

## Product datasheet for **RC234409**

### SLC33A1 (NM\_001190992) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC33A1 (NM_001190992) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC33A1
Synonyms:	ACATN; AT-1; AT1; CCHLND; SPG42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234409 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCACCCACCATCTCCACAAGGACAGCAGCCGGCAACGGCGGCCAGGGAATTCAGTCACTCTCTGG  
 ATATGAAGAGCGGTCCCCTGCCGCCAGGCGGTTGGGATGACAGTCAATTTGGACTCAGCGGCCGGGAAGG  
 GGACAGAGAAGCTCTTCTGGGGATACCGGCACTGGCGACTTCTTAAAAGCCCCACAGAGCTTCCGGGCC  
 GAACTAAGCAGCATTTTGTACTACTCTTTCTTTACGTGCTTCAGGGTATCCCTTGGGCTTGGCGGGAA  
 GCATCCCCTCATTTTGC AAAGCAAAAATGTTAGCTATACAGACCAAGCTTTCTCAGTTTTGTCTTTT  
 GCCCTCAGTCTCAAATTA CTCTGGGCCCGTTGGTTGATGCGGTCTACGTTAAGAACTTCGGTCGTCGC  
 AAATCTTGGCTTGTCCCACACAGTATACTAGGACTCTTCATGATCTATTTATCCACTCAGGTGGACC  
 GTTTGCTTGGGAATACCGATGACAGAACACCCGACGTGATTGCTCTCACTGTGGCGTTCTTTTTGTTTGA  
 ATCTTGGCCGCACTCAGGACATTGCCGTCGATGGTTGGCGTTAACTATGTTATCCAGGAAAATGTG  
 GGTATGCTTCTACTTGAATTCGGTGGCCAAACAGCGGTTACTTTTTGGGCAATGTTTTGTTTTTGG  
 CCCTTGAATCTGCCGACTTTTGTAACAAAATATTTGCGTTTTACGCTCAACCCAGAGGAATCGTTACTCT  
 TTCAGATTTCTTTTTTCTGGGAACTGTATTTTAAACAACAACATTGGTTGCCCTTCTGAAAAA  
 GAAAACGAAGTATCAGTAGTAAAAGAAGAAACACAAGGGATCACAGATACTTACAAGCTGCTTTTTGCAA  
 TTATAAAAATGCCAGCAGTTCTGACATTTTGCCTTCTGATTCTAACTGCAAAGATTGGTTTTTTCAGCAGC  
 AGATGCTGTAACAGGACTGAAATGGTAGAAGAGGGAGTACCCAAAGAACATTTAGCCTTATTGGCAGTT  
 CCAATGGTTCTTTGCAGATAACTGCCTCTGATTATCAGCAAATACACTGCAGGTCCCCAGCCATTAA  
 ACACATTTTACAAGCCATGCCCTACAGATTATGCTTGGTTAGAATATGCCCTACTGGTTTGGTGGAC  
 TCCTAAAGTAGAACATCAAGGGGGATTCCCTATATATTACTATATCGTAGTCTGCTGAGTTATGCTTTA  
 CATCAGGTTACAGTGTACAGCATGTATGTTTCTATAATGGCTTTCAATGCAAAGTTAGTGATCCACTTA  
 TTGGAGGAACATACATGACCCTTTTAAATACCGTGTCCAATCTGGGAGGAACTGGCCTTCTACAGTAGC  
 TCTTTGGCTTGTAGATCCCCTCACAGTAAAAGAGTGTGTAGGAGCATCAAACCAGAATTGTCGAACACCT  
 GATGCTGTTGAGCTTTGCAAAAACCTGGGTGGCTCATGTGTTACAGCCCTGGATGGTTATTATGTGGAGT  
 CCATTATTTGTGTTTTATTGGATTTGGTTGGTGGTTCTTTCTTGGTCCAAAATTTAAAAAGTTACAGGA  
 TGAAGGATCATCTTCGTGAAATGCAAAGGAACAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234409 protein sequence  
 Red=Cloning site Green=Tags(s)

MSPTISHKDSSRQRRPGNFSHSLDMKSGPLPPGGWDDSHLDSAGREGDREALLGDTGTGDFLKAPQSFRA  
 ELSSILLLLFLYVLQGIPLGLAGSIPLILQSKNVSYTDQAFFSFVFWPFLKLLWAPLVDVAVYVKNFGRR  
 KSWLVPTQYILGLFMIYLSQVDRLLGNTDDRTPDVIALTVAFFLFEFLAATQDIAVDGWALTMLSRENV  
 GYASTCNSVQTAGYFLGNVFLALESADFCKNYLRFQPPRGIVTLSDFLFFWGTVFLITTTLVALLKK  
 ENEVSVVKEETQGITDITYKLLFAIKMPAVLTFCLLILTAKIGFSAADAVTGLKLVVEGVPKEHLALLAV  
 PMVPLQIILPLIISKYTAGPQLNTFYKAMPYRLLLGLEYALLVWVTPKVEHQGGFPIYYYYIVVLLSYAL  
 HQVTVYSMYVSIMAFNAKVSDDLGGTYMTLLNTVSNLGGNWPSTVALWLDPLTVKECVGASNQNCRT  
 DAVELCKKLGSCVTALDGYVYESIICVFIGFWWFLLGPKFKKLQDEGSSWKCKRNN

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6199\\_c07.zip](https://cdn.origene.com/chromatograms/mk6199_c07.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001190992

ORF Size: 1647 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\\_001190992.1](#), [NP\\_001177921.1](#)

RefSeq Size: 2449 bp

RefSeq ORF: 1650 bp

Locus ID: 9197

UniProt ID: [O00400](#)

**Cytogenetics:** 3q25.31

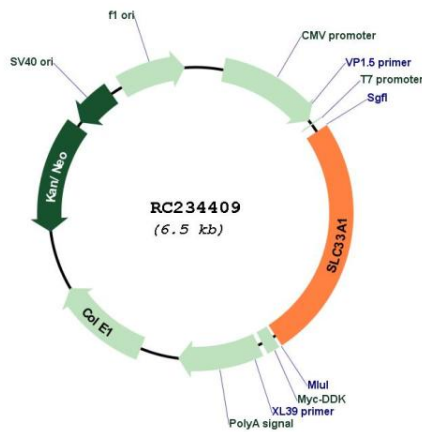
**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

**MW:** 60.9 kDa

**Gene Summary:** The protein encoded by this gene is required for the formation of O-acetylated (Ac) gangliosides. The encoded protein is predicted to contain 6 to 10 transmembrane domains, and a leucine zipper motif in transmembrane domain III. Defects in this gene have been reported to cause spastic paraplegia autosomal dominant type 42 (SPG42) in one Chinese family, but not in similar patients of European descent. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2010]

**Product images:**



Circular map for RC234409