

Product datasheet for **RC236362**

RAG1AP1 (SLC50A1) (NM_001287591) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAG1AP1 (SLC50A1) (NM_001287591) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC50A1
Synonyms: HsSWEET1; RAG1AP1; SCP; slv; SWEET1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236362 representing NM_001287591
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGCCCTTCTCACCACGGAAGTCAACAACCTGG
 GCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATCGTCGTAACACAGTGGTGCTGCGCT
 TCAGACCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGAAGACTGCAACCCTGCTAGGGGTCCTT
 CTCTGGGTTATGGCTACTTTTGGCTCCTGGTACCCAACCCTGAGGCCCGGCTTCAGCAGTTGGGCCTCT
 TCTGCAGTGTCTTACCATCAGCATGTACCTCTCACCCTGGCTGACTTGGCTAAGGTGATTCAAACCTAA
 ATCAACCCAATGTCTCTCTACCCTCACCATTGCTACCTTCTCACCTCTGCCTCCTGGTGCCTCTAT
 GGGTTTCGACTCAGAGATCCCTATATCATGGTGTCCAACCTTCCAGGAATCGTCACCAGCTTTATCCGCT
 TCTGGCTTTTCTGGAAGTACCCCGAGGACAGGAACTACTGGCTCCTGCAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236362 representing NM_001287591
 Red=Cloning site Green=Tags(s)

MRMTRSDNVQFLPFLTTEVNNLWLSYGALKGDGILIVVNTVGAALQTLYLAYLHYCPRKATLLGVL
 LLGYGYFWLLVPNPEARLQQLGLFCSVFTISMYLSPLADLAKVIQTKSTQCLSYPPLTIATLLTSASWCLY
 GFRLRDPYIMVSNFPGIVTSFIRFWLFWKYPQEQRNYWLLQT

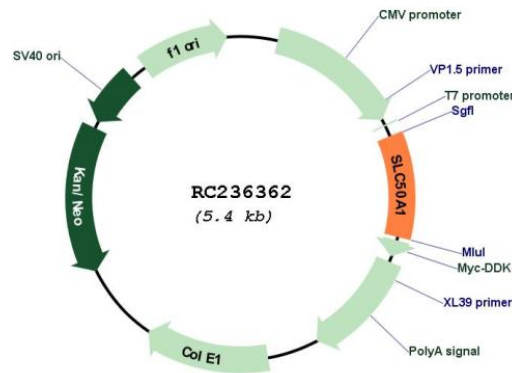
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001287591

ORF Size: 549 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:	<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_001287591.2
RefSeq Size:	1420 bp
RefSeq ORF:	552 bp
Locus ID:	55974
UniProt ID:	Q9BRV3
Cytogenetics:	1q22
Protein Families:	Transmembrane
MW:	21.4 kDa
Gene Summary:	Mediates sugar transport across membranes. May stimulate V(D)J recombination by the activation of RAG1.[UniProtKB/Swiss-Prot Function]