

Product datasheet for **RC203271**

RAG1AP1 (SLC50A1) (NM_018845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAG1AP1 (SLC50A1) (NM_018845) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAG1AP1
Synonyms:	HsSWEET1; RAG1AP1; SCP; slv; SWEET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203271 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGGGCGGCTTTCTGGACTCGCTCATTTACGGAGCATGCGTGGTCTTCACCCCTGGCATGTTCT
CCGCCGGCCTCTCGGACCTCAGGCACATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGCCCTT
TCTACCACGGAAGTCAACAACCTGGGCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATC
GTCGTCAACACAGTGGGTGCTGCGCTTCAGACCCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGA
AGCGTGTGTGCTCCTACAGACTGCAACCCTGCTAGGGTCTTCTCCTGGGTTATGGCTACTTTTGGCT
CCTGGTACCCAACCCTGAGGCCCGGCTTCAGCAGTTGGGCCTTCTCTGCAGTGTCTTCACCATCAGCATG
TACCTCTCACCCTGGCTGACTTGGCTAAGGTGATTCAAATAAATCAACCCAATGTCTCTCCTACCCAC
TCACCATGCTACCCTTCTCACCTCTGCCTCCTGGTGCCTCTATGGGTTTCGACTCAGAGATCCCTATAT
CATGGTGTCCAACCTTCCAGGAATCGTCACCAGCTTTATCCGCTTCTGGCTTTTCTGGAAGTACCCCAAG
GAGCAAGACAGGAACTACTGGCTCCTGCAAACC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203271 protein sequence
Red=Cloning site Green=Tags(s)

```
MEAGGFDSLIIYGACVVFTLGMFSAGLSDLRHRMTRSVDNVQFLPFLTTEVNNLGWLSYGALKGDGILII
VVNTVGAALQTLIYLAYLHYCPKRKRVLLQTATLLGVLLLYGYGFVLLVPNPEARLQQLGLFCSVFTISM
YLSPLADLAKVIQTKSTQCLSYPLTIATLLTTSASWCLYGFRLRDPYIMVSNFPGIIVTSFIRFWLFWKYPQ
EQDRNYWLLQT
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6145_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018845

ORF Size: 663 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_018845.4](#)

RefSeq Size: 1363 bp

RefSeq ORF: 666 bp

Locus ID: 55974

UniProt ID: [Q9BRV3](#)

Cytogenetics: 1q22

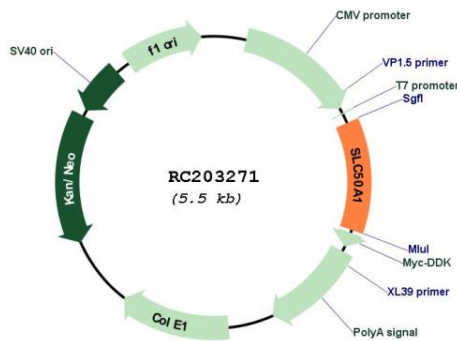
Domains: MtN3_slv

Protein Families: Transmembrane

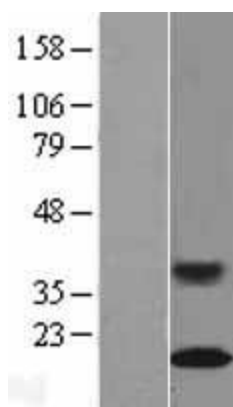
MW: 25 kDa

Gene Summary: Mediates sugar transport across membranes. May stimulate V(D)J recombination by the activation of RAG1.[UniProtKB/Swiss-Prot Function]

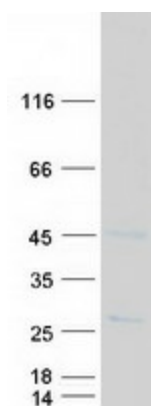
Product images:



Circular map for RC203271



Western blot validation of overexpression lysate (Cat# [LY402706]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203271 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC50A1 protein (Cat# [TP303271]). The protein was produced from HEK293T cells transfected with SLC50A1 cDNA clone (Cat# RC203271) using MegaTran 2.0 (Cat# [TT210002]).