

Product datasheet for **MC229358**

Sec24a (NM_001290785) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sec24a (NM_001290785) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sec24a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229358 representing NM_001290785
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCCCCGATCCCCGCTGCCCGGTGCCGAGCTAGCCTCCAGGCCAGAACGGAGCCGCCT
CAGCCTCGGGTCTCCCTACACCAACGGTCTGTCCACAATACACTGATGTCTCCACAAGTGTATCGAG
TCAAGGCTATGATTCGCAACCTCCAGGATCTACCTCGTCCAATGCCAGCAAAGACTTTGAATCCATT
TCTGCACAGTCGAACTACGGTGGTTCTCAGGGATCTGGGAGACTCTTAATAGTCCACTTGTGACTTCCG
GTCCAGTACTACCTTCACTTCATAGTGGTCTGTTCGCCGAATGCCACTACCTACTTCTCAGAACCAGC
TGCTACACCAATGCCTTCTGGTAGCTTTCTTCTGGAGCCAACCCACCCACCTTTGAATTGGCAAT
AACTATCCATCCACAGGACCGCAGACTAACCATTTTCTCATGTAGTCCACCAACTCTACTGGGAATC
CAAATTTAACAGCGGATCATCAATATGTTTCTTCTGGAGACCCTGCACCTCAAACCAGCTTCAAAAAAC
AGGTTCTGCACCTCCCTTACAGAACCCACCTCTGCCCCCACTTTTCAGCCAGGAGCTCCTCCTGGGCC
CCTCCAGCTGGAGGCCACCTCCAGCCGGGGCCCGGCCCCAGAAAACACCTCCTCGGGTGCACCCC
CACCTTCAATTAAGTCACTGTCATCAGGAAGGTATTACGTCAAATGCCAATAATGGATCTACGGCGGC
TCATAAATCTTATGATGAGATTGAAGGAGTGGCTTCTTGCAACACCACAGCTTGTAAATCAGAACCCC
AAAACAAGCCGAAGTGTGGGCTCTGCATACCCCTCCCTGCCACCAAGGCTACCAGAACAGCGCACCACTG
TGGCTGGGATGCCACCACCCCTCCCTCAGTTACCCAAGTGGCCCCCAGGCCTTTACTCAGACTCCCTTAGG
TGCTAATCATTTAACTGCAAGCATGAGTGGATTAAGTCTGCATCCAGAGGGACTAAGAGTTGTCAATCTT
CTTCAAGAAAGGAATGCTTCCCTTCCACACCACTGCAGCCTCCAGTCCCAAATCTGCTTGAAGACATCC
AGAACTCAACTGTAACCCAGAGTTGTTCCGATGCACGCTGACGAGTGTCCCTCAGACTCAGGCCTTACT
GAATAAAGCCAAGCTTCTCTGGGGTGTCTGCTCCACCCCTTCAAGGACCTAGTGTGCCCGTGGTCACC
TCCAGCACAAATGTGAGATGCCGTTTCATGCAGGACTTACATTAACCCCTTTCGTCACACTTCTTGTCAAA
GAAGGTGAAATGTAACCTTATGTTATCGAGTCAATGATGTTCTGAAAGAATTCATGTACAACCCCTTAAAC
CAGAGTTTATGGAGAACCTCACAAAAGACCTGAAGTCCAGAATGCTACTATTGAGTTTATGGCTCCTTCA
GAATACATGTTACGACCACCACAACCTCCAGTGTACCTCTTTGTATTTGATGTATCTCACAACGCAATAG
AAACTGGATACTTGAATTCAGTTTGCCAGAGTTTGTAGACAATCTGGATCTGCTTCTGGCAACACTAG
GACAAAATCGGTTTCATAACATTTGATAGCACTATCCATTTCTACAGTCTTCAGGAAGTCTCTCCAG



CCTCAGATGCTAATAGTTTCAGATATTGACGATGTTTTATCCCTATGCCAGAGAACTTACTAGTAACT
TAAATGAAAGTAAAGAGCTTGTTCAGATTTACTGAAAACGCTGCCACAAATGTTTACGAAGACGCTGGA
GACCCAGAGTGCCTTGGGTCTGCACCTCAGGCTGCATTCAAGCTGATATCACCAGTGGTGGTGAATG
TCTGTCTTCCAAACACAACCTCCCAACGCTTGGTGTAGGAGCTCTGAAACCACGAGAGGAACCAACAAA
GGTCATCTGCTAAGGAAATACATCTGACACCATCCACTGACTTCTATAAGAAATTAGCCTTGGACTGTT
TGGGCAGCAAGCAGCTGTTGACTTATTCCTTCTCAGTGGACGATATTCTGATTTGGCTCCCTAGGCTGC
ATCTCTCGGTACTCAGCGGTAGTGTATTACTATCCCTCGTACCATCACCAGCACACCAGTGCAGG
TACAGAAACTACAGAAGGAACACACAGGTACCTCACTCGGAAGATTGGATTTGAGGCAGTCATGAGGAT
CCGGTGCACCAAAGTCTTTCCATTCATACTTTCCATGGGAACCTCTTCGTCGGTCTACAGACTTACTG
TCTCTTCCCAATGTCAACCCAGATGCTGGGTATGCGGTCCAGATGTCAGTAGAAGAGAGTCTCACTGACA
CTCAGCTGGTTTCTTCCAGTCAGCACTTATATACATCAAGCAAAGGTGAAAGAAGAATCCGTGTGCA
TACTTTGTGTTTCCGGTAGTTTCTACCCTGAATGAAGTCTTTCTTGGAGCTGATGTGCAAGCAATTTCA
GGGTTATTAGCCAATATGGCTGTGACAGGTGGTACTGCCAGCCTGAGTGTGCCGGGATGCTCTGG
TGAACGCTGTATCGACTCTCTCAGCTTACCCTCTCAGTCTGAGTGGTGCAGCAGCCAGGCCCTCAT
GGTTCCTTCTCCTTGGAGCTTTTCCACTTTTTGTGTTGGCTCTCTAAAACAGAAATCTTTCCAGACT
GGGACAAGTATACGTCTAGATGAACGAATTTTGGCATGTGTCAAGTAAAAGCCAGCCATTGGTTACC
TCATGCTCACAACACATCCCAGTTGTACAGAGTTGACAACCTCTCAGATGAGGGAGCTCTCAACATCAA
TGACAGAACCATACCTCAGCCCCCATTCTCAGCTCTCGGTGGAGAAGTTGAGCAGAGATGGAGCGTTC
CTCATGGATGCAGGCTCATTACTGATGCTTTGGGTTGGAAGAAATGTTTACAGAAATTTTCTCAGCCAAG
TTCTGGGAGTTCAAAACTATGCATCAATCCACAGACAATGACAGATCTTCCAGAAGTTGATACACCAGA
ATCTGCCAGAATAGCAGCGTTTCTCAGGCTCAGAGAACAGAGGCCATTTTCCAGTACTCTATGTA
ATCAGGGAGGAGTCTTATGAAAGCAGCCTTCTTCCAGACTTGGTAGAAGACAGAACAGAGTCTGCAC
TGTCATATTATGAATTCCTCTGCACATACAGCAGCAAGTGAACAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001290785
- Insert Size:** 3270 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001290785.1](#), [NP_001277714.1](#)

RefSeq Size: 6795 bp

RefSeq ORF: 3270 bp

Locus ID: 77371

UniProt ID: [Q3U2P1](#)

Cytogenetics: 11 B1.3

Gene Summary: Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules for their transport to the Golgi complex. Plays a central role in cargo selection within the COPII complex and together with SEC24B may have a different specificity compared to SEC24C and SEC24D. May package preferentially cargos with cytoplasmic DxE or LxxLE motifs and may also recognize conformational epitopes.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.