

Product datasheet for **RG222756**

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:	TurboGFP
Symbol:	SEC61A
Synonyms:	ADTKD5; HNFJ4; HSEC61; SEC61; SEC61A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222756 representing NM_013336
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGTCATCTGCCGAAATTCAGAAGCCAGAGA
 GGAAGATTCAGTTAAGGAGAAAGTGCTGTGGACCGCTATCACCCCTTTTATCTTCTTAGTGTGCTGCCA
 GATTCCCCTGTTTGGGATCATGTCTTCAGATTCAGCTGACCCCTTCTATTGGATGAGAGTGATTCTAGCC
 TCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCTATTGTCACGTCTGGCCTTATAATGCAACTCT
 TGGCTGGCGCAAGATAATTGAAGTTGGTGACACCCCAAAAGACCGAGCTCTCTCAACGGAGCCCAAAA
 GTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGACCT
 TCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTCTTTGTTGCTGGCTTAATTGCCTAC
 TTTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTATTGCAACTAACAT
 CTGTGAAACCATCGTATGGAAGGCATTAGCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAA
 GGTGCTATCATCGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCGAGCCCTTCGGGAGGCGT
 TCTACCGCCAGAATCTTCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAAGTGGTATCTA
 TTTCCAGGGCTTCCGAGTGGACCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCC
 ATCAAGCTCTTCTATACGTCCAACATCCCATCATCTGTCAGTCTGCCCTGGTGTCCAACCTTTATGTCA
 TCTCCCAATGCTCTCAGCTCGCTTCAGTGGCAACTTGTGGTTCAGCCTGCTGGGCACCTGGTGGACAC
 GTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGGTGGCCTTTGCTATTACCTGTCCCCTCCAGAATCT
 TTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATACATAGTGTTCATGCTGGGCTCCTGTGCAT
 TCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCTCTGCAAAAGATGTTGCAAAAGCAGTCAAGGCA
 GCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACTCAACCGGTACATCCCCACAGCC
 GCGGCCTTTGGTGGGCTGTGCATCGGGCCCTCTCGGTCTGGCTGACTTCTAGCGCCATTGGGTCTG
 GAACCGGGATCCTGCTCGCAGTACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGAGCAAAGCGA
 GGTGGCAGCATGGGGCCCTGCTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222756 representing NM_013336
 Red=Cloning site Green=Tags(s)

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA
 SNRGTLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDP
 SEMGAGICLLITIQLFVAGLIVLLLDELLQKGYGLSGISLFIATNICETIVWKAFSPPTVNTGRGMEFE
 GAIIALFHLLATRTDKVRALREAFYRQNLPNLMNLIATIFVFAVVIYFQGFVDLPIKSARYRGQYNTYP
 IKLFYTSNIPIILQSALVSNLYISQMLSARFSGNLLVSLGLTWSDTSSGGPARAYPVGGLCYLSPPE
 FGSVLEDPVHAVVYIVFMLGSAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGRHRETSMVHELNRYIPTA
 AAFGGLCIGALSVLADFLGAIKSGTGILLAVTIIYQYFEIFVKEQSEVGSMGALLF

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2441_a02.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 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

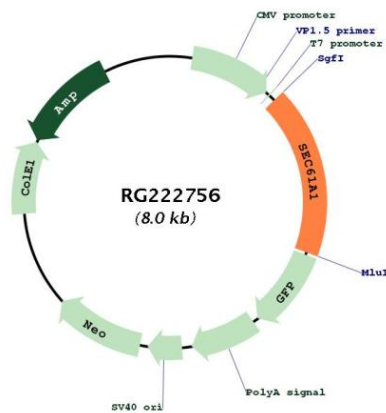
Domains: secY

Protein Families: Transmembrane

Protein Pathways: Vibrio cholerae infection

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 RG222756