

Product datasheet for **RG211997**

SLC22A9 (NM_080866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC22A9
Synonyms:	HOAT4; OAT4; OAT7; ust3; UST3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG211997 representing NM_080866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTTTCAGGACCTCCTGGGTACGCTGGTGACCTGTGGAGATTCCAGATCCTTCAGACTGTTTTTC
 TCTCAATCTTTGCTGTTGCTACATACCTTCATTTTATGCTGGAGAACTTCACTGCATTCATACCTGGCCA
 TCGCTGCTGGGTCCACATCCTGGACAATGACACTGTCTCTGACAATGACACTGGGGCCCTCAGCCAAGAT
 GCACCTTTGAGAATCTCCATCCCACTGGACTCAAACATGAGGCCAGAGAAGTGTCTGCTGCTTTGTTTCATC
 CTCAGTGGCAGCTCCTTCACCTGAATGGGACCTTCCCCAACACAAGTGACGCAGACATGGAGCCCTGTGT
 GGATGGCTGGGTGTATGACAGAATCTCCTTCTCATCCACCATCGTGACTGAGTGGGATCTGGTATGTGAC
 TCTCAATCACTGACTTCAGTGGCTAAATTTGTATTTCATGGCTGGAATGATGGTGGGAGGCATCCTAGGCG
 GTCATTTATCAGACAGGTTTGGGAGAAGGTTCTGTCTCAGATGGTGTACCTCCAGGTTGCCATTGTTGG
 CACCTGTGCAGCCTTGGCTCCACCTTCTCATTACTGCTCACTACGCTTCTTGTCTGGGATTGCTGCA
 ATGAGGCTCATAACAAATACTATTATGTTAATAGCCGAGTGGGCAACACACAGATTCAGGCCATGGGAA
 TTACATTGGGAATGTGCCCTTCTGGTATTGCATTTATGACCTGGCAGGCTGGCTTTTGCCATTGAGAG
 CTGGCATATCTCCAGCTGGTGGTGTCTGTACCATCTTTGTGATCTTTCTGACCTCAAGTTGGCTGCTA
 GAGTCTGCTCGGTGGCTCATTATCAACAATAAACAGAGGAAGGCTTAAGGAACTTAGAAAAGCTGCAC
 ACAGGAGTGAATGAAGAATGCCAGAGACACCCTAACCTGGAGATTTTGAAATCCACCATGAAAAAAGA
 ACTGGAGGCAGCACAAAAAAAACCTTCTCTGTGTGAAATGCTCCACATGCCCAACATATGTAAAAGG
 ATCTCCCTCTGTCTTTACGAGATTTGAAACTTTATGGCCTATTTTGGCCTTAATCTCCATGTCCAGC
 ATCTGGGGAACAATGTTTTCTGTTGCACTCTCTTGGTGCAGTCATCTCTGGCCAATGTGTTGC
 ACCTTGGGCACTGAAATACATGAACCGTCGAGCAAGCCAGATGCTTCTCATGTTCTACTGGCAATCTGC
 CTTCTGGCCATCATATTTGTGCCACAAGAAATGCAGACGCTGCGTGAGGTTTTGGCAACACTGGGCTTAG
 GAGCGTCTGCTCTTGCCAATACCCTTGCTTTTGCCCATGGAATGAAGTAATCCCACCATAATCAGGGC
 AAGAGCTATGGGATCAATGAACCTTTGCTAATATAGCAGGAGCCCTGGCTCCCTCATGATGATCCTA
 AGTGTGTATTCTCCACCCCTGCCCTGGATCATCTATGGAGTCTTCCCCTTCATCTCTGGCTTTGCTTTCC
 TCCTCTTCTGAAACCAGGAACAAGCCTCTGTTTGACACCATCCAGGATGAGAAAAATGAGAGAAAAGA
 CCCCAGAGAACCAAGAGGATCCGAGAGTGAAGTGACGCAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211997 representing NM_080866
 Red=Cloning site Green=Tags(s)

MAFDLLGHAGDLWRFQILQTVFLSIFAVATYLFHMLENFTAFIPGHRWVHILDNDTVSDNDTGALSQD
 ALLRISIPLDSNMREKRRFVHPQWQLLHLNGTFPNTSDADMEPCVDGWVYDRISFSSTIVTEWDLVCD
 SSQLTSVAKFVFMAGMMVGGILGGHLSDRFGRRFVLRWCYLQVAIVGTCAALAPTFLIYCSLRLSGIAA
 MSLITNTIMLIAEWATHRFQAMGITLGMCPSGIAFMTLAGLAFAIRDWHILQLVVSVPYFVIFLTSSWLL
 ESARWLIINNKPPEGKELRKAHRSGMKNARDTLLEILKSTMKKELEAAQKKKPSLCEMLHMPNICKR
 ISLLSFTRFANFMAYFGLNLHVQHLGNNVFLQLTFLGAVILLANCVAPWALKYMNRRASQMLLMFLLAIC
 LLAIIFVPQEMQTLREVLATLGLGASALANTLAFAHGNEVIPTIIRARAMGINATFANIAGALAPLMML
 SVYSPPLPWIIYGVFPFISGFAFLLLPETRNKPLFDTIQDEKNERKDPREPQKEDPRVEVTQF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080866

ORF Size: 1659 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_080866.3](#)

RefSeq Size: 2327 bp

RefSeq ORF: 1662 bp

Locus ID: 114571

UniProt ID: [Q8IVM8](#)

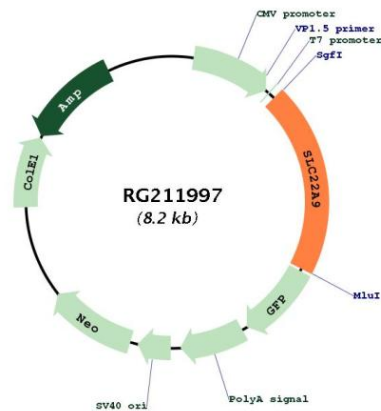
Cytogenetics: 11q12.3

Domains: sugar_tr

Protein Families: Transmembrane

Gene Summary: Sodium-independent organic anion transporter which exhibits high specificity for sulfated conjugates of xenobiotics and steroid hormones. It is also specifically activated by 3 to 5 carbons-containing short-chain fatty acids/SCFAs, including propionate, butyrate and valerate. May operate the exchange of sulfated organic components against short-chain fatty acids/SCFAs at the sinusoidal membrane of hepatocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211997