

Product datasheet for SC111916

EXOC2 (NM_018303) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC2 (NM_018303) Human Untagged Clone
Tag:	Tag Free
Symbol:	EXOC2
Synonyms:	NEDFACH; SEC5; SEC5L1; Sec5p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111916 sequence for NM_018303 edited (data generated by NextGen Sequencing)

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ATGTCTCGATCAGACAACCCCCCTTGTGACCGCATCTCTCCAAATGAAGGGATACCA
TGGACGAAGGTCACAATCAGGGGAGAAAATCTGGGGACTGGCCCCACCGACCTCATAGGC
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GATTTTAAGAAAATGATT CAGGAAGTAATGCACTCCCTGGTGAAGCTTACCCGCGGAGCC
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 ACAAAGTTCAAGAGTAGCATGCATTGCAGCTCACCTGTTTCCAAGCAGCTTCTTCAACC
 ATGATGAAAACATAA

Clone variation with respect to NM_018303.4
 1677 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018303 unedited
 GATTATGTATCCGACTTACTATAGGNNCGCCGCGCAATTCGGCACGAGGGCGAGACCT
 ACCGGCCCTGTCTGTGCCGGCCGTGAGCTGCGGCAGGACGGCTGGAGATTACTTCTCTA
 ACAGGATCACCAAGTTGCTCCACAAAGCACAATGTCTCGATCACGACAACCCCTTGT
 GACCGGCATCTCTCCAAATGAAGGGATACCATGGACGAAGGTACAATCAGGGGAGAAAA
 TCTGGGGACTGGCCCCACCGACCTCATAGGCTTGACCATTTGTGGACATAATTGCCTCCT
 GACGGCAGAAATGGATGTCTGCAAGTAAAATAGTATGTCGAGTGGGACAAGCCAAAATGA
 CAAAGGAGACATTATTGTCACCACTAAGTCAGGTGGCAGAGGAACCTCAACAGTCTCTTT
 CAAGCTACTCAAACCTGAGAAAATAGGCATTTTGGATCAGTCTGCTGTGTGGTTGATGA
 AATGAATTATTATGATATGCGCACTGACAGGAACAAAGGAATCCGCCCTTGCTCCTTACG
 TCCTGCTAACCCGCTTGGCATTGAGATTGAAAAAGTAAATTTTCGAGAAGGACTTAGA
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 TACATTCTTGAAGCACANGATGCCCTCTCAGCCATCCATCANANACTAGAAGCAGATGG
 AACGGNAAAAGTAGNAAGATCCATGACGCAGAACTGGAGAAATGTTCTGAACAGAGCAGT
 NATACTGCAGAACATTGNTTNCAGAAAGTATTTAGTCGAAGACAGGCAGATNCACTAGAAT
 GCACTCATGTGCTCAGCGATTTAGCTTCTTTCAACCTTCTTAATATTGAAGGAT

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018303 unedited TATGGACCGCGCCGCAATCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTAAAGGCAGATTCTTTATTGGCTGAATGGGCTGTAGTAGATATTT AAAATATCACAAACATTCATGATTGCAGTTTTTAACTTAGCTCACAGTTGAGTTAGATA CCACAGTTAACATACTTAGGAAAGACAATTCTAACAGCTTTATCAAGCACATTTGGGAA AGATTAACATTTTCATTTCCAGTTACCATGATGTCCCCCATACCCCAAATGAACCAACCC ATTTTTTTATTTTAAATAATGGAAACTGTACATGGCTACCCTGGGCTCTAAAATTACTTG CATTAATGAGGACATTAATTTTAGCATTTAAAAAAGAGATTTAAAAATAACCCTAGAAA AACTTGAAAACCCCTGACAAGCCGACTACAAAGAGAATTCCTCTGAAAAATTTCAAATG CCACGGTATGAGGGAGTTGGGTGGGCTGCTGACTCTGAAAGAAGTCCCGGGACCTGAAC CTATTCAGTGAAGCCAGTCAGCAGTGAATGTGGGGCAAGTGCATGCGGCTGGTCTACAG CTCCCATTCCTGGTACCAAGGAGCATCCTGAAGTTTCAAAGAAAAAACTGTGTGACAG CAGCATTGTTCCAGCTACTGAGCAAGATCCTTCAGCAGTAAGAAGTGCCAGAGACAGTC ACCTGCTGAAGGAGCGGGCAGGGAGTTGGCCGTCCCGCGGAGCCTGGCCTTTCCGTTAGG GGACCCTGAAGTCTGCGACCGCCCGNCAACACCTGANAGTGTGACACAGTGCCCGTTAC CATTACACTCCTCCAGATAACACACAGCCCTCAGAAGTGCACACGTGCATGTGTTGT GCGCCCGACAATTAGAGTGAGGGAGATGGAAGCTATGCCTAACCTGTGAAAATAAAATC AGTAGCAAACGCAAGTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018303
Insert Size:	4700 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:	<u>NM_018303.4, NP_060773.3</u>
RefSeq Size:	4458 bp
RefSeq ORF:	2775 bp
Locus ID:	55770
UniProt ID:	<u>Q96KP1</u>
Cytogenetics:	6p25.3
Domains:	IPT

Gene Summary:

The protein encoded by this gene is a component of the exocyst complex, a multi-protein complex essential for the polarized targeting of exocytic vesicles to specific docking sites on the plasma membrane. Though best characterized in yeast, the component proteins and the functions of the 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. This interaction has been shown to mediate filopodia formation in fibroblasts. This protein has been shown to interact with the Ral subfamily of GTPases and thereby mediate exocytosis by tethering vesicles to the plasma membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (1) represents the shorter, protein coding transcript. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.