

Product datasheet for **RG214010**

SEC31A (NM_016211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC31A (NM_016211) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEC31A
Synonyms:	ABP125; ABP130; HSPC275; HSPC334; NEDSOSB; SEC31L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214010 representing NM_016211 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGTTAAAGGAAGTAGATCGTACAGCCATGCAGGCATGGAGCCCTGCCAGAATCACCCATTAC
TAGCAACAGGAACATCTGCTCAGCAATTGGATGCAACATTTAGTACGAATGCTTCCCTTGAGATATTTGA
ATTAGACCTCTCTGATCCATCCTTGGATATGAAATCTTGCCACATTCTCTCTCTCACAGGTACCAC
AAGTTGATTTGGGGCCTTATAAAATGGATTCCAAAGGAGATGTCTCTGGAGTTCTGATTGCAGGTGGT
AAAATGGAATATTATTCTCTATGATCCTCTAAAATTATAGCTGGAGACAAGGAAGTTGTGATTGCCCA
GAATGACAAGCATACTGGCCAGTGAGAGCCTTGGATGTGAACATTTCCAGACTAATCTGGTAGCTTCT
GGTGCTAATGAATCTGAAATCTACATATGGGATCTAAATAATTTGCAACCCCAATGACACCAGGAGCCA
AAACACAGCCGCCAGAAGATATCAGCTGCATTGCATGGAACAGACAAGTTCAGCATATTTAGCATCAGC
CAGTCCCAGTGGCCGGCCACTGTATGGGATCTTAGAAAAATGAGCCAATCATCAAAGTCAGTGACCAT
AGTAACAGAAATGCATTGTTCTGGGTTGGCATGGCATCCTGATGTTGCTACTCAGATGGTCTTGCCTCCG
AGGATGACCGGTTACCAAGTATCCAGATGTGGGATCTTCGATTGCTTCCCTCTCCACTTCGTGTCTGGA
AAACCATGCCAGGGGATTTTGGCAATTGCTTGGAGCATGGCAGATCCTGAATTGTTACTGAGCTGTGGA
AAAGATGCTAAGATTCTGCTCCAATCCAAACACAGGAGAGGTGTTATATGAATTCACCAACACAC
AGTGGTGCTTCGATATTCAGTGGTGTCCCGAAATCCTGCTGTCTATCAGCTGCTTCGTTGATGGGCG
TATCAGTGTTTATTCTATCATGGGAGGAAGCACAGATGGTTTAAGACAGAAACAAGTTGACAAGCTTTCA
TCATCTTTTGGGAATCTTGATCCCTTTGGCACAGGACAGCCCTTCTCCGTTACAAATTCACAGCAGA
CTGCTCAGCATAGTATAGTGCTGCCTCTGAAGAAGCCGCCAAGTGGATTGGAAGCCTGTTGGTGCTTC
TTTTTCATTTGGAGGCAAACTGGTTACGTTTGAGAATGTCAGAATGCCTTCTCATCAGGGAGCTGAGCAG
CAGCAGCAGCAGCACCATTGTGTTTATTAGTCAGGTTGTAACAGAAAAGGAGTTCTCAGCCGATCAGACC
AACTTCAGCAGGCTGTGAGTACAAGGATTTATCAATTATTGCCAAAAAAATTTGATGCTTCTCAGAC
TGAATTTGAGAAAAATGTGTGGTCTTTTGAAGGTAACCTTTGAGGATGATTCTCGTGAAAATACCTT



[View online »](#)

GAACTTCTAGGATACAGAAAAGAAGATCTAGGAAAAGAAGCACATTAAAGAGGAAAAAGAAGATCTGAAT
 TTCTACCCCTCATCTGGAGGAACATTTAATATCTCTGTCAGTGGGACATTGATGGTTTAATTACTCAGGC
 TTTGCTGACGGGCAATTTGAGAGTGTCTTGACCTTTGTTTACATGATAACCGCATGGCCGATGCCATT
 ATATTGGCCATAGCAGGTGGACAAGAACTCTTGCTCGAACCCAGAAAAAATACTTCGAAAAATCCCAAA
 GCAAAATTACCAGGCTCATCTGTCAGTGGTGATGAAGAACTGGAAGAGATTGTTGAGTCTTGTGATCT
 TAAAAATTGGAGAGAGGCTTTAGCTGCAGTATTGACTTATGCAAAGCCGGATGAATTTTCAGCCCTTTGT
 GATCTTTTGGGAACCAGGCTTGAAAAATGAAGGAGATAGCCTCCTGCAGACTCAAGCATGTCTCTGCTATA
 TTTGTGCAGGGAATGTAGAGAAATTAGTTGCATGTTGGACTAAAGCTCAAGATGGAAGCCACCCTTTGTC
 ACTTCAGGATCTGATTGAGAAAGTTGTCATCCTGCGAAAAGCTGTGCAACTCACTCAAGCCATGGACACT
 AGTACTGTAGGAGTTCTCTTGCTGCGAAGATGAGTCAGTATGCCAATTTGTTGGCAGCTCAGGGCAGTA
 TTGCTGCAGCCTTGCTTTTCTTCTGACAACACCAACCAGCCAAATATCATGCAGCTTCGTGACAGACT
 TTGTAGAGCACAAGGAGAGCCTGTAGCAGGACATGAATCACCTAAATTCCTGACGAGAAACAGCAGCTC
 CCCAAGGGCAGGCTGGACCAGTTGCTGGCCACCACCAGATGCCAAGAGTTCAAACCTCAACAATATTATC
 CCCATGGAGAAAACTCTCCACCTCCGGGTTTCATAATGCATGGAATGTTAATCCAAATGCTGCTGGTCA
 GCTTCCCACATCTCCAGGTCATATGCACACCCAGGTACCACCTTATCCACAGCCACAGCCTTATCAACCA
 GCCCAGCCGTATCCCTTCGGAACAGGGGGTCAAGCAATGTATCGACCTCAGCAGCCTGTTGCTCCTCCTA
 CTTCAAACGCTTACCCTAACACCCCTTACATATCTTCTGCTTCTTCTATCTACTGGGCACTCAGCTGTA
 CGCAGCACAGCACCAGGCTCTTACCTACCTCCAGCCCTGCTACTTCTTCCCTCCTCCCCCTTCTCT
 GGAGCATCCTTCCAGCATGGCGGACCAGGAGCTCCACCATCATCTTCAGCTTATGCACTGCCTCCTGGAA
 CAACAGGTACACTGCCTGCTGCCAGTGAGCTGCCTGCGTCCCAAGAAGAGGTCTCAGAATGGTTGGAA
 TGACCTCCAGCTTTGAACAGAGTACCAAAAAAGAAGAAGATGCCTGAAAACCTCATGCCTCCTGTTCCC
 ATCACATACCAATCATGAACCCGTTGGGTGACCCCAAGTCACAAATGCTGCAGCAACAGCCTTCAGCTC
 CAGTACCACTGTCAAGCCAGTCTTCATTTCCACAGCCACATCTTCCAGGTGGCCAGCCCTTCCATGGCGT
 ACAGCAACCTCTTGGTCAAACAGGCATGCCACCATCTTTTTCAAAGCCCAATATTGAAGGTGCCCCAGGG
 GCTCCTATTGGAATACCTTCCAGCATGTGCAGTCTTTGCCAACAAAAAATTACCAAGAAACCTATTC
 CAGATGAGCACCTCATTCTAAAGACCACATTTGAGGATCTTATTCAGCGCTGCCTTTCTTCAGCAACAGA
 CCCTCAAACCAAGAGGAAGCTAGATGATGCCAGCAAACGTTTGGAGTTTCTGTATGATAAACTTAGGGAA
 CAGACACTTTCACCAACAATCACCAGTGGTTTACACAACATTGCAAGGAGCATTGAAACTCGAACTACT
 CAGAAGGATTGACCATGCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTCATGCC
 AGTTCTCAAAGTTGTTCTCACCAGGCCAATAAGCTGGGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

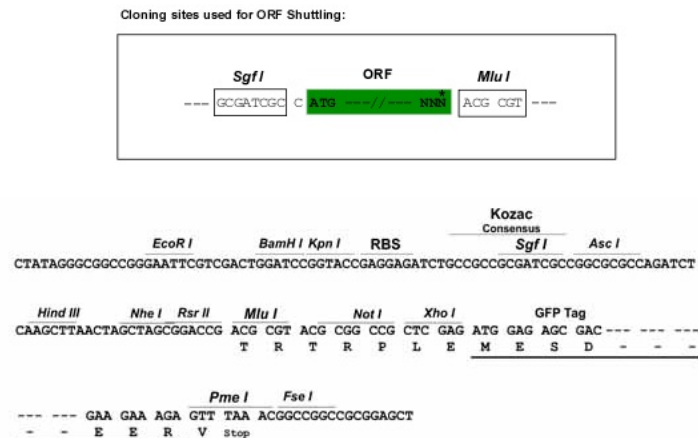
Protein Sequence: >RG214010 representing NM_016211
 Red=Cloning site Green=Tags(s)

MKLKEVDRTAMQAWSPAQNHPYIYLATGTSAAQLDQFSTNASLEIFELDSLDPQLDMKSCATFSSSHRYH
 KLIWGPYKMDSKGDVSGVLIAGGENGNILYDPSKIIAGDKEVIAQNDKHTGPRALDVNIFQTNLVA
 GANESEIYIWDLNNFATPMTPGAKTQPPEDISCIANRQVQHILASASPSGRATVWDLRKNPIIKVSDH
 SNRMHCSGLAWHPDVATQMVLA SEDDRLPVIQMWDLRFASSPLRVLENHARGILAIWSMADPELLSCG
 KDAKILCSNPNTGEVLYELPTNTQWCFDIQWCPRNPVLSAASF DGRISVYSIMGGSTDGLRQKQVDKLS
 SSFGNLD PFGTGQPLPPLQIPQQT AQHSIVLPLKKPPKWIRRPVGASFSGGKLVTFENVMP SHQGA EQ
 QQQQHVFISQVVEKEFLSRSDQLQAVQSQGFINYCQKKIDASQTEFEKNVWSFLKVNFE DDSRGKYL
 ELLGYRKEDLGKKHIKEEKEEFLPSSGGTFNISVSGDIDGLITQALLTGNFESAVDLCLHDNRMAI
 ILAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLYAKPDEFSALC
 DLLGTRLENEGD SLLQTQACLCYICAGNVEKL VACWTKAQDGSHP LSLQDLIEKVILRKAVQLTQAMDT
 STVGVLAAKMSQYANLLAAQGSIAAALAF LPDNTNQP NIMQLRDRLCRAQGE PVAGHESPKIPYEKQQL
 PKGRPGPVAGHHQMPRVQTQQYYPHGENPPPPGFIMHGNVNPNAAGQLPTSPGHMHTQVPPYPQPYQP
 AQPYPFGTGGSAMYRPQQPVAPPTSNAYPNTPYISSASSYTGSQLYAAQHQA SSPTSSPATSFPPPPSS
 GASFQHGGPGAPSSSAYALPPGTTGTLPAASELPASQRTGPQNGWNDPPALNRVPK KKKMPENFMPPVP
 ITSPIMNPLGDPQSQMLQQPSAPVPLSSQSSFPQPHLPGGQPFHGVQQPLGQTGMPPSF SKPNIEGAPG
 APIGNTFQHVQSLPTKKITKKIPDEHLILKTTFEDLIQRCLSSATDPQTKRKLDDASKRLEFLYDKLRE
 QTLSPITITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSETSAFMPVLKVLTQANKLGV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

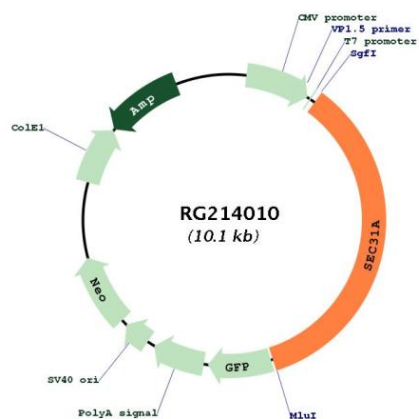


ACCN: NM_016211

ORF Size: 3543 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.
RefSeq:	NM_016211.4
RefSeq Size:	4153 bp
RefSeq ORF:	3546 bp
Locus ID:	22872
UniProt ID:	O94979
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]

Product images:



Circular map for RG214010