

Product datasheet for **RC208782**

SLC34A1 (NM_003052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC34A1 (NM_003052) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC34A1
Synonyms:	FRTS2; HCINF2; NAPI-3; NPHLOP1; NPT2; NPTIIa; SLC11; SLC17A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC208782 representing NM_003052
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTTGTCTACGAGAGAGGCTGGGGTCCCCTGCTGTCTCCCACTCCCAGTCCGTGGGGGCATGTGA
 TGCAGGGGACGGCCTTTGCCTACGTGCCAGCCCTCAGGTCTACACAGGATCCCGGGGACCTCTGCCTA
 TGCTTTCCCCAGCCTGGGCCCTGTGGCCCTTGCTGAGCACACCTGCCCTGTGGGAGGTCTGGAGCGC
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 GCCATCCTGTCCAACCCGGTGGCCGGGCTGGTGGTGGGGATCCTGGTGACCGTGTGGTGCAGAGCTCCA
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 CCGTGTACCAACAATGCCACCCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC208782 representing NM_003052
 Red=Cloning site Green=Tags(s)

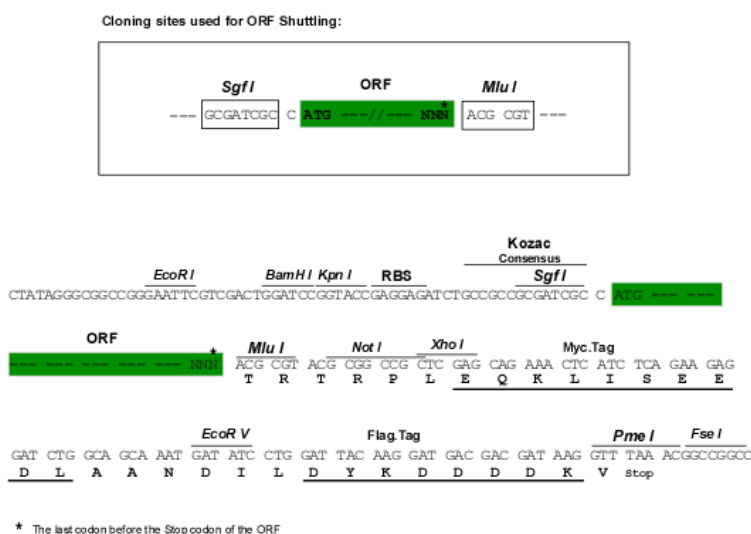
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VPCTRLPIRMAKALGKRTAKYRWFAVL YLLVCFLLLP SLVFGISMAGWQVMVGVTGPFALLAFVVLINV
LQSRSPGHLPKWLQTWDFLPRWMHSLKPLDHLITRATLCCARPEPRSPPLPRVFLEELPPATPSPRLAL
PAHHNATRI

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4530_d07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 003052

ORF Size: 1917 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003052.5](#)

RefSeq Size: 2677 bp

RefSeq ORF: 1920 bp

Locus ID: 6569

UniProt ID: [Q06495](#)

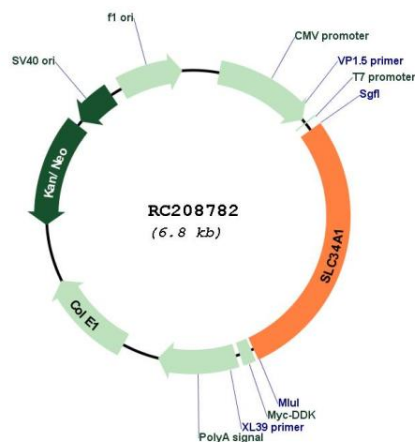
Cytogenetics: 5q35.3

Protein Families: Transmembrane

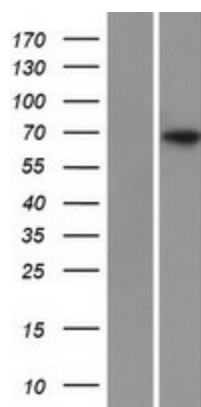
MW: 68.8 kDa

Gene Summary: This gene encodes a member of the type II sodium-phosphate cotransporter family. Mutations in this gene are associated with hypophosphatemia nephrolithiasis/osteoporosis 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC208782



Western blot validation of overexpression lysate (Cat# [LY418920]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208782 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).