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Product datasheet for MC205292

Scap (NM_001001144) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scap (NM_001001144) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Scap
Synonyms:	9530044G19; mKIAA0199
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC070437

GTTGAGAGGTGAAGGGGCGGGGAGCTGCGCGGGCGCCGGGCGGCCGGGAGGGAGAGGGCGGGCTCCAAAC
ACCGGACCGCGGGCCAGGAGCGCGCAGGCCGTTCTCCGCCGCTCGGTCGCCGCCGCCCGGGAGCTGCCTC
GCTGCCACAGGTGCCTGCAGATGATGTCTGCTGTAAGTGATATCCAGCATCTTCCGGGCTGATCCATGGT
CACTTTCCGGGATGGCAACAAGGTGACTTAGCCGAGGATGACCCTGACTGAAAGGCTTCGTGAGAAGATA
TCTCAGGCCTTCTACAACCATGGGCTGCTCTGCGCATCCTATCCAATTCCCATCATCCTCTTCACAGGAC
TCTGCATCTTAGCCTGCTGCTACCCGCTGCTGAAGCTCCCCTTGCCTGGAACGGGACCTGTGGAATTCTC
CACGCCTGTGAAGGGTTACTCGCCCCCGCCTGCGGACTCTGACCACAAACAAGGAGAGCCCAGCGAGCAG
CCAGAGTGGTATGTGGGTGCCCCCGTGGCGTACATCCAACAGATATTTGTGAAGTCATCGGTGTCTCCCT
GGCACAGAAATCTTCTGGCAGTCGATGTGTTCCGGTCACCTCTGTCCCGAGCATTCCAACTGGTGGAAGA
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AAAAGGCTGCGTGTCATCTACTTCCTGGCCCGCACTCGCCTGGCCCAGCGCCTCATCATGGCTGGTACCG

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TTGTCTGGATTGGCATCCTGGTATACACCGACCCGGCAGGGCTGCGCACCTACCTTGCTGCCCAGGTGAC
AGAGCAGAGCCCACTGGGTGAGGGTTCCCTGGGCCCCATGCCTGTGCCTAGCGGAGTGCTGCCTGCCAGC
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AGGCTCTGGAGGGGCGACACCCTCAGGATGGTCGCAGTGCCTGGGCCCCACAAGAGCCTTTGCCCGCTGG
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CGCGTAATTATGGGCAGCCGGGTGGTGGCCCCGGCAGGCGGAGGCGCGGGGAGCTGCCCTGCGATGACTA
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TAATCGACACCAACTTCTCGGTGCAGCTGCCCCCAGAGCCCACTCAGCCCGAGCCTCGGCACCGGGTGGG
CTGTGGCCGCTCTAGAGACTCGGGTTATGACTTCAGCCGCCTGGTGCAGCGTGTGTACCAGGAGGAAGGC
CTGGCTGCTATGCGCATGCCGGCCCTGCGCCCACCCTCCCCTGGACCTCCCTTGCCCCAGGCCTCTCAAG
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CTGCCGGGCGCCTAGTGACAGGGAGCCAAGACCATACTCTAAGAGTCTTCCGACTGGATGACTCGTGTTG
CCTCTTTACCCTGAAGGGCCACTCAGGGGCAATCACAGCTGTGTACATTGATCAGACCATGGTACTGGCC
AGTGGAGGACAAGATGGAGCCATCTGCCTGTGGGATGTACTAACAGGCAGCCGGGTCAGCCAAACATTTG
CTCACCGTGGAGATGTTACCTCCCTCACCTGTACCGCTTCCTGTGTCATTAGTAGTGGCCTGGATGACTT
CATCAGTATCTGGGACCGCAGCACAGGCATCAAGCTGTACTCCATTCAGCAGGACCTGGGCTGTGGTGCA
AGCTTGGGTGTCATCTCAGATAACCTTCTGGTGACCGGCGGCCAGGGCTGTGTCTCCTTTTGGGACCTAA
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GGTGTTGGACAATGCTGCCATTGTCTGCAACTTTGGCAGTGAGCTCAGCCTAGTGTATGTGCCCTCTGTG
CTGGAGAAACTGGACTGAAGGCAGGTCAAGTACGCTATTCCCTTTCCCCCATCCCAAGGTGGGGCACAGG
GGATAGCAACTCTTTGGACCTAGACTAGAGGCAATAGCTGACTCTGAACTGTTGTCTCCTGACTGTAATA
ATAAACTTTTTTAAAAAACCACAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_001001144

Insert Size: 3831 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	BC070437, AAH70437
RefSeq Size:	4247 bp
RefSeq ORF:	3831 bp
Locus ID:	235623
UniProt ID:	Q6GQT6
Cytogenetics:	9 59.91 cM
Gene Summary:	Escort protein required for cholesterol as well as lipid homeostasis. Regulates export of the SCAP/SREBF complex from the ER upon low cholesterol. Formation of a ternary complex with INSIG at high sterol concentrations leads to masking of an ER-export signal in SCAP and retention of the complex in the ER. Low sterol concentrations trigger release of INSIG, a conformational change in the SSC domain of SCAP, unmasking of the ER export signal, recruitment into COPII-coated vesicles, transport to the Golgi complex, proteolytic cleavage of SREBF in the Golgi, release of the transcription factor fragment of SREBF from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.