

Product datasheet for **MR208774**

Slc22a12 (NM_009203) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a12 (NM_009203) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a12
Synonyms:	AI987855; OAT4L; Rst; Slc22a2; URAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208774 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTTCCTGAACCTCTGGACCGAGTGGGGGGCTGGGCAGTTCCAGCTCTCCAGACGGTGGCTC
 TGGTGACCCCATTTTGTGGGTACCACCCAGAACATGCTGGAGAACTTCTCAGCCGAGTTCCCCACCA
 CCGCTGTTGGGTGCCTCTCCTGGACAACAGCACCTCCCAGGCGAGTATCCCTGGGACCTTGGACCCGAT
 GTTCTTCTGGCCGTCTCCATCCCACCTGGTCTGACCAGCAACCCACCAGTGCCTCCGCTTCCGACAAC
 CTCAATGGCAGCTTACAGAGTCCAACGCCACGGCCACCAACTGGAGTGACGCTGCCACTGAGCCATGCGA
 GGATGGCTGGGTTTACGACCATAGCACCTTCAGGTCCACAATCGTGACCACGTGGACCTGGTATGTAAC
 TCCCAGGCCCTGAGACCCATGGCCAGTCCATCTTCTGGCTGGAATCCTGGTAGGAGCCGAGTGTGTG
 GCCATGCCTCAGATAGGTTTGGGCGCAGAAGGGTGTGACCTGGAGCTATCTTCTGGTGTCCGTGTCCGG
 CACAGCAGCTGCCTTCATGCCACCTTCCCCTCTACTGCCTGTTTCGTTTCTGCTGGCCTCTGCAGTG
 GCAGGTGTGATGATGAACACAGCCAGTCTTGTATGGAGTGGACATCAGCCCAGGGTAGCCCTTTGGTGA
 TGACCTTGAACGCCTTGGGCTTCAGCTTGGGCGAGTCTGACAGTTCTGTGGCCTATGGTGTGCGCAG
 CTGGAGGATGCTACAGCTGGCTGTCTTGCCTTCTTCTTCTTTGTTTATTCATGGTGGCTACCA
 GAATCGGCACGCTGGCTCATCACGGTGGCAAGCTGGACCAGGGCCTGCAGGAACACAGAGGGTAGCTG
 CTGTCAACAGGAGGAAGGCAGAGGGAGACAGTGGACCATGGAGGTGCTGCGGTGAGTATGGAGGAGGA
 ACCAAGCAGGGACAAAGTGGTCCAGTCTGGGCACTCTACTCCACACCTGGGCTGCGCCACCGAACC
 ATCATCTCCATGCTGTGCTGGTTTGCCTTGGCTTCCACTTCTACGGCCTGGCCCTGACCTGCAAGCCC
 TAGGAAGCAATATCTTCTGCTCCAGGCACTCATCGGGATTGTGGACTTCCCGGTGAAGACAGGCACCT
 GCTGCTGATCAGCCGCTTGGGCCGGCGCTTCTGCCAGGTGAGTCTCCTGGTGTCCCGGACTCTGCATC
 CTGTCCAACATACTGGTGCCCATGGGATGGGGTCTTCTGCTCGGCCCTGGCTGTGCTGGGGCTGGGCT
 GCCTGGGGGGCGCCTTACCTGCATCACCATCTTCTCCAGTGAGCTTCCCCACTGTGATCAGGATGAC
 TGCAGTGGGCTCTGCCAGTGGCAGCCGAGGGGAGCCATGCTAGGGCCTTGGTACGGCTGTGGGT
 GTCTATGGCTCCTGGATGCCCTGCTGGTGTATGGAGTGGTCCAGTGTTAAGTGGCCTAGCTGCACTGC
 TGCTGCCTGAGACCAAGAACTTACCCTGCTGACCCATCCAAGACATCCAGAAACAGTCACTGAGAA
 GGTAACACATGACACACCAGATGGTCCATCCTGATGTCTACCCGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208774 protein sequence
 Red=Cloning site Green=Tags(s)

MAFPELLDRVGLGRFQLFQTVALVTPILWVTTQNMLENFSAAVPHHRCWVPLLDNSTSQASIPDGLGPD
 VLLAVSIPPPDPDQPHQCLRFRQPQWQLTESNATATNWSDAATEPCEDGWYDHSFRSTIVTTWDLVCN
 SQALRPMAQSIFLAGILVGAAVCGHASDRFRRRVLTWSYLLVSVSGTAAAFMPTFPLYCLFRLLASAV
 AGVMMNTASLLMEWTSAQGSPLVMTLNLGFSFGQVLTGSVAYGVRWRMLQLAVSAPFFLFFVYSWWLP
 ESARWLITVGLDQGLQELQRVAAVNRRKAEGDTLTMEVLRSAMEEPPSRDKAGASLGTLLHTPGLRHRT
 IISMLCWFAGFTFYGLALDLQALGSNIFLLQALIGIVDFPVKTGSLLLISRLGRRFCQVSFLVPLGLCI
 LSNILVPHGMVLRSAVLGLGCLGGAFTCITIFSSELFPTVIRMTAVGLCQVAARGGAMLGPLVRLLG
 VYGSWMPLL VYGVPVLSGLAALLLPETKNLPLPDTIQDIQKQSVKKVTHDTPDGSILMSTRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009203

ORF Size: 1662 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_009203.2](#), [NP_033229.2](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1662 bp

Locus ID: 20521

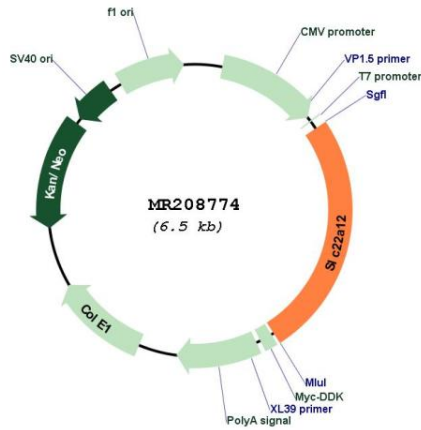
UniProt ID: [Q8CFZ5](#)

Cytogenetics: 19 A

MW: 60.2 kDa

Gene Summary: Required for efficient urate re-absorption in the kidney. Regulates blood urate levels. Mediates saturable urate uptake by facilitating the exchange of urate against organic anions or chloride ions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208774