

Product datasheet for **SC115289**

SEC61A (SEC61A1) (NM_013336) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC61A (SEC61A1) (NM_013336) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC61A
Synonyms:	ADTKD5; HNFJ4; HSEC61; SEC61; SEC61A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115289 sequence for NM_013336 edited (data generated by NextGen Sequencing)

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ATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCCTGCCGAAATTCAG
AAGCCAGAGAGGAAGATTCAGTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCTTTT
ATCTTCTTAGTGTGCTGCCAGATCCCCTGTTTGGGATCATGTCTCAGATTCAGCTGAC
CCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGG
ATCTCTCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCTGGCCCAAGATAAAT
GAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCAACGAGGCCAAAAGTTATTTGGC
ATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGACCT
TCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTCTTTGTTGCTGGCTTA
ATTGTCCTACTTTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCT
CTCTTCATTGCAACTAACATCTGTGAAACCATCGTATGGAAGGCATTAGCCCCACTACT
GTCAACACTGGCCGAGGAATGGAATTTGAAGTGCTATCATCGCACTTTTCCATCTGCTG
GCCACACGCACAGACAAGGTCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCTTCCC
AACCTCATGAATCTCATGCCACCATCTTGTCTTTGCAGTGGTCACTATTTCCAGGGC
TTCGAGTGGACCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCC
ATCAAGCTCTTCTATACGTCCAACATCCCCATCATCCTGCAGTCTGCCCTGGTGTCCAAC
CTTTATGTCATCTCCAAATGCTCTCAGCTCGCTTCAAGTGGCAACTTGTGGTCAAGCCTG
CTGGGCACCTGGTCCGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGGTGGC
CTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCAT
GCAGTTGTATACATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATT
GAGGTCTCAGGTTCTCTGCCAAAGATGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTG
ATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACTCAACCGGTACATCCCCACAGCC
GCGGCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCTAGGCGCC
ATTGGGCTGGAACCGGGATCCTGCTCGCAGTCAATCATCTACCAGTACTTTGAGATC
TTCGTTAAGGAGCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGA

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Clone variation with respect to NM_013336.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_013336 unedited

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GTTTAAATTTGTATACGACTCACTATAGCGGCCGCGAATTCGCACGAGGGGAACGCGCT
GGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGCTGAAGCGGGACCCGGAGCC
CGAGCAGCCGCCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATC
CTGCCGAAATTCAGAAGCCAGAGAGGAAGATTCAGTTAAGGAGAAAGTGCTGTGGACC
GCTATCACCCCTTTATCTTCTTAGTGTGCTGCCAGATCCCCTGTTTGGGATCATGTCT
TCAGATTCAGCTGACCCTTTCTATTGGATGAGAGTGATTCTAGCCTCTAACAGAGGCACA
TTGATGGAGCTAGGGATCTCCTATTGTCACGTCTGGCCTTATAATGCAACTCTTGGCT
GGCCCAAGATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCAACGAGGCC
CAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGG
ATGATGAGGGACCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTC
TTTGTGCTGGCTTAATTGTCCTACTTTTGGATGAACTCCTGCAAAAAGGATATGGCCTT
GGCTCTGGTATTTCTCTTTCATTGCAACTAACATCTGTGAAACCATCGTATGGAAGGCA
TTCAGCCCCACTACTGTCAACACTGGNCCGAGAATGGAATTTGAAGTGCTATCATCGCA
CTTTTCCATCTGCTGGCCACGCACAGACANGGTCGAGCCCTTNNCGGAGCGTTCTACC
GCCAGAATCTTCCACCTCATGAATCTCATCGNACCCATCTTGTCTTTGCAGGGGCCAT
CTATTTCCAGGGCTTCCGAATGGAC

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_013336 unedited CGCCCGCTTTTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGCCAGTGCCAGGTATAAAAAG CAAAATTTTAAATTGGAAAATGTCTAGCACTTTACACAGTGGAATGAAAGAATACGAAAT TCAAAAACATTATTAAGTCCATATGCCGCAGCAGCACGCGCCATGATGAGAGCTCCCC TTCCGAGGCGCTTCTGGAGCAGTTCTCAACCTGTCCGGGAGACGGGCTCAGAAGAGCA GGGCCCCCATGCTGCCAACCTCGCTTTGCTCCTAACGAAGATCTCAAAGTACTGGTAGA TGATTGTGACTGCGAGCAGGATCCCGGTTCCAGACCCAATGGCGCCTAGGAAGTCAGCCA GGACCGAGAGGGCCCGATGCACAGCCCAACAAAGGCCGCGCTGTGGGGATGTACCGGT TGAGCTCATGGACCATGGAGGTCTCTCGGTGGCCTCTCATCACCATCTGTGCTCCTTCA GCTGCTTTGCAACATCTTTGGCAGAGGAACCTGAGACCTCAATCCACGTTTTGGAGAAGA ATGCACAGGAGCCAGCATGAACACTATGCATACCAACTGCATGGACCGGTCTTCTAAC ACGGAGCCAAAAGATTCTGGAGGGGACAGGTAATAGCAAAGGCCCAACTGGATAAGCA CGTGCTGTGCCCCAGAAGAGCTGTTCCAGCAGGTGCCAGCAGGCTGACCACCAAGTTG CCCCTGAAGCGAGCTGATACACCTGGGAAAGACATAAAGGCCGGAACACGGCAGACTGC CGATGATGGGGATGTTGGACCATATCACAGCTTGATGGGAAAGTGTGACCTGCCCGGA AGCGGCCGACTTGTGGAGGTCCACTCGAGCCTTGAAAAAAGACACTGCAAGCAAGA AGCGGCCATGAGATAATGAGTTGGAAGTTTTGCGGGAGACCCCTCCGAGCTGGACTGC TGGGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_013336
Insert Size:	1790 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p>
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_013336.3 , NP_037468.1

RefSeq Size: 3656 bp

RefSeq ORF: 1431 bp

Locus ID: 29927

UniProt ID: [P61619](#)

Cytogenetics: 3q21.3

Domains: secY

Protein Families: Transmembrane

Protein Pathways: Vibrio cholerae infection

Gene Summary: The protein encoded by this gene belongs to the SECY/SEC61- alpha family. It appears to play a crucial role in the insertion of secretory and membrane polypeptides into the endoplasmic reticulum. This protein found to be tightly associated with membrane-bound ribosomes, either directly or through adaptor proteins. This gene encodes an alpha subunit of the heteromeric SEC61 complex, which also contains beta and gamma subunits. [provided by RefSeq, Jul 2008]