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Product datasheet for RC223318

SLC47A2 (NM_001099646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SLC47A2
Synonyms:	MATE2; MATE2-B; MATE2-K; MATE2K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC223318 representing NM_001099646.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACAGCCTCCAGGACACAGTGGCCCTGGACCATGGGGGCTGCTGCCCTGCCCTCAGCAGGCTGGTT
CCCAGAGGCTTTGGGACTGAGATGTGGACTCTCTTTGCCCTTTCTGGACCCCTGTTCCTGTTCCAGGTG
CTGACTTTTATGATCTACATCGTGAGCACTGTGTTCTGCGGGCACCTGGGCAAGGTGGAGCTGGCATCG
GTGACCCTCGCGGTGGCCTTTGTCAATGTCTGCGGAGTTTCTGTAGGAGTTGGTTTGTCTTCGGCATGT
GACACCTTGATGTCTCAGAGCTTCGGCAGCCCCAACAAGAAGCACGTGGGCGTGATCCTGCAGCGGGGA
GCGCTGGTCCTGCTCCTCTGCTGCCTCCCTTGCTGGGCGCTCTTCCTCAACACCCAGCACATCCTGCTG
CTCTTCCGGCAGGACCCGGACGTGTCCAGGTTGACCCAGGACTATGTAATGATTTTCATTCCAGGACTT
CCGGTGATTTTTCTTTACAATCTGCTGGCAAAATATTTGCAAAATCAGAAGATCACCTGGCCCCAAGTC
CTCAGTGGTGTGGTGGGCAACTGTGTCAACGGTGTGGCCAACTATGCCCTGGTTTCTGTGCTGAACCTG
GGGGTCAGGGGCTCCGCCTATGCCAACATCATCTCCCAGTTTGCACAGACCGTCTTCCTCCTTCTCTAC
ATTGTGCTGAAGAAGCTGCACCTGGAGACGTGGGCAGGTTGGTCCAGCCAGTGCCTGCAGGACTGGGGC
CCCTTCTTCTCCCTGGCTGTCCCCAGCATGCTCATGATCTGTGTTGAGTGGTGGGCCTATGAGATCGGG
AGCTTCCTCATGGGGCTGCTCAGTGTGGTGGATCTCTCTGCCCAGGCTGTCATCTATGAGGTGGCCACT
GTGACCTACATGATTCCCTTGGGGCTCAGCATCGGGGTCTGTGTCCGAGTGGGGATGGCTCTGGGGGCT
GCGGATACTGTGCAGGCCAAGCGCTCGGCCGTCTCGGGCGTGCTCAGCATAGTTGGCATTTCCCTGGTC
CTGGGCACCCTGATAAGCATCCTGAAAAATCAGCTGGGGCATATTTTTACCAATGATGAAGATGTCATT
GCCCTGGTGAGCCAGGTCTTGCCGGTTTATAGTGTCTTTCACGTGTTTGAGGCCATCTGTTGTGTCTAT
GGCGGAGTTCTGAGAGGAACTGGGAAGCAGGCCTTTGGTGCCGCTGTGAATGCCATCACATATTACATC
ATCGGCCTACCACTGGGCATCCTTCTGACCTTTGTGGTCAGAATGAGAATCATGGGCCTCTGGCTGGGC
ATGCTGGCCTGTGTCTTCCTGGCAACTGCTGCCTTTGTTGCTTATACTGCCCGGCTGGACTGGAAGCTT
GCTGCAGAGGAGGCTAAGAAACATTCAGGCCGGCAGCAGCAGCAGAGAGCAGAGAGCACTGCAACCAGA
CCTGGGCCTGAGAAAGCAGTCCTATCTTCAGTGGCTACAGGCAGTTCCCCTGGCATTACCTTGACAACG
TATTCAAGGTCTGAGTGCCACGTGGACTTCTTCAGGACTCCAGAGGAGGCCCACGCCCTTTCAGCTCCT
ACCAGCAGACTATCAGTGAAACAGCTGGTCATCCGCCGTGGGGCTGCTCTGGGGGCGGCGTCAGCCACA
CTGATGGTGGGGCTCACGGTCAGGATCCTAGCCACCAGGCAC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:

>Peptide sequence encoded by RC223318
Blue=ORF Red=Cloning site Green=Tag(s)

MDSLQDTVALDHGGCCPALSRLVPRGFGTEMWTLFALSGPLFLFQVLTFMIYIVSTVFCGHLGKVELAS
VTLAVAFVNVCGVSVGVGLSSACDTLMSQSFGSPNKKHVGVILQRGALVLLLCCLPCWALFLNTQHILL
LFRQDPDVSRLTQDYVMIFIPGLPVIFLYNLLAKYLQNQKITWPQVLSGVVGNCVNGVANYALVSVLNL
GVRGSAYANIISQFAQTVFLLLYIVLKKLHLETWAGWSSQCLQDWGPFFSLAVPSMLMICVEWWAYEIG
SFLMGLLSVVDLSAQAVIYEVATVTYMIPLGLSIGVCVRVGMALGAADTVQAKRSAVSGVLSIVGISLV
LGTLISILKNQLGHIFTNDEDVIALVSQVLPVYSVFHVFEAICCVYGGVLRGTGKQAFGAAVNAITYYI
IGLPLGILLTFVVRMRIMGLWLGMLACVFLATAAFVAYTARLDWKLAAEEAKKHSGRQQQQRAESTATR
PGPEKAVLSSVATGSSPGITLTTYSRSECHVDFFRTPEEAHALSAPTSRLSVKQLVIRRGAALGAASAT
LMVGLTVRILATRH
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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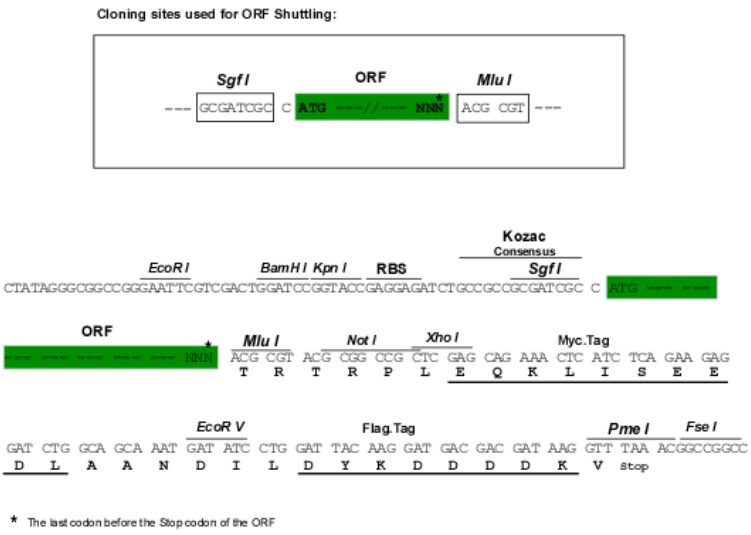
Cloning Scheme:



ACCN: NM_001099646

ORF Size: 1698 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 Size: 2247 bp

RefSeq ORF: 1701 bp

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Locus ID: 146802

UniProt ID: Q86VL8

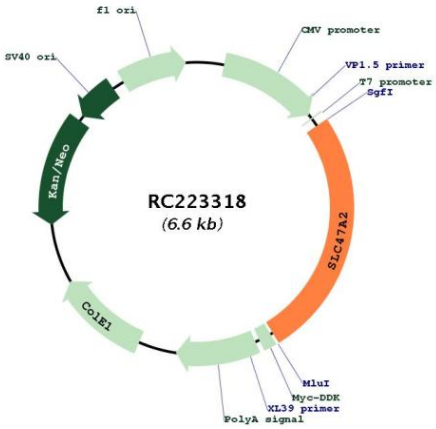
Cytogenetics: 17p11.2

Protein Families: Transmembrane

MW: 61 kDa

Gene Summary: This gene encodes a protein belonging to a family of transporters involved in excretion of toxic electrolytes, both endogenous and exogenous, through urine and bile. This transporter family shares homology with the bacterial MATE (multidrug and toxin extrusion) protein family responsible for drug resistance. This gene is one of two members of the MATE transporter family located near each other on chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223318

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