

Product datasheet for **RG234125**

SLC22A12 (NM_001276327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A12 (NM_001276327) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC22A12
Synonyms:	OAT4L; RST; URAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234125 representing NM_001276327
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATTCTGAACCTCTGGACCTCGTGGTGGCTGGCAGGTTCCAGGTTCTCCAGACGATGGCTC
 TGATGGTCTCCATCATGTGGCTGTGACCCAGAGCATGCTGGAGAACTTCTCGGCCGCCGTGCCAGCCA
 CCGCTGCTGGGCACCCCTCCTGGACAACAGCACGGCTCAGGCCAGCATCCTAGGGAGCTTGAATCCTGAG
 GCCCTCTGGCTATTTCCATCCCGCCGGGCCCCAACAGAGGCCACCAGTGGCCCGCTTCCGCCAGC
 CACAGTGGCAGCTCTGGACCCCAATGCCACGGCCACCAGCTGGAGCGAGGCCGACAGGAGCCGTGTGT
 GGATGGCTGGGTCTATGACCGCAGCATCTTACCTCCACAATCGTGGCCAAGTGGAACTCGTGTGTGAC
 TCTCATGCTCTGAAGCCATGGCCAGTCCATCTACCTGGCTGGGATTCTGGTGGAGCTGCTGCGTGCC
 GCCCTGCCTCAGACAGGTGGCTGGCAGAGTCGGCAGATGGCTCCTCACCACAGGCAGGCTGGATTGGGG
 CCTGCAGGAGCTGTGGAGGGTGGCTGCCATCAACGGAAAGGGGGCAGTGCAGGACACCCTGACCCCTGAG
 GTCTTGCTTTAGCCATGCGGGAGGAGCTGAGCATGGGCCAGCCTCCTGCCAGCCTGGGCACCCTGCTCC
 GCATGCCCGGACTGCGCTTCCGGACCTGTATCTCCACGTTGTGCTGGTTCGCTTGGCTTACCTTCTT
 CGGCCTGGCCCTGGACCTGCAGGCCCTGGGCAGCAACATCTTCTGCTCCAAATGTTCAATTGGTGTGCTG
 GACATCCCAGCCAAGATGGGCGCCCTGCTGCTGCTGAGCCACCTGGGCCGCCGCCCCACGCTGGCCGCAT
 CCCTGTTGCTGGCAGGGCTCTGCATTCTGGCCAACACGCTGGTGGCCACGAAATGGGGGCTCTGCGCTC
 AGCCTTGGCCGTGCTGGGGCTGGCGGGGTGGGGGCTGCCTTACCTGCATCACCATCTACAGCAGCGAG
 CTCTTCCCACCTGTGCTCAGGATGACGGCAGTGGGCTTGGCCAGATGGCAGCCCGTGGAGGAGCCATCC
 TGGGGCCTCTGGTCCGGCTGCTGGGTGCCATGGCCCTGGCTGCCCTTGGTGTATGGGACGGTGGC
 AGTGCTGAGTGGCTGGCCGCACTGCTTCTGCCGAGACCCAGAGCTTGGCGCTGCCCGACACCATCCAA
 GATGTGAGAACCAGGCAGTAAAGAAGGAACACATGGCAGCTGGGAACTCTGCTCTAAAATCCACAC
 AGTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234125 representing NM_001276327
 Red=Cloning site Green=Tags(s)

MAFSELLDLVGGLGRFQVLQTMALMVSIMWLCTQSMLNENFAAVPSHRCWAPLLDNSTAQASILGSLSP
 ALLAISIPPGPNQRPHQCRRFRQPQWQLDPNATATSWSEADTEPCVDGWVYDRSIFTSTIVAKWNLVCD
 SHALKPMAQSIYLAGILVGAACGPASDRWLAESARWLLTTGRLDWGLQELWRVAAINGKGAQVDTLTP
 VLLSAMREELSMGQPPASLGTLLRMPGLRFRTCI STLWCFAFGFTFFGLALDLQALGSNIFLLQMFIGV
 DIPAKMGALLLLSHLGRPTLAASLLLAGLCILANTLVPHEMGALRSALAVLGLGGVGAFTCITIYSSE
 LFPTVLRMTAVGLGQMAARGGAILGPLVRLLVHGPWPLLLVYGTVPVLSGLAALLLPETQSLPLPDTIQ
 DVQNQAVKKATHGTLGNSVLKSTQF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001276327

ORF Size: 1335 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.

RefSeq: [NM_001276327.1](#), [NP_001263256.1](#)

RefSeq Size: 2902 bp

RefSeq ORF: 1338 bp

Locus ID: 116085

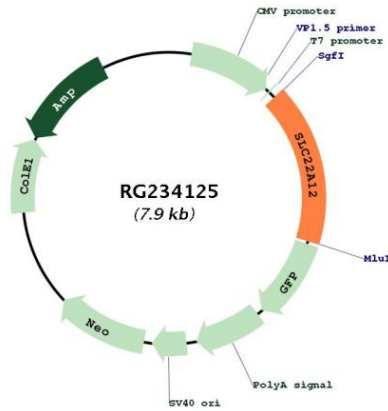
UniProt ID: [Q96S37](#)

Cytogenetics: 11q13.1

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a member of the organic anion transporter (OAT) family, and it acts as a urate transporter to regulate urate levels in blood. This protein is an integral membrane protein primarily found in epithelial cells of the proximal tubule of the kidney. An elevated level of serum urate, hyperuricemia, is associated with increased incidences of gout, and mutations in this gene cause renal hypouricemia type 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG234125