

Product datasheet for **SC303655**

SLC17A4 (NM_005495) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A4 (NM_005495) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC17A4
Synonyms:	KAIA2138
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_005495 edited
 TCCTCCCTCAGTAAGTAAATGCCAGTCCCTAGGAAGAGAGAACCAAAATGTCTACCGGAC
 CAGATGTCAAGGCTACAGTGGGGGACATTTCCAGTGATGGCAATTTAAACGTGGCTCAAG
 AGGAATGCTCCAGGAAAGTTTTTGTTCAGTCCGACATGGGCTGGCCCTCATCTTGCAGC
 TCTGTAATTTTTCAATTTACACCAACAAATGAACTTGAGCATTGCCATCCCAGCTATGG
 TGAACAACACAGCCCCACCTAGCCAGCCCAATGCCTCCACAGAACGGCCCTCCACTGACT
 CCCAGGGCTACTGGAATGAACTCTAAAAGAATTTAAAGCAATGGCCCTGCATATGACT
 GGAGTCCTGAAATCCAGGGAATCATCCTCAGTCCCTCAACTATGGCTCATTCTTGGCTC
 CAATCCCCAGTGGCTATGTGGCTGGAATATTTGGAGCCAAGTATGTGGTTGGTGCTGGCT
 TGTTTTATTTCTCATTCTGACCCTCTTCACTTCCACTGGCAGCTAATGCGGGAGTGGCT
 TGCTCATTGTCTCCGGATTGTACAAGGCATAGCCAGGTTATGGTATTAACCTGGTCAGT
 ATTCATTTGGGTCAAATGGGCTCCCCACTGAAAGGAGTCAACTCACCACCATTGCTG
 GATCAGGGTCAATGCTGGGGTCTTCATTGTTCTACTTGTGGTGGTCTCCTCTGCCAGA
 CCATAGGATGGCCTTACGCTTCTATATCTTTGGAGGAATGGCTGTGCTTGTGCTCCTC
 TCTGGTTTCTCTCATTTATGATGATCCTGTGAATCATCCCTTTATCAGTGTGGTGA
 AGAGATACATTGTGTGTTCAATTGGCTCAGCAGGACTGTTACCAGGCTGGTCTCTCCCA
 TTAGGGCTATGATCAAATCCTTACCCTCTGGGCCATTTAGTCTCTATTTCTGTGAAT
 ACTGGCTTTTTATACCATTATGGCGTACACCAACGTACATCAGCTCGGTACTTCAAG
 CCAACCTCAGAGATAGTGGGATCCTGTCTGCCTTGCCGTTTGGTGGATGTATCTGCA
 TTATCCTTGGAGGTCTACTGGCAGACTTCTTCTCCAGAAAAATCCTCAGACTCATCA
 CCATCAGGAACTCTTCACTACCATTGGGGTCTCTTCCATCCGTGATCCTCGTGTCCC
 TGCCCTGGGTGAGTCCAGCCACAGCATGACCATGACCTTCTTGGTGTGCTCTTCTGCCA
 TCAGCAGCTTCTGTGAATCAGGAGCCCTTGTTAACTTCTTGGATATTGCTCCTCGGTACA
 CTGGCTTTCTCAAAGGACTATTGCAAGTCTTTCACACATAGCTGGAGCCATCTCTCCTA
 CTGCTGTGGATTTTTATCAGTCAGGATTCAGAGTTGGTTGGAGAAATGTCTTCTTGC
 TTTTCAGCTGTGTTAACATATCGGGCCTGGTTTTCTACCTCATCTTTGGCCGAGCAGATG
 TGCAGGACTGGGCTAAAGAGCAGACATTCACCCACCTCTGAGCAAACCGAGAGATGTGCT
 AGATCCTGGTGTAGTTCATCATTGTTTTCCCTCACAGACATTTCTTTTCATGCCTGC
 TTGACTGATAAGCCATTAGCTAGACCCTGACTATGTAACGCTAAAGATTTTACCATGCCT
 GGAATTTTACAGGGGAAGAAAACAGCTAGTTATTTAACTGCAAGCTACTAAAAGCATA
 GGTGTGTTGAGATTTCTGTGTTCTCCACTTCCACTGTTATCCTAGTAAAAGCATCAGG
 GGCTGGGGACAATTTCTTCCAAAGCAAAGAGGAAGCCAGACCTTGGGACCG

Restriction Sites: Please inquire

ACCN: NM_005495

Insert Size: 1800 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_005495.1.

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

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]
Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.