

Product datasheet for **RG225162**

RAG1AP1 (SLC50A1) (NM_001122839) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAG1AP1 (SLC50A1) (NM_001122839) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC50A1
Synonyms: HsSWEET1; RAG1AP1; SCP; slv; SWEET1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225162 representing NM_001122839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCGGGCGGCTTTCTGGACTCGCTCATTTACGGAGCATGCGTGGTCTTCACCCTTGGCATGTTCT
 CCGCCGGCCTCTCGACCTCAGGCACATGCGAATGACCCGGAGTGTGGACAACGTCCAGTTCCTGCCCTT
 TCTCACCAGGAAGTCAACAACCTGGGCTGGCTGAGTTATGGGGCTTTGAAGGGAGACGGGATCCTCATC
 GTCGTCAACACAGTGGGTGCTGCGCTTCAGACCCTGTATATCTTGGCATATCTGCATTACTGCCCTCGGA
 AGGCTAAGGTGATTCAAATAAATCAACCAATGTCTCTCTACCCACTACCATTGCTACCCTTCTCAC
 CTCTGCCTCCTGGTGCCTCTATGGGTTTCGACTCAGAGATCCCTATATCATGGTGTCCAACCTTCCAGGA
 ATCGTACCAGCTTTATCCGCTTCTGGCTTTTCTGGAAGTACCCCGAGGCAAGACAGGAAGTACTGGC
 TCCTGCAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225162 representing NM_001122839
 Red=Cloning site Green=Tags(s)
 MEAGGFDSLIIYACVVFTLGMFSAGLSDLRHRMTRSDNVQFLPFLTTEVNNLWLSYGALKGDGILII
 VVNTVGAALQTLIYILAYLHYCPKAKVIQTKSTQCLSYPLTIATLLTSASWCLYGFRLRDPYIMVSNFPG
 IVTSFIRFWLFWKYPQEQRNYWLLQT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001122839

ORF Size: 501 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:	<u>NM_001122839.2</u>
RefSeq Size:	1201 bp
RefSeq ORF:	504 bp
Locus ID:	55974
UniProt ID:	<u>Q9BRV3</u>
Cytogenetics:	1q22
Protein Families:	Transmembrane
Gene Summary:	Mediates sugar transport across membranes. May stimulate V(D)J recombination by the activation of RAG1.[UniProtKB/Swiss-Prot Function]