

Product datasheet for **RG204131**

SLC33A1 (NM_004733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC33A1 (NM_004733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC33A1
Synonyms:	ACATN; AT-1; AT1; CCHLND; SPG42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204131 representing NM_004733
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACCCACCATCTCCACAAGGACAGCAGCCGGCAACGGCGGCCAGGGAATTCAGTCACTCTCTGG
 ATATGAAGAGCGGTCCCTGCCGCCAGGCGGTTGGGATGACAGTCAATTTGGACTCAGCGGCCGGGAAGG
 GGACAGAGAAGCTCTTCTGGGGATACCGGCACTGGCGACTTCTTAAAAGCCCCACAGAGCTTCCGGGCC
 GAACTAAGCAGCATTTTGTCTACTACTCTTTCTTTACGTGCTTCAGGGTATCCCTGGGCTTGGCGGGAA
 GCATCCCCTCATTTTGC AAAGCAAAAATGTTAGCTATACAGACCAAGCTTTCTCAGTTTTGTCTTTT
 GCCCTCAGTCTCAAATTACTCTGGGCCCGTTGGTTGATGCGGTCTACGTTAAGAACTTCGGTCGTCGC
 AAATCTTGGCTTGTCCGACACAGTATACTAGGACTCTTCATGATCTATTTATCCACTCAGGTGGACC
 GTTTGCTTGGGAATACCGATGACAGAACACCCGACGTATTGCTCTCACTGTGGCGTTCTTTTTGTTGA
 ATCTTGGCCGCACTCAGGACATTGCCGTCGATGGTTGGCGTTAACTATGTTATCCAGGAAAATGTG
 GGTATGCTTCTACTTGCAATTCGGTGGCCAAACAGCGGTTACTTTTTGGGCAATGTTTTGTTTTTGG
 CCCTTGAATCTGCCGACTTTTGTAACAAAATTTTGC GGTTTCAGCCTCAACCCAGAGGAATCGTTACTCT
 TTCAGATTTCTTTTTTCTGGGAACTGTATTTTAAATAACAACAACATTGGTTGCCCTTCTGAAAAA
 GAAAACGAAGTATCAGTAGTAAAAGAAGAAACAAGGGATCACAGATACTTACAAGCTGCTTTTTGCAA
 TTATAAAAATGCCAGCAGTTCTGACATTTTGCCTTCTGATTCTAACTGCAAAGATTGGTTTTTTCAGCAGC
 AGATGCTGTAACAGGACTGAAATGGTAGAAGAGGGAGTACCCAAAGAACATTTAGCCTTATTGGCAGTT
 CCAATGGTTCTTTGCAGATAACTGCCTCTGATTATCAGCAAATACACTGCAGGTCCCAGCCATTAA
 ACATTTTTACAAGCCATGCCCTACAGATTATTGCTTGGTTAGAATATGCCCTACTGGTTGGTGGAC
 TCCTAAAGTAGAACATCAAGGGGATCCCTATATTAATACTATATCGTAGTCTGCTGAGTTATGCTTTA
 CATCAGGTTACAGGTACAGCATGTATGTTTCTATAATGGCTTTCAATGCAAAGTTAGTGATCCACTTA
 TTGGAGGAACATACATGACCCTTTTAAATACCGTGTCCAATCTGGGAGGAAAAGTGGCCTTCTACAGTAGC
 TCTTTGGCTTGTAGATCCCCTCACAGTAAAAGAGTGTGTAGGAGCATCAAACCAGAATTGTCGAACACCT
 GATGCTGTTGAGCTTTGCAAAAAGTGGTGGCTCATGTGTTACAGCCCTGGATGGTTATTATGTGGAGT
 CCATTATTTGTGTTTTTATTGGATTTGGTTGGTGGTCTTTCTTGGTCCAAAATTTAAAAAGTTACAGGA
 TGAAGGATCATCTTCGTGAAATGCAAAGGAACAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204131 representing NM_004733
 Red=Cloning site Green=Tags(s)

MSPTISHKSSRQRRPGNFSHSLDMKSGPLPPGGWDDSHLDSAGREGDREALLGDTGTGDFLKAPQSFRA
 ELSSILLLLFLYVLQGIPLGLAGSIPLILQSKNVSYTDQAFFSFVFWPFLKLLWAPLVDAYVYKNGFRR
 KSWLVPTQYILGLFMIYLSQVDRLLGNTDDRTPDVIALTVAFFLFEFLAATQDIAVDGWALTMLSRENV
 GYASTCNSVGTAGYFLGNVFLALESADFCKYLRFPQPRGIVTLDFFLFWGTVFLITTTVALLLK
 ENEVSVVKEETQGITDITYKLLFAIKMPAVLTFCLLILTAKIGFSAADAVTGLKLVVEGVPKEHLALLAV
 PMVPLQIILPLIISKYTAGPQLNTFYKAMPYRLLGLLEYALLVWWTPKVEHQGGFPIYYYIVVLLSYAL
 HQVTVYSMYVSIMAFNAKVS DPLIGGTYMTLLNTVSNLGGNWPSTVALWLDPLTVKECVGASNQCRTP
 DAVELCKKLGSCVTALDGYVVEIICVFIGFWFFLGPKFKKLQDEGSSWKCKRNN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004733

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_004733.4](#)

RefSeq Size: 2659 bp

RefSeq ORF: 1650 bp

Locus ID: 9197

UniProt ID: [O00400](#)

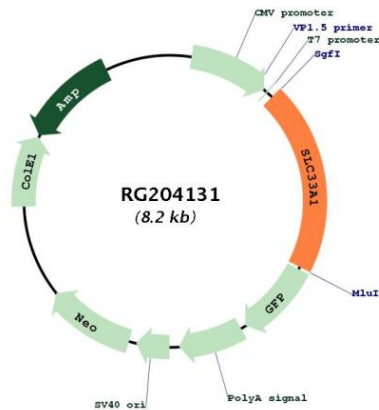
Cytogenetics: 3q25.31

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways

Gene Summary: 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 RG204131