

Product datasheet for **RG222116**

SLC22A13 (NM_004256) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A13 (NM_004256) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC22A13
Synonyms:	OAT10; OCTL1; OCTL3; ORCTL-3; ORCTL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222116 representing NM_004256
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGTTTGTCCAGGTCCTGGCTGAAATAGGTGACTTTGGTCGCTTCCAGATACAGCTATTGATCC
 TGCTGTGTGTTCTCAACTTCCTGTCTCCCTTCTACTTTTTTGCCATGTCTTCATGGTCCTAGATGAGCC
 CCACCACTGTGCAGTGGCTTGGGTGAAGAACCACACTTTCAACCTGAGTGCTGCTGAACAGCTGGTACTG
 AGCGTGCCCTGGACACTGCAGGTACCCAGAGCCCTGCCTCATGTTCCGGCCACCCCCGCCAATGCCA
 GCCTGCAGGACATCCTCAGCCACCGCTTCAATGAGACGCAGCCTTGATATGGGCTGGGAATATCTGA
 GAACAGGCTCCCATCCCTGAAGAATGAGTTCAACCTGGTTTGATCGGAAGCACCTGAAGGACACCACA
 CAGTCAGTGTTTATGGGTGGGCTCCTTGTGGCACCTCATGTTGGGCCCTCTGCGACCGGATTGGCC
 GCAAGGCCACAATCCTGGCGCAGCTGCTCCTCTTACCCTCATCGGCCTGGCCACAGCTTTTGTGCCAG
 CTTTGAGCTCTACATGGCCCTGCGCTTTGCTGTGGCTACTGCCGTCGCTGGACTTAGCTTACGCAATGTC
 ACCCTACTGACAGAATGGGTGGGGCCCTCATGGAGGACGCAGGCCGTGGTCTGGCCAGTGCAACTTCT
 CCCTCGGGCAGATGGTGCTTGCAGGACTCGCCTACGGTTTCCGCAACTGGAGGCTCCTTCAGATCACCGG
 CACTGCGCCTGGCTTACTGCTCTTCTTCTACTTCTGGGCTCTGCCAGAATCTGCACGTTGGCTCCTGACC
 CGTGGGAGGATGGACGAGGCGATACAATGATCCAGAAGCGGCCCTCGGTCAATAGGCGGAACTCTCCC
 CGGAGCTCATGAACAGCTGGTCCCAGAGAAGACAGGCCCTCAGGGAATGCCCTGGATCTGTTACAGACA
 CCCCCAGCTCCGAAGGTGACCTGATTATCTTCTGTGTCTGGTTTGTGGACAGTCTGGGGTACTACGGC
 CTGAGCCTCCAAGTGGGGGACTTCGGCCTGGACGTCTATCTGACGCAGCTCATCTTTGGAGCTGTTGAGG
 TGCTGCCCGCTGTTCCAGCATCTTCATGATGCAGAGGTTTGGCCGAAGTGAGCCAGTTGGGGACCTT
 GGTCTTGGGTGGCCTGATGTGTATCATCATCTTTCATCCAGCAGATCTGCCCGTGGTGGTCACCATG
 CTGGCTGTGGTGGGAAGATGGCCACAGCTGCTGCCTTTACCATCTCCTATGTGTACTCTGCCGAGCTTT
 TCCCCACCATCTCCGGCAGACAGGCATGGGGCTGGTGGGCATCTTCTACGGATCGGGGCATCTCAC
 ACCACTTGTGATCCTGCTGGGAGAGTACCACGCTGCCCTCCCCATGCTCATCTACGGCAGCTCCCCATC
 GTGGCCGGCCTGCTGTGACCCCTGCTGCCAGAGACCCATGGCCAGGGCCTGAAAGACACCTCCAGGACC
 TGGAGCTGGGGCCTACCCACGGTCCCCAAATCAGTGCCTCAGAGAAGGAAACAGAGGCCAAGGGAAG
 AACTTCCAGCCCGGAGTGGCCTTTGTGAGCAGCACATACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG222116 representing NM_004256
 Red=Cloning site Green=Tags(s)

MAQFVQVLAIEIGDFGRFQIQLLILLCVLNFLSPFYFFAHVFMVLDEPHHCANAWVNHTFNLAAEQVLV
 SVPLDTAGHPEPCLMFRPPANASLQDILSHRFNETQPCDMGWEYPENRLPSLKNEFNLVCDRHLKDDTT
 QSVFMGGLLVGTLMFGLCDRIGRKATILAQLLLFTLIGLATAFVPSFELYMALRFVAVATAVAGLSFSNV
 TLLTEWVGPSWRTQAVVLAQCNSLQGMVLAGLAYGFRNWRLQITGTAPGLLLFFYFWALPESARWLLT
 RGRMDEAIQLIQKAASVNRRLSPELMNQLVPEKTGPSGNALDLFRHPQLRKVTLIIFCVWFVDSLGGY
 LSLQVGFGLDVYLTQLIFGAVEVPARCSSIFMMQRFGRKWSQLGTLVLGGLMCIIIFIPADLPVVVTM
 LAVVGKMATAAFTISYVYSAEFPTILRQTGMGLVGIFSRIGGILTPLVILLGEYHAALPMLIYGSLPI
 VAGLLCTLLPETHGQGLKDTLQDLELGPHRSPKSPSEKETEAKGRTSSPGVAFVSSTYF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_004256

ORF Size: 1653 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_004256.1](#), [NP_004247.1](#)

RefSeq Size: 2527 bp

RefSeq ORF: 1656 bp

Locus ID: 9390

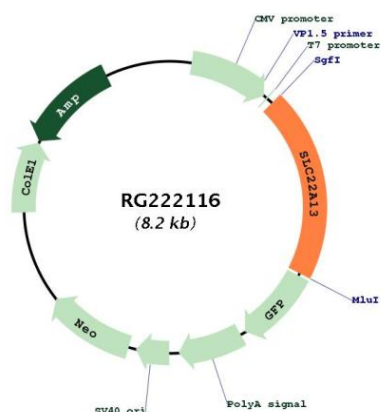
UniProt ID: [Q9Y226](#)

Cytogenetics: 3p22.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the organic-cation transporter family. It is located in a gene cluster with another member of the family, organic cation transporter like 4. The encoded protein is a transmembrane protein involved in the transport of small molecules. This protein can function to mediate urate uptake and is a high affinity nicotinate exchanger in the kidneys and the intestine. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RG222116