCCCTCCTACAGAGCACAATCATTGTGG  
 AGAAGACAGTTCAAGACCTCCTGAACCTGATGCATGACTTGAGTGATATTCAGATCAATTCCTCAACAT  
 GGTGTGCGTGAAGCTCCAGGAGTACAAGGACACCTGCACTGCAGCTTACAGGGGTATTGTCCAGTCAGAA  
 GAAAAACTTGTATCAGTGCATCCTGGGCAAAAGATGATGATATCAGCAGACTCTTGAAATCTCTACCAA  
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 AGCTTTTGGCAAGGAGTCTGAAGTTCTTATTGGGAACCTGGGTGATAAATTAATCCCTCCACAAGACATC  
 CTTCTGACGTCAGTGACCTCAAAGCCTTGGCCAAACATGCATGAAAGCCTGGAATGGTTGGCAAGTCGAA  
 CAAAGTCAGCTTTCTCCAATCTTTCTACATCCCAGATGCTTTCTCCTGCTCAAGACAGCCACACGAAAC  
 GGATCTCCCCCAGTGTGAGAGCAGATCATGCAGACTCTCAGTGAACCTGCAAAATCGTTCCAGGATATG  
 GCTGACCGCTGCTTGTCTTACATCTGGAAGTGAGGGTTCACTGTTTCCACTATCTTATCCCTCTTG  
 CAAAGGAGGGGAACTATGCCATTGTGGCTAATGTGAAAGTATGGATTATGACCCCTGGTGGTCAAGCT  
 CAACAAAGATATCAGCGCCATTGAAGAGGCCATGAGCGCCAGCCTTACAGCAGCACAAGTTCCAGTATATC  
 TTCGAAGGCTGGGCCACCTGATCTCCTGCATCCTCATTAAATGGTGCCAGTACTTCAGGCGCATCAGTG  
 AGTCTGGCATCAAGAAAATGTGTAGGAACATTTTTGTTCTTACAGCAGAATTTGACCAACATCACCATGTC  
 GCGGGAGGCAGACCTGGACTTTGCAAGGCAGTACTACGAGATGCTTTACAACACAGCTGACGAGCTCCTG  
 AACCTGGTGGTGGACCAGGGTGTGAAGTACACGGAGCTGGAGTACATCCACGCTCTGACCCTGCTGCACC  
 GCAGCCAAACTGGGTGGGGAACTGACCACCCAGAACACGAGGCTGCAGAGGCTCAAAGAGATCATCTG  
 CGAGCAGGCTGCCATCAAGCAAGCCACCAAGGACAAGAAGATAACTACCGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209487 representing NM\_021807  
 Red=Cloning site Green=Tags(s)

MAAEAAGKYRSTVSKSKDPSGLLISVIRTLSTDDVEDRENEKGRLEEAYEKCDRDLDELIVQHYTELT  
 TAIRTYQSITERITNSRNKIKQVKENLLSCKMLLHCKRDELRLWIEGIEHKKHVLNLLDEIENIKQVPQK  
 LEQCMASKHYLSATDMLVSAVESLEGPLLQVEGLSDLRLELHSHKMMNLHLVLIDELHRHL YIKSTSRVVQ  
 RNKEKGKISSLVKDasVPLIDVTNLPTPRKFLDTSHYSTAGSSSVREINLQDIKEDLELDPEENSTLFMG  
 ILIKGLAKLKKIPETVKAIIERLEQELKQIVKRSTTQVADSGYQRGENVTVENQPRLLLELLELLELDFKFN  
 AVAAAHSVVLGYLQDVTVPTLTQQEDIKLYDMADVWVKIQDVLQMLL TEYLDMKNTRTASEPSAQLSYAS  
 TGREFAAFFAKKKPQRPKNSLFKFESSSHAISMSAYLREQRREL YSRSGELQGGPDDNLEGGGKTFVCK  
 PGARNITVIFHPLLRFIQEIEHALGLGPAKQCPLREFLTVYIKNIFLNQVLAEinKEIEGVTKTSdPLKI  
 LANADTMKVLGVQRLLQSTIIIVEKTVQDLLNLMHDL SAYSDQFLNMVCVKLQEYKDTCTAAYRGIVQSE  
 EKLVISASWAKDDDISRLKSLPNWMMAPKQLRPKREEEEDF IRAAFGKSEVLIGNLGDKLIPPQDI  
 LRDVSDLKALANMHESLEWLASRTKSAF SNLSTSQMLSPAQDSHTNTDLPVSEQIMQTLSELAKSFQDM  
 ADRCLLVHLVVRVHCFHYLIPLAKEGNYAIVANVESMDYDPLVVKLNKDISAIEEAMSASLQGHKFQYI  
 FEGLGHLISCIILINGAQYFRRISSESGIKMCRNIFVLQQLNTNITMSREADLDFARQYYEMLYNTADELL  
 NLVVDQGVKYTELEYIHALTLLHRSQTGVGELTTQNTRLQRLKEIICEQAAIKQATKDKKITTV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

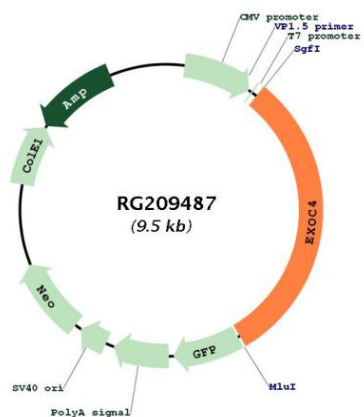


ACCN: NM\_021807

ORF Size: 2922 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <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>                | <a href="#">NM_021807.3</a> , <a href="#">NP_068579.3</a>  |
| <b>RefSeq Size:</b>           | 4203 bp  |
| <b>RefSeq ORF:</b>            | 2925 bp  |
| <b>Locus ID:</b>              | 60412  |
| <b>UniProt ID:</b>            | <a href="#">Q96A65</a>   |
| <b>Cytogenetics:</b>          | 7q33   |
| <b>Domains:</b>               | Sec8_exocyst   |
| <b>Protein Pathways:</b>      | Tight junction   |
| <b>Gene Summary:</b>          | 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] |

Product images:



Circular map for RG209487