

Product datasheet for **RG227606**

SEC61A2 (NM_001142627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC61A2 (NM_001142627) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEC61A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227606 representing NM_001142627 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGCATCAAATTTTTAGAAGTTATCAAACCATTCTGTGCAGTTCTACCAGAAATTCAGAAACCGGAAAGGAAAATCCAGTTTAGAGAGAAGGTTCTGTGGACTGCTATAACGCTCTTCATTTTCTTAGTGTGTTGTCA
GATCCCCTGTTTGAATCATGTCATCAGATTCTGCAGATCCTTCTACTGGATGAGAGTTATTCTGGCT
TCCAATAGAGGAACCTTAATGGAATTGGGTATCTCCCAATTGTAACATCTGGTTGATTATGCAGTTGT
TAGCTGGAGCCAAAATCATTGAAGTTGGAGATACACCGAAAGATAGAGCTTTATCAATGGAGCCAGAA
ACTGTTTTGGTATGATCATTACCATTGGCAAGCCATTGTGTATGTCATGACGGGGATGTATGGGGACCT
GCAGAAATGGGTGCCGAATCTGTCTCCTGATCATCATTAGTTGTTTGTGCTGGTTTATTGCTGCTGC
TGTAGATGAGCTGCTACAGAAGGGTTACGGCTTGGGTCTGGATTTCCCTCTTTATTGCCACCAACAT
CTGTGAGACCATTGTCTGGAAGGCCTTGTAGTCCCCTACCATTAACTGGCAGAGGTTACTGAGTTTGTG
GGTGCAGTCATAGCTCTGTTCCATTTGTTGGCCACCAGGACGGACAAAGTCCGAGCTTACGGGAGGCTT
TTTATCGGCAGAACTTACCAATCTCATGAACCTCATTGCTACAGTTTTTGTGTTGCTGTTGTTATATA
TTTCCAAGGATTTGCGGTTGATCTGCCATTAAGTCGGCCGTTACCGAGGACAGTACAGCAGCTACCCC
ATCAAACCTTTTACACCTCCAACATCCCATCATCCTCCAGTCGGCCCTGGTGTCCAACCTGTATGTTA
TTTCCCAGATGCTGTCTGTTGATTTAGTGCAACTTTTTAGTAAATTTACTAGGACAGTGGGCCGATGT
CAGTGGGGGAGGACCCGCACGTTCTTACCAGTTGGAGGCTTTGTTACTATCTTTCTCCTCCTGAGTCC
ATGGGCGCATCTTTGAGGATCCTGTCCATGTCGTTGTTTATATCATCTTCATGTTGGGGTTCATGTGCAT
TCTTCTCTAAGACATGGATTGAAGTGTCTGGTTCCTCAGCCAAAGATGTAGCTAAACAGCTGAAAGAACA
GCAGATGGTAATGAGGGGCCACCGAGATACCTCTATGGTTCATGAGCTTAATAGACAAAAGTGAAGTTA
AGAAGTGAAGGGAGAAGGAAGACATTTACAAAAGGATACTTCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227606 representing NM_001142627
 Red=Cloning site Green=Tags(s)

MGIKFLEVIKPFCAVLPEIQKPERKIQFREKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA
 SNRGTLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQAIVYVMTGMYGDP
 AEMGAGICLLIIQFLVAGLIVLLLDELLQKGYGLSGISLFIATNICETIVWKAFFSPTTINTGRGTEFE
 GAVIALFHLLATRDKVRALREAFYRQNLPLMNLAIATVFVFAVVIYFQGFRVDLPIKSARYRGQYSSYP
 IKLFYTSNIPIILQSALVSNLYVISQMLSVRFSGNFLVNLGQWADVSGGGPARSYVVGGLCYLSPPE
 MGAIFEDPVHVVYIIFMLGSCAFFSKTWIEVSGSSAKDVAKQLKEQVMRGRHRTSMVHELNRPKVKL
 RRWKGEGRHFTKRILFY

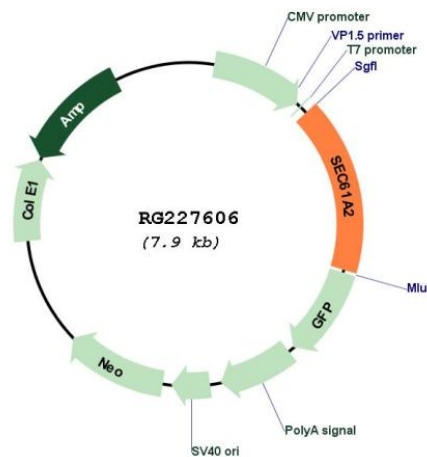
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001142627
ORF Size:	1311 bp
OTI Disclaimer:	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:	<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_001142627.2 , NP_001136099.1
RefSeq Size:	2129 bp
RefSeq ORF:	1314 bp
Locus ID:	55176
UniProt ID:	Q9H9S3
Cytogenetics:	10p14
Protein Families:	Transmembrane
Protein Pathways:	Vibrio cholerae infection
Gene Summary:	The protein encoded by this gene has similarity to a mouse protein which suggests a role in the insertion of secretory and membrane polypeptides into the endoplasmic reticulum. It may also be required for the assembly of membrane and secretory proteins. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]