

Product datasheet for **RC201359**

SCGN (NM_006998) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SCGN (NM_006998) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SCGN
Synonyms: CALBL; DJ501N12.8; SECRET; SEGN; setagin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201359 representing NM_006998
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACAGCTCCCGGAACCGACTCTGGGGCGCTTGGACGCCGCTGGCTTCTGGCAGGTCTGGCAGCGCT
TTGATGCGGATGAAAAAGGTTACATAGAAGAGAAGGAACCGATGCTTTCTTTCTCCACATGTTGATGAA
ACTGGGTACTGATGACACGGTCATGAAAGCAAATTTGCACAAGGTGAAACAGCAGTTTATGACTACCCAA
GATGCCTCTAAAGATGGTCGCATTGGATGAAAGAGCTTGCTGGTATGTTCTTATCTGAGGATGAAAAT
TTCTTCTGCTCTTTCGCCGGGAAAACCCACTGGACAGCAGCGTGGAGTTTATGCAGATTTGGCGCAAATA
TGACGCTGACAGCAGTGGCTTTATATCAGCTGCTGAGCTCCGCAACTTCCTCCGAGACCTTTTCTTCAC
CACAAAAAGGCCATTTCTGAGGCTAAACTGGAAGAATACACTGGCACCATGATGAAGATTTTGGACAGAA
ATAAAGATGGTCGGTTGGATCTAAATGACTTAGCAAGGATTCTGGCTCTTCAGGAAAATCTCCTTCTCCA
ATTTAAATGGATGCTTGTCTACTGAAGAAAGGAAAAGGGACTTTGAGAAAATCTTTGCCTACTATGAT
GTTAGTAAACAGGAGCCCTGGAAGGCCAGAAGTGGATGGGTTTGTCAAAGACATGATGGAGCTTGTC
AGCCAGCATCAGCGGGTGGACCTTGATAAGTCCCGAGATTCCTCGCTACTGCGACGTGAACAA
GGATGAAAAATTCAGAAGTCTGAGCTGGCTTTGTGTCTTGGGCTGAAAAATCAACCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201359 representing NM_006998
Red=Cloning site Green=Tags(s)

MSSSREPTLGRLDAAGFWQVWQRFDADEKGYIEEKELDAFFLHMLMKLGTDDTVMKANLHKVKQQFMTTQ
 DASKDGRIRMKELAGMFLSEDFLLFRRENPLDSSVEFMQIWRKYDADSSGFI SAAELRNFLRDLFLH
 HKKAI SEAKLEEYGTMMKIFDRNKDGRDLNDLARILALQENFLLQFKMDACSTEERKRDFEKIFAYYD
 VSKTGALEGPEVDGFVKDMMELVQPSISGVDLDFREILLRHCDVKNKDGKIQKSELALCLGLKINP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1506_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006998

ORF Size: 828 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006998.4](#)

RefSeq Size: 1492 bp

RefSeq ORF: 831 bp

Locus ID: 10590

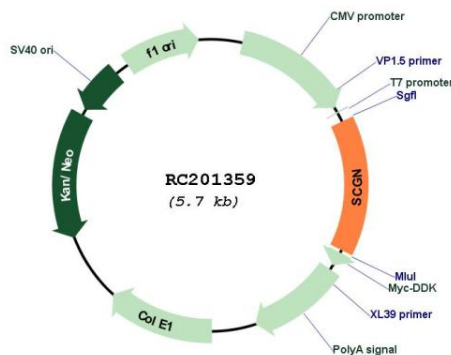
UniProt ID: [O76038](#)

Cytogenetics: 6p22.2

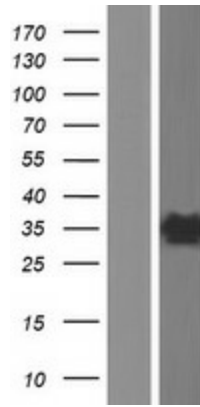
MW: 31.9 kDa

Gene Summary: The encoded protein is a secreted calcium-binding protein which is found in the cytoplasm. It is related to calbindin D-28K and calretinin. This protein is thought to be involved in KCL-stimulated calcium flux and cell proliferation. [provided by RefSeq, Jul 2008]

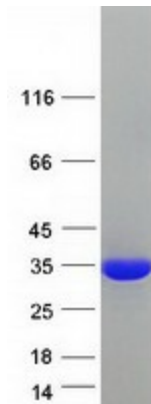
Product images:



Circular map for RC201359



Western blot validation of overexpression lysate (Cat# [LY416264]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201359 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCGN protein (Cat# [TP301359]). The protein was produced from HEK293T cells transfected with SCGN cDNA clone (Cat# RC201359) using MegaTran 2.0 (Cat# [TT210002]).