

Product datasheet for RC218251

Sterol carrier protein 2 (SCP2) (NM_001007100) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sterol carrier protein 2 (SCP2) (NM_001007100) 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)
ORF Nucleotide Sequence: >RC218251 representing NM_001007100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGTTTTCCGGAAGCCGCCAGAACTCATCAAATTGAAGCTGTTCCAACCAGCTCTGCAAGTGATGGAT
 TTAAGGCAAATCTTGTGTTTTAAGGAGATTGAGAAGAACTTGAAGAGGAAGGGGAACAGTTTGTGAAGAA
 AATCGGTGGTATTTTGCCTTCAAGGTGAAAGATGGCCCTGGGGTAAAGAGGCCACCTGGGTGGTGGAT
 GTGAAGAATGGCAAAGGATCAGTGCTTCTAAGTCAAGTAAAGAGGCTGACTGCACAATCACAATGGCTG
 ACTCAGACTTCTGGCTTAAATGACTGGTAAAATGAATCCTCAGTCGGCCTTCTTTCAAGGCAAATTGAA
 AATCACTGGCAACATGGGTCTCGCTATGAAGTTACAAAATCTTCAGCTTCAGCCAGGCAACGCTAAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218251 representing NM_001007100
 Red=Cloning site Green=Tags(s)

MGFPEARTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQFVKKIGGIFAFKVKDGPGGKEATWVVD
 VKNGKGSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGKLIKITGNMGLAMKLQNLQLQPGNAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_a05.zip

Restriction Sites: SgfI-MluI

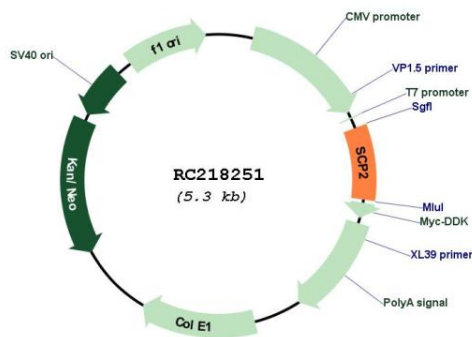


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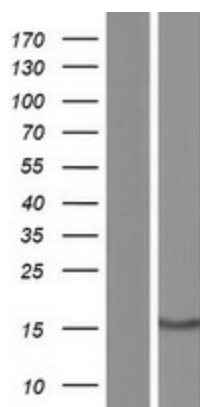
Cytogenetics: 1p32.3
Protein Pathways: Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis
MW: 15.08 kDa

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]

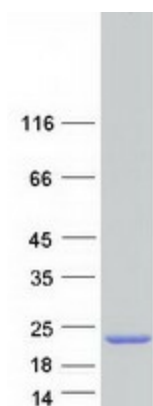
Product images:



Circular map for RC218251



Western blot validation of overexpression lysate (Cat# [LY422798]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218251 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCP2 protein (Cat# [TP318251]). The protein was produced from HEK293T cells transfected with SCP2 cDNA clone (Cat# RC218251) using MegaTran 2.0 (Cat# [TT210002]).