

## Product datasheet for **MC216428**

### Sec61a2 (NM\_021305) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec61a2 (NM_021305) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec61a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216428 representing NM\_021305  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCATCAAGTTTTAGAAAGTTATTAACCTTTCTGTGCAGTTCTACCAGAAATTCAGAAGCCTGAAA  
 GGAAAATTCAGTTTAGAGAGAAGTACTATGGACTGCTATAACACTCTTCATTTTCTTAGTATGCTGTCA  
 GATTCCGCTGTTTGGGATCATGTCATCGGACTCTGCAGATCCCTTCTACTGGATGAGAGTTATTCTTGCA  
 TCCAACAGAGGAACATTGATGGAATTGGGTATTTCCCAATTGTAACGTCTGGTTTGATTATGCAGTTGT  
 TAGCTGGAGCCAAAATCATTGAAGTTGGAGACACCCAAAGATAGAGCTCTGTTCAATGGAGCCAGAA  
 ATTATTTGGTATGATCATTACCATTGGCAAGCCATTGTGTATGTCATGACGGGGATGTACGGGGACCT  
 GCGGAAATGGGTGCTGGGATCTGTCTCCTATCATTATTCAGTTGTTTGTGCTGGTTTGATTGTGCTGC  
 TGTTAGATGAGCTGTACAGAAGGGTTACGGCTTGGGGTCTGGGATTTCCCTCTTTATTGCCACCAACAT  
 CTGTGAAACCATTGTCTGGAAGGCCTTAGTCCCCTACCATTAACTGGCAGAGGTACGGAGTTTGAA  
 GGTGCAGTCATAGCTCTGTTTCATTTGCTGGCCACCAGGACAGACAAGGTGCGAGCCTTGAGGGAGGCTT  
 TCTATAGGCAGAACCTCCCAACCTCATGAACCTCATCGCCACAGTGTTTCGTGTTTGTGCTGTGCTATCTA  
 TTTTCAGGGGTTTCGTGTTGACTTGCCCATTAAGTCGGACGGTATCGTGGACAGTACAGTAGCTATCCT  
 ATCAAGCTCTTCTACACGTCGAATATCCATAATCCTCCAGTCTGCCCTAGTTTCAAATTTGTACGTCA  
 TTTCCAGATGCTGTCTGTTTCGATTTAGTGGCAACTTCTAGTAACTTACTAGGACAGTGGGCCGATGT  
 CAGTGGGGGAGGGCTGCTCGCTCCTACCCTGTTGGCGCCTTTGTTACTATCTGTCTCCTCCTGAGTCT  
 ATGGGAGCCATATTTGAGGATCCTGTTTCATGTAGTTGTATATATCTTCATGTTGGGGTATGTGCAT  
 TCTTTTCTAAGACGTGGATAGAAGTTTCTGGTTCTTCAGCCAAAGATGTGGCCAAGCAACTAAAGAACA  
 GCAGATGGTGATGAGGGTACAGAGATACCTCCATGGTCCATGAGCTGAACAGGTACATCCCCACAGCA  
 GCTGCCTTTGGGGTCTGTGCATCGGTGCCCTGTCACTAGCAGACTTCTTGGGGCCATTGGCTCTG  
 GTACTGGAATTCTGCTTGCAGTCACTATTATTTATCAGTATTTTGAATATTTGTTAAGGAACAGGCTGA  
 AGTTGGTGAATGGGTGCTTTGTTTTCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_021305
- Insert Size:** 1431 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_021305.3](#), [NP\\_067280.1](#)

RefSeq Size: 2369 bp

RefSeq ORF: 1431 bp

Locus ID: 57743

UniProt ID: [Q9JLR1](#)

Cytogenetics: 2 A1

**Gene Summary:** Appears to play a crucial role in the insertion of secretory and membrane polypeptides into the ER. It is required for assembly of membrane and secretory proteins. Found to be tightly associated with membrane-bound ribosomes, either directly or through adaptor proteins (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).