

Product datasheet for **RC239931**

SEC31A (NM_001300744) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC31A (NM_001300744) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC31A
Synonyms:	ABP125; ABP130; HSPC275; HSPC334; NEDSOSB; SEC31L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239931 representing NM_001300744 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGTTAAAGGAAGTAGATCGTACAGCCATGCAGGCATGGAGCCCTGCCAGAATCACCCATTAC
TAGCAACAGGAACATCTGCTCAGCAATTGGATGCAACATTTAGTACGAATGCTCCCTTGAGATATTTGA
ATTAGACCTCTCTGATCCATCCTTGGATATGAAATCTTGCCACATTCTCTCTCTCACAGGTACCAC
AAGTTGATTTGGGGCCTTATAAAATGGATTCCAAAGGAGATGTCTCTGGAGTTCTGATTGCAGGTGGT
AAAATGGAAATATTATTCTCTATGATCCTTCTAAAATTATAGCTGGAGACAAGGAAGTTGTGATTGCCCA
GAATGACAAGCATACTGGCCAGTGAGAGCCTTGGATGTGAACATTTCCAGACTAATCTGGTAGCTTCT
GGTGCTAATGAATCTGAAATCTACATATGGGATCTAAATAATTTGCAACCCCAATGACACCAGGAGCCA
AAACACAGCCGCCAGAAGATATCAGCTGCATTGCATGGAACAGACAAGTTCAGCATATTTAGCATCAGC
CAGTCCCAGTGGCCGGGCACTGTATGGGATCTTAGAAAAATGAGCCAATCATCAAAGTCAGTGACCAT
AGTAACAGAAATGCATTGTTCTGGGTTGGCATGGCATCCTGATGTTGCTACTCAGATGGTCCTTGCCCTCG
AGGATGACCGGTTACCAAGTATCCAGATGTGGGATCTTCGATTGCTTCTCCTCCTCACTTCGTGTCTGGA
AAACCATGCCAGGGGATTTTGGCAATTGCTTGGAGCATGGCAGATCCTGAATTGTTACTGAGCTGTGGA
AAAGATGCTAAGATTCTCTGCTCCAATCCAAACACAGGAGAGGTGTTATATGAATTCACCAACACAC
AGTGGTGCTTCGATATTCAGTGGTGTCCCGAAATCCTGTCTTATCAGCTGCTTCGTTGATGGGCG
TATCAGTGTTTATTCTATCATGGGAGGAAGCACAGATGGTTTAAAGACAGAAACAAGTTGACAAGCTTTCA
TCATCTTTTGGGAATCTTGATCCCTTTGGCACAGGACAGCCCTTCTCCGTTACAAATTCACAGCAGA
CTGCTCAGCATAGTATAGTGTGCTCTGAAGAAGCCGCCAAGTGGATTGGAAGCCTGTTGGTGCTTC
TTTTTCATTTGGAGGCAAACTGGTTACGTTTGAGAATGTCAGAATGCCTTCTCATCAGGGAGCTGAGCAG
CAGCAGCAGCAGCACCATTGTGTTTATTAGTCAGGTTGTAACAGAAAAGGAGTTCTCAGCCGATCAGACC
AACTTCAGCAGGCTGTGAGTACAAGGATTTATCAATTATTGCCAAAAAAATTTGATGCTTCTCAGAC
TGAATTTGAGAAAAATGTGTGGTCCTTTTGAAGGTAACCTTTGAGGATGATTCTCGTGAAAATACCTT



[View online »](#)

GAAGCTTCTAGGATACAGAAAAGAAGATCTAGGAAAGAAGCACATTAAAGAGGAAAAAGAAGATCTGAAT
TTCTACCCCTCATCTGGAGGAACATTTAATATCTCTGTCAGTGGGACATTGATGGTTTAATTACTCAGGC
TTTGCTGACGGGCAATTTGAGAGTGTCTTGACCTTTGTTTACATGATAACCGCATGGCCGATGCCATT
ATATTGGCCATAGCAGGTGGACAAGAAGCTCTGGCTCGAACCCAGAAAAAATCTTCGAAAAATCCCAAA
GCAAAATTACCAGGCTCATCTGTCAGTGGTGTGAAGAACTGGAAGAGATTGTTGAGTCTTGATCT
TAAAAATTGGAGAGAGGCTTTAGCTGCAGTATTGACTTATGCAAGCCGGATGAATTTTCAGCCCTTTGT
GATCTTTTGGGAACAGGCTTGAAAAAGAGAGATAGCCTCCTGCAGACTCAAGCATGTCTCTGCTATA
TTTGTCAGGGAATGTAGAGAAATTAGTTGCATGTTGGACTAAAGCTCAAGATGGAAGCCACCCCTTTGTC
ACTTCAGGATCTGATTGAGAAAGTTGTCATCCTGCGAAAAGCTGTGCAACTCACTCAAGCCATGGACACT
AGTACTGTAGGAGTTCTCTTGCTGCGAAGATGAGTCAGTATGCCAATTTGTTGGCAGCTCAGGGCAGTA
TTGCTGCAGCCTTGCTTTTCTTCTGACAACACCAACCAGCCAAATATCATGCAGCTTCGTGACAGACT
TTGTAGAGCACAAGGAGAGCCTGTAGCAGGACATGAATCACCTAAATCCGTACGAGAAACAGCAGCTC
CCCAAGGGCAGGCTGGACCAGTTGCTGGCCACCACCAGATGCCAAGAGTTCAAACCTCAACAATATTATC
CCCATGGAGAAAATCCTCCACCTCCGGGTTTCATAATGCATGGAATGTTAATCCAAATGCTGCTGGTCA
GCTTCCACATCTCCAGGTCATATGCACACCCAGGTACCCTTATCCACAGCCACAGCGTCTCTCAGAAT
GGTTGGAATGACCTCCAGCTTTGAACAGAGTACCCAAAAAGAAGATGCCTGAAAATTCATGCCTC
CTGTTCCCATCACATACCAATCATGAACCCGTTGGGTGACCCCAAGTCACAAATGCTGCAGCAACAGCC
TTCAGTCCAGTACCACTGTCAAGCCAGTCTTCATTCCACAGCCACATCTTCCAGGTGGCCAGCCCTTC
CATGGCGTACAGCAACCTCTTGTTCAAACAGGCATGCCACCATCTTTTCAAAGCCCAATATTGAAGGTG
CCCCAGGGGCTCTATTGGAATACCTTCCAGCATGTGCAGTCTTTGCCAACAAAAAATTACCAAGAA
ACCTATTCCAGATGAGCACCTCATTCTAAAGACCACATTTGAGGATCTTATTCAGCGTGCCTTTCTTCA
GCAACAGACCTCAAACCAAGAGGAAGCTAGATGATGCCAGCAACGTTTGGAGTTTCTGTATGATAAAC
TTAGGGAACAGACACTTTCACCAACAATCACCAGTGGTTTACACAACATTGCAAGGAGCATTGAACTCG
AAACTACTGAGGAGATTGACCATGCCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCT
TTCATGCCAGTTCTCAAAGTTGTTCTCACCAGGCCAATAAGCTGGGTGTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239931 representing NM_001300744

Red=Cloning site Green=Tags(s)

MKLKEVDRTAMQAWSPAQNHPILATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYH
KLIWGPYKMDSKGDVSGVLIAGGENGNILYDPSKIIAGDKEVIAQNDKHTGPVRALDVNIFQTNLVA
GANESIYIWDLNNFATPMTPGAQTQPPEDISCIAWNRRVQHILASASPSGRATVWDLRKNEPIIKVSDH
SNRMHCSGLAWHPDVATQMVLA SEDDLRPVIQMWDLRFASSPLRVLENHARGILAIWMSADPELLLSCG
KDAKILCSNPNTGEVL YELPTNTQWCFDIQWCPNPVLSAASF DGRISVYSIMGGSTDGLRQKQVDKLS
SSFGNLDPFGTGQPLPPLQIPQQTAAQHSIVLPLKKPPKWIRRPVGASFSGGKLVT FENVRMPSHQAEQ
QQQQHVFISQVVTEKEFLSRSDQLQAVQSQGFINYCQKKIDASQTEFEKNVWSFLKVN FEDDSRGKYL
ELLGYRKEDLGKKHIKEEKEESEFLPSSSGTFNISVSGDIDGLITQALLTGNFESA VDLCLHDNRMA
ILAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALA VLYAKPDEF
SALCDLLGTRLENEGDSLLQTQACL CYICAGNVEKL VACWTKAQDGSHP LSLQDLIEKV VILRKAVQL
TQAMDTSTVGVL LAAKMSQYANLLAAQGSIAAALAF LPDNTNQP NIMQLRDL CRAQGE PVAGHES
PKIPYEKQQLPKGRPGPVAGHHQMPRVQTQYYPHGENPPPGFIMHGNVNPNAAGQLPTSPGHMHTQ
VPPYPQRPQN GWNDPPALNRVPK KKKMPENFMPPVPI TSPIMNPLGDPQSQMLQQQPSAPVPL
SSQSSFPQPHLPGGQPF HGVQQPLGQTGMPPSFSKPNIEGAPGAPIGNTFQHVQSLPTKKITKKP
IPDEHLILKTTTFEDLIQRCLSSATDPQTKRKLDDASKRLEFLYDKLREQTLSPITISGLHNIARS
IETRNYSEGLTMHTHIVSTSNFSETSA FMPVLKVVL TQANKLGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001300744

ORF Size: 3201 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001300744.2](#), [NP_001287673.1](#)

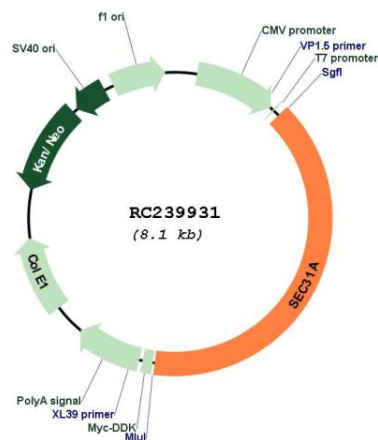
RefSeq Size: 3832 bp

RefSeq ORF: 3204 bp

Locus ID: 22872
UniProt ID: [O94979](#)
Cytogenetics: 4q21.22
MW: 118.1 kDa

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]

Product images:



Circular map for RC239931