

Product datasheet for **SC329068**

SLC34A2 (NM_001177998) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC34A2 (NM_001177998) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC34A2
Synonyms:	NAPI-3B; NAPI-IIb; NPTIIb; PULAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC329068 representing NM_001177998.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCTCCCTGGCCTGAATTGGGAGATGCCAGCCCAACCCCGATAAGTACCTCGAAGGGGCCGAGGT
CAGCAGCCCACTGCCCTGATAAAAAGCAAAGAGACCAACAAAAAACAACACTGAGGCACCTGTAACCAAG
ATTGAACCTCTGCCGTCTACTCCACGGCTACACTGATAGATGAGCCCACTGAGGTGGATGACCCCTGG
AACCTACCACTCTTCAGGACTCGGGATCAAGTGGTCAGAGAGAGACACCAAAGGGAAGATTCTCTGT
TTCTTCCAAGGGATTGGGAGATTGATTTTACTTCTCGGATTTCTACTTTTTCTGTGTGCTCCCTGGAT
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ATGTCCAACCTTTGTTGGGGCTGGTATCGGGGTGCTGGTGACCGTCTTGGTGCAGAGCTCCAGCACC
TCAACGTCATCGTTGTCAGCATGGTGCCTCTTATTGCTCACTGTTCCGGCTGCCATCCCCATTATC
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TTGCCCGTGGAGGTGGCCACCCATTACCTCGAGATCATAAACCAGCTTATAGTGGAGAGCTTCCACTTC
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ATACTCTCCCTGCTGGTCTCTGTGGTTGCCTGATCATGATTGTCAAGATCCTGGGCTGTGTGCTCAAG
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GGCTACCTGGCCATCCTCGTCCGGGCAGGCATGACCTTTCATCGTACAGAGCAGCTCTGTGTTACAGTCG
GCCTTGACCCCTGATTGGAATCGGCGTGATAACCATTGAGAGGGCTTATCCACTCACGCTGGGCTCC
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CTCCAGATCGCCCTGTGCCACTTTTTCTCAACATCTCCGGCATCTTGTGTGGTACCCGATCCCGTTC
ACTCGCTGCCATCCGATGGCAAGGGGCTGGGCAACATCTCTGCAAGTATCGCTGGTTCGCGCTC
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TCTCGCTGCCACGCTCCTGCCAAGAACTCCAGAACTGGAATTCTGCCGCTGTGGATGCGCTCG
CTGAAGCCCTGGGATGCCGTCTCAAGTTCACCGGCTGCTTCCAGATGCGCTGCTGCTGCTGCTGC
CGCGTGTGCTGCCGCGCTGCTGCTTGGTGTGTGGCTGCCCAAGTGTGCCGCTGCAGCAAGTGTGC
GAGGACTTGGAGGAGGCGCAGGAGGGGAGGATGTCCCTGTCAAGGCTCCTGAGACCTTTGATAACATA
ACCATTAGCAGAGAGGCTCAGGGTGTGGTCCCTGCCTCGGACTCAAGACCGAATGCACGGCCTTGTAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
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Restriction Sites: SgfI-RsrII
 ACCN: NM_001177998
 Insert Size: 2070 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001177998.1](#)

RefSeq Size: 4164 bp

RefSeq ORF: 2070 bp

Locus ID: 10568

UniProt ID: [O95436](#)

Cytogenetics: 4p15.2

Protein Families: Transmembrane

MW: 75.6 kDa

Gene Summary:

The protein encoded by this gene is a pH-sensitive sodium-dependent phosphate transporter. Phosphate uptake is increased at lower pH. Defects in this gene are a cause of pulmonary alveolar microlithiasis. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, May 2010]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is 1 aa shorter compared to isoform a. Variants 2 and 3 both encode the same isoform (b).

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.