

Product datasheet for **MG223728**

Slc17a1 (NM_001170638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a1 (NM_001170638) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc17a1
Synonyms:	NAPI-1; Napi1; Npt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223728 representing NM_001170638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGAACCAGTGCCTCCCAAGAAAGTTCCAGGGTTCTGTTCCCTCCGGTATGGACTGGCTATCCTTC
 TGCACTTCTGTAACATTGCCATCATGGCCAGAGAGTGTGCCTGAACCTACCATGGTAGCCATGGTGAA
 CAACACAGGGTACCCCCATTTATTTAACGAATCTGTAGTGGAGATGTTGGACAATGTAAAGAACCCTGTG
 TATTCCTGGAGTCTGATATCCAAGGGCTTATTCTCAGTCTGTCTTCTTTGGTATGGTCGTGGTTCAGG
 CTCCTGTCGGGTACCTATCTGGAATATACCCAATGAAGAGAATAATTGGGTCTTCACTGTTCTCAGCTC
 TTTGATGTCCTTGCTCATCCACCTGCTGCACAAGTGGAGCTGCTTTAGTCATTGTGTGTCGAGTACTC
 CAGGGAATAGCCAGGGAACAGTGTCAACAGGCCAGCATGAAATATGGGTCAAATGGGCACCTCCCTTAG
 AACGAGGCAGACTTACCTCTATGACTCTATCAGGGTTTGAATGGGACCATTTATTGTCCTGCTTGTGAG
 TGGCTTCACTGTGATCTTCTGGGCTGGCCATGGTCTTCTACATCTTTGGTATTGTTGGGTGTGTTCTG
 AGTCTTTCTGGTCTTTCTATTCTTTGATGACCCCAAGGACCACCCGTATATGAGCAGCAGTGAGAAGG
 ACTACATCATATCCTCCCTCATGCAACAGGCCAGCTCAGGCAGACAATCCCTGCCAATCAAAGCTATGCT
 TAAATCTCTTCCACTCTGGGCCATTATCCTCAATAGCTTTGCTTTTATATGGTCGAACAGTCTCCTGGTT
 ACATACACGCCGACATTTATCAGCACTGTGCTTCAATGTTAATGTTAGAGAGAATGGACTGCTGTCCAGCC
 TCCCTATCTGCTTGCCTACATCTGTGGTATCCTAGCAGGTGAGTGTGAGACTTCTTCTGACCAGGAA
 GATTTTACAGCATGTTACCGTCCGGAACCTTCCACCACACTAGGGAGTTTCTGTCCCGTATCTTATC
 ATGTGCTTGTCTACCTGAGCTACAATCTACAGCACCCTGATTTTCTGACACTTGCCAACTCAACAC
 TTAGCTTTTCTACTGCGGACAACCTTCAATGCCTTGGATATTGCTCCAGATATTATGGATTTCTTAA
 GGCAGTACAGCTTTAATTGGAATGTTTGGGGCCTGATTTCTTCAACTCTTGGGGTTGATTCTTAAT
 CAGGATCCGGAATATGCTTGGCATAAAAATTTTCTTCTTGTGATGGCAGGCATTAATGTGACATGCTGGTT
 TCTATTTTCTATTTGCTAAAGGAGAAATTCAGGACTGGGCTAAAGAAATAAAAACACACGACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223728 representing NM_001170638
 Red=Cloning site Green=Tags(s)

MENQCLPKKVPGFCSFRYGLAILLHFCNIAIMQRVCLNLTMVAMVNNTGSPHLFNESVVEMLDNVKNPV
 YSWSPDIQGLILSSVFFGMVVVQAPVGYLSGIYPMKRIIGSSLFLSSLSLLIPPAQVGAALVIVCRVL
 QGIAQGTVSTGQHEIWVKWAPPLERGLTSMTLSGFVMGPFIVLLVSGFICDLLGWPMVFYIFGIVGCVL
 SLSWFFLFFDDPKDHPYMSSEKDYIISLMLQQASSGRQSLPIKAMLKSLPLWAILNSFAFIWSNLLV
 TYTPTFISTVLHVNRENGLLSSLPYLLAYICGILAGQMSDFLTRKIFSIVTVRKLFTTLGSPVIFI
 MCLLYLSYFYSTVIFLTLANSTLSFSYCGQLINALDIAPRYYGFLKAVTALIGMFGGLISSTLAGLILN
 QDPEYAWHKIFFLMAGINVTCLVFYFLFAKGEIQDWAKEIKTTRL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001170638

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.

RefSeq: [NM_001170638.1](#), [NP_001164109.1](#)

RefSeq Size: 1957 bp

RefSeq ORF: 1398 bp

Locus ID: 20504

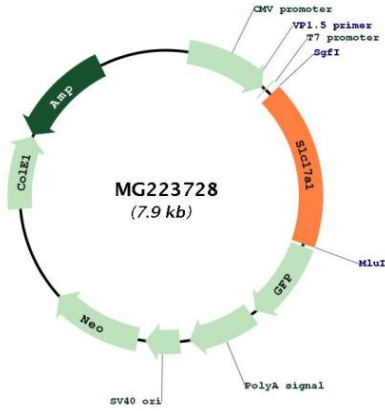
UniProt ID: [Q61983](#)

Cytogenetics: 13 9.97 cM

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 MG223728