

Product datasheet for **RC214414**

SLC13A1 (NM_022444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC13A1 (NM_022444) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC13A1
Synonyms:	NAS1; NaSi-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214414 representing NM_022444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAATTCCTCAGTTACATTCTGGTTATCGCCGATTTCTCTTCTGGTGGTTTCTACTGTGTGGTTTAC
 TACCTCTGCCCATCGTCCTCCACACCAAGGAAGCAGAATGTGCCTACACACTCTTTGGTGGCCACATT
 TTGGCTCACAGAAGCATTGCCTCTGTCGGTAACAGCTTTGCTACCTAGTTAATGTTACCCATGTTGGG
 ATCATGCCTTCTAAGAAGGTGGCATCTGCTTATTTCAAGGATTTTCACTTACTGTAATGGAGTTATCT
 GTTTAGCAACATCCATAGAAAAATGGAATTTGCACAAGAGAATTGCTCTGAAAAATGGTGATGATGGTTGG
 TGTAAATCCTGCATGGCTGACGCTGGGGTTCATGAGCAGCACTGCCTTTTTGTCTATGTGGCTCAGCAAC
 ACCTCGACGGCTGCCATGGTGATGCCATTGCGGAGGCTGTAGTGCAGCAGATCATCAATGCAGAAGCAG
 AGGTCGAGGCCACTCAGATGACTTACTTCAACGGATCAACCAACCACGGACTAGAAATTTGATGAAAGTGT
 TAATGGACATGAAATAAATGAGAGGAAAGAGAAAAACAAACCAGTTCCAGGATACAATAATGATACAGGG
 AAAATTTCAAGCAAGGTGGAGTTGGAAAAGAACTCAGGCATGAGAACCAATATCGAACAAGAAGGGCC
 ACGTGACACGTAACCTTACGTGTTTGTGCATTGCCTACTCTTCTACCATTGGTGGACTGACAACAATCAC
 TGGTACCTCCACCAACTTGATCTTTGCAGAGTATTTCAATACACGCTATCCTGACTGTGCTTGCCTCAAC
 TTTGGATCATGGTTACGTTTTCCTTCCAGCTGCCCTTATCATTCTACTCTTATCCTGGATCTGGCTTC
 AGTGGCTTTTCTAGGATTAATTTAAGGAGATGTTCAAATGTGGCAAAACCAAAACAGTCCAACAAAA
 AGCTTGTGCTGAGGTGATTAAGCAAGAATACAAAAGCTTGGCCAATAAGGTATCAAGAAATTTGACCC
 TTGGTCTTTCATTATAATGGCTCTGCTATGGTTTAGTCGAGACCCCGGATTTGTTCTGGTTGGTCTG
 CACTTTTTTCAGAGTACCCTGGTTTTGCTACAGATTCAACTGTTGCTTTACTTATAGGGCTGCTATCTT
 TCTTATCCAGCTAAGACACTGACTAAAACACTACCTACAGGAGAAATGTTGCTTTTACTACTCCCA
 CTGATTACTTGGAAAGAATTCAGTCAATTCATGCCCTGGGATATAGCCATTCTTGTGGTGGAGGTTTG
 CCCTGGCAGATGGTTGTGAGGAGTCTGGATTATCTAAGTGGATAGGAAATAAATTATCTCCTCTGGGTTT
 ATTACCAGCATGGCTAATAATTCTGATATCTTCTTTGATGGTGACATCTTAACTGAGGTAGCCAGCAAT
 CCAGCTACCATTACACTCTTCTCCAATATTATCTCCATTGGCCGAAGCCATTCATGTGAACCTCTTT
 ATATTCTGATACCTTCTACTCTGTACTTCAATTTGCATTCTCCTACCAGTAGCAATCCACCAATGC
 TATTGTCTTTTCATATGGTCATCTGAAAGTCATTGACATGGTTAAAGCTGGACTTGGTGTCAACATTGTT
 GGTGTTGTGTGGTTATGCTTGGCATATGACTTGGATTGTACCCATGTTTGACCTCTACACTTACCCTT
 CGTGGGCTCTGCTATGAGTAATGAGACCATGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214414 representing NM_022444
 Red=Cloning site Green=Tags(s)

MKFFSYILVYRRFLFVVFVTLVLLPLPIVLHTKEAECAYTLFVVATFWL TEALPLSVTALLPSLMLPMFG
 IMPSKKVASAYFKDFHLLLIGVICLATSIEKWNLHKRIALKMVMVGVNPAWLTGFMSSAFLSMWLSN
 TSTAAMVPIAEAVVQIINAEAEVEATQMTYFNGSTNHGLEIDESVNGHEINERKEKTKPVPGYNNDTG
 KISSKVELEKNSGMRTKYRTKKGHVTRKLTCLCIAYSSTIGGLTTITGTSTNLIFAEYFNTRYPCRCN
 FGSWFTFSFPAALIIILLWSIWLQWFLGFNFKEMFKCGKTKTVQQKACAEVIKQEYQKLGPIRYQEIVT
 LVLFIIMALLWFSRDPGFVPGWSALFSEYPGFATDSTVALLIGLLFFLIPAKTLTKTPTGEIVAFDYS
 LITWKEFQSFMPWDIAILVGGGFALADGCEESGLSKWIGNKLSPLGSLPAWLIILISSLMVTSLEVASN
 PATITLFLPILSPLAEAIHVNPLYILIPSTLCTSFALLPVANPPNAIVFSYGHKVIDMVKAGLGVNIV
 GVAVVMLGICTWIVPMFDLYTYPSPWAPMSNETMP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8010_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022444

ORF Size: 1785 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_022444.4](#)

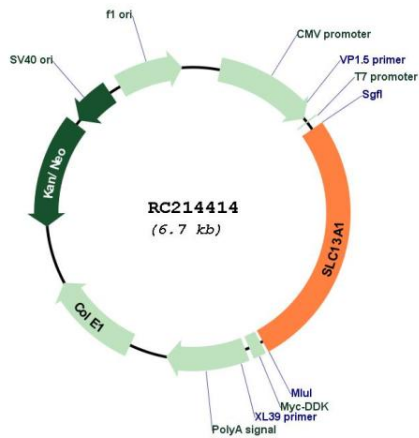
RefSeq Size: 3811 bp

RefSeq ORF: 1788 bp

Locus ID: 6561

UniProt ID: [Q9BZW2](#)
Cytogenetics: 7q31.32
Protein Families: Transmembrane
MW: 66 kDa
Gene Summary: The protein encoded by this gene is an apical membrane Na(+)-sulfate cotransporter involved in sulfate homeostasis in the kidney. Defects in this gene lead to many pathophysiologic problems. [provided by RefSeq, May 2016]

Product images:



Circular map for RC214414