

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**CGATCGCC**

ATGAGCGGCAGAGTCGGCGATCTGAGCCCCAGGCAGAAGGAGGCATTGGCCAAGTTTCGGGAGAATGTCC
AGGATGTGCTGCCGGCCCTGCCGAATCCAGATGACTATTTCTCCTGCGTTGGCTCCGAGCCAGAAGCTT
CGACCTGCAGAAGTCGGAGGCCATGCTCCGGAAGCATGTGGAGTCCGAAAGCAAAGGACATTGACAAC
ATCATTAGCTGGCAGCCTCCAGAGGTGATCCAACAGTATCTGTCAGGGGGTATGTGTGGCTATGACCTGG
ATGGCTGCCAGTCTGGTACGACATAATTGGACCTCTGGATGCCAAGGGTCTGCTGTTCTCAGCCTCCAA
ACAGGACCTGCTGAGGACCAAGATGCGGGAGTGTGAGCTGCTTCTGCAAGAGTGTGCCACCAGACCACA
AAGTTGGGGAGGAAGGTGGAGACCATCACCATAATTTATGACTGCGAGGGGCTTGGCCTCAAGCATCTCT
GGAAGCCTGCTGTGGAGGCTATGGAGAGTTTCTCTGCATGTTTGGAGAAAATTATCCCGAAACACTGAA
GCGTCTTTTTGTTGTTAAAGCCCCAAACTGTTTCTGTGGCCTATAACCTCATCAAACCTTCTGAGT
GAGGACACTCGTAAGAAGATCATGGTCTGGGAGCAAATTGGAAGGAGTTTTACTGAAACATATCAGCC
CTGACCAGGTGCCTGTGGAGTATGGGGGCACCATGACTGACCCTGATGAAACCCCAAGTGCAAATCCAA
GATCAACTACGGGGTGACATCCCCAGGAAGTATTATGTGCGAGACCAGGTGAAACAGCAGTATGAACAC
AGCGTGCAGATTTCCCGTGGCTCCTCCCAAGTGGAGTATGAGATCCTTCCCTGGCTGTGTCCTCA
GGTGGCAGTTTATGTAGATGGAGCGGATGTTGGTTTTGGGATTTTCTGAAGACCAAGATGGGAGAGAG
GCAGCGGGCAGGGGAGATGACAGAGGTGCTGCCAACCAGAGGTACAACCTCCACCTGGTCCCTGAAGAT
GGGACCCTCACCTGCAGTATCCTGGCATATGTCTGCGGTTTGAACAACCTACAGTTCATTTCATG
CCAAGAAGGTCAATTTCACTGTGGAGGTCTGCTTCCAGACAAAGCCTCAGAAGAGAAGATGAAACAGCT
GGGGCAGGCACCCGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215994 representing NM_012429
Red=Cloning site Green=Tags(s)

MSGRVGDLSRQKEALAKFRENVDVLPALPNPDDYFLLRWLRARSFDLQKSEAMLRKHVEFRKQKDIDN
 IISWQPPEVIQQYL SGGMCGYDL DGC PVWYDI IGPLDAKGLLFSASKQDLLRTKMRECELLLQECAHQTT
 KLGRKVEITITIIYDCEGLGLKHLWKPAVEAYGEFLCMFEENYPETLKRFLFVVKAPKLFVAYNLIKPFSL
 EDTRKKIMVLGANWKEVLLKHI SPDQVPVEYGGTMTDPDGNPKCKSKINYGDI PRKYVYRDQVKQYEH
 SVQISRGS SHQVEYELFPGCVLRWQFMSDGDVGF GIFLKT KMGERQRAGEMTEVLPNQRYNSHLVPED
 GLTCSDPGIYVLRFDNTYSFIHAKKVNF TVEVLL PDKASEEKMQLGAGTPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6485_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_012429

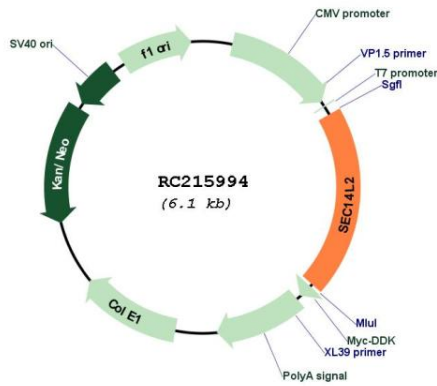
ORF Size: 1209 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

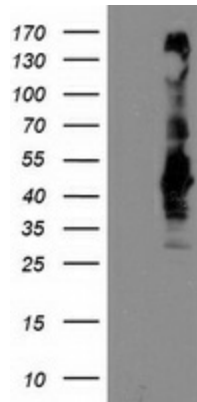
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

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:	<ol style="list-style-type: none">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:	<u>NM_012429.5</u>
RefSeq Size:	2818 bp
RefSeq ORF:	1212 bp
Locus ID:	23541
UniProt ID:	<u>O76054</u>
Cytogenetics:	22q12.2
Domains:	SEC14
Protein Families:	Transcription Factors
MW:	46 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]

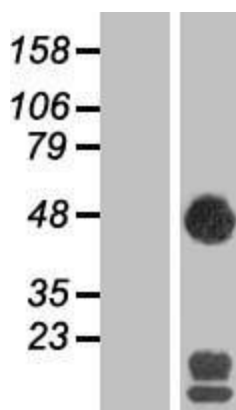
Product images:



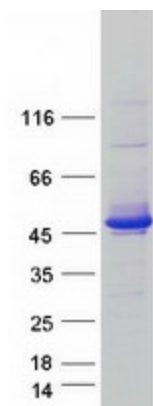
Circular map for RC215994



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]).