

Product datasheet for **MG227448**

Slc6a4 (NM_010484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a4 (NM_010484) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc6a4
Synonyms:	5-HTT; AI323329; Htt; Sert
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227448 representing NM_010484
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGACCACACCTTTGAATTCTCAGAAAGTGTGTGTCAGAGTGTAAAGCAAAGAGGACTGCCAAGAAA
 ATGGTGTCTGCAGAAGGGTGTCCACACCAGCAGACAAGGCAGAGCCTGGACAAATATCCAATGGGTA
 CTCGCGAGTTCACAGTACAAGCGCTGGGGATGAAGCGCCACACTCTACGCCAGCTGCCACCACCACCTG
 GTGGCTGAGATTCACCAAGGGGAACGGGAGACCTGGGGCAAGAAGATGGATTTCTCTGTCTGTATTG
 GCTATGCCGTGGACCTGGGCAACATCTGGCGTTTTCCCTACATATGCTACCAGAATGGTGGAGGGCCTT
 CCTCTCCCTTACACCATCATGGCCATCTTTGGGGGATCCCGCTCTTCTACATGGAGCTCGCCCTGGG
 CAGTACCACCGAAATGGGTGCATTTCTATATGGAGGAAGATCTGCCCGATTTTCAAAGGCATTGGCTATG
 CCATCTGCATCATTGCCTTTTATATCGCCTCTACTATAACACCATCATAGCCTGGGCGCTACTACCT
 CATCTCCTCCTTACGGACCAGCTGCCCTGGACCAGCTGCAAGAACTCTTGAACACTGGCAACTGCACC
 AACTACTTCGCCAGGACAACATCACCTGGACACTCCATTCCACGTCACCTGCTGAGGAGTTTTACTTGC
 GCCATGTCCTGCAGATCCATCAGTCAAAGGGACTCCAGGACCTGGGGACCATCAGCTGGCAGCTGGCTCT
 CTGCATCATGCTCATCTTACCATTATCTACTCAGCATCTGAAAGGAGTCAAAACGTCTGGCAAGGTG
 GTGTGGGTGACAGCCACCTTCCCTTACATTGTCCTTTCTGTCTGCTGGTGGAGGGGAGCCACCTTCCCTG
 GAGCCTGGAGAGGGGTTGTCTTTACTTGAAACCAACTGGCAGAAACTCTTGGAGACAGGGGTGTGGGT
 TGATGCTGCGGCTCAGATCTTTTCTCTTGGCCCGGGTTTGGGGTCTCTGGCGTTTGTAGCTAC
 AACAAAGTCAACAACAACACTGTTACCAAGATGCCCTGGTGACCAGTGTGGTGAACATGCATGACGAGCTTCG
 TCTCTGGCTTTGTATCTTACGGTGTGGCTACATGGCTGAGATGAGGAACGAAGACGCTCCGAGGT
 GGCCAAAGACGCGGGCCCGCCAGCCTCTTTTTCATCACATATGCGGAGGCAATAGCTAACATGCCAGCATCC
 ACATTCTTTGCCATCATCTTCTCCTCATGTTAATCACGCTGGGTTTGGATAGCACGTTTGCAGGCTGG
 AAGGTGTGATCACAGCTGTGTTGGATGAGTTTCTCACATCTGGGCCAAGCGCAGGGAATGGTTTGTGCT
 CATCGTGGTCACTTGCATCTGGGATCCCTGCTCACACTGACATCAGGAGGGGCGTATGTGGTGAAC
 CTGCTGGAGGAGTACGCCACGGGGCCAGCAGTGTCTACTGTGGCTCTCATCGAGGCGCTCGTGTCTT
 GGTCTATGGAATCACTCAGTTCTGCAGCGACGTGAAGGAAATGCTGGGTTTCAAGCCCGGATGGTTTTG
 GAGGATCTGCTGGTGGCCATCAGTCTCTGTTTCTCTGTTTCTGTTTGCAGTTTTTGTAGTGAACAT
 CCCCAACTCCGGCTTTTCAATACAATTATCCCCTGGAGTATCATCTTGGGCTACTGCATAGGAACAT
 CGTCTGCATCTGCATCCCTATATACATATTTATCGGCTGATCAGCACTCCAGGACACTTAAGGAGCG
 CATTATTAAGTATCACTCTGAAACCAACGAAATTCCTGTGGGGACATCCGCATGAATGCTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227448 representing NM_010484
 Red=Cloning site Green=Tags(s)

METTPLNLSQKVLSECKDKEDCQENGLVQKGVPTPADKAEPQISNGYSAVPSTSAGDEAPHSTPAATTTL
 VAEIHQGERETWGKMDLFSVIGYAVDLGNIWRFPYICYQNGGAFLLPYTIMAIFGGIPLFYMELALG
 QYHRNGCISIWRIKICPIFKGIGYAICIIAFYIASYYNTIIAWALYYLSSFTDQLPWTSCKNSWNTGNCT
 NYFAQDNITWTLHSTSPAEFYLRHVLQIHQSKGLQDLGTISWQLALCIMLIFTIIFSIWKGVKTSKGV
 VVVTATFPYIVLSVLLVRGATLPGAWRVVYFKPNWQKLLLETGVVWVDAQAIFSLGPGFVLLAFASY
 NKFNNNCYQDALVTSVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPSLLFITIAEIANMPAS
 TFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHIWAQRREWFVLIIVITCILGSLTTLTSGGAYVVT
 LLEEYATGPAVLTVALLIEAVVSWFYGITQFCSDVKEMLGFSPGWFWRICWVAISPLFLFIICFLMSP
 PQLRFLQYNYPHWSIILGYCIGTSSVICIPIYIIYRLISTPGLKERIISITPETPTEIPCGDIRMNAV

TRTRPLE – GFP Tag – V

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 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

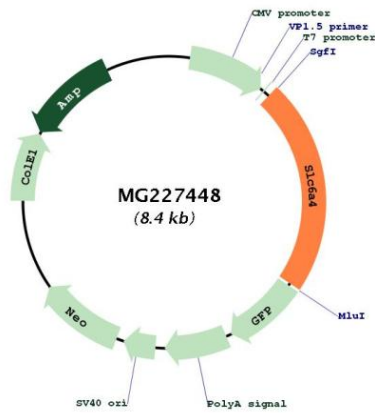
Locus ID: 15567

UniProt ID: [Q60857](#)

Cytogenetics: 11 46.18 cM

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 MG227448