

Product datasheet for **SC116486**

SLC17A2 (NM_005835) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A2 (NM_005835) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC17A2
Synonyms:	NPT3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_005835 edited
CGGCCGCGAATTCGGCACCAGACGTGGCTCACTATTTATCCCTGTAAAATCTGCAAAAGT
ATTTGAAAGGGAAGAAGGGACAGAAAACCTCCCTCTTTTCCAAGTTAGCCTTATAGTCTA
GGGCTTAAATACTGGTTAATGGTGAAGGTAAGTGCTTTTCTCTTTTGGGTAGAAGG
ATTATTACTAACTTACCAAGGTCCATTAAGGGGAGGGAACAGTTTTAGGAGAAGTCAGA
GAAAAGACATTAAACAGCAACATAAGGATCTCCATCTGGTAATATTGCCTAATTCAAAAAT
GAAGAGACTCTCTGAAAAAGATAACTGATTCAATGAAGACCCTAGGGCAAGGCTTGAGAA
GCCACTGGTACC AATGGACACTGTGGACAATGGTCATTTCTCCAAGGACGCTATAAAAGA
CTGTCGTAGTAAAAGAGATTAGGGCACAGGGAACCTCCACCACAAAGCGTGGTACCATT
TCCCACAGAAGCTAAATGGACGGGAAGCCTGCCACCAGGAAAGGTCCAGATTTCTGTTCA
TTACGCTATGGGCTGGCTCTTATCATGCACTTCTCAAACCTTACCAGTATAACGCAGCGT
GTGAGTCTGAGCATTGCGATCATCGCCATGGTGAACACCACTCAGCAGCAAGGTCTATCT
AATGCCTCCACTGAGGGGCTGTTGCAGATGCCTTCAATAACTCCAGCATATCCATCAAG
GAATTTGATACAAAGGCCTCTGTGTATCAATGGAGCCCAGAACTCAGGGTATCATCTTT
AGCTCCATCAACTATGGGATAATACTGACTCTGATCCCAAGTGGATATTTAGCAGGGATA
TTTGGAGCAAAAAAATGCTTGGTGCTGGTTTGCTGATCTCTCCCTTCTCACCCCTTTT
ACACCACTGGCTGCTGACTTCGGAGTGATTTTGGTCATCATGGTTCGGACAGTCCAGGGC
ATGGCCCAGGGAATGGCATGGACAGGTCAGTTTACTATTTGGGCAAGTGGGCTCCTCCA
CTTGAACGAAGCAAGCTCACCACCATTCAGGATCAGGGTCAGCATTTGGATCCTTCATC
ATCCTCTGTGTGGGGGGACTAATCTCACAGGCCTTGAGCTGGCCTTTTATCTTCTACATC
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CAGAGTGGAGTTCTGTCTCCCTGCCTTTTATTGCTGCTGCAAGCTGTACAATTTTAGGA
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GCCTCCAGTTACGTGATAACCATATTTTGTGATACTTATTCCTGGGACCAGTAACCTA
TGTGACTCAGGGTTTATCATCAACACCTTAGATATCGCCCCAGATATGCAAGTTTCCTC
ATGGGAATCTCAAGGGGATTTGGGCTCATCGCAGGAATCATCTTCCACTGCCACTGGA
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GTCAACATGTTTGGCCTGGTCTTTTACCTCACGTTTGGACAAGCAGAAGTTCAAGACTGG
GCCAAAGAGAGGACCCTTACCCGCTCTGAGGACATAAAGTTACAAACTTAAATGTGGTA
CTGAGCATGAAGTTTTTAAACATTTTTTACTTCTCTCCATATTCCTGACCATAGACTCAG
CAGTTCTTAAGTCTGGCTGTGTGTTAGTCTTCCCTGGGGAGCCTTTATAAGACACTGATA
CTTGGGACCCACTCCAGAGATTCTGAATGAATTGGTCTGGGGTGAACCCAGATACTACT
AATTTTTAGATACTCCTTAGAGGTTTCTAGCATGCGCCCGGGGTGACAAACAGCTGGACA
AACTTGAAAAGTCAATTCATGTGGCCTTTGAATTTTCTCATTGGAAAGTACTAAATAAA
TAAAAATTCATGTGAAAATGATCACTGATAAATATCTTCATGGTGGGGCAGGTTATTGGA
TGCAGAGAAGATCTGCTCGGAATTGTAGCCATATGTTACAGATCTCAGCACCGATCAGAA
CTGTAAAGCTATAATCCCAGAAATTAAGTTTTTATTTTTTTTAAAAAAAAAAAAAAAAAA
AAAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005835 unedited
 TCGCCATTTTGTAAACGACTCACTATAGGGCGGCCGCGNAATTCGCACCAGACGTGGCT
 CACTATTTATCCCTGTAAAACTGCAAAGTATTTGAAAGGGAAGAAGGGACAGAAAACTC
 CCTCCTTTTCCAAGTTAGCCTTATAGTCTAGGGCTTAAATACTGGTTTAAATGGTGAAGG
 TAAGTGCTTTTCTTCTTTTGGGTAGAAGGATTATTAACCTTACCAAAGGTCCATTAA
 GGGGAGGGAACAGTTTTAGGAGAAGTCAGAGAAAAGACATTAACAGCAACATAAGGATCT
 CCATCTGGTAATATTGCCTAATTCCAAAATGAAGAGACTCTCTGAAAAAGATAACTGATT
 CAATGAAGACCCTAGGGCAAGGCTTGAGAAGCCACTGGTACCAATGGACACTGTGGACAA
 TGGTCATTTCTCCAAGGACGCTATAAAAGACTGTCGTAGTAAAAGAGATTGAGGGCACAG
 GGAAATCCACCACAAAGCGTGGTACCATTTCACAGAGCTAAATGGACGGGAAGCCT
 GCCACCAGGAAAGGTCCAGATTCTGTTTACGCTATGGGCTGGCTCTTATCATGCAC
 TTCTCAAACCTTACCATGATAACGCAGCGTGTGAGTCTGAGCATTGCGATCATCGCCATG
 GTGAACACCACTCAGCAGCAAGGTCTATCTAATGCCTCCACTGAGGGGCCCTGTTGCAGA
 TGCCTTCAATAACTCCAGCATATCCATCAAGGAATTTGATACAAAGGCCCTCTGTGTATCA
 ATGGAGCCAGAACTCAAGGTATCATCTTTTACTTCATCAACTATGGGATTATACTGAC
 TCTGATTCCAAGTGGAATTTAGCAGGNATTTTGCAGCAAAACAATGCTTGCCTCGGTT
 GCTGATCTCTTCTTCTACCTTCTTACCACTGGCTGCTGACTTCGAGAGATTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005835 unedited
 GGTTTTTACTCTGGACCCGCGGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTT
 AAAAAAATAAAACTTTAATTCTGGGGATTATAGCTTTACAGTTCTGATCGGTGCTGAG
 ATCTGTAAACATATGGCTACAATCCGAGCAGATCTTCTCTGCATCCAATAACCTGCCCA
 CCATGAAGATATTATCAGTGATCATTTTACATGAATTTTTATTATTTAGTACTTTCC
 AATGAGGAAAATTCAAAGGCCACATGAATTGACTTTTCAAGTTTGTCCAGCTGTTGTCAA
 CCCCAGGCGCATGCTAGAAACCTCTAAGGAGTATCTAAAATTAGTAGTATCTGGGTTC
 ACCCCAGACCAATTATTCAGAACTCTCTGGAGTGGGTCCCAAGTATCAGTGTCTTATAAA
 GGCTCCCCAGGGAAGACTAACACACAGCCAGAGTTAAGAACTGCTGAGTCTATGGTCAGG
 AATATGGAGAGAAGTAAAAATGTTTAAAAAGTTCATGCTCAGTACCACATTTAAGTTTG
 TAACTTTATGTCTCAGAGGCGGGTAAGGGTCTCTCTTTGGCCAGTCTTGAAGTTCTG
 CTTGTCCAAACGTGAGGTAAAAGACCAGGCCAAACATGTTGACTGCAGCAGACAGGAAAA
 AGACATTTCTCCAACCAGACTCAAAATCCTGACTGATGAGGAATCCAGTGGCAGTGGGAAG
 AGATGATTCTGCGATGAGCCCAATCCCTTGAGATTCCATGAGGGAACTGCATATC
 TGGGGGCGATATCTAAGGTGTTGATGATAAACCTGAGTCACATAGGTTACTGGTCCAG
 NAATAGTATCAGCAATAATGGGTATCACGTAAGTGGAGGACAAAGGGCAGGNCCACA
 GCACATATTGATGGAAGGNAGGAGCCCAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_005835

Insert Size:

2500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_005835.1, NP_005826.1</u>
RefSeq Size:	2281 bp
RefSeq ORF:	1311 bp
Locus ID:	10246
UniProt ID:	<u>O00624</u>
Cytogenetics:	6p22.2
Protein Families:	Transmembrane
Gene Summary:	May be involved in actively transporting phosphate into cells via Na(+) cotransport. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in its 5' UTR and lacks an alternate exon that causes a frameshift in the 3' coding region, compared to variant 1. The encoded isoform (b) has a distinct C-terminus and is shorter than isoform a.