

Product datasheet for **RC219277**

SLC17A4 (NM_005495) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A4 (NM_005495) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC17A4
Synonyms:	KAIA2138
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC219277 representing NM_005495
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTACCGACCAGATGTCAAGGCTACAGTGGGGACATTTCCAGTGATGGCAATTTAAACGTGGCTC
 AAGAGGAATGCTCCAGGAAAGGTTTTTGTTCAGTCCGACATGGGCTGGCCCTCATCTTGACGCTCTGTAA
 TTTTTCAATTTACACCCAACAAATGAACTTGAGCATTGCCATTCCAGCTATGGTGAACAACACAGCCCCA
 CCTAGCCAGCCCAATGCCTCCACAGAACGGCCCTCCACTGACTCCAGGGCTACTGGAATGAAACTCTAA
 AAGAATTTAAAGCAATGGCCCTGCATATGACTGGAGTCTGAAATCCAGGGAATCATCCTCAGCTCCCT
 CAACTATGGCTCATTCTGGCTCAATCCCAGTGGCTATGTGGCTGGAATTTGGAGCCAAGTATGTG
 GTTGGTGTGGCTGTTTATTTCTCATTCTGACCTCTTATTCCACTGGCAGCTAATGCGGGAGTGG
 CCTTGCTCATTGTCTCCGGATTGTACAAGGCATAGCCAGGTTATGGTATTAACGGTCAGTATCAAT
 TTGGGTCAAATGGGCTCCCCACTGAAAGGAGTCAACTCACCACCATTGCTGGATCAGGGTCAATGCTG
 GGGTCTTCATTGTTCTACTTGCTGGTGGTCTCCTCTGCCAGACCATAGGATGGCCCTACGCTCTCTATA
 TCTTTGGAGGAATTGGCTGTGCTTGTGCTCTCTGTTTCTCTCATTATGATGATCCTGTGAATCA
 TCCCTTTATCAGTGTGGTGAAGAGATACATTTGTGTTCATTGGCTCAGCAGGACTGTTACCAGGC
 TGGTCTCTCCATTAGGGCTATGATCAAATCCTTACCACTCTGGGCCATTTTAGTCTCTTATTTCTGTG
 AACTGGCTTTTTTATACCATTATGGCGTACACCAACGTACATCAGCTCGGTACTTCAAGCCAACT
 CAGAGATAGTGGGATCCTGTCTGCCCTGGCGTTGTTGTTGGATGATCTGCATTATCCTTGAGGTCTA
 CTGGCAGACTTTCTCTCCAGAAAACTCCAGACTCATCACCATCAGGAACTCTTCACTGCCATTG
 GGGTCTCTTCCATCCGTGATCCTCGTGTCCCTGCCCTGGTCCAGATCCAGCCACAGCATGACCATGAC
 CTCTTGGTGTCTTCTGCCATCAGCAGCTTCTGTGAATCAGGAGCCCTTGTTAACTTCTGGATATT
 GCTCCTCGGTACTGGCTTTCTCAAAGGACTATTGCAAGTCTTGGCACATAGCTGGAGCCATCTCTC
 TACTGCTGCTGGATTTTTCATCAGTCAGGATTCAGAGTTGGTTGGAGAAATGTCTTCTTCTTCCAGC
 TGCTGTAAACATATCGGGCCTGGTTTTCTACCTCATCTTGGCCGAGCAGATGTGCAGGACTGGGCTAAG
 GAGCAGACATTCACCCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219277 representing NM_005495
 Red=Cloning site Green=Tags(s)

MSTGPDVKATVGDISSDGNLNVAQECSRKGFCSVRHGLALILQLCNFSIYTQMMNLSIAIPAMVNNTAP
 PSQPNASTERPSTDSQGYWNETLKEFKAMAPAYDWSPEIQGIILSSLNYGSFLAPIPSGYVAGIFGAKYV
 VGAGLFISSFLTLFIPLAANAGVALLIVLRIVQGIQVMVLTGQYSIWVKWAPPLERSQLTTIAGSGSML
 GSFIVLLAGLLCQTIGWPYVFYIFGGIGCACCPWFPLIYDDPVNHPFISAGEKRYIVCSLAQQDCSPG
 WSLPIRAMIKSLPLWAILVSYFCEYWFYTIMAYTPTYISSVLQANLRDSGILSALPFVVGICICILGGL
 LADFLSRKILRLITIRKLFITAGVLFPSVILVSLPWVRSRSHMTMFLVLSAIISSFCESGALVNFLLDI
 APRYTGFLKGLLQVFAHIAGAIPTAAGFFISQDSEFGWRNVFLLSAAVNISGLVFYLIIFGRADVQDWAK
 EQTFTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8008_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_005495

ORF Size: 1491 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_005495.1](#), [NP_005486.1](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1494 bp

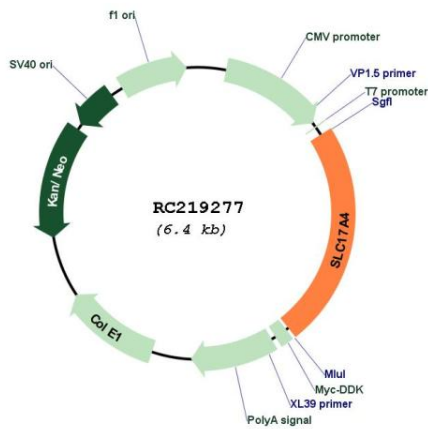
Locus ID: 10050

UniProt ID: [Q9Y2C5](#)

Cytogenetics: 6p22.2

Protein Families:	Transmembrane
MW:	53.9 kDa
Gene Summary:	Phosphate homeostasis is maintained by regulating intake, intestinal absorption, bone deposition and resorption, and renal excretion of phosphate. The central molecule in the control of phosphate excretion from the kidney is the sodium/phosphate cotransporter NPT1 (SLC17A1; MIM 182308), which is located in the renal proximal tubule. NPT1 uses the transmembrane electrochemical potential gradient of sodium to transport phosphate across the cell membrane. SLC17A4 is a similar sodium/phosphate cotransporter in the intestinal mucosa that plays an important role in the absorption of phosphate from the intestine (summary by Shibui et al., 1999 [PubMed 10319585]).[supplied by OMIM, Feb 2011]

Product images:



Circular map for RC219277