

## Product datasheet for **RC222756**

### **SEC61A (SEC61A1) (NM\_013336) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEC61A (SEC61A1) (NM_013336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC61A
Synonyms:	ADTKD5; HNFJ4; HSEC61; SEC61; SEC61A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222756 representing NM\_013336  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCTGCCGAAATTCAGAAGCCAGAGA  
 GGAAGATTCAGTTAAGGAGAAAGTGTGTGGACCGCTATCACCTCTTTATCTTCTAGGTGCTGCCA  
 GATTCCCCTGTTGGGATCATGTCTTCAGATTCAGCTGACCCCTTCTATTGGATGAGAGTGATTCTAGCC  
 TCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCTATTGTCACGTCTGGCCTTATAATGCAACTCT  
 TGGCTGGCGCAAGATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTTCAACGGAGCCCAAAA  
 GTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGACCT  
 TCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTCTTTGTTGCTGGCTTAATTGCCTAC  
 TTTTGGATGAACTCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTATTGCAACTAACAT  
 CTGTGAAACCATCGTATGGAAGGCATTAGCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAA  
 GGTGCTATCATCGCACTTTCCATCTGCTGGCCACACGCACAGACAAGGTCGAGCCCTTCGGGAGGCGT  
 TCTACCGCCAGAATCTTCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAAGTGGTCTCTA  
 TTTCCAGGGCTTCCGAGTGGACCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACCTATCCC  
 ATCAAGCTCTTCTATACGTCCAACATCCCATCATCTGTCAGTCTGCCCTGGTGTCCAACCTTTATGTCA  
 TCTCCCAATGCTCTCAGCTCGCTTTCAGTGGCAACTTGTGGTTCAGCCTGCTGGGCACCTGGTGGACAC  
 GTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGGTGGCCTTTGCTATTACCTGTCCCTCCAGAATCT  
 TTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATACATAGTGTTCATGCTGGGCTCCTGTGCAT  
 TCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGATGTTGCAAAAGCAGCTGAAGGAGCA  
 GCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACTCAACCGGTACATCCCACAGCC  
 GCGGCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCTAGCGCCATTGGGTCTG  
 GAACCGGGATCTGCTCGCAGTACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGAGCAAAGCGA  
 GTTTGGCAGCATGGGGCCCTGCTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222756 representing NM\_013336  
 Red=Cloning site Green=Tags(s)

MAIKFLEVIKPFVILPEIQKPERKIQFKEKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA  
 SNRGTLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIIITIGQSIVYVMTGMYGDP  
 SEMGAGICLLITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPPTTVNTGRGMEFE  
 GAIIALFHLLATRTDKVRALREAFYRQNLPNLMNLIATIFVFAVVIYFQGFVDLPIKSARYRGQYNTYP  
 IKLFYTSNIPIILQSALVSNLYVISQMLSARFSGNLLVSLLGWSDTSSGGPARAYPVGGLCYLSPPE  
 FGSVLEDPVHAVVYIVFMLGSCAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGRHRETSMVHELNRYIPTA  
 AAFGGLCIGALSVLADFLGAIKSGTGILLAVTIIYQYFEIFVKEQSEVGSMLGALLF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6709\\_g07.zip](https://cdn.origene.com/chromatograms/mk6709_g07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_013336

**ORF Size:** 1428 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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\\_013336.4](#)

RefSeq Size: 3656 bp

RefSeq ORF: 1431 bp

Locus ID: 29927

UniProt ID: [P61619](#)

Cytogenetics: 3q21.3

Domains: secY

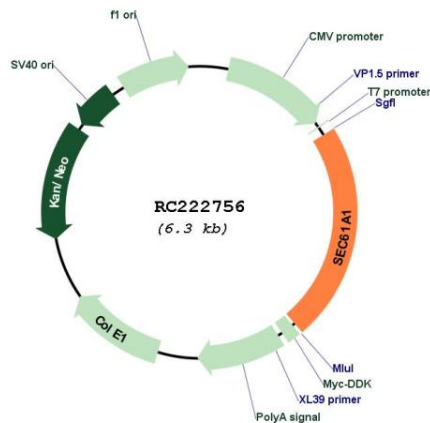
Protein Families: Transmembrane

Protein Pathways: Vibrio cholerae infection

MW: 52.1 kDa

**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]

**Product images:**



Circular map for RC222756