

Product datasheet for **RC231279**

Sterol carrier protein 2 (SCP2) (NM_001193600) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Sterol carrier protein 2 (SCP2) (NM_001193600) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Sterol carrier protein 2 |
| Synonyms: | NLTP; NSL-TP; SCOX; SCP-2; SCP-CHI; SCP-X; SCPX |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC231279 representing NM_001193600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCTTCCCGTGGGAGCCTGCGACCCTGCGCCGGGTGTTGTTGGTGGGGTTGGCATGACCAAGT
 TTGTGAAGCCTGGAGCTGAGAATCAAGAGACTACCCTGACTTGGCAGAAGAAGCAGGCAAGAAGCCTTT
 AGCTGATGCACAGATCCCTTATTAGCAGTGGACCAGGCATGTGTTGGCTATGTTTTGGTGGCAGAA
 TGTGTCTTGGCTCTGGGTTTGAAGAAGTGAAGTAAAGGGAAGCCTTGAATAAAAATTTTCAGATAGAACCA
 TTTCCACTGATAAGCATGTTGACCTCCTGATCAATAAGTATGGATTGTCTGCTCACCCAGTTGCTCCTCA
 GATGTTTTGGGTATGCTGGAAAAGACATATGGAATAATGGAACAAAAATTGAACACTTTGCAAAAAATT
 GGATGGAAAAATCATAAACATTCAGTTAATAACCCGATTTCCAGTTCGAAGTGAATACAGTTTAGATG
 AAGTATGGCATCTAAAGAAGTTTTGATTTTTGACTATCTTACAATGTTGCCACTTCAGATGGTGC
 TGCAGCAGCAATTTGGCCAGTGAAGCATTGTACAGAAGTATGGCTGCAATCCAAAGCTGGAAATT
 TTGGCACAAAGAAATGATGACTGATTTGCCAAGCTCGTTTGAAGAAAAAGCATTATTAATAATGGTTGGCT
 TTGATATGAGTAAAGAAGCTGCAAGAAAAATGCTATGAGAAATCTGGCCTGACACCAAAATGATATTGACGT
 AATAGAACTTCACGATTGCTTTTCTACCAACGAACTCCTTACTTATGAAGCACTGGGACTCTGTCCAGAA
 GGACAAGGTGCAACGCTGGTTGATAGAGGAGATAATACATATGGAGGAAAGTGGGTGATAAATCCTAGTG
 GTGGACTGATTTCAAAGGGACACCCACTAGGCGCTACAGGTCTTGTCTCAGTGTGCAGAACTCTGTGGCA
 GCTGAGAGGGGAAGCCGGAAGAGGCAAGTTCCTGGTCAAAGGTGGCTTGCAGCATAATTTAGGCATT
 GGAGGAGCTGTGGTTGTAACTCTACAAGATGGGTTTTCCGGAAGCCCGCAGTTCTTTTAGAATCATC
 AAATGAAGCTGTTCCAACAGCTCTGCAAGTGGATTTAAGGCAAATCTTGTTTTTAAGGAGATTGA
 GAAGAAACTTGAAGAGGAAGGGGAACAGTTTTGTGAAGAAAAATCGGTGGTATTTTTGCCTCAAGGTGAAA
 GATGGCCCTGGGGTAAAGAGGCCACCTGGGTGGTGGATGTAAGAATGGCAAAGGATCAGTCTTCTTA
 ACTCAGATAAGAAGGCTGACTGCACAATCACAATGGTGACTCAGACTTCTGGCTTTAATGACTGGTAA
 AATGAATCCTCAGTCGGCCTTCTTCAAGGCAAATGAAAATCACTGGCAACATGGGTCTCGCTATGAAG
 TTACAAAATCTCAGTTCAGCCAGGCAACGCTAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231279 representing NM_001193600
 Red=Cloning site Green=Tags(s)

MSSSPWEPATLRRVVFVGVGMKTFVKPGAENSRDYPDLAEEAGKKALADAQIPYSAVDQACVGVYFVGVAE
 CVLLALGFEMSKGSLGIKFSDRTIPTDKHVDLLINKYGLSAHPVAPQMFYAGKEHMEKYGTKIEHFAKI
 GWKNHKHSVNNPYSQFQDEYSLDEVMSKEVDFDLTILQCCPTSDGAAAAILASEAFVQKYGLQSKAVEI
 LAQEMMTDLPSSFEEKSIKMGVDFDMSKEAARKCYEKSLTPNDIDVIELHDCFSTNELLTYEALGLCPE
 GQGATLVDRGDNTYGGKWINPSSGLISKHPLGATGLAQCAELCWQLRGEAGKRQVPGAKVALQHNLGI
 GGAVVVTLYKMGFPEAASSFRTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQFVKKIGGIFAFKVK
 DGPGGKEATWVVDVKNKGSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGLKITGNMGLAMK
 LQNLQLQPGNAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8063_h02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001193600

ORF Size: 1509 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_001193600.2](#)

RefSeq ORF: 1512 bp

Locus ID: 6342

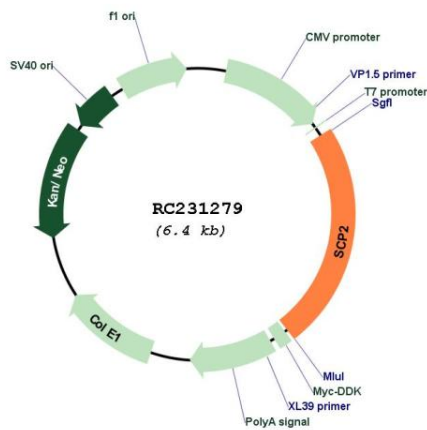
Cytogenetics: 1p32.3

Protein Pathways: Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis

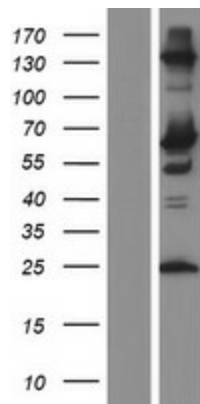
MW: 54.9 kDa

Gene Summary:

This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms.[provided by RefSeq, Aug 2010]

Product images:


Circular map for RC231279



Western blot validation of overexpression lysate (Cat# [LY434278]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231279 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).