

## Product datasheet for RC201686

### SEC22C (NM\_004206) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC22C (NM_004206) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC22C
Synonyms:	SEC22L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201686 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGTGATCTTTTTGCCTGCGTGGTACGGGTAAGGGATGGACTGCCCTCTCAGCCTCTACTGATT  
TTTACCACACCCAAGATTTTTGGAATGGAGGAGACGGCTCAAGAGTTTAGCCTTGGCAGTGGCCAGTA  
TCCAGGTCGAGGTTCTGCAGAAGTTGTGACTTTAGTATACATTTTTCTTTTCGGGGACGTGGCCTGC  
ATGGCTATCTGCTCCTGCCAGTGTCCAGCAGCCATGGCCTTCTGCTTCTGGAGACCCTGTGGTGGGAAT  
TCACAGCTTCTATGACACTACCTGCATTGGCCTAGCCTCCAGGCCATACGCTTTTCTTGAGTTTGACAG  
CATCATTAGAAAAGTGAAGTGGCATTAACTATGTAAGTTCTCTCAGATGGAGTGCAGCTTGGAAAAA  
ATTCAGGAGGAGCTCAAGTTCAGCCTCCAGCGTTTCTACTCTGGAGGACACAGATGTGCAAATGGGG  
TGATGAATGGTCACACCCGATGCACTTGGAGCCTGCTCCTAATTTCCGAATGGAACAGTGCAGCCCT  
GGGTATCCTCTCCCTCATTCTCAACATCATGTGTGCTGCCCTGAATCTCATTGAGGAGTTCACCTTGCA  
GAACATTCTTTACAGGTTGCCATGAGGAAATGGAAACATTCTGGCTTTTCTTGTCTTTCTGAGCCT  
GCATTTCCAGGATCCAAGGAGCTGTTCTGCTGGTTGGACCAAACCTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201686 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVIFACVVRVVDGLPLSASTDFYHTQDFLEWRRRLKSLALRLAQYPGRGSAEGCDFSIHFSSFGDVAC  
 MAICSCQCPAAMAFCFLETLWWEFTASYDTTCIGLASRPYAFLEFDSIIQKVKWHFNYSVSSQMECSLEK  
 IQEELKLQPPAVLTLEDTDVANGVMNGHTPMHLEPAPNFRMEPV TALGILSLILNIMCAALNLRIGVHLA  
 EHSLQVAHEEIGNILAFLVPFVACIFQDPRSWFCWLDQTS

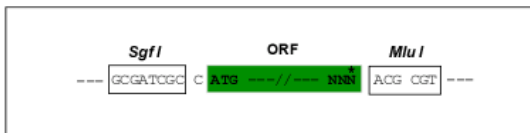
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6523\\_c05.zip](https://cdn.origene.com/chromatograms/mk6523_c05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_004206

**ORF Size:** 750 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\\_004206.4](#)

**RefSeq Size:** 1625 bp

**RefSeq ORF:** 753 bp

**Locus ID:** 9117

**UniProt ID:** [Q9BRL7](#)

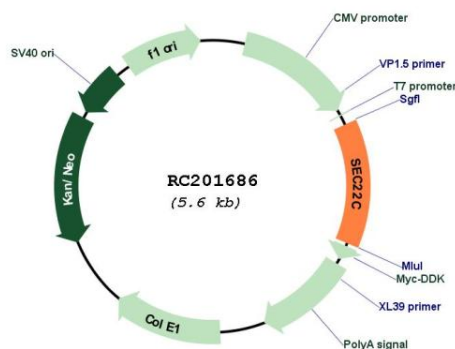
**Cytogenetics:** 3p22.1

**Protein Families:** Transmembrane

**MW:** 28.1 kDa

**Gene Summary:** This gene encodes a member of the SEC22 family of vesicle trafficking proteins. The encoded protein is localized to the endoplasmic reticulum and may play a role in the early stages of ER-Golgi protein trafficking. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

### Product images:



Circular map for RC201686