

Product datasheet for **RG205270**

SEC23 (SEC23A) (NM_006364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SEC23
Synonyms:	CLSD; hSec23A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG205270 representing NM_006364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAACCTATTTGGAATTCATTCAACAAAATGAAGAACGAGATGGAGTCCGATTTAGTTGGAATGTTT
 GGCCATCAAGTCGACTGGAAGCTACAAGAATGGTTGTTCTGTGGCAGCCCTGTTTACACCACTGAAAGA
 GAGACCTGACTTACCACCTATTCAATATGAACCTGTTCTGTGTAGTAGGACCACTTGCCGTGCAGTTTTG
 AATCCTTTATGTCAAGTGGATTATCGAGCAAACTTTGGGCTTGCAACTTTTGTACCAAAGGAATCAGT
 TTCCACCTAGTTATGCTGGTATATCTGAAGTGAATCAGCCTGCTGAACCTTTACCTCAGTTTTCTAGCAT
 TGAATATGTAGTTCTGCGTGGTCTCAGATGCCTTTGATATTCTCTATGTGGTTGATCTTGCAATGGAA
 GATGAAGATTTACAAGCCTGAAAGAATCCATGCAGATGTCATTAAGTCTTTTACCACCTACAGCTTTGG
 TTGGACTTATTACTTTTGGGAGAATGGTTCAGGTTTCATGAAGTGGATGTGAAGGCATTTCAAAAAGCTA
 TGTCTTCAGAGGAACAAAAGATTTGTCTGCCAAACACTGCAGGAAATGCTGGGGCTCTCTAAAGTACCA
 GTTACTCAAGCAACACGTGGTCTCAGGTACAGCAGCCACCTCCTTCCAACAGATTCTTACAACCAAGTAC
 AGAAAAAGACATGAATCTCAGAGATCTTCTGGGAGAAGTCCAGCGAGACCCCTTGGCCTGTACCACAGGG
 AAAGAGACCTTTGCGTTCCTCTGGGGTGGCACTTTCCATAGCTGTAGGACTGCTGGAGTGTACTTTTCCC
 AACACTGGTGCTCGTATCATGATGTTTCTGTTGGTCTGCTACTCAGGGGCTGGAATGGTGGTTGGAG
 ATGAGTTGAAGACACCTATAAGATCGTGGCATGACATTGACAAAGACAATGCCAAATATGTTAAAAAGGG
 AACTAAGCATTTTGAAGCATTGGCTAATCGAGCTGCTACAAGTGGCCATGTTATTGATATCTATGCGTGT
 GCATTAGATCAGACAGGTCTCTGGAGATGAAATGCTGTCCCAACCTTACTGGAGGATACATGGTAAATGG
 GTGATTCTTTCAATACTTCTTATTCAACAACTTTTCAAGAGTCTTTACCAAAGACATGCATGGACA
 GTTTAAATGGGCTTTGGTGGTACGCTAGAAATAAAGACCTCAAGGGAAATAAAGATTTTCAAGAGCTATT
 GGACCTGTGTGCTCACTCAATTCTAAAGGACCTGTGTGTCTGAAAATGAGATAGGAACAGGTGGACAT
 GTCAGTGGAAGATATGTGGACTTAGTCCCACTACAACCTTAGCCATATATTTTGGGTTGTCAATCAGCA
 TAATGCTCCAATTCCTCAAGGAGGGCGTGGTGAATCCAGTTTGTGACTCAGTATCAGCATTCAAGTGGG
 CAGAGACGCATCCGAGTGACCAACCTTGTAGGAAGTGGGCAGATGCTCAAACTCAAAATCCAAAACATTG
 CTGCATCTTTTGAACAGGAGGAGCTGCCATTCTTATGGCCCGGCTAGCAATATATAGAGCAGAAACAGA
 AGAAGGTCCAGATGTGCTTAGGTGGCTGGACAGACAGCTATTGCGACTGTGTCAGAAGTTTGGAGAATAT
 CATAAAGATGACCAAGTTCCTTCAAGATTTTCAAGAACTTTCTCACTTTATCCACAGTTTATGTTTCATT
 TAAGAAGATCTTCTTCTGCAAGTTTAAACAATAGTCTGATGAGAGTTCATATTATCGTCACCATTT
 TATGCGTCAAGATCTGACCCAGTCTCTAATTATGATTGAGCCTATCATGTATGCGTATTCTTTTAGTGGA
 CCACCAGAGCCGGTCTTCTTGATAGCAGTAGCATTCTTGAGATCGTATTCTTCTCATGGACACATTCT
 TCCAGATTTTGATTTATCATGGTGAGACCATAGCAGTGGCGGAAGTCAGGATACCAGGATATGCCTGA
 GTATGAAAAATTTCCGCCACCTTCTGCAAGCCCCAGTGGATGATGCACAGGAAATTTCTCACTCCAGATTT
 CCAATGCCAAGATACATTGACACTGAACATGGAGGCAGCCAGGCCGCTTCTCCTTTCAAAAGTCAACC
 CTTACAGACTCATAATAATATGTATGCCTGGGGCAGGAGTCTGGAGCACCTATTCTTACAGATGATGT
 TAGTTTACAAGTGTATGGATCACTTGAAGAACTTCTGTGTCCAGTCTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

```
>RG205270 representing NM_006364
```

Red=Cloning site Green=Tags(s)

MTTYLEFIQQNEERDGVRFSWNVWSSRLAETRMVVPVAALFTPLKERPDLPIIQYEPVLCSTRTCAVL
NPLCQVDYRAKLWACNFYQORNQFPSPYAGISELNQPAELLQFSSIEYVVLRGPMPLIFLYVVDTCME
DEDLQALKEQMQLSLPLPTALVGLITFGRMVQVHELGCEGISKSYVFRGTDLSAKQLQEMGLSKVP
VTQATRGPVQVQPPSNRFLQPVQKIDMNLTDLLGELQRPWPVPQGRPLRSSGVALSIAVGLLECTFP
NTGARIMMFIGGPATQGPQGMVGDDELKTPIRSWHIDIKDNAYVKKGTKHFEALANRAATTGHVIDIYAC
ALDQTGLLEMKCCPNLTGGYVMVGDSFNTSLFKQTFQRVFTKDMHGQFKMGFGGTLEIKTSREIKISGAI
GPCVSLNSKGPCVSENEIGTGGTCQWKICGLSPTTTLAIYFEVVNQHNAPIQGGRGAIQFVTQYQHSSG
QRRIRVTTIARNWADAQTQIQNIAASFQDEAAAILMARLAIYRAETEEDVLRWLDRQLIRLCQKFGEY
HKDDPSDFSSETSLFQYPMFHLRRSSFLQVFNNSPDESSYRHMFMRQDLTQSLIMIQIIMYAYSFSG
PPEPVLLDSSSLTDRIILLMTDFFKILYIHGETIAQWRKSGYQDMPEYENRHLQLAPVDDAQEAILHSR
PMPRYIDTEHGGSOARFLLSKVPNSQTHNNMYAWGQESGAPITLDDVSLVOFLMDHLKKLAYSSAA

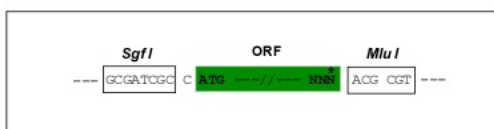
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI Asc I

CTATAGGGCGGCGGGGAATTCTGC TACTGGATCCGCTACCGAGGAGATCTGCCGCCGC GATCGCCGGCGCCGACATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
T R T R P L E M E S D - - -

PmeI FseI

--- --- GRA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
- - E E R V Stop

ACCN:

NM_006364

ORF Size:

2295 bp

OTI Disclaimer:

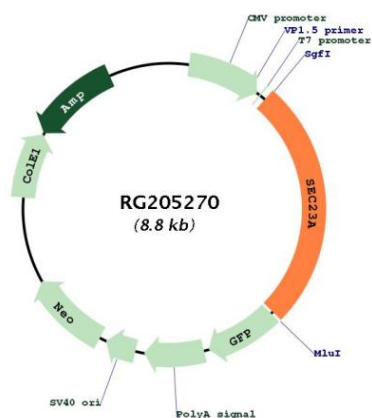
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_006364.2 , NP_006355.2
RefSeq Size:	3890 bp
RefSeq ORF:	2298 bp
Locus ID:	10484
UniProt ID:	Q15436
Cytogenetics:	14q21.1
Domains:	zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin
Gene Summary:	The protein encoded by this gene is a member of the SEC23 subfamily of the SEC23/SEC24 family. It is part of a protein complex and found in the ribosome-free transitional face of the endoplasmic reticulum (ER) and associated vesicles. This protein has similarity to yeast Sec23p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. The encoded protein is suggested to play a role in the ER-Golgi protein trafficking. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205270