

Product datasheet for **RC224142**

SLC24A4 (NM_153647) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC24A4 (NM_153647) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC24A4
Synonyms:	A12A5; NCKX4; SHEP6; SLC24A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC224142 representing NM_153647
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCGAGCAAGTCGGCTTCGTGTGCGCGTGTGCGCCCTGGTGTGCTGTGCGTCCGGCCTCTTCG
 GCAGCTTGGGGCACAAAACAGCTTCTGCTAGCAAACGTGTCTGCCAGACACATGGAGAAATAGAAAGTT
 GATGGCCCCAGTGAATGGGACACAGACAGCCAAGAAGTGCACAGATCCTGCGATTACAGAGTCCCCACA
 GATCTGTTCTCCAATAAGGAGCGACAGCACGGAGCCGCTCTGCTGCACATCCTTGGTGTCTGTATATGT
 TCTATGCCTTGGCCATAGTGTGCGATGACTTCTTTGTTCCGTCTCTAGAGAAGATCTGTGAGAGACTCCA
 TCTGAGCGAAGATGTGGCTGGAGCCACCTTCATGGCTGCAGGAAGCTCAACGCCAGAGCTGTTTGGCTCT
 GTTATTGGGGTGTTCATACCCATGGGGACGTGGGGTGGGCACCATCGTGGCTCTGCTGTGTTCAACA
 TCCTGTGCATAATTGGAGTGTGCGGACTGTTTGTGCGCAGGTGGTCCGTCTGACGTGGTGGCCGTGTG
 CCGAGACTCCGTGTACTACACCATCTGTGCATCGTGTCTCATCGTGTTCATATATGATGAACAAATTGTG
 TGGTGGGAAGGCCTGGTGTCTCATCTTGTATGTGTTTTATATTCTGATCATGAAGTACAATGTGAAGA
 TGCAAGCCTTTTTACAGTCAAACAAAAGAGCATTGCAAACGGTAACCCGGTCAACAGTGAGCTGGAGGC
 TGTGAAGGAGAAGCCACAGTATGGCAAGAACCCTGGTGTGGTGGACGAGATTATGAGCTCCAGCCCT
 CCCAAGTTCACCTTCCCTGAAGCAGGCTTACGAATCATGATCACCAATAAGTTTGGACCCAGGACCCGAC
 TACGGATGGCCAGCAGGATCATCATTATGAGCGGCAGAGACTGATCAACTCGGCCAATGGTGTGAGCAG
 TAAGCCGCTTCAAACCGGGAGGCCAGGAAACATTGAGAACGGGAATGTTCTGTGGAAAACCCCGAAGAC
 CCTCAGCAGAATCAGGAGCAGCAGCCGCCACAGCCACCACCCAGCCAGAGCCGGTGGAGGCTG
 ACTTCTGTCCCCCTTCTCCGTGCCGAGGCCAGAGGGACAAGGTCAAGTGGGTGTTACCTGGCCCT
 CATCTTCTCCTGTGCGTCACCATCCCAACTGCAGCAAGCCCGCTGGGAGAAGTTCTTCATGGTCACC
 TTCATACCCGCCACGCTGTGGATCGCTGTGTTCTCCTACATCATGGTGTGGCTGGTACTATTATCGGAT
 ACACACTTGGGATCCCGGATGTCATCATGGGCATTACTTCTGGCAGCAGGGACAAGTGTCCAGACTG
 CATGGCCAGCCTAATTGTGGCGAGACAAGGCCCTTGGGGACATGGCAGTCTCCAACACCATAGGAAGCAAC
 GTGTTTGACATCCTGGTAGGACTTGGTGTACCGTGGGGCTGCAGACCATGGTTGTTAATTATGGATCAA
 CAGTGAAGATCAACAGCCGGGGCTGGTCTATTCCGTGGTCTGTGCTGGGCTCTGCTGCTCTCACCGT
 CCTCGGCATCCACCTAAACAAGTGGCGACTGGACCGGAAGCTGGGTGTCTACGTGCTGGTCTCTACGCC
 ATCTTCTGTGCTTCTCCATAATGATAGAGTTTAACTGCTTACCTTCGCAACTTGCCGATGTGCCGG
 AAGACGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224142 representing NM_153647
 Red=Cloning site Green=Tags(s)

MLPQQVGFVCAVLALVCCASGLFGSLGHKTASASKRVLPDTRNRKLMAPVNGTQTAKNCTDPAIHEFPT
 DLF SNKERQHGA VLLHILGALYMFYALAI VCDFFVPSLEKICERLHLS EDVAGATFMAAGSSTPEL FAS
 VIGVFI THGDVGVGTIVGSAVFNILCIIGVCGLFAGQVVRLTWWAVCRDSVYYTISVIVLIVFIYDEQIV
 WVEGLVLIILYVFYILIMKYNVQMQAFFTVKQKSIANGNPVNSELEAVKEKPQYGKNPVVMVDEIMSSSP
 PKFTFPEAGLRIMITNKFGRPRLRMSRIIINERQRLINSANGVSSKPLQNGRHENIENGNVPVENPED
 PQQNQEQPPPQPPPEPEPEADFLSPFSVPEARGDKVKWVFTWPLIFLLCVTIPNCSKPRWEKFFMVT
 FITATLWIAVFSYIMVWLVTIIGYTLGIPDVIMGITFLAAGTSVPDCMASLIVARQGLGDMAVSNTIGSN
 VFDILVGLGVPWGLQTMV VNYGSTVKINSRGLVYSVVL LLSGVALTVLGIHLNKWRLDRKLG VYVLYLA
 IFLCFSIMIEFNVFTFVNLP MCREDD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153647

ORF Size: 1758 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_153647.2](#), [NP_705933.1](#)

RefSeq Size: 4428 bp

RefSeq ORF: 1812 bp

Locus ID: 123041

UniProt ID: [Q8NFF2](#)

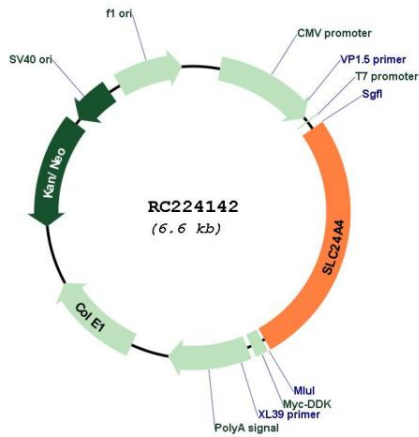
Cytogenetics: 14q32.12

Protein Families: Druggable Genome, Transmembrane

MW: 62.8 kDa

Gene Summary: This gene encodes a member of the potassium-dependent sodium/calcium exchanger protein family. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]

Product images:



Circular map for RC224142