

## Product datasheet for **RC234125**

### **SLC22A12 (NM\_001276327) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC22A12 (NM_001276327) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC22A12
Synonyms:	OAT4L; RST; URAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234125 representing NM\_001276327  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCATTCTGAACCTCTGGACCTCGTGGTGGCTGGCAGGTTCCAGGTTCTCCAGACGATGGCTC  
 TGATGGTCTCCATCATGTGGCTGTGATCCAGAGCATGCTGGAGAACTTCTCGGCCGCCGTGCCAGCCA  
 CCGCTGCTGGGCACCCCTCTGGACAACAGCACGGCTCAGGCCAGCATCTAGGGAGCTTGAATCCTGAG  
 GCCCTCTGGCTATTTCCATCCCGCCGGGCCCAACCAGAGGCCACCAGTGGCCGCTTCCGCCAGC  
 CACAGTGGCAGCTCTGGACCCCAATGCCACGGCCACCAGCTGGAGCGAGGCCGACAGGAGCCGTGTGT  
 GGATGGCTGGGTCTATGACCGCAGCATCTCACCTCCACAATCGTGGCCAAGTGGAACTCGTGTGTGAC  
 TCTCATGCTCTGAAGCCATGGCCAGTCCATCTACCTGGCTGGGATTCTGGTGGGAGCTGCTGCGTGCG  
 GCCCTGCCTCAGACAGGTGGCTGGCAGAGTCGGCAGATGGCTCCTCACCACAGGCAGGCTGGATTGGGG  
 CCTGCAGGAGCTGTGGAGGGTGGCTGCCATCAACGGAAAGGGGGCAGTGCAGGACACCCTGACCCTGAG  
 GTCTTGCTTTAGCCATGCGGGAGGAGCTGAGCATGGGCCAGCCTCCTGCCAGCCTGGGCACCCTGCTCC  
 GCATGCCCGGACTGCGCTTCCGGACCTGTATCTCCACGTTGTGCTGGTTCGCTTGGCTTACCTTCTT  
 CGGCCTGGCCCTGGACCTGCAGGCCCTGGGCAGCAACATCTTCTGCTCCAAATGTTCAATTGGTGTGCTG  
 GACATCCCAGCCAAGATGGGCGCCCTGCTGCTGCTGAGCCACCTGGGCCGCCGCCACCGTGGCCGCAT  
 CCCTGTTGCTGGCAGGGCTCTGCATTCTGGCCAACACGCTGGTGGCCACGAAATGGGGGCTCTGCGCTC  
 AGCCTTGGCCGTGCTGGGGCTGGCGGGGTGGGGGCTGCCTTACCTGCATCACCATCTACAGCAGCGAG  
 CTCTTCCCACCTGTGCTCAGGATGACGGCAGTGGGCTTGGCCAGATGGCAGCCCGTGGAGGAGCCATCC  
 TGGGGCCTCTGGTCCGGCTGCTGGGTGTCCATGGCCCTGGCTGCCCTTGGTGTATGGGACGGTGCC  
 AGTGCTGAGTGGCTGGCCGCACTGCTTCTGCCGAGACCCAGAGCTTGGCGCTGCCGACACCATCCAA  
 GATGTGAGAACCAGGCAGTAAAGAAGGAACACATGGCAGCTGGGAACTCTGCTCTAAAATCCACAC  
 AGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234125 representing NM\_001276327  
 Red=Cloning site Green=Tags(s)

MAFSELLDLVGGGLGRFQVLQTMALMVSIMWLCTQSMLNFSAAVPSHRCWAPLLDNSTAQASILGSLSP  
 ALLAISIPPGPNQRPHQRRFRQPWQLLDPNATATSWSEADTEPCVDGWVYDRSIFTSTIVAKWNLVCD  
 SHALKPMAQSIYLAGILVAAAACGPASDRWLAESARWLLTTGRLDWGLQELWRVAAINGKGAHQDTLTP  
 VLLSAMREELSMGQPPASLGTLLRMPGLRFRTCTISTLCWFAGFTFFGLALDLQALGSNIFLLQMFIVGV  
 DIPAKMGALLLLSHLGRRPTLAASLLLAGLCILANTLVPHEMGALRSALAVLGLGGVGAFTCTIITYSSE  
 LFPTVLRMTAVGLGQMAARGGAILGPLVRLLVGHGPWPLLLVYGTVPVLSGLAALLPETQSLPLPDTIQ  
 DVQNQAVKKATHGTLGNSVLKSTQF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**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](#)

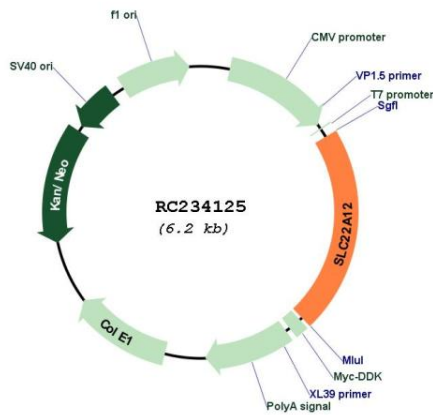
**Cytogenetics:** 11q13.1

**Protein Families:** Transmembrane

**MW:** 48.1 kDa

**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 RC234125