

Product datasheet for **RC230328**

SLC34A3 (NM_001177316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC34A3 (NM_001177316) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC34A3
Synonyms:	HHRH; NPTIIc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC230328 representing NM_001177316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGAGTTCCTTCCCGGCAGCCAGGTCCTCCACCCCACTCTGGACGCGGTTGACCTAGTGAAAAGA
 CTCTGAGGAATGAAGGGACCTCCAGTCTGCTCCAGTCTTGAGGAAGGGGACACAGACCCTGGACCCT
 CCCTCAGCTGAAGGACACAAGCCAGCCCTGAAAAGAGCTCCGCGTGGCCGGCAGGCTGCGCCGCTGGCC
 GGCAGCGTCTCAAGGCCTGCGGGCTCCTCGGCAGCCTGTACTTCTTCTCATCTGCTCTGGACGCTCTCA
 GCTCCGCCTTCCAGTCTGGGAGCAAAGTGGCCGGAGACATCTCAAGGACAACGTGGTGTGTCCAA
 CCCTGTGGCTGGACTGGTATTGGCGTGTGGTACAGCCCTGGTGCAGAGTTCAGCACGTCTCTCTCC
 ATCGTGGTCAAGTGGTGTGTAAGTGTGCTGACTGTCCGGGTGTCTGTGCCATCATCATGGGTGTCA
 ACGTAGGCACATCCATCACCAGCACCTGGTCTCAATGGCGCAGTCAGGGGACCGGGATGAATTTAGAG
 GGCTTTACAGCGGCTCGGCGGTGCACGGGATCTCAACTGGCTCACAGTGTGGTCTGCTGCCACTGGAG
 AGCGCCACGGCCCTGCTGGAGAGGCTAAGTGAGCTAGCCCTGGGTGCCGCCAGCCTGACACCCAGGGCGC
 AGGCGCCCGACATCCTCAAGGTGCTGACGAAGCCGCTCACACACCTCATCGTGCAGTTGGACTCCGACAT
 GATCATGAGCAGTGCACAGGCAACGCCACTAACAGCAGTCTCATTAAAGCACTGGTGCAGCACACGGGG
 CAGCCGACCCAGGAGAACAGCAGCTGTGGCGCCTTCGGCCCGTGCACAGAGAAGAACAGCACAGCCCGG
 CGGACAGGCTGCCCTGCCGCCACTGTTTGGCGGCAGGAGTCAAGGACCTGGCCGTGGGCTGCATCCT
 GCTGGCCGGTCCCTGCTGGTGTCTGCGGCTGCCTGGTCTCATAGTCAAGTGTCAACTCTGTGCTG
 CGCGCCCGCTGGCCAGGTCGTGAGGACAGTCAATGCGGACTTCCCCTTCCCGTGGGCTGGGCTCG
 GCGGCTACTGGCCGCTCCTCGCGGGCGCCGGCCTGACCTTCGCACTGCAGAGCAGCAGCTTCCACGGC
 GGCCGTGCTGCCCTCATGGGGTGTGGGGTGTAGTCTGGACCGGGCGTACCCCTCTTACTGGGCTCC
 AACATCGGACCACTACCACAGCCCTGCTGGTGCCTGGCCAGCCCGCAGACAGGATGCTCAGCGCC
 TGCAGGTGCCTCATCCACTTCTTCTCAACCTGGCCGGCATCCTGCTGTGGTACCTGGTGCCTGCACT
 GCGGCTGCCCATCCCGTGGCCAGGCACTTCGGGGTGGTACCGCCCGTACCCTGGGTGGTGGGCTC
 TACCTGCTGCTCGGATCCTGCTGCTGCCCTGGCGCCTTCGGGCTCTCCCTGGCAGGGGGCATGGTGC
 TGGCCGCTGTGGGGTCCCCTGGTGGGCTGGTGTCTCCTCGTATCCTGGTTACTGTCTGCAGCGGGC
 CCGGCCGCTGGTGCCTGTCCGCTGCGCTCCTGGGCTGGTCCCGTCTGGTCCATTCTCTGGAG
 CCCTGGGACCGCTGGTACCCGCTGCTGCCCTGCAACGTCTGCAGCCCCCGAAGGCCACCACCAAG
 AGGCTACTGCTACGAGAACCCTGAGATCTTGGCCTCCAGCAGTTG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230328 representing NM_001177316
 Red=Cloning site Green=Tags(s)

MPSSLPGSQVPHPTLDAVDLVEKTLRNEGTSAPVLEEGDTPWTLPLKQDTSQPWKELRVAGRLRRVA
 GSVLKACGLLGSLYFFICSLDVLSSAFQLLGSKVAGDIFKDNVLSNPVAGLVIGLVLTALVQSSSTSS
 IVVSMVAAKLLTVRVSPVIMGVNVTSTLVSMAQSGDRDEFQRAFSGSAVHGFNWLTVLVLLPLE
 SATALLERLSELALGAASLTPRAQAPDILKVLTKPLTHLIVQLSDMIMSSATGNATNSSLIKHWCGTTG
 QPTQENSSCGAFGPCTEKNSTAPADRLPCRHLFAGTELTDLAVGCILLAGSLLVLCGLVLIVKLLNSVL
 RGRVAQVVRTVINADFPFPLGWLGGYLAVLAGAGLTFALQSSSVFTAADVPLMGVGVISLDRAYPLLLGS
 NIGTTTTALLAALASPADRMLSALQVALIHFFNLAGILLWYLPALRLPIPLARHFGVVTARYRWVAGV
 YLLLGFLLLPLAAFGLSLAGGMVLAAGVGPLVGLVLLVILVTVLQRRRPAPLVPRLRSWAWLPVWLHSL
 PWDRLVTRCCPCNVCSPPKATTKEAYCYENPEILASQQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8069_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177316

ORF Size: 1797 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_001177316.1](#), [NP_001170787.1](#)

RefSeq ORF: 1800 bp

Locus ID: 142680

UniProt ID: [Q8N130](#)

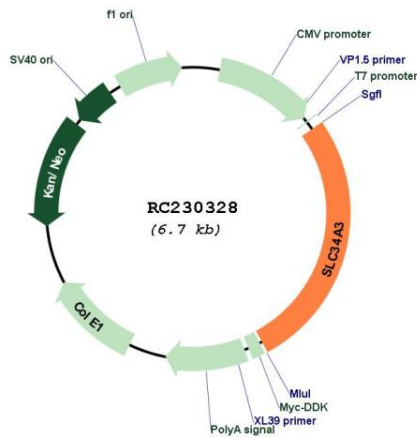
Cytogenetics: 9q34.3

Protein Families: Transmembrane

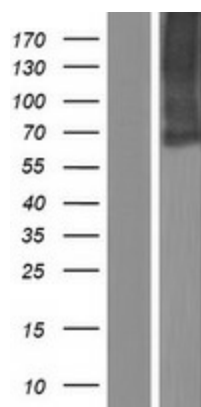
MW: 64 kDa

Gene Summary: This gene encodes a member of SLC34A transporter family of proteins, and is expressed primarily in the kidney. It is involved in transporting phosphate into cells via sodium cotransport in the renal brush border membrane, and contributes to the maintenance of inorganic phosphate concentration in the kidney. Mutations in this gene are associated with hereditary hypophosphatemic rickets with hypercalciuria. Alternatively spliced transcript variants varying in the 5' UTR have been found for this gene.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RC230328



Western blot validation of overexpression lysate (Cat# [LY433328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230328 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).