

Product datasheet for **RC238470**

SLC17A2 (NM_001286123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A2 (NM_001286123) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC17A2
Synonyms:	NPT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC238470 representing NM_001286123
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGACGGGAAGCCTGCCACCAGGAAAGGTCCAGATTTCTGTTTCATTACGCTATGGGCTGGCTCTTATCA
 TGCACCTTCTCAAACCTTACCATGATAACGCAGCGTGTGAGTCTGAGCATTGCGATCATCGCCATGGTGAA
 CACCACTCAGCAGCAAGGTCTATCTAATGCCTCCACTGAGGGGCTGTTGCAGATGCCTTCAATAACTCC
 AGCATATCCATCAAGGAATTTGATACAAAGGCCTCTGTGTATCAATGGAGCCAGAACTCAGGGTATCA
 TCTTTAGTCCATCAACTATGGGATAATACTGACTCTGATCCCAAGTGGATATTTAGCAGGGATATTTGG
 AGCAAAAAAATGCTTGGTGCTGGTTTGCTGATCTCTCCCTTCTCACCTCTTTACACCACTGGCTGCT
 GACTTCGGAGTGATTTTGGTCATCATGGTTCGGACAGTCCAGGGCATGGCCAGGGAATGGCATGGACAG
 GTCAGTTTACTATTTGGCAAGTGGGCTCCTCCACTGAACGAAGCAAGCTCACCACTTGCAGGATC
 AGGGTCAGCATTTGGATCCTTCATCATCCTCTGTGTGGGGGACTAATCTCACAGGCCTTGAGCTGGCCT
 TTTATCTTCTACATCTTTGGTAGCACTGGCTGTGTCTGCTGTCTCTATGGTTCACAGTGATTTATGATG
 ACCCATGCATCACCCGTGCATAAGTGTTAGGGAAGAGCAGACATCCTGTCTCACTGGCTCAACAGCC
 CAGTTCTCCTGGACGAGCTGTCCCATAAAGGCGATGGTCACATGCCTACCACTTTGGGCCATTTTCTG
 GGTTTTTTCAGCCATTTCTGGTTGTGCACCATCATCTAACATACCTACCAACGTATATCAGTACTCTGC
 TCCATGTTAACATCAGAGATAGTGGAGTTCTGTCTCCCTGCCTTTTATTGCTGCTGCAAGCTGTACAAT
 TTTAGGAGGTGAGTGGCAGATTTCTTTTGTCCAGGAATCTTCTCAGATTGATCACTGTGCGAAAGCTC
 TTTTCACTCTTTGGGCTCCTCTCCATCAATATGTGCTGTGGCCCTGCCCTTTGTGGCTCCAGTTACG
 TGATAACCATATTTTGTGATACTTATCTGGGACCAGTAACCTATGTGACTCAGGGTTTATCATCAA
 CACCTTAGATATCGCCCCAGATATGCAAGTTTCTCATGGGAATCTCAAGGGGATTTGGGCTCATCGCA
 GGAATCATCTCTTCCACTGCCACTGGATTCTCATCAGTCAGGATTTTGTGCTGTTGGAGGAATGTCT
 TTTTCTGTCTGCTGCAGTCAACATGTTTGGCCTGGTCTTTTACCTCACGTTTGGACAAGCAGAATTCA
 AGACTGGGCCAAAGAGAGGACCTTACCCGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238470 representing NM_001286123
 Red=Cloning site Green=Tags(s)

MDGKPATRKGPDFCSLRYGLALIMHFSNFTMITQRVSLSIAMVNTTQQGLSNASTEGPVADAFNNS
 SISIKEFDTKASYVQWSPETQGIIFSSINYGIILTLIPSGYLAGIFGAKKMLGAGLLISSLLTLFTPLAA
 DFGVILVIMVRTVQGMAGMAWTGQFTIWAKWAPPLERSKLTIIAGSGSAFGSFIIICVGGGISQALSWP
 FIFYIFGSTGCVCLLWFTVIYDDPMHPCISVREKEHILSSLAQQPSSPGRAVPIKAMVTCLPLWAIPL
 GFFSHFWLCTIILTYLPTYISTLLHVNIRDSGLSSLPFIAAASCTILGGQLADFLSRNLLRLITVRKL
 FSSLGLLLPSICAVALPFVASSYVITIILLILIPGTSNLCDSGFIINTLDIAPRYASFLMGISRGFLIA
 GIISSTATGFLISQDFESGWRNVFFLSAAVNMFGLVFYLTFGQAEQDWAKERTLTRL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001286123

ORF Size: 1434 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001286123.3](#)

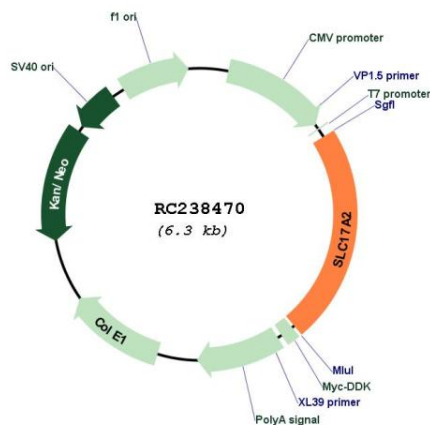
RefSeq Size: 2094 bp

RefSeq ORF: 1437 bp

Locus ID: 10246

UniProt ID: O00624
Cytogenetics: 6p22.2
Protein Families: Transmembrane
MW: 52.4 kDa
Gene Summary: May be involved in actively transporting phosphate into cells via Na(+) cotransport.
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC238470