

Product datasheet for **SC117182**

SLC33A1 (NM_004733) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC33A1 (NM_004733) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC33A1
Synonyms:	ACATN; AT-1; AT1; CCHLND; SPG42
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117182 sequence for NM_004733 edited (data generated by NextGen Sequencing)

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ATGTCACCCACCATCTCCACAAGGACAGCAGCCGGCAACGGCGGCCAGGGAATTCAGT
CACTCTCTGGATATGAAGAGCGGTCCCCTGCCGCCAGGCGGTTGGGATGACAGTCATTTG
GACTCAGCGGGCCGGGAAGGGGACAGAGAAGCTCTTCTGGGGGATACCGGCACTGGCGAC
TTCTTAAAAGCCCCACAGAGCTTCCGGGCCGAATAAGCAGCATTTTGTACTACTCTTT
CTTTACGTGCTTCAGGGTATCCCCTGGGCTTGGCGGGAAGCATCCCACACTATTTTGCAA
AGCAAAAATGTTAGCTATACAGACCAAGCTTTCTCAGTTTTGTCTTTTGGCCCTTCAGT
CTCAAATTA CTCTGGGCCCGTTGGTTGATGCGGTCTACGTTAAGAACTTCGGTCGTCGC
AAATCTTGGCTTGTCCCACACAGTATATACTAGGACTCTTCATGATCTATTTATCCACT
CAGGTGGACCGTTTGGCTTGGGAATACCGATGACAGAACACCCGACGTGATTGCTCTCACT
GTGGCGTTCTTTTTGTTTGAATCTTGGCCGCACTCAGGACATTGCCGTCGATGGTTGG
GCGTAACTATGTTATCCAGGAAAATGTGGTTATGCTTCTACTTGCAATTCGGTGGGC
CAAACAGCGGGTACTTTTTGGCAATGTTTTGTTTTGGCCCTGAATCTGCCGACTTT
TGTAACAATATTTGCGGTTTCAGCCTCAACCCAGAGGAATCGTACTCTTTCAGATTTT
CTTTTTTCTGGGAACTGTATTTTAAATAACAACAACATTGGTTGCCCTTCTGAAAAA
GAAAACGAAGTATCAGTAGTAAAAGAAGAAACAAGGGATCACAGATACTTACAAGCTG
CTTTTTGCAATTAAAAATGCCAGCAGTTCTGACATTTTGCCTTCTGATTCTAACTGCA
AAGATTGGTTTTTTCAGCAGCAGATGCTGTAACAGGACTGAAATGGTAGAAGAGGGAGTA
CCCAAAGAACATTTAGCCTTATTGGCAGTTCCAATGGTTCCTTTGCGATAATACTGCCT
CTGATTATCAGCAAATACACTGCAGGTCCCAGCCATTAACACATTTTACAAGCCATG
CCCTACAGATTATTGCTTGGGTTAGAATATGCCCTACTGGTTTGGTGGACTCCTAAAGTA
GAACATCAAGGGGATTCCCTATATATTACTATATCGTAGTCTGCTGAGTTATGCTTTA
CATCAGGTTACAGTGACAGCATGTATGTTTCTATAATGGCTTTCAATGCAAAGTTAGT
GATCCACTTATTGGAGAACATACATGACCCTTTTAAATACCGTGTCCAATCTGGGAGGA
AACTGGCCTTCTACAGTAGCTCTTTGGCTTGTAGATCCCCTCACAGTAAAAGAGTGTGTA
GGAGCATCAAACCAGAATTGTCGAACACCTGATGCTGTTGAGCTTTGCAAAAACTGGGT
GGCTCATGTGTTACAGCCCTGGATGGTTATTATGTGGAGTCCATTATTTGTGTTTTTATT
GGATTTGGTTGGTGGTCTTTCTTGGTCCAAAATTTAAAAAGTTACAGGATGAAGGATCA
TCTTCGTGGAAATGCAAAAGGAACAATTA
    
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Clone variation with respect to NM_004733.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004733 unedited

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NGTTCACATTTTGAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCCAGC
CGTTCGATCCC GCCGAGGTAGGAGCTGGTTTCCATCCTGGCACCACGGCACACACCTCC
AGCCTCGAGCCCCGGCGCTGCTGCCCGGGGTCTCCTTCAGGCTCTTTGACGCCGTTCCAG
GGGCACCTATCCAGGCATCCTCTGGGCCCTAGCCAGAGGACTGGCTCCCGGCTTCAGC
ACTCCGGGCTGCAGTAAGAAGTGCCCTTATCGCTCTGAGCCCTGCCACCATCCCCTGAAC
CACCGAAACCCTGGTCCAGCGGACAGCCTTGGACCTGGGACTGGACGGATCCAAAACGC
TCAGCCTCGGCCCCACAGACGGGCTCTGCATCGTCTCTGATATGTCACCCACCATCT
CCCACAAGGACAGCAGCCGGCAACGGCGGCCAGGGAATTCAGTCACTCTCTGGATATGA
AGAGCGGTCCCCTGCCGCCAGGCGGTTGGGATGACAGTCATTTGGACTCAGCGGGCCGGG
AAGGGGACAGAGAAGCTCTTCTGGGGGATACCGGCACTGGCGACTCTTAAAAGCCCCAC
AGAGCTTCCGGGCCGAATAAGCAGCATTTTGTACTACTCTTTCTTTACGTGCTTCAGG
GTATCCCTGGGCTTGGCGGGAAGCATCCCACACTATTTGCANAGCANAAATGTAGCT
ATACAGACCAAGCTTTCTCAGTTTTGTCTTTTGGCCCTTCAGTCTCAAATTA CTCTGGG
CCCCGTTGGTTGATGNCGTCTACGTTAAGAACTTCGGTCGTGCAATCTTGGCTTGTCCC
GCACAGTATACTANGACTCTTCATGATCTATTTATCCACTCAGGTGGACCGTTTGGCT
NGAATACCGATGACAGACACCCGACGT
    
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Restriction Sites:

NotI-NotI

ACCN:	NM_004733
Insert Size:	2640 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:	<ol style="list-style-type: none">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_004733.2 , NP_004724.1
RefSeq Size:	2659 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>