

Product datasheet for **RC211006**

SLC17A1 (NM_005074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A1 (NM_005074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC17A1
Synonyms:	NAPI-1; NPT-1; NPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211006 representing NM_005074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAAAATGGATAACCGTTGCCTCCAAAAAAGTTCCAGGTTTCTGTTCCTTTCGCTATGGATTGTCTT
 TCCTTGTGCACTGTTGTAATGTTATAATAACAGCACAGCGTGCCTGAACCTACAATGGTAGTCAT
 GGTGAATAGCACAGATCCACATGGTTTGCCCAACACCTCCACAAAAGAAGCTCCTGGATAATATAAAGAAC
 CCTATGTATAATTGGAGCCAGATATCCAGGGAATCATCTTGAGTTCCACCTCCTATGGTGCATCATCA
 TCCAAGTTCCTGTTGGATACTTCTCTGGAATATATTCTACAAAGAAAAATGATTGGCTTTGCATTATGCC
 CAGCTCTGTGTTAAGCCTGCTCATCCACCAGCAGCTGGAATTGGAGTAGCTGGGTCGTTGATGTCGA
 GCAGTTACGGGAGCAGCCAGGGATAGTTGCAACAGCCAGTTTAAAAATATGTCAAATGGGCTCCTC
 CCCTGGAACGAGGCCGACTTACTTCTATGAGTACATCAGGGTTTTGCTGGGACCCTTTATTGCTCTACT
 TGTGACTGGAGTTATCTGTGAATCTCTGGGCTGGCCATGGTCTTCTATATTTTTGGTGCTGTGGCTGT
 GCCGATGCTTCTCTGGTTCTGTTCTGTTTATGATGACCCCAAAGACCACCCATGTATAAGCATCAGTG
 AAAAGGAATACATCACATCCTCCCTGGTCCAGCAGGTCAGTTCAAGTAGACAATCTCTGCCTATCAAGGC
 TATACTTAAGTCGCTTCCAGTCTGGGCTATTTCCACTGGTAGTTTACGTTTTTCTGGTACATAACATC
 ATGACACTATACACTCCAATGTTTATCAACTCCATGCTTCATGTTAATAAAAAGAGAATGGGTTCTTGT
 CTTCCCTCCCTATTTGTTTGCCTGGATCTGTGGTAACCTAGCAGGTCAGTTATCAGACTTCTTCTGAC
 CAGGAATATTCTCAGCGTAATTGCTGTCCGAAACTCTTACAGCAGCAGGATTTCTCCTCCTGCAATC
 TTTGGTCTGCCTGCCTACCTGAGTTCACCTTCTACAGCATTGTCAATTTCCATAACTTGTGGTG
 CAACAGGCAGCTTTTGTGGTGGAGTGTATAAATGGCTTGGATATTGCTCCAGATATTTTGGATT
 TATTAAGCATGTTCAACTTAACTGGAATGATAGGAGGACTAATTGCTTCCACTTTGACTGGATTGATC
 CTTAAGCAGGATCCGGAATCCGCCTGGTTTAAACCTTATCCTGATGGCAGCCATTAATGTGACTGGCC
 TAATTTTCTACCTTATAGTTGCTACAGCAGAAATTCAGGACTGGGCTAAAGAAAAACAACACACAGTCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211006 representing NM_005074
 Red=Cloning site Green=Tags(s)

MQMDNRLPPKKVPGFCSFRYGLSFLVHCCNVIIITAQRACLNLTMVVMVNSTDPHGLPNTSTKLLDNIKN
 PMYNWSPDIQGIILSSTSYGVIIIQVPVGYFSGIYSTKKMIGFALCLSSVLSLLIPPAAGIGVAWVVCR
 AVQGAAGQIVATAQFEIYVKWAPPLERGLTSMSTSGFLLGPFIVLLVTGVICESLGWPMVFIYFGACGC
 AVCLLWFLFYDDPKDHPICISISEKEYITSSLVQQVSSSRQSLPIKAILKSLPVWAI STGSFTFFWSHNI
 MTLYTPMFINSMLHVNKENGFLSSLPYLFAWICGNLAGQLSDFFLTRNLSVIAVRKLFTAAGFLLPAI
 FGVCLPYLSSTFYIVIFLILAGATGSFCLGGVFINGLDIAPRYFGFIKACSTLTGMIGGLIASTLTGLI
 LKQDPESA WFKTFILMAAINVTGLIFYLIVATAEIQDWAKEKQHTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_005074

ORF Size: 1401 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_005074.5](#)

RefSeq Size: 1549 bp

RefSeq ORF: 1404 bp

Locus ID: 6568

UniProt ID: [Q14916](#)

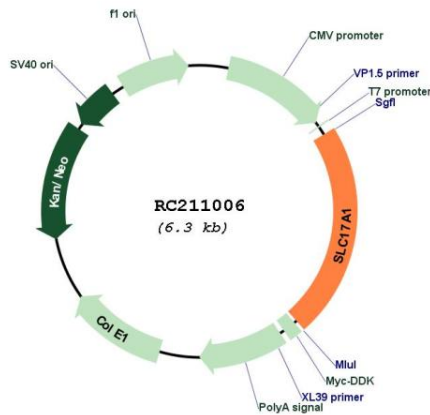
Cytogenetics: 6p22.2

Protein Families: Transmembrane

MW: 51 kDa

Gene Summary: Important for the resorption of phosphate by the kidney. May be involved in actively transporting phosphate into cells via Na(+) cotransport in the renal brush border membrane. Plays a role in urate transport in the kidney (PubMed:27906618).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211006