

## Product datasheet for **RC215994**

### SEC14 like protein 2 (SEC14L2) (NM\_012429) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC14 like protein 2 (SEC14L2) (NM_012429) 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:	>RC215994 representing NM_012429 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCAAGTTTCGGGAGAATGTCC  
AGGATGTGCTGCCGGCCCTGCCGAATCCAGATGACTATTTCTCCTGCGTTGGCTCCGAGCCAGAAGCTT  
CGACCTGCAGAAGTCGGAGGCCATGCTCCGAAGCATGTGGAGTTCGAAAGCAAAGGACATTGACAAC  
ATCATTAGCTGGCAGCCTCCAGAGGTGATCCAACAGTATCTGTCAGGGGGTATGTGTGGCTATGACCTGG  
ATGGCTGCCAGTCTGGTACGACATAATTGGACCTCTGGATGCCAAGGGTCTGCTGTTCTCAGCCTCCAA  
ACAGGACCTGCTGAGGACCAAGATGCGGGAGTGTGAGCTGCTTCTGCAAGAGTGTGCCACCAGACCACA  
AAGTTGGGGAGGAAGGTGGAGACCATCACCATAATTTATGACTGCGAGGGGCTTGGCCTCAAGCATCTCT  
GGAAGCCTGCTGTGGAGGCCTATGGAGAGTTTCTCTGCATGTTTGAGGAAAATTATCCCGAAACACTGAA  
GCGTCTTTTTGTTTAAAGCCCCCAAAGTGTTCCTGTGGCCTATAACCTCATCAAACCTTCTCTGAGT  
GAGGACACTCGTAAGAAGATCATGGTCTGGGAGCAAATTGGAAGGAGTTTTACTGAAACATATCAGCC  
CTGACCAGGTGCCTGTGGAGTATGGGGGCACCATGACTGACCCTGATGGAACCCCAAGTGCAATCCAA  
GATCAACTACGGGGGTGACATCCCCAGGAAGTATTATGTGCGAGACCAGGTGAAACAGCAGTATGAACAC  
AGCGTGCAGATTTCCCGTGGCTCCTCCCAAGTGGAGTATGAGATCCTTCCCTGGCTGTGTCCTCA  
GGTGGCAGTTTATGTGAGATGGAGCGGATGTTGGTTTTGGGATTTTCTGAAGACCAAGATGGGAGAGAG  
GCAGCGGGCAGGGGAGATGACAGAGGTGCTGCCAACCAGAGGTACAACCTCCACCTGGTCCCTGAAGAT  
GGGACCTCACCTGCAGTGATCCTGGCATCTATGTCCTGCGGTTTGACAACACCTACAGCTTCATTCATG  
CCAAGAAGGTCAATTTCACTGTGGAGGTCTGCTCCAGACAAAGCCTCAGAAGAGAAGATGAAACAGCT  
GGGGGCAGGCACCCCGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC215994 representing NM\_012429  
 Red=Cloning site Green=Tags(s)

MSGRVGDLSPRQKEALAKFRENVDVLPALPNPDDYFLLRWLRARSFDLQKSEAMLRKHVEFRKQKDIDN  
 IISWQPPEVIQQYL SGGMCGYDL DGCVPWYDI IGPLDAKGLLF SASKQDLLRTKMRECELLLQEC AHQT  
 KLGRKVETITIIYDCEGLGLKHLWKPAVEAYGEFLCMFEENYPETLKR LFVVKAPKLPVAYNL IKPFLS  
 EDTRKKIMVLGANWKEVLLKHISPDQVPVEYGGTMTDPDGNPKCKSKIN YGGDIPRKYVVRDQVKQYEH  
 SVQISRGSSHQVEYIILFPGCVLRWQFM SDGADVGF GIFLKT KMGERQRAGEMTEVLPNQRYNSHLVPED  
 GTLTCSDPGIYVLRFDNTYSFIHAKKVNF TVEVLL PDKASEEKMQLGAGTPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6485\\_f01.zip](https://cdn.origene.com/chromatograms/mk6485_f01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012429

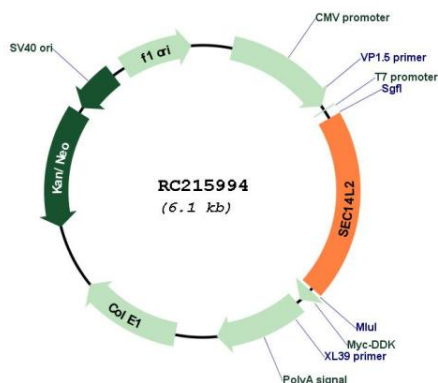
**ORF Size:** 1209 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

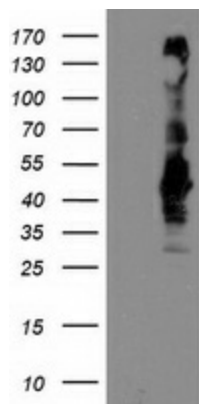
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_012429.5</a>
<b>RefSeq Size:</b>	2818 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	23541
<b>UniProt ID:</b>	<a href="#">O76054</a>
<b>Cytogenetics:</b>	22q12.2
<b>Domains:</b>	SEC14
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	46 kDa
<b>Gene Summary:</b>	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]

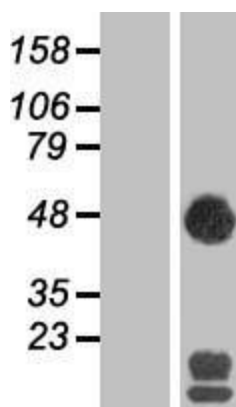
## Product images:



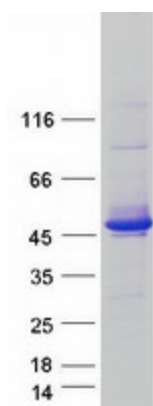
Circular map for RC215994



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SEC14L2 (Cat# RC215994, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SEC14L2 (Cat# [TA503723]). Positive lysates [LY415756] (100ug) and [LC415756] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415756]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215994 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC14L2 protein (Cat# [TP315994]). The protein was produced from HEK293T cells transfected with SEC14L2 cDNA clone (Cat# RC215994) using MegaTran 2.0 (Cat# [TT210002]).