

## Product datasheet for **MR227448**

### Slc6a4 (NM\_010484) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a4 (NM_010484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a4
Synonyms:	5-HTT; AI323329; Htt; Sert
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR227448 representing NM\_010484  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGACCACACCTTTGAATTCTCAGAAAGTGTCTGTCAGAGTGTAAAGACAAAGAGGACTGCCAAGAAA  
 ATGGTGTCTGCAGAAGGTGTCCACACCAGCAGACAAGGCAGGGCCTGGACAAATATCCAATGGGTA  
 CTCGCGAGTTCACAGTACAAGCGCTGGGGATGAAGCGCCACACTCTACGCCAGCTGCCACCACCACCTG  
 GTGGCTGAGATTCACCAAGGGGAACGGGAGACCTGGGGCAAGAAGATGGATTTCTCTGTCTGTATTG  
 GCTATGCCGTGGACCTGGGCAACATCTGGCGTTTTCCCTACATATGCTACCAGAATGGTGGAGGGCCTT  
 CCTCTCCCTTACACCATCATGGCCATCTTTGGGGGATCCCACTCTTCTACATGGAGCTCGCCCTGGGC  
 CAGTACCACCGAAATGGGTGCATTTCTATATGGAAGAAGATCTGCCCGATTTTCAAAGGCATTGGCTATG  
 CCATCTGCATCATTGCCTTTTATATCGCCTCTACTATAACACCATCATAGCCTGGGCGCTACTACCT  
 CATCTCCTCCTTACGGACCAGCTGCCCTGGACCAGCTGCAAGAACTCTTGAACACTGGCAACTGCACC  
 AACTACTTCGCCAGGACAACATCACCTGGACACTCCATTCCACGTCACCTGCTGAGGAGTTTTACTTGC  
 GCCATGTCCTGCAGATCCATCAGTCAAAGGGACTCCAGGACCTGGGGACCATCAGCTGGCAGCTGGCTCT  
 CTGCATCATGCTCATCTTACCATTATCTACTTCAGCATCTGAAAGGAGTCAAAACGTCTGGCAAGGTG  
 GTGTGGGTGACAGCCACCTTCCCTTACATTGTCCTTTCTGTCTGCTGGTGGAGGGGAGCCACCTTCCCTG  
 GAGCCTGGAGAGGGGTTGTCTTTACTTGAAACCAACTGGCAGAAACTCTTGGAGACAGGGGTGTGGGT  
 TGATGCTGCGGCTCAGATCTTTTCTCTTGGCCCGGGTTTGGGGTCTCTGGCGTTTGTAGCTAC  
 AACAAAGTCAACAACAACACTGTTACCAAGATGCCCTGGTGACCAGTGTGGTGAAGTGCATGACGAGCTTCG  
 TCTCTGGCTTTGTCATCTTACGGTGTGGCTACATGGCTGAGATGAGGAACGAAGACGCTGCCGAGTG  
 GGCCAAAGACCGGGCCCGCCAGCCTCCTTTTTCATCACATATGCGGAGGCAATAGCTAACATGCCAGCATCC  
 ACATTCTTTGCCATCATCTTCTCTCATGTTAATCACGCTGGGTTTGGATAGTACGTTCCGAGGCTGG  
 AAGGTGTGATCACAGCTGTGTTGGATGAGTTTCTCACATCTGGGCCAAGCGCAGGGAATGGTTTGTGCT  
 CATCGTGGTCACTTGCATCTTGGGATCCCTGCTCACACTGACATCAGGAGGGGCGTATGTGGTGAAC  
 CTGCTGGAGGAGTACGCCAGGGGCCAGCAGTGTCCCGTGGCTCTCATCGAGGCGTGTGTGCTT  
 GGTCTATGGAATCACTCAGTTCTGCAGCGACGTGAAGGAAATGCTGGGTTTCCAGCCCGGATGGTTTTG  
 GAGGATCTGCTGGTGGCCATCAGCCCTCTGTTTCTCTGTTTATCATTTTGCAGTTTTTGTAGTCCA  
 CCCCAACTCCGGTTTTTCAATACAATTATCCCCTGGAGTATCATCTTGGGCTACTGCATAGGAACAT  
 CGTCTGTATCTGCATCCCTATATACATATTTATCGGCTGATCAGCACTCCAGGACACTTAAGGAGCG  
 CATTATTAAGATCACTCTGAAACCAACGAAATTCCTGTGGGGACATCCGCATGAATGCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227448 representing NM\_010484  
 Red=Cloning site Green=Tags(s)

METPLNSQKVLSECKDKEDCQENGLVQKGVPTPADKAGPGQISNGYSAVPSTSAGDEAPHSTPAATTTL  
 VAEIHQGERETWGKMDLFSVIGYAVDLGNIWRFPYICYQNGGAFLLPYTIMAIFGGIPLFYMELALG  
 QYHRNGCISIWKKICPIFKGIGYAICIIAFYIASYYNTIIAWALYYLSSFTDQLPWTSCKNSWNTGNCT  
 NYFAQDNITWTLHSTSPAEFYLRLHVLQIHQSKGLQDLGTISWQLALCIMLIFTIIFYSIWKGVKTSKGV  
 VVVTATFPYIVLSVLLVRGATLPGAWRGVVFYLPNWKLLLETGVVWVDAQAIFSLGPGFVLLAFASY  
 NKFNNNCYQDALVTSVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPSLLFITAYAEIANMPAS  
 TFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHIWAKRREWFVLIIVITCILGSLTTLTSGGAYVVT  
 LLEEYATGPAVLTVALLIEAVVVSWFYGITQFCSDVKEMLGFSPGWFWRICWVAISPLFLFFIICSFLMSP  
 PQLRFLQYNYPHWSIILGYCIGTSSVICIPIYIIYRLISTPGLKERIISITPETPTEIPCGDIRMNAV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9014\\_d04.zip](https://cdn.origene.com/chromatograms/mm9014_d04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010484

**ORF Size:** 1890 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_010484.2](#), [NP\\_034614.2](#)

**RefSeq Size:** 2747 bp

**RefSeq ORF:** 1893 bp

**Locus ID:** 15567

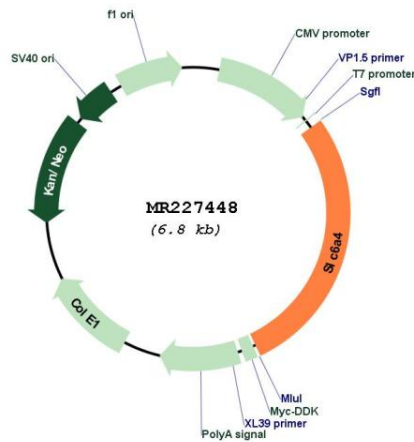
**UniProt ID:** [Q60857](#)

**Cytogenetics:** 11 46.18 cM

**MW:** 70.5 kDa

**Gene Summary:** Serotonin transporter whose primary function in the central nervous system involves the regulation of serotonergic signaling via transport of serotonin molecules from the synaptic cleft back into the pre-synaptic terminal for re-utilization. Plays a key role in mediating regulation of the availability of serotonin to other receptors of serotonergic systems. Terminates the action of serotonin and recycles it in a sodium-dependent manner. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR227448