

## Product datasheet for **MG207427**

### **Slc17a1 (NM\_009198) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc17a1 (NM_009198) 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:**

>MG207427 representing NM\_009198  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAACCAGTGCCTCCCAAGAAAGTTCCAGGGTTCTGTTCCCTCCGGTATGGACTGGCTATCCTTC  
 TGCACTTCTGTAACATTGCCATCATGGCCAGAGAGTGTGCCTGAACCTACCATGGTAGCCATGGTGAA  
 CAACACAGGGTACCCCATTTTATTAACGAATCTGTAGTGGAGATGTTGGACAATGTAAAGAACCCTGTG  
 TATTCCTGGAGTCTGATATCCAAGGGCTTATTCTCAGTCTGTCTTCTTTGGTATGGTCGTGGTTCAGG  
 CTCCTGTCGGGTACCTATCTGGAATATACCCAATGAAGAGAATAATTGGGTCTTCACTGTTCTCAGCTC  
 TTTGATGTCCTTGCTCATCCACCTGCTGCACAAGTGGAGCTGCTTTAGTCATTGTGTGTCGAGTACTC  
 CAGGGAATAGCCAGGGAACAGTGTCAACAGGCCAGCATGAAATATGGGTCAAATGGGCACCTCCCTTAG  
 AACGAGGCAGACTTACCTCTATGACTCTATCAGGGTTTGAATGGGACCATTTATTGTCCTGCTTGTGAG  
 TGGCTTACATCTGTGATCTTCTGGGCTGGCCATGGTCTTCTACATCTTTGGTATTGTTGGGTGTGTTCTG  
 AGTCTTTCTGGTCTTTCTATTCTTTGATGACCCCAAGGACCACCCGTATATGAGCAGCAGTGAGAAGG  
 ACTACATCATATCCTCCCTCATGCAACAGGCCAGCTCAGGCAGACAATCCCTGCCAATCAAAGCTATGCT  
 TAAATCTCTTCCACTCTGGGCCATTATCCTCAATAGCTTTGCTTTTATATGGTCGAACAGTCTCCTGGTT  
 ACATACACGCCGACATTTATCAGCACTGTGCTTCAATGTTAATGTTAGAGAGAATGGACTGCTGTCCAGCC  
 TCCCTATCTGCTTGCCTACATCTGTGGTATCCTAGCAGGTCAGATGTCAGACTTCTTCTGACCAGGAA  
 GATTTTACAGCATGTTACCGTCCGAAACTCTTACCACACTAGGGAGTTTCTGTCCCGTATCTTATC  
 ATGTGCTTGTCTACCTGAGCTACAATCTACAGCACCCTGATTTTCTGACACTTGCCAACTCAACAC  
 TTAGCTTTTCTACTGCGGACAACCTTCAATGCCTTGGATATTGCTCCAGATATTATGGATTTCTTAA  
 GGCAGTACAGCTTTAATTGGAATGTTTGGGGCCTGATTTCTTCAACTCTTGGTGGTTGATTCTTAAT  
 CAGGATCCGGAATATGCTTGGCATAAAAATTTTCTTCTTGTGATGGCAGGCATTAATGTGACATGCTGGTT  
 TCTATTTTCTATTTGCTAAAGGAGAAATTCAGGACTGGGCTAAAGAAATAAAAACACACGACTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG207427 representing NM\_009198  
 Red=Cloning site Green=Tags(s)

MENQCLPKKVPGFCSFRYGLAILLHFCNIAIMQRVCLNLTMVAMVNNTGSPHLFNESVVEMLDNVKNPV  
 YSWSPDIQGLILSSVFFGMVVVQAPVGYLSGIYPMKRIIGSSLFLSSLSLLIPPAQVGAALVIVCRVL  
 QGIAQGTVSTGQHEIWVKWAPPLERGLTSM T LSGFVMGPFIVLLVSGFICDLLGWPMVFYIFGIVGCVL  
 SLSWFFLFFDDPKDHPYMSSEKDYIISSLMQQASSGRQSLPIKAMLKSLPLWAIILNSFAFIWSNLLV  
 TYTPTFISTVLHVNRENGLLSSLPYLLAYICGILAGQMSDFLTRKIFSIVTVRKLFTTLGSFCPVIFI  
 MCLLYLSYFYSTVIFLTLANSTLSFSYCGQLINALDIAPRYYGFLKAVTALIGMFGGLISSTLAGLILN  
 QDPEYAWHKIFFLMAGINVTCLVFYFLFAKGEIQDWAKEIKTTRL

**TRTRPLE - GFP Tag - V**

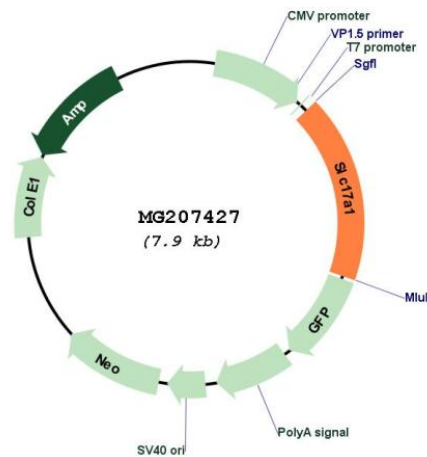
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_009198.2</a></u> , <u><a href="#">NP_033224.2</a></u>
<b>RefSeq Size:</b>	2004 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	20504
<b>UniProt ID:</b>	<u><a href="#">Q61983</a></u>
<b>Cytogenetics:</b>	13 9.97 cM
<b>Gene Summary:</b>	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]