

Product datasheet for **MC216417**

Sec61a1 (NM_016906) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec61a1 (NM_016906) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec61a1
Synonyms:	AA408394; AA410007; Sec61a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216417 representing NM_016906
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGATCAAATTTCTGGAAGTCATCAAGCCATTCTGTGTCATCTTGCCGAAATTCAGAAGCCAGAGA
GAAAGATTCAGTTTAAGGAGAAAGTTCTGTGGACAGCCATCACCCCTTTCATCTTCTTAGTATGCTGTCA
GATCCCCCTGTTTGGCATTATGCTTTCAGACTCAGCTGACCCGTTCTACTGGATGCGAGTGATTCTGGCC
TCTAACAGAGGTACCTTAATGGAGCTGGGCATCTCTCCTATTGTCACCTCCGGTCTTATCATGCAGCTCT
TAGCTGGTGCCAAGATAATTGAAGTTGGGGACACCCCGAAAGACCGAGCTCTTCAATGGAGCCAGAA
GTTGTTTGAATGATCATTACTATCGGTGAGTCCATTGTGTATGTGATGACGGGCATGTACGGGGACCT
TCGGAGATGGGTGCTGGAATCTGCCTGCTGATCACCATTAGCTCTTGTGTGCTGGCTTAATTGCCTAC
TTTTGGATGAACCTCTGCAAAAAGGGTACGGCTTGGGCTCTGGCATTCTCTCTTATTGCGACTAACAT
CTGTGAGACCATTGTGTGGAAGGCATTCAGCCCCACCACTGTCAACACTGGCCGAGGGATGGAATTCGAA
GGCGCCATCATAGCGCTATTCCACCTGCTGGCCACCCGCACAGACAAGGTCGAGCCCTTCGAGAGGCAT
TCTACCGCCAGAACCTCCCAACCTCATGAACCTGATTGCCACCATCTTCGTCCTTGGCCGTTGTCATCTA
TTTCCAGGGCTTCCGAGTGGACCTTCCAATCAAGTCGGCGGTTACCGAGGCCAGTACAACACCTATCCC
ATCAAGCTCTTCTACACCTCCAACATCCCCATCATCTTGACAGTCTGCTCTGGTGTCCAACCTGTATGTCA
TCTCCAGATGCTGTGACGACGTTTCAAGTGGCAACCTGCTGGTTAGCCTGCTGGGCACCTGGTCGGATAC
ATCATCTGGGGGCCAGCCGAGCTTACCCGTTGGTGGCCTGTGTTACTACCTGTCTCTCCGGAATCG
TTCGGCTCAGTGTGGAGACCCTGTCCATGCGGTGCTGTACATCGTGTTCATGCTGGGCTCCTGTGCAT
TCTTCTCAAAAACATGGATCGAAGTCTCAGGTTCTTCTGCCAAAGATGTTGCAAAGCAGCTGAAGGAGCA
GCAGATGGTGATGAGGGGCCACAGGGAGACCTCCATGGTGCATGAGCTCAACCGGTACATCCCCACAGCC
GCAGCCTTGGTGGGCTGTGCATTGGGGCCCTCTCTGCTGGCTGACTTCTGGGTGCTATCGGGTCTG
GAACTGGGATCTGCTTGCAGTACCATCATCTACCAGTACTTTGAGATCTTCGTCGAAGGAACAGAGCGA
GGTGGGCAGCATGGGAGCCCTTCTCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_016906

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_016906.4](#), [NP_058602.1](#)

RefSeq Size: 3039 bp

RefSeq ORF: 1431 bp

Locus ID: 53421

UniProt ID: [P61620](#)

Cytogenetics: 6 D1

Gene Summary: Component of SEC61 channel-forming translocon complex that mediates transport of signal peptide-containing precursor polypeptides across endoplasmic reticulum (ER). Forms a ribosome receptor and a gated pore in the ER membrane, both functions required for cotranslational translocation of nascent polypeptides. May cooperate with auxiliary protein SEC62, SEC63 and HSPA5/BiP to enable post-translational transport of small presecretory proteins. Controls the passive efflux of calcium ions from the ER lumen to the cytosol through SEC61 channel, contributing to the maintenance of cellular calcium homeostasis (By similarity). Plays a critical role in nephrogenesis, specifically at pronephros stage (PubMed:27392076).[UniProtKB/Swiss-Prot Function]