

Product datasheet for **MG223080**

Slc6a8 (NM_001142810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a8 (NM_001142810) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc6a8
Synonyms:	AA589632; Creat; CRT; CRTR; CT1; CTR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223080 representing NM_001142810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGAAAAAGAGCGCTGAAAACGGTATCTATAGCGTGTCTGGTGACGAGAAGAAGGGTCTCTCATCG
 TGTCGGGCCCGACGGTGCCCCAGCCAAGGGCGATGGCCCTGCGGGCCTGGGGCCGCTGGCGGCCGCT
 TGCAGTGCCACCGCAGAGACTTGGACACGCCAGATGGACTTCATCATGTCGTGCGTGGGCTTCGCCGTG
 GGCTCGGTAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGCGGAGGTGTTCCTTATCCCT
 ATGTCCTGATTGCCCTGGTTGGAGGAATCCCCATTTTCTCTGGAAATCTCATTGGGCCAGTTCATGAA
 GGCCGGCAGCATCAATGTCTGGAACATCTGTCCCCTATTCAAAGGTCTGGGCTATGCCTCCATGGTATT
 GTCTTCTACTGCAACACTTACTACATCATGGTGTGGCTGGGCTTCTATTACCTGGTCAAGTCTTTA
 CTACCACCTTGGCATGGGCTACATGTGGCCACACCTGGAACACTCCTGACTGTGTGGAGATCTTCGCCA
 TGAAGACTGTGCAATGCCAGCCTGGCCAACTCACATGTGACCAGCTTGTGACCGCCGGTCCCCTGTC
 ATCGAGTTCTGGGAGAACAAGTATTGAGGCTCTCCACGGGGCTGGAGGTTCCAGGAGCCCTCAACTGGG
 AGGTGACCTTGTGCCTGCTGGCCTGCTGGGTGCTGGTCTACTTCTGTGTGTGGAAGGGGGTCAAGTCAAC
 AGGAAAGATCGTGTACTTCACTGCTACATTCGCCCTACGTGGTCCCTCGTTGTGCTGCTGGTGGAGGGGTG
 CTGCTGCCTGGAGCCCTGGATGGTATCATCTACTATCTCAAGCCTGACTGGTCAAAGCTAGGGTCCCCTC
 AGGTATGGATAGATGCTGGGACCCAGATTTTCTTCTTATGCCATAGGCCTGGGGGCCCTCACAGCCCT
 AGGCAGCTACAATCGCTTCAACAACAACCTGCTACAAGGATGCCATCATCTGGCACTCATCAACAGCGGG
 ACCCACTTCTTTGCTGGCTTTGTGGTCTTCTCCATCCTGGGCTTCATGGCCACAGAGCAGGGTGTGCATA
 TCTCCAAGGTGGCAGAATCAGGGCCTGGTCTAGCCTTCATTGCCCTACCCACGGGCTGTCACTGATGCC
 TGTGGCCCCACTCTGGGCTGCCTTGTCTTCTTATGCTGCTGCTGCTCGGTCTGGACAGCAGTTTGT
 GGTGTGGAGGGCTTCACTACCGGCTCCTGGATCTCCTCCCGCCCTCCTACTACTTCCGTTTCAAAGGG
 AGATCTCCGTTGCTCTGCTGCGCCCTGCTTTGTCATCGATCTCCATGGGTGGAATGTACGCTCT
 CCAGCTATTTGACTACTACTCAGCTAGTGGCACTACCCTGCTTTGGCAAGCCTTTTGGGAGTGTGATGTT
 GTGGCTTGGGTTTATGGAGCTGACCGCTTCATGGATGACATTGCCTGTATGATTGGGTACCGACCTTGC
 CCTGGATGAAATGGTGTGCTCCTTCTTACCCCATTTGGTCTGCATGGGCATCTTCACTTCAACATTGT
 GTACTACGAGCCACTGGTCTACAACAACACCTACGTGTACCCATGGTGGGGTGAAGCTATGGGCTGGCC
 TTTGCACTCTTCTATGCTATGTGATCCCTCCACCTCCTGGGCTGTCTCCTCAGGGCAAAGGAACCA
 TGGCAGAGCGATGGCAGCACCTGACCCAGCCTATCTGGGGCCTCCATCACTTGAATACAGAGCTCAGGA
 TGCAGATGTCAGGGCCCTGACCACCTGACTCCCGTGTCCGAGAGCAGCAAGGTCGTCGTTGGAGAGT
 GTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223080 representing NM_001142810
 Red=Cloning site Green=Tags(s)

MAKXSAENGIYSVSGDEKKGPLIVSGPDGAPAKGDGPAGLGAPGGRLAVPPRETWTRQMDFIMSCVGFV
 GLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMI
 VFYCNYYIMVLAWGFYLVKSFTTTTLPWATCGHTWNTPCVEIFRHEDCANASLANLTCQLADRRSPV
 IEFWENKVLRLSTGLEVPGALNWEVTLCLLACWLVYFCVWKGVKSTGKIVYFTATFPYVLLVLLVRGV
 LLPGALDGIYYLKPDSKLGSPQWIDAGTQIFFSYAIGLALGALGALSYNRFNNNCYKDAIILALINSG
 TSFFAGFVVFVILGFMATEQGVHISKVAESGPGLAFAIYPRAVTLMVPVAPLWAALFFMLLLLGLDSQFV
 GVEGFITGLDLLPASYYFRFQREISVALCCALCFVIDLSMGGMYVFLFDYYSASGTTLLWQAFWECVV
 VAWVYGADRFMDDIACMIGYRCPWMKWCWFFFTPLVCMGIFIFNIVVYEPLVYNNNTYVYPWWEAMGWA
 FALSSMLCVPLHLLGCLLRKGTMAERWQLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVVVE
 VM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001142810

ORF Size: 1896 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_001142810.1](#), [NP_001136282.1](#)

RefSeq Size: 3968 bp

RefSeq ORF: 1899 bp

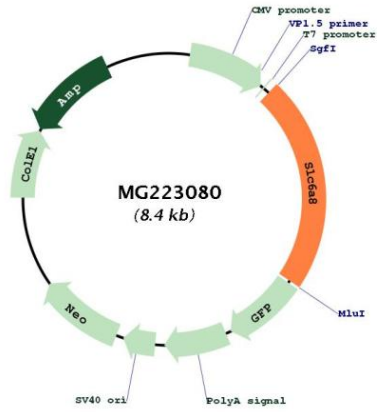
Locus ID: 102857

UniProt ID: [Q8VBW1](#)

Cytogenetics: X 37.38 cM

Gene Summary: Required for the uptake of creatine. Plays an important role in supplying creatine to the brain via the blood-brain barrier.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223080