

Product datasheet for SC102359

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC102359 sequence for NM_021807 edited (data generated by NextGen Sequencing)

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ATGGCGGCAGAACGACAGCTGGTGGGAAATACAGAAGCACAGTCAGCAAAGCAAAGACCCC
TCGGGGCTGCTCATCTCTGTGATCAGGACTCTGTCTACTAGTGACGATGTCGAAGACAGG
GAAAATGAAAAGGGTCGCCTTGAAGAAGCCTACGAGAAATGTGACCGTGACCTGGATGAA
TTGATTGTACAGCACTACACAGAATTGACGACAGCCATTCGCACATACCAGAGCATCACA
GAGCGCATCACTAACTCCCGAAATAAAATAAAGCAGGTAAGAGAACTGCTTTTCATGC
AAGATGCTGCTGCACTGCAAACGGGATGAGCTTCGGAACTGTGGATTGAAGGAATTGAG
CATAAGCATGCTCCTGAACCTTGTGGATGAAATTGAGAATATCAAGCAAGTGCCTCAAAG
CTGGAACAGTGCATGGCCAGCAAGCACTATCTCAGTGCCACTGACATGTTGGTGCAGCA
GTTGAGTCTTTGGAGGGCCCCCTGCTCCAGGTGGAAGGACTGAGTGACCTTCGACTAGAG
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CACCCATTAAGATTTATTCAGGAGATTGAGCATGCTCTGGGTCTTGGCCAGCCAAA
 CAGTGTCTCTTCGAGAGTTTCTCACCGTGTACATCAAAAACATCTTTCTCAATCAAGTC
 TTGGCTGAGATCAACAAGGAGATTGAAGGAGTCACTAAAAACATCTGACCCTTTGAAGATT
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 ATGCTTTACAACACAGCTGACGAGCTCCTGAACCTGGTGGTGGACCAGGGTGTGAAGTAC
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 GAACTGACCACCCAGAACACGAGGCTGCAGAGGCTCAAAGAGATCATCTGCGAGCAGGCT
 GCCATCAAGCAAGCCACCAAGGACAAGAAGATAACTACCGTTTAG

Clone variation with respect to NM_021807.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021807 unedited
 ATTATGTAATACGACTCACTATAGGGCGCCGCAATTCGGCAGGCCCAAGATGGCGG
 CAGAAGCAGCTGGTGGGAAATACAGAAGCACAGTCAGCAAAAGCAAAGACCCCTCGGGG
 TGCTCATCTCTGTGATCAGGACTCTGTCTACTAGTGACGATGTCGAAGACAGGAAAAATG
 AAAAGGGTCGCCTTGAAGAAGCCTACGAGAAATGTGACCGTGACCTGGATGAATTGATTG
 TACAGCACTACACAGAATTGACGACAGCCATTGACACATACCAGAGCATCACAGAGCGCA
 TCACTAACTCCCGAAATAAAATAAAGCAGGTAAGAGAACTGCTTTTCAAGATGCAAGATGC
 TGCTGCACTGCAAACGGGATGAGCTTCGGAACTGTGGATTGAAGGAATTGAGCATAAGC
 ATGTCCTGAACTTGTGGATGAAATTGAGAATATCAAGCAAGTGCCTCAAAGCTGGAAC
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 CTTTGGAGGGCCCTGCTCCAGGTGGAAGGACTGAGTGACCTTCGACTAGAGCTTCACA
 GCAAGAAGATGAACCTTCACTTGGTTCTCATAGATGAACTACACCGGCACCTGTACATCA
 NATCGACTAGCCGAGTTGTGACGCTAACAAGGAAAAGGANAATCAGCTCCCTCGTGAA
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 ACCTCTCACTATTCTACTGCTGGAAGCTCAAGTGTGAGGGAGATAAATCTTGACAGATC
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 GGGCTGNCGAACTGAAGAAGACCCAGNAACAGTTAAGCAATCTAAAACGCTGTAGCAGA
 GTTGACAAATGTGAAAGTCTCAACCAAGTGC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021807 unedited TGGGCACACCCTCGAGTGNNCGAGTAAAAANCCCTTTTTTTTTTTAAGCTNCTCAATCTC GTTTTAATTCTTCTTTTTTCCCATCAAGACCAAAGTTGTACAAACAGGTACAAAATCCCC CACCTTCAGGGTGTGAGGCATCACTGTGTGGTCAAAGTCCCATCTCCTCCCCTTTCCC TTTCCACGAGTTTTCAAGATGTGGCCAGTCTGTGCATTGCTGCCTTCTATGACCTATGA ACCATGGGCAGCAAGAGGACTGGTGACCGGGGACATGGTGAGGTCCAGTGTGCCAGGAA CATGGTAAGTGCCACATTGCGGGGAGGGAACAATTCAGAGACAGGCTCAGCTGGATGC CGCACAGAGGAGAAATGTTACTCTGTCCCATCTTCCCTGCATTGCTGAGCTTCCAGACC AAGTGAGCACCTAACACTCATTTACCCCAAAGGATGTTCCAAGTGAGATGCAATGCTCT CTAACCATTATCCTCTAAGAAATTACGGGCGGTGGCGCGCGATCAAGCCCATGGTTTGA ATTGCCTTTTATTCTCCATACTCGCTAATTGTCTGGCTCTTGGTTTTTTCTCCCCAA CACACTTCGGCATTAAACCCCCACAACACTGTGTTACACCCCGCACCCAAATTGTCCAC GTACCGCCACCAAGACTCCCCTCCTTTCCCTAACACACGCCCGTTTTGGTCCGCGTAA CCCGCGCAAACCCCGCCACCCCTTTTCGATTTCCGTTTAAACCCGTACAGCCCCC CATAACCCCTCCTCTGAATGTACCCATTTGGTGCACCCGAAAACCCCGGTTCCCTC AAACCCCTACGGCCCGCAGGCTCCACTCTCTCCACCTCCCCTTATTCCCAGTCGC ATTTCTTCCCGCGATATCCCCTTTTTCTTTCCCGTTTTCCCCCAAATTCCCCCACTT TCCTTCCATCCCCTCCCCT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_021807
Insert Size:	4310 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:	<ol style="list-style-type: none"> 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_021807.2 , NP_068579.2
RefSeq Size:	4215 bp
RefSeq ORF:	4203 bp
Locus ID:	60412
UniProt ID:	Q96A65
Cytogenetics:	7q33
Domains:	Sec8_exocyst

Protein Pathways: Tight junction

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).