

## Product datasheet for **MR208627**

### Slc22a7 (NM\_144856) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Slc22a7 (NM_144856) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | Slc22a7                                    |
| Synonyms:                 | NLT; OAT2                                  |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**ORF Nucleotide Sequence:**

>MR208627 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)  
 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGCTTCAAGAGCTGCTGCACAAGGTGGTGGCTTTGGCCCTTCCAACGCGGAATCTGGTGTCTGC  
 TGGCCCTGCCCGATTCTGCTCCCGATGCATTTCTCCTGCCATCTTCATGGCTGCTGTGCCCTGCCCA  
 TCATTGTGCCCTGCCTGATGCCCCAGCCAACCTCAGTCACCAGGACTTGTGGCTGAAAACCCATCTACCC  
 CGGGAGACTGACGGCAGCTTTAGTTCTGCCTCCGCTTTGCCTATCCCCAGGCTCTTCCAATGTCACCT  
 TGGGAACAGAGGTGTACAACCTGAGGAGCCTGAGGGTGGCCCTCACAGTGCCTGCTCCAGGGCTG  
 GGAGTACGACCGCTCAGAATTCTTCCACCATTGCAACTGAGTGGGATCTGGTGTGTGAGCAGAGAGGC  
 CTGAACAAAGTTACATCCACGTCTTCTCATCGGCTGCTGCTGGGGCTGTGGTGTACGGATACTTGT  
 CTGACAGTTTTGGCCGGCGCCGGCTTCTGCTGGTGGCCTACGTGAGCACCTGGCCTGGCCTGATGTC  
 TGCAGCCTCGGTCAACTACATCATGTTTGTACCACCCGCATGCTCACCGGCTCAGCCCTGGCTGGTTTT  
 ACCATCATTGTACTTCGTTGGAGTTAGAGTGGCTGGATGTGGAGCACCGCACTGTGGCTGGGGTCA  
 GCACCACCTTCTGGACAGGAGGGTGTGCTGCTGACCCTGGTTGGGTACCTGATACGGAGCTGGCGGTG  
 GCTTCTGCTAGCTGCCACTCTGCCATGTGTCCCGGCATCATTAGCATCTGGTGGGTACCTGAGTCTGCA  
 CGATGGCTTCTAACCCAGGGTCTGTGGAGGAGGCAAAAAAGTACCTGTCCATCTGTGCCAAGCTCAATG  
 GCGGCCCATAAAGTGAAGGACAGCCTGAGCCAGGAGGCTCTGAACAAAGTATCACCATGGAAAGGGTGT  
 GCAAAGACCCTCGTACTTAGACCTGTTCCGGACATCGCAGCTCCGACACGTCTCACTGTGCTGCATGATG  
 ATGTGGTTTGGAGTGAACTTTTCTACTACGGCCTGACTCTGGACGCGTCCGGGCTGGGGCTGACCGTGT  
 ACCAGACACAGCTGCTGTTCCGGGCTGTGGAGGTGCCTTCCAAAATTACGGTCTTCTTCTTGTGGCTCT  
 CGTGGGACGCCCTCACAGAGGCTGGGATGCTGCTGGCCACTGCTCTGACCTTCGGCATCAGCCTGCTG  
 GTGCTCCTCGGACACCAAGTCTTGGATCACTGCTCTGGTGGTATAGGAAAGCTTTTTCTGAAGCAGCCT  
 TTAACACAGCCTACCTGTTACGCTCTGAGTTGTACCCTACTGTGCTCAGACAGACAGGAATGGGATTAC  
 TGCATCATAGGCCGGCTAGGGGCTCTCTGGCCCACTGGTGGTCTTGTGGATGGAGTGTGGCTGTTA  
 CTGCCAAACTTGCTTATGGGGGATTTCTTCTGGCTGCCTGACTGTACTCTGCTGCCTGAGACGA  
 AGAAAGCACAGCTGCCAGAGACCATCCAGGACGTGAAAGAAAGGGGAGGAAGATAGACAGATCCGGGAC  
 TGAATTAGCC

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>MR208627 protein sequence  
 Red=Cloning site Green=Tags(s)

MGFEELLHKVGGFQPLRNLVLLALPRFLLPMHFLLPIFMAAVPAHHCALPDAPANLSHQDLWLKTHLP  
 RETDGSFSSCLRFAYPQALPNVTLGTEVYNSGEPGEPLTVPCSQGWYDRSEFSSTIATEWDLVCEQRG  
 LNKYVSTCFFIGVLLGAVVYGYLSDRFRRRLLLVAIVSTLALGLMSAASVNYIMFVTRMLTGSALAGF  
 TIIIVLPLELEWLDVEHRTVAGVISTTFWTGGVLLLTLVGYLIRSWRLLLAATLPCVPGIISIWWVPESA  
 RWLLTQGRVEEAKKYLISAKLNGRPISEDSLSEALNKVITMERVSQRPSYLDLFRTSQLRHVSLLCMM  
 MWFVNFVSYGLTLDASGLGLTVYQTQLLFGAVEVPSKITVFFLVRLVGRRLTEAGMLLATALTFGISLL  
 VSSDTKSWITALVVGKAFSEAAFTAYLFTSELYPTVLRQTMGFTALIGRLGASLAPLVLLDGVWLL  
 LPKLAYGGISFLAACTVLLLPEKKAQLPETIQDVERKGRKIDRSGETLA

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

Cloning Scheme:



ACCN: NM\_144856

ORF Size: 1623 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\\_144856.1](#), [NP\\_659105.1](#)

RefSeq Size: 2007 bp

RefSeq ORF: 1623 bp

Locus ID: 108114

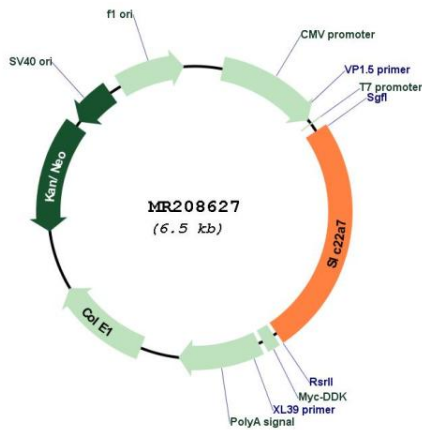
UniProt ID: [Q91WU2](#)

**Cytogenetics:** 17 C

**MW:** 59.6 kDa

**Gene Summary:** Mediates sodium-independent multispecific organic anion transport. High affinity transport of glutarate and prostaglandin E2 in a sodium-independent manner. Mediates also the uptake of alpha-ketoglutarate, p-aminohippuric acid, methotrexate, ochratoxin A, valproate, allopurinol and bumetanide.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208627