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Product datasheet for RC223019

SLC22A14 (NM_004803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A14 (NM_004803) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC22A14
Synonyms:	OCTL2; OCTL4; ORCTL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223019 representing NM_004803
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCCC

ATGGCAGGAGAGGAGAACTTCAAGGAAGAGCTCAGATCCCAGGATGCTTCCAGGAACTTGAACCAGCATG
AGGTAGCAGGACATCCACATTCCTGGTCTCTGGAGATGCTGTTACGCAGATTGAGGGCTGTCCACACCAA
GCAGGATGACAAGTTTGCCAACCTCCTGGATGCGGTGGGGGAGTTTGGCACATTCCAGCAGAGGCTAGTA
GCCCTCACCTTTATCCCCAGCATCATGTCGGCCTTCTTCATGTTTGCTGACCACTTCGTGTTCACAGCCC
AGAAGCCCTATTGCAATACCAGCTGGATCCTGGCAGTGGGCCCCCACCTGTCCAAAGCTGAGCAGCTGAA
TCTGACCATACCCCAAGCACCCAATGGCAGTTTCCTGACATGCTTCATGTACCTTCCTGTGCCTTGGAAT
CTGGATTCTACCATCCAGTTTGGCCTCAATGACACAGACACATGCCAAGATGGGTGGATCTATCCTGACG
CTAAGAAGCGATCGCTGATCAATGAGTTTGACTTGGTATGTGGCATGGAGACGAAGAAGGACACTGCACA
GATCATGTTCATGGCAGGGCTCCCGATAGGCTCTCTCATCTTCAGGCTCATAACTGACAAGATGGGCCGC
TACCCTGCCATCCTGCTGTCACTGCTGGGGCTGATCATCTTCGGCTTTGGGACAGCCTTCATGAACAGCT
TTCACCTGTATTTGTTCTTTCGCTTTGGCATCTCGCAGTCAGTGGTGGGCTACGCCATCAGCAGCATTTC
TTTGGCCACTGAGTGGTTAGTGGGTGAGCACCGGGCCCACGCCATTATCCTGGGACACTGCTTTTTCGCT
GTGTGGGCCATGTTGCTGACAGGGATCGCCTACGGTCTTCCCCACTGGCAGCTGCTGTTTCTGGTGGGTG
GGATACTTGTGATCCCCTTCATCTCCTATATCTGGATTCTCCCGGAGTCCCCGCGGTGGCTGATGATGAA
AGGGAAGGTGAAGGAGGCCAAGCAGGTGCTGTGCTACGCCGCAAGTGTGAACAAGAAGACCATTCCTTCA
AATCTGCTGGACGAGCTGCAGCTGCCCAGAAAGAAGGTGACTCGGGCCTCTGTCCTGGACTTCTGTAAGA
ATAGGCAGCTCTGCAAGGTGACCTTGGTGATGAGCTGTGTGTGGTTTACCGTCAGTTACACCTATTTTAC
GTTGAGCCTGAGAATGAGAGAGCTGGGCGTGAGCGTCCACTTCAGACACGTGGTCCCCAGCATCATGGAG
GTGCCTGCCCGGCTGTGCTGCATCTTTCTCCTCCAGCAGATTGGGAGGAAGTGGAGCCTGGCTGTGACTC
TCCTCCAAGCCATCATCTGGTGCTTGCTTCTCCTTTTCCTCCCTGAAGGGGAGGATGGCCTCAGACTCAA
GTGGCCACGTTGTCCGGCCACAGAGCTGAAATCCATGACGATCTTGGTGCTCATGCTCAGAGAGTTCAGC
CTGGCCGCCACTGTCACTGTGTTCTTCCTCTACACCGCTGAGCTCCTCCCCACTGTGCTCAGGGCGACAG
GTCTGGGGCTGGTGTCTCTGGCCTCGGTGGCTGGAGCCATCTTGTCCCTGACAATCATCAGCCAGACCCC
CTCCCTCCTGCCCATCTTTCTCTGCTGCGTCTTAGCCATCGTGGCCTTTTCCCTCTCCTCCCTGCTGCCG
GAAACGCGAGATCAGCCCCTCTCCGAGAGCCTGAACCACTCCTCACAGATAAGGAATAAGGTCAAGGACA
TGAAGACTAAGGAAACATCATCTGATGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223019 representing NM_004803
Red=Cloning site Green=Tags(s)

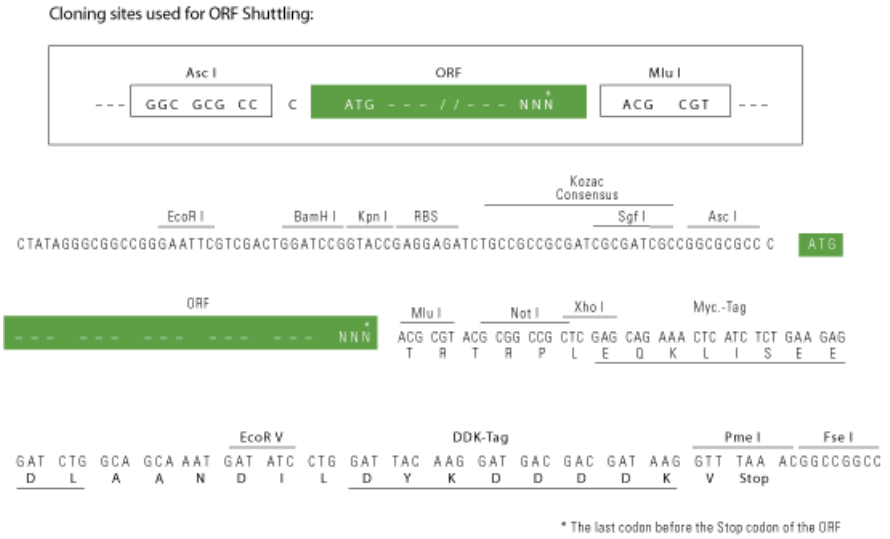
MAGEENFKEELRSQDASRNLNQHEVAGHPHSWSLEMLLRRLRAVHTKQDDKFANLLDAVGEFGTFQQRLV
ALTFIPSIMSAFFMFADHFVFTAQKPYCNTSWILAVGPHLSKAEQLNLTIPQAPNGSFLTCFMYLPVPWN
LDSTIQFGLNDTDTCQDGWIYPDAKKRSLINEFDLVCGMETKKDTAQIMFMAGLPIGSLIFRLITDKMGR
YPAILLSLLGLIIFGFGTAFMNSFHLYLFFRFGISQSVVGYAISSISLATEWLVGEHRAHAIILGHCFFA
VWAMLLTGIAYGLPHWQLLFLVGGILVIPFISYIWILPESPRWLMMKGKVKEAKQVLCYAASVNKKTIPS
NLLDELQLPRKKVTRASVLDFCKNRQLCKVTLVMSCVWFTVSYTYFTLSLRMRELGVSVHFRHVVPSIME
VPARLCCIFLLQQIGRKWSLAVTLLQAIIWCLLLLFLPEGEDGLRLKWPRCPATELKSMTILVLMLREFS
LAATVTVFFLYTAELLPTVLRATGLGLVSLASVAGAILSLTIISQTPSLLPIFLCCVLAIVAFSLSSLLP
ETRDQPLSESLNHSSQIRNKVKDMKTKETSSDDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6821_a04.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_004803

ORF Size: 1782 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004803.2, NP_004794.1

RefSeq Size: 2201 bp

RefSeq ORF: 1785 bp

Locus ID: 9389

UniProt ID: Q9Y267

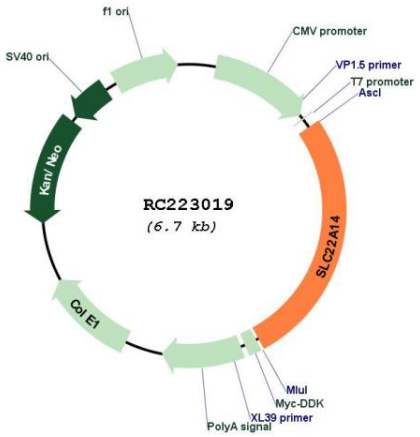
Cytogenetics: 3p22.2

Protein Families: Transmembrane

MW: 66.5 kDa

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 3. The encoded protein is a transmembrane protein which is thought to transport small molecules and since this protein is conserved among several species, it is suggested to have a fundamental role in mammalian systems. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC223019