

## Product datasheet for **MR207224**

### **Slc7a4 (BC016100) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc7a4 (BC016100) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc7a4
Synonyms:	MGC27672
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207224 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCGGGACTGCCAGTACTGCCTGTTTGGCAGCCTTCTGCCAGAACTGAACCGTCTGAAGCCAC  
 TGAAGAGTCTAGCATGGAGACATCACTGCGGCGCTGCCTGTCCACACTGGACTTACTGACTCTACTGGGTGT  
 GGGTGGCATGGTGGGATCTGGGCTCTATGTGCTCACAGGCACAGTGGCCAAGGACATGGCTGGCCCCGCT  
 GTGCTCTGTCTCTTTTGGTGGCCGCTGTAGCCTCCCTGCTGGCGGCCCTATGCTATGCAGAGTTTGGAG  
 CCCGTGTGCCCGTACTGGCTCAGCATACTATTACGTACGTGTCCATGGGGGAGATATGGGCATTCTCT  
 CATAGGCTGGAATGTGCTTCTAGAATACCTCATTGGAGGTGCCGCTGTAGCCCGTGCCTGGAGTGGCTAT  
 TTGGATGCCATCTTTAACACAGCATTGCAACTTACGGAGTCTCACCTGGGCGTCTGGCAGGTGCCCT  
 TCCTAGCTCACTATCCAGATTTTCTGGCCGCTGGCATTCTACTCGTGGCTTCTGCCTTTGTCTCCTGCGG  
 AGCCCCGAGTCTCCTCCTGGCTTAATCACACGTTCTCAGCCATCAGTCTGATTGTGATCCTCTTCATCATT  
 GTCTGGGTTTCACTCCTGGCCCGTCTCACAACCTGGAGTGCAGAAAGAGTGGTTTCGCACCCCTCGGCT  
 TCTCTGGCATCCTGGCTGGCACAGCCACCTGTTTCTATGCCTTCGTGGGATTTGATGTTATTGTGCCTC  
 CAGTGAGGAGGCCAAAACCCACGGTGGGCGGTGCCATCGCCATCTCCCTCAGCCTGGCAGCT  
 GGTGCCTATATTCTGGTCTCCACTGTGTTAACCTCATGGTACCTGGCAGCCTAGACCCTGACTCGG  
 CGCTTGTGTAGCTTTCTACAGCGGGGTTACAGCTGGGTGGCTTCATTGTGGCAGTTGGCTCTATCTG  
 TGCCATGAACACCGTCTGCTCAGCAACCTCTTCCCTGCCGCGCATTGTCTACGCCATGGCTGCCGAT  
 GGGCTCTTCTCCAGGTGTTGCCCGTGTACACCCCGGACACAGCCTCCTGGTCTGGGGGCTCATCAG  
 CAGCAAAAGAAGCAAGACACTTCCAGATCCCTTTGGTGCCCTGACTCCAGCCCTGAGCATCCTTCTCA  
 ACACCTTGCTCATGCTGAAGCTGAGCTACCTGACCTGGCTACGCTTTATCTTCTGGCTGCTGGTCCGGACT  
 TGTCTGTATTTTGGCTATGGCATCTGGCACAGCAAGGAGAACCAGAGGGAGCCATTGGAGCTGACTACA  
 GCACACTACGTGGTATTTCCAGCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207224 protein sequence  
 Red=Cloning site Green=Tags(s)

MARGLPSTACLARFCQKLNRLKPLEESSMETSLRRCLSTLDLTLGLVGGMVGSGLYVLTGTVAKDMAGPA  
 VLLSFLVAVASLLAALCYAEFGARVPRTGSAFLFTYVSMGEIWAFLIGWNVLLLEYLIGGAAVARAWSGY  
 LDAIFNHSIRNF TESH LGVWQVPFLAHYPDFLAAGILLVASAFVSCGARVSSWLNHTFSAISLIVILFII  
 VLGFI LARPHNWSAEEGGFAPFGFSGILAGTATCFYAFVGFVDVIAASSEEAKNPRWAVPMAIAISLSLAA  
 GAYILVSTVLTLMVPWHS LDPDSALADAFYRRGYSWAGFIVAVGSICAMNTVLLSNLFSLPRIVYAMAAD  
 GLFFQV FARVHPRTQPPGPGSSAAKEARHFDPDFGAPDSSPEHPSQHLPHAEAEPLDLATLYLLAAGRT  
 CRVFWLWHLAQQGEPEGAIGADYSTLRGIPQR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: BC016100

ORF Size: 1356 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: [BC016100](#), [AAH16100](#)

RefSeq Size: 1921 bp

RefSeq ORF: 1358 bp

Locus ID: 224022

Cytogenetics: 16 A3

**MW:** 48.5 kDa

**Gene Summary:** Involved in the transport of the cationic amino acids (arginine, lysine and ornithine).  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207224