

Product datasheet for **MR207427**

Slc17a1 (NM_009198) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a1 (NM_009198) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc17a1
Synonyms:	NAPI-1; Napi1; Npt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207427 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGAACCAGTGCCTCCCAAGAAAGTTCAGGGTTCTGTTCTTCCGGTATGGACTGGCTATCCTTC
 TGCACCTTCTGTAACATTGCCATCATGGCCAGAGAGTGTGCTGAACCTACCATGGTAGCCATGGTGAA
 CAACACAGGGTCACCCCATTTATTTAACGAATCTGTAGTGGAGATGTTGGACAATGTAAAGAACCCTGTG
 TATTCCTGGAGTCCTGATATCCAAGGGCTTATTCTCAGTTCTGTCTTCTTTGGTATGGTCGTGGTTCAGG
 CTCCTGTCGGGTACCTATCTGGAATATACCAATGAAGAGAATAATTGGGTCTTCACTGTTCTCAGCTC
 TTTGATGTCCTTGTCTATCCACCTGCTGCACAAGTCGGAGCTGCTTTAGTCATTGTGTGTCGAGTACTC
 CAGGGAATAGCCAGGGAACAGTGTCAACAGGCCAGCATGAAATATGGGTCAAATGGGCACCTCCCTTAG
 AACGAGGCAGACTTACCTCTATGACTCTATCAGGGTTTGAATGGGACCATTATTGTCTGCTTGTGAG
 TGGCTTCATCTGTGATCTTCTGGGCTGGCCATGGTCTTCTACATCTTTGGTATTGTTGGGTGTGTTCTG
 AGTCTTTCTGTTCTTTCTATTCTTTGATGACCCCAAGGACCACCCGTATATGAGCAGCAGTGAGAAGG
 ACTACATCATATCCTCCCTCATGCAACAGGCCAGCTCAGGCAGACAATCCCTGCCAATCAAAGCTATGCT
 TAAATCTCTTCCACTCTGGGCCATTATCCTCAATAGCTTTGCTTTTATATGGTCGAACAGTCTCCTGGTT
 ACATACACGCCGACATTTATCAGCACTGTGCTTCAATGTTAATGTTAGAGAGAATGGACTGCTGTCCAGCC
 TCCCTATCTGCTTGCCTACATCTGTGGTATCCTAGCAGGTGATGTCAGACTTCTTCTGACCAGGAA
 GATTTTCAGCATAGTTACCGTCCGGAACCTCTTACCACACTAGGGAGTTTCTGTCCCGTATCTTCATC
 ATGTGCTTGTCTACCTGAGCTACAACCTTACAGCACCGTCATTTTCTGACACTTGCCAACTCAACAC
 TTAGCTTTTCTACTGCGGACAACTTATCAATGCCTTGGATATTGCTCCAGATATTATGGATTTCTTAA
 GGCAGTCACAGCTTTAATTGGAATGTTTGGGGCCTGATTCTTCAACTCTTGGGTTGATTCTTAAT
 CAGGATCCGGAATATGCTTGGCATAAAATTTCTTCTTGTATGGCAGGCATTAATGTGACATGCCTGGTTT
 TCTATTTTCTATTTGCTAAAGGAGAAATTCAGGACTGGGCTAAAGAAATAAAACACACGACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207427 protein sequence
 Red=Cloning site Green=Tags(s)

MENQCLPKKVPGFCSFRYGLAILLHFCNIAIMQVRVCLNLTVMAMVNNTGSPHLFNESSVVEMLDNVKNPV
 YSWSPDIQGLILSSVFFGMVVVQAPVGYLSGIYPMKRIIGSSLFLSSLSLLIPPAQVGAALVIVCRVL
 QGIAQGTVSTGQHEIWVKWAPPLERGLTSMTLSGFVMGPFIVLLVSGFICDLLGWPMVFYIFGIVGCVL
 SLSWFFLFFDDPKDHPYMSSEKDYIISSLMQQASSGRQSLPIKAMLKSLPLWAILNSFAFIWSNLLV
 TYTPTFISTVLHVNRENGLLSSLPYLLAYICGILAGQMSDFLTRKIFSIIVTVRKLFTTLGSFCPVIFI
 MCLLYLSYNFYSTVIFLTLANSTLSFSYCGQLINALDIAPRYYGLKAVTALIGMFGLISSTLAGLILN
 QDPEYAWHKIFFLMAGINVTCLVFYFLFAKGEIQDWAKEIKTTRL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009198

ORF Size: 1395 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_009198.2](#), [NP_033224.2](#)

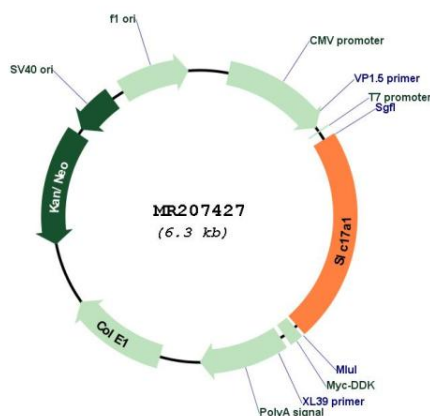
RefSeq Size: 2049 bp

RefSeq ORF: 1398 bp

Locus ID: 20504

UniProt ID:	<u>Q61983</u>
Cytogenetics:	13 9.97 cM
MW:	51.7 kDa
Gene Summary:	Important for the resorption of phosphate by the kidney. May be involved in actively transporting phosphate into cells via Na(+) cotransport in the renal brush border membrane. Plays a role in urate transport in the kidney.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207427