

Product datasheet for **RG223091**

SEC61A2 (NM_018144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC61A2 (NM_018144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEC61A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223091 representing NM_018144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCATCAAATTTTTAGAAGTTATCAAACCATTCTGTGCAGTTCTACCAGAAATTCAGAAACCGGAAA
 GGAAAATCCAGTTTAGAGAGAAGTTCTGTGGACTGCTATAACGCTCTTCATTTCTTAGTGTGTGCA
 GATCCCACTGTTTGAATCATGTCATCAGATTCTGCAGATCCTTTCTACTGGATGAGAGTTATTCTGGCT
 TCCAATAGAGGAACTTTAATGGAATTGGGTATCTCCCAATTGTAACATCTGGTTTGATTATGCAGTTGT
 TAGCTGGTGCCAAAATCATTGAAGTTGGAGATACACCGAAAGATAGAGCTTTATTCAATGGAGCCCAGAA
 ACTGTTTGGTATGATCATTACCATTGGGCAAGCCATTGTGTATGTCATGACGGGGATGTATGGGGACCT
 GCAGAAATGGGTGCCGAATCTGTCTCCTGATCATCATTAGTTGTTTGTGCTGGTTTGATTGTGCTGC
 TGTTAGATGAGCTGCTACAGAAGGGTTACGGCTGGGGTCTGGGATTTCCCTCTTTATTGCCACCAACAT
 CTGTGAGACCATTGTCTGGAAGGCCTTTAGTCCCCTACCATTAACTGGCAGAGGTACTGAGTTTGAG
 GGTGCAGTCATAGCTCTGTTCCATTTGTTGCCACCAGGACGGACAAAGTCCGAGCTTTACGGGAGGCTT
 TTTATCGGCAGAACTTACCAATCTCATGAACCTCATTGCTACAGTTTTTGTGTTTGTGTTGTTATATA
 TTTCCAAGGATTTGCGTGTGATCTGCCATTAAGTCGGCCGTTACCGAGGACAGTACAGCAGTACCC
 ATCAAACCTCTTACACCTCCAACATCCCATCATCTCCAGTCGGCCCTGGTGTCCAACCTGTATGTTA
 TTTCCAGATGCTGTCTGTTTCGATTTAGTGGCAACTTTTTAGTAAATTTACTAGGACAGTGGGCCGATG
 CAGTGGGGGAGGACCCGACGTTCTTACCAGTTGGAGGCCTTTGTTACTATCTTCTCCTCCTGAGTCC
 ATGGGCGCCATCTTTGAGGATCCTGTCCATGTCGTTGTTTATATCATCTCATGTTGGGGTCATGTGCAT
 TCTTCTAAGACATGGATTGAAGTGTCTGGTTCCCTCAGCCAAAGATGTAGCTAAACAGCTGAAAGAACA
 GCAGATGGTAATGAGGGGCCACCGAGATACCTCTATGGTTCATGAGCTTAATAGGTACATCCCACCGCA
 GCTGCGTTTGGCGTTTGTGCATTGGCGCCTGTGAGTGTGGCTGACTTCTGGGGGCCATTGGATCTG
 GCACTGGAATTCTGCTAGCAGTCACTATTATTTACCAGTATTTTGAATATTTGTTAAAGAACAGGCCGA
 AGTTGGTGGGATGGGTGCTTTGTTTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223091 representing NM_018144
 Red=Cloning site Green=Tags(s)

MGIKFLEVIKPFCAVLPEIQKPERKIQFREKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA
 SNRGLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIIITIGQAIIVYVMTGMYGDP
 AEMGAGICLLIIQLFVAGLIVLLLDELLQKGYGLSGISLFIATNICETIVWKAFSPTTINTGRGTEFE
 GAVIALFHLLATRTDKVRALREAFYRQNLPNLMNLIATVVFVAVVIYFQGFVLDLPKISARYRGQYSSYP
 IKLFYTSNIPIILQSALVSNLYVISQMLSVRFSGNFLVNLGQWADVSGGGPARSYVGGGLCYLSPPE
 MGAIIFEDPVHVYIIFMLGSAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGRDTSMVHELNRYIPTA
 AAFGGLCIGALSVLADFLGAIKSGTGILLAVTIIYQYFEIFVKEQAEVGGMGALFF

TRTRPLE – GFP Tag – V

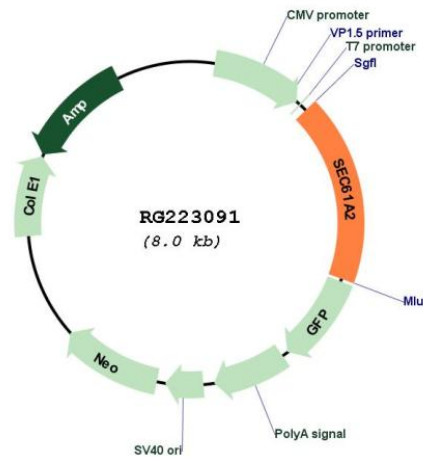
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_018144

ORF Size: 1428 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:

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_018144.2](#), [NP_060614.2](#)

RefSeq Size: 1892 bp

RefSeq ORF: 1431 bp

Locus ID: 55176

UniProt ID: [Q9H9S3](#)

Cytogenetics: 10p14

Domains: secY

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]