

## Product datasheet for RC227259

### SEC14 like protein 2 (SEC14L2) (NM\_033382) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC14 like protein 2 (SEC14L2) (NM_033382) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC14 like protein 2
Synonyms:	C22orf6; SPF; TAP; TAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227259 representing NM_033382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCAAGTTTCGGGAGAATGTCC  
AGGATGTGCTGCCGGCCCTGCCGAATCCAGATGACTATTTCTCCTGCGTTGGCTCCGAGCCAGAAGCTT  
CGACCTGCAGAAGTCGGAGGCCATGCTCCGGAAGCATGTGGAGTCCGAAAGCAAAGGACATTGACAAC  
ATCATTAGCTGGCAGCCTCCAGAGGTGATCCAACAGTATCTGTCCAGGGGTATGTGTGGCTATGACCTGG  
ATGGCTGCCAGTCTGGTACGACATAATTGGACCTCTGGATGCCAAGGGTCTGCTGTTCTCAGCCTCCAA  
ACAGGACCTGCTGAGGACCAAGATGCGGGAGTGTGAGCTGTTCTGCAAGAGTGTGCCACCAGACCACA  
AAGTTGGGGAGGAAGGTGGAGACCATCACCATAATTTATGACTGCGAGGGGCTTGGCCTCAAGCATCTCT  
GGAAGCCTGCTGTGGAGGCTATGGAGAGTTTCTCTGCATGTTTGGAGAAAATTATCCCGAAACACTGAA  
GCGTCTTTTTGTTGTTAAAGCCCCAAACTGTTTCTGTGGCCTATAACCTCATCAAACCCTTCTGAGT  
GAGGACACTCGTAAGAAGATCATGGTCTGGGAGCAAATTGGAAGGAGTTTTACTGAAACATATCAGCC  
CTGACCAGGTGCCTGTGGAGTATGGGGCCACCATGACTGACCCTGATGAAAACCCCAAGTGCAAATCCAA  
GATCAACTACGGGGTGACATCCCCAGGAAGTATTATGTGCGAGACCAGGTGAAACAGCAGTATGAACAC  
AGCGTGCAGATTTCCCGTGGCTCCTCCCAAGTGGAGTATGAGATCCTTCCCTGGCTGTGCTCCTCA  
GGTGGCAGTTTATGTGAGATGGAGCGGATGTTGGTTTTGGGATTTTCTGAAGACCAAGATGGGAGAGAG  
GCAGCGGGCAGGGGAGATGACAGAGGTGCTGCCAACCAGAGGTACAACCTCCACCTGGTCCCTGAAGAT  
GGGACCCTCACCTGCAGTATCCTGGCATCTGTAAGTATCTCTGCCTTGCAATGCCTTGAAGCCCCATG  
TCCAGCTTTCTGCCTGTGAGTTCTCTTCTCCATGGATTTTTGGCTCTGAGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227259 representing NM\_033382  
Red=Cloning site Green=Tags(s)

MSGRVGDLSPRQKEALAKFRENVQDVLPALPNPDDYFLLRWLRARSFDLQKSEAMLRKHVEFRKQKIDIDN  
 IISWQPPEVIQQYL SGGMCGYDL DGC PVWYDI IGPLDAKGLLFSASKQDLLRTKMRECELLLQECAHQTT  
 KLGRKVEITITIIYDCEGLGLKHLWKPAVEAYGEFLCMFEENYPETLKRFLFVVKAPKLPVAYNLIKPFLS  
 EDTRKKIMVLGANWKEVLLKHI SPDQVPVEYGGTMTDPDGNPKCKSKINYGDDIPRKYVYRDQVKQYEH  
 SVQISRGSSHQVEYEILFPGCVLRWQFMSDGDVGFIFLKTGMGERQRAGEMTEVLPNQRYNSHLVPED  
 GLTCSDPGICKYLCLGNALKPHVQLSACEVPLPPWIFGSEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_033382

**ORF Size:** 1176 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\\_033382.2](#), [NP\\_203740.1](#)

**RefSeq Size:** 1845 bp

**RefSeq ORF:** 1179 bp

**Locus ID:** 23541

**UniProt ID:** [O76054](#)

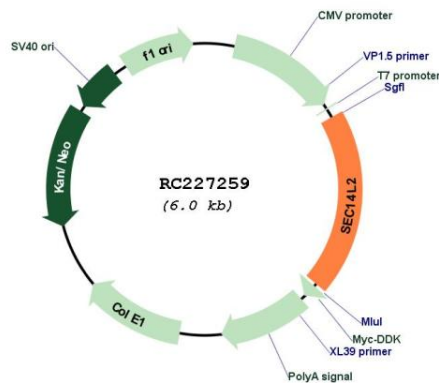
**Cytogenetics:** 22q12.2

**Protein Families:** Transcription Factors

**MW:** 44.7 kDa

**Gene Summary:** This gene encodes a cytosolic protein which belongs to a family of lipid-binding proteins including Sec14p, alpha-tocopherol transfer protein, and cellular retinol-binding protein. The encoded protein stimulates squalene monooxygenase which is a downstream enzyme in the cholesterol biosynthetic pathway. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

### Product images:



Circular map for RC227259