

Product datasheet for SC114771

SEC31A (NM_014933) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC31A (NM_014933) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEC31A
Synonyms:	ABP125; ABP130; HSPC275; HSPC334; SEC31L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114771 sequence for NM_014933 edited (data generated by NextGen Sequencing)

ATGAAGTTAAAGGAAGTAGATCGTACAGCCATGCAGGCATGGAGCCCTGCCCAGAATCACCCATTACCTAGCAACAGGAACATCTGCTCAGCAATTGGATGCAACATTTAGTACGAATGCTTCCCTTGAGATATTTGATTAGACCTCTCTGATCCATCCTGGATATGAAATCTTGTGCCACATTCTCCTCTCTCACAGGTACCACAAAGTTGATTTGGGGCCCTATAAAATGGATTCCAAAGGAGATGTCTCTGGAGTTCTGATTGCAGGTGGTGAAGTTGAAATATTATTCTCTATGATCCTTCTAAATATAGCTGGAGACAAGGAAGTTGTGATTGCCCAAGATGACAAGCATACTGGCCAGTGAGAGCCTTGGATGTGAACATTTCCAGACTAATCTGGTAGCTTCTGGTGCTAATGAATCTGAAATCTACATATGGGATCTAAATAATTTTGAACCCCAATGACACCAGGAGCCAAACACAGCCGCCAGAAGATATCAGCTGCATTGCATGGAACAGACAAGTTCAGCATATTTTAGCATCAGCAGTCCCAGTGGCCGGGCCACTGTATGGGATCTTAGGAAAAATGAGCCAATCATCAAAGTCAGTGACCATAGTAACAGAATGCATTGTTCTGGGTTGGCATGGCATCCTGATGTTGCTACTCAGATGGTCCCTTGCCTCCGAGGATGACCGGTTACCAAGTATCCAGATGTGGGATCTTCGATTTGCTTCTCCTCCTCCACTTCGTGTCCTGGAACCATGCCAGGGGATTTTGGCAATTGCTTGGAGCATGGCAGATCCTGAATTGTTACTGAGCTGTGGAAGAGTGTCTGATATTCAGTGGTGTCCCCGAAATCCTGCTGTCTATCAGCTGCTTCGTTTGATGGCGTATCAGTGTCTTATCTATCATGGGAGGAAGCACAGATGGTTTAAAGACAGAAACAAGTTGACAAGCTTTCAATCATCTTTTGGGAATCTTGATCCCTTTGGCACAGGACAGCCCCCTCCTCCGTTACAAATTCACAGCAGACTGCTCAGCATAGTATAGTGCTGCCTCTGAAGAAGCCGCCCAAGTGGATTGGAAGCCTGTTGGTGCTCTTTTTCATTTGGAGGCAAACTGGTTACGTTTGAGAATGTCAGAATGCCTTCTCATCAGGGAGCTGAGCAGCAGCAGCAGCAGCAGCATGTGTTTATTAGTCAGGTTGTAAACAGAAAAGGAGTTTCTCAGCCGATCAGACCACTTCAGCAGGCTGTGCAGTCAACAAGATTTATCAATTATTGCCAAAAAAATTTGATGCTTCTCAGACTGAATTTGAGAAAAATGTGTGGTCTTTTGAAGGTAACTTTGAGGATGATTCTCGTGGAAAAATACCTTGAACCTTAGGATACAGAAAAGAAGATCTAGGAAAAGAAGATTGCTTTGGCCTTGAACAAAGTGGATGGAGCCAATGTGGCTCTTAAAGACTCTGACCAAGTAGCACAGAGTGATGGGGAGGAGAGCCCTGCTGCTGAAGA


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GCAGCTCTGGGAGAGCACATTAAGAGGAAAAAGAAGATCTGAATTTCTACCTCATCTGGAGGAACA
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CACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTCATGCCAGTCTCAAAGTTGTTCTCACCC
AGGCCAATAAGCTGGGTGCTAA
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Clone variation with respect to NM_014933.3

597:g>a

Restriction Sites:

NotI-NotI

ACCN:

NM_014933

Insert Size:

4200 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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014933.2](#), [NP_055748.2](#)

RefSeq Size: 4273 bp

RefSeq ORF: 3663 bp

Locus ID: 22872

Cytogenetics: 4q21.22

Domains: WD40

Gene Summary: The protein encoded by this gene shares similarity with the yeast Sec31 protein, and is a component of the outer layer of the coat protein complex II (COPII). The encoded protein is involved in vesicle budding from the endoplasmic reticulum (ER) and contains multiple WD repeats near the N-terminus and a proline-rich region in the C-terminal half. It associates with the protein encoded by the SEC13 homolog, nuclear pore and COPII coat complex component (SEC13), and is required for ER-Golgi transport. Monoubiquitylation of this protein by CUL3-KLHL12 was found to regulate the size of COPII coats to accommodate unusually shaped cargo. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) uses an alternate splice site in the 5' UTR, resulting in lacking of 3 nts, compared to variant 5. It encodes the same protein as variant 5 (isoform 1).