

## Product datasheet for **MG207224**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc7a4 (BC016100) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc7a4
Synonyms:	MGC27672
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207224 representing BC016100  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCGGGACTGCCAGTACTGCCTGTTTGGCAGCCTTCTGCCAGAACTGAACCGTCTGAAGCCAC  
 TGAAGAGTCTAGCATGGAGACATCACTGCGGCCGTGCCTGTCCACACTGGACTTACTGACTCTACTGGGTGT  
 GGGTGGCATGGTGGGATCTGGGCTCTATGTGCTCACAGGCACAGTGGCCAAGGACATGGCTGGCCCCGT  
 GTGCTCTGTCTTTTTGGTGGCCGCTGTAGCCTCCCTGCTGGCGGCCCTATGCTATGCAGAGTTTGGAG  
 CCCGTGTCCCCGTACTGGCTCAGCATACTATTACGTACGTGTCCATGGGGGAGATATGGGCATTCTCT  
 CATAGGCTGGAATGTGCTTCTAGAATACCTCATTGGAGGTGCCGCTGTAGCCCGTGCCTGGAGTGGCTAT  
 TTGGATGCCATCTTTAACACAGCATTGCAACTTCACGGAGTCTCACCTGGCGCTGGCAGGTGCCCT  
 TCCTAGCTCACTATCCAGATTTTCTGGCCGCTGGCATTACTCTGTGGCTTCTGCCTTTGTCTCCTGCGG  
 AGCCCCGAGTCTCCTCCTGGCTTAATCACACGTTCTCAGCCATCAGTCTGATTGTGATCCTCTTCATCATT  
 GTCTGGGTTTCACTCTGGCCCGTCTCACAACCTGGAGTGCAGAAAGAAGTGGTTTCGCACCCTTCGGCT  
 TCTCTGGCATCCTGGCTGGCACAGCCACCTGTTTCTATGCCTTCGTGGGATTTGATGTTATTGCTGCCTC  
 CAGTGAGGAGGCCAAAACCCACGGTGGGCGGTGCCATCGCCATCTCCCTCAGCCTGGCAGCT  
 GGTGCCTATATTCTGGTCTCCACTGTGTTAACCTCATGGTACCTGGCACAGCCTAGACCCTGACTCGG  
 CGCTTGTGTAGCTTTCTACAGCGGGGTTACAGCTGGCTGGCTTCATTGTGGCAGTTGGCTCTATCTG  
 TGCCATGAACACCGTCTGCTCAGCAACCTTCTCCCTGCCGCGCATTGTCTACGCCATGGCTGCCGAT  
 GGGCTCTTCTCCAGGTGTTGCCCGTGTACACCCCGGACACAGCCTCCTGGTCTGGGGGCTCATCAG  
 CAGCAAAAGAAGCAAGACACTTCCAGATCCCTTTGGTGGCCCTGACTCCAGCCCTGAGCATCCTTCTCA  
 ACACTTGCCTCATGCTGAAGCTGAGCTACCTGACCTGGCTACGCTTTATCTTCTGGCTGCTGGTCCGACT  
 TGTCGTGATTTTGGCTATGGCATCTGGCACAGCAAGGAGAACCAGAGGGAGCCATTGGAGCTGACTACA  
 GCACACTACGTGGTATTTCCAGCGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207224 representing BC016100  
 Red=Cloning site Green=Tags(s)

MARGLPSTAALARFCQKLNRLKPLEESSMETSLLRRLSTLDLTLGLVGGMVGSGLYVLTGTVAKDMAGPA  
 VLLSFLVAAVASLLAALCYAEFGARVPRTGSAFLFTYVSMGEIWAFLIGWNVLLLEYLIGGAAVARAWSGY  
 LDAIFNHSIRNF TESH LGVWQVPFLAHYPDFLAAGILLVASAFVSCGARVSSWLNHTFSAISLIVILFII  
 VLGFILARPHNWSAEEGGFAPFGFSGILAGTATCFYAFVGFVDVIAASSEEAKNPRWAVPMAIAISLSLAA  
 GAYILVSTVLTLMVPWHS LDPDSALADAFYRRGYSWAGFIVAVGSICAMNTVLLSNLFSLPRIYAMAAD  
 GLFFQV FARVHPRTQPPGPGSSAAKEARHPDPFGAPDSSPEHPSQHLPHAEAEPLDLATLYLLAAGRT  
 CRVFWLWHLAQQGEPEGAIGADYSTLRGIPQR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: BC016100

ORF Size: 1358 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

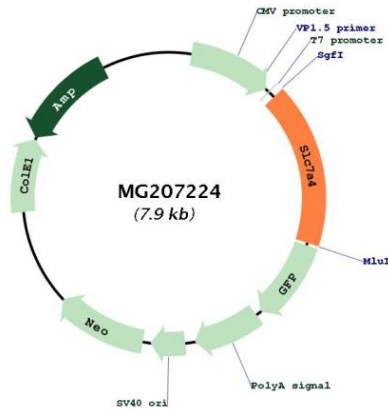
RefSeq ORF: 1358 bp

Locus ID: 224022

Cytogenetics: 16 A3

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

**Product images:**



Circular map for MG207224