

## Product datasheet for **RC226540**

### SEC14L1 (NM\_001143999) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC14L1 (NM_001143999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC14L1
Synonyms:	PRELID4A; SEC14L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC226540 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCAGAAATACCAGTCCCCAGTGAGGGTGTACAAATACCCCTTTGAATTAATTATGGCTGCCTATG  
 AAAGGAGGTTCCCTACATGTCTTTGATTCCGATGTTCTGGGCAGTGACTGTGAATGAATTC AAGAG  
 CGAAGATGGGGCTATTTCATGTCATTGAAAGCGCTGCAAGCTGGATGTAGATGCACCCAGACTGCTGAAG  
 AAGATTGCAGGAGTTGATTATGTTATTTTGTCCAGAAAACTCACTGAATTCTCGGGAACGTACTTTGC  
 ACATTGAGGCTTATAATGAAACGTTTTCCAATCGGGTCATCATTAAATGAGCATTGCTGCTACACCGTTCA  
 CCCTGAAAATGAAGATTGGACCTGTTTTGAACAGTCTGCAAGTTAGATATTAATCTTTCTTTGGTTTT  
 GAAAGTACAGTGGAAAAATTGCAATGAAACAATATACCAGCAACATTAAGAAAGGAAAGGAAATCATCG  
 AATACTACCTTCGCCAATTAGAAGAAGAAGGCATAACCTTTGTGCCCGTTGGAGTCCGCTTCCATCAC  
 GCCCTCTTCAGAGACATCTTCATCATCCTCCAAGAAACAAGCAGCGTCCATGGCCGTCGTCATCCAGAA  
 GCTGCCCTCAAGGAGGGCTGAGTGGTGTATGCCCTCAGCAGCCCCAGCGCACCTGAGCCCGTGGTGGGCA  
 CCCCTGACGCAAACTAGATGCCGACTACATCAAGAGATACCTGGGCGATTTGACTCCGCTGCAGGAGAG  
 CTGCTCATTAGACTTCGCCAGTGGCTCCAGGAGACCCACAAGGGCAAAATTCAAAAGATGAGCATATT  
 CTTCCGTTCTCCGTGCACGGGATTTAATATTGACAAAGCCAGAGAGATCATGTGTGAGTCTTTGACGT  
 GGAGAAAGCAGCATCAGGTAGACTACATTCTTGAACCTGGACCCCTCCTCAGGTCTTCAGGATTACTA  
 CGCGGGAGGCTGGCATCATCACGACAAAGATGGGCGGCCCTCTACGTGCTCAGGCTGGGCGAGATGGAC  
 ACCAAAGGCTTGGTGAAGCGCTCGGGGAGGAAGCCCTGCTGAGATACGTTCTCTCCATAAATGAAGAAG  
 GGCTAAGGCGATGCGAAGAGAATACAAAAGTCTTTGGTCCGCTATCAGCTCATGGACCTGCCTGGTGGG  
 CTTGGAAGGGCTGAACATGCGCCACTTGTGGAGACCTGGTGTGAAAGCGCTGCTGCGGATCATCGAGGTG  
 GTGGAGGCCAACTACCCTGAGACACTGGGCCGCTTCTCATCCTGCGGGCGCCAGGGTATTTCTGTGC  
 TCTGGACGCTGGTTAGTCCGTTTCATTGATGACAACACCAGAAGGAAGTTCCTCATTTATGCAGGAAATGA  
 CTACCAGGGTCTGGAGGCTGCTGGATTACATCGACAAAGAGATTATTCAGATTTCTGAGTGGGGAG  
 TGCATGTGCGAAGTGCCAGAGGGTGGACTGGTCCCAAATCTCTGTACCGGACTGCAGAGGAGCTGGAGA  
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 GATTCTCATTAGATTGTGGATGCCTCGTCAGTCATCACTTGGGATTTGACGTGTGCAAAGGGGACATT  
 GTGTTTAAATCTATCACTCCAAGAGGTGCGCCACAACCACCAAAAAGGACTCCCTGGGAGCCCACAGCA  
 TCACCTCTCCGGTGGGAACAATGTGCAGCTCATAGACAAAGTCTGGCAGCTGGGCCGCGACTACAGCAT  
 GGTGGAGTCCGCTCTGATCTGCAAAGAAGGAGAAAGCGTGCAGGGTTCATGTGACCAGGTGGCCGGGC  
 TTCTACATCCTGCAGTGGAAATTCACAGCATGCCTGCGTGCAGCCGCGCAGCAGCTTCCCGGGTGGACG  
 ACGTGTGCGTCCCTGCAGGTCTCTTCGCACAAGTGTAAAGTGTACTACACCGAGGTGATCGGCTC  
 GGAGGATTTAGAGGTTCCATGACGAGCCTGGAGTCCAGCCACAGCGGCTTCTCCAGCTGAGTGGCCGC  
 ACCACCTCTCCAGCCAGTCCCACTCCAGCTCCATGATCTCCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226540 protein sequence  
Red=Cloning site Green=Tags(s)

```
MVQKYQSPVRVYKYPFELIMAA YERRFPTCLIPMFVGS DTVNEFKS EDGAIHVIERRCKLDVDAPRLK
KIAGVDYVYFVQKNSLNSRERTLHIEAYNETFSNRVINEHCCYVHPENEDWTCFEQASLDIKSFFGF
ESTVEKIAMKQYTSNIKKGKEII EYYLRQLEEEGITFVPRWSPSITPSSSETSSSSSKKQAASMAVVIPE
AALKEGLSGDALSSSAPEPVVGT PDDKLDADYIKRYLGDLTPLQESCLIRLRQWLQETHKGKIPKDEHI
LRFRLRARDFNIDKAREIMCQSL TWRKQHQVDYILETWTPPQVLQDYYAGGWHHDKDGRPLYVLRGQMD
TKGLVRALGEEALLRYVLSINEE GLRRCENTKVFGRPISSWTCLVDLEGLNMRHLWRPGVKALLRIIEV
VEANYPETLGRLLILRAPRVF PVLWTLVSPFIDDNTRRKF LIYAGNDYQGPGLLDYIDKEIIPDFLSGE
CMCEVPEGGLVPKSLYRTAE ELENEDLKLWTETIYQSASVFKGAPHEILIQIVDASSVITWDFDVCKGDI
VFNIIYHSKRSPQPPKDSLGAH SITSPGGNNVQLIDK VQWQLGRDYSMVESPLICKEGESVQGS HVTRWPG
FYILQWKFHSMPCAASSLPRV DDLVLAQLQVSSHCKVMYYTEVIGSEDFRGSMTSLESSHSGFSQLSAA
TTSSSQSHSSSMISR
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6485\\_d03.zip](https://cdn.origene.com/chromatograms/mk6485_d03.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\_001143999

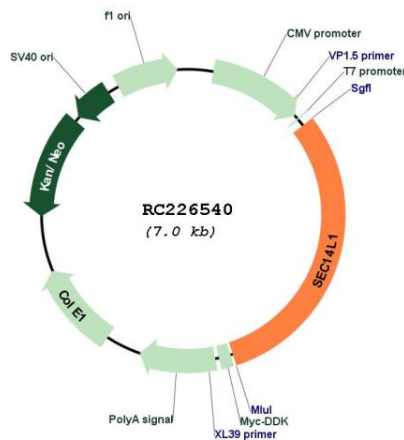
**ORF Size:** 2145 bp

**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](#)

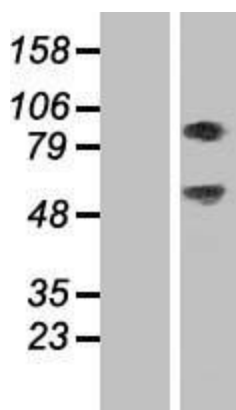
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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\\_001143999.1](#), [NP\\_001137471.1](#)
- RefSeq Size:** 5542 bp
- RefSeq ORF:** 2148 bp
- Locus ID:** 6397
- UniProt ID:** [Q92503](#)
- Cytogenetics:** 17q25.2-q25.3
- MW:** 81.2 kDa
- Gene Summary:** The protein encoded by this gene belongs to the SEC14 cytosolic factor family. It has similarity to yeast SEC14 and to Japanese flying squid RALBP which suggests a possible role of the gene product in an intracellular transport system. Multiple alternatively spliced transcript variants have been found for this gene; some variants represent read-through transcripts that include exons from the upstream gene C17orf86. [provided by RefSeq, Feb 2011]

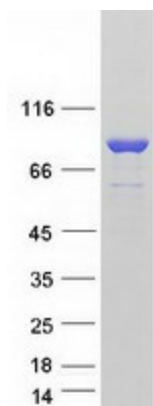
**Product images:**



Circular map for RC226540



Western blot validation of overexpression lysate (Cat# [LY428459]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226540 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC14L1 protein (Cat# [TP326540]). The protein was produced from HEK293T cells transfected with SEC14L1 cDNA clone (Cat# RC226540) using MegaTran 2.0 (Cat# [TT210002]).