

Product datasheet for **RG211006**

SLC17A1 (NM_005074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A1 (NM_005074) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC17A1
Synonyms:	NAPI-1; NPT-1; NPT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211006 representing NM_005074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAAAATGGATAACCGTTGCCTCCAAAAAAGTTCAGGTTTCTGTTCCTTTCGCTATGGATTGTCTT
 TCCTTGTGCACTGTTGTAATGTTATAATAACAGCACAGCGTGCCTGAACCTACAATGGTAGTCAT
 GGTGAATAGCACAGATCCACATGGTTTGCCCAACACCTCCACAAAAGAAGCTCCTGGATAATATAAAGAAC
 CCTATGTATAATTGGAGCCAGATATCCAGGGAATCATCTTGAGTTCCACCTCCTATGGTGCATCATCA
 TCCAAGTTCCTGTTGGATACTTCTCTGGAATATATTCTACAAAGAAAAATGATTGGCTTTCATTATGCCCT
 CAGCTCTGTGTTAAGCCTGCTCATCCACCAGCAGCTGGAATTGGAGTAGCTGGGTCGTTGTATGTCGA
 GCAGTTACGGGAGCAGCCAGGGGATAGTTGCAACAGCCAGTTTAAAATATATGCAAATGGGCTCCTC
 CCCTGGAACGAGGCCGACTTACTTCTATGAGTACATCAGGGTTTTGCTGGGACCCTTTATTGTCCTACT
 TGTGACTGGAGTTATCTGTGAATCTCTGGGCTGGCCATGGTCTTCTATATTTTTGGTGTCTGTGGCTGT
 GCCGTATGCTTCTCTGGTTCGTTCTGTTTATGATGACCCCAAAGACCACCCATGTATAAGCATCAGTG
 AAAAGGAATACATCACATCCTCCCTGGTCCAGCAGGTCAGTTCAAGTAGACAATCTCTGCCTATCAAGGC
 TATACTTAAGTCGCTTCCAGTCTGGGCTATTTCCACTGGTAGTTTTACGTTTTTCTGGTACATAACATC
 ATGACACTATACACTCCAATGTTTATCAACTCCATGCTTCATGTTAATAAAAAGAGAATGGGTTCTTGT
 CTTCCCTCCCTATTTGTTTGCCTGGATCTGTGGTAACCTAGCAGGTCAGTTATCAGACTTCTTCTGAC
 CAGGAATATTCTCAGCGTAATTGCTGTCCGAAACTCTTACAGCAGCAGGATTTCTCCTCCTGCAATC
 TTTGGTGTCTGCCTGCCTACCTGAGTTCACCTTCTACAGCATTGTCAATTTCCATAACTTGTGGTG
 CAACAGGCAGCTTTTGGTGGGAGTGTATATAAATGGCTTGGATATTGCTCCAGATATTTTGGATT
 TATTAAGCATGTTCAACTTAACTGGAATGATAGGAGGACTAATTGCTTCCACTTTGACTGGATTGATC
 CTTAAGCAGGATCCGGAATCCGCCTGGTTTAAACCTTATCCTGATGGCAGCCATTAATGTGACTGGCC
 TAATTTTCTACCTTATAGTTGCTACAGCAGAAATTCAGGACTGGGCTAAAGAAAAACAACACACAGTCT
 C

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211006 representing NM_005074
 Red=Cloning site Green=Tags(s)

MQMDNRLPPKKVPGFCSFRYGLSFLVHCCNVIIITAQRACLNLTMVVMVNSTDPHGLPNTSTKKLLDNIKN
 PMYNWSPDIQGIILSSTS YGVIIIQVPVGYFSGIYSTKKMIGFALCLSSVLSLLIPPAAGIGVAWVVVCR
 AVQGAQIGIVATAQFEIYVKWAPPLERGR L TSMSTSGFLLGPFIVLLVTGVICESLWGPVVFYIFGACGC
 AVCLLWFVLFYDDPKDHPCISISEKEYITSSLVQVSSSRQSLPIKAILKSLPVWAISTGSFTFFWSHNI
 MTLYTPMFINSMLHVNKENGFLSSLPYLFAWICGNLAGQLSDFFLTRNLSVIAVRKLF TAAGFLLPAI
 FGVCLPYLSSTFYIVIFLILAGATGSFCLGGVFINGLDIAPRYFGFIKACSTLTGMIGGLIASTLTGLI
 LKQDPESAWFKFILMAAINVTGLIFYLIVATAEIQDWAKEKQHTRL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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](#)

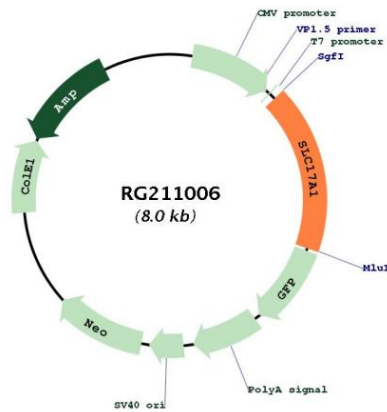
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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
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 RG211006