

Product datasheet for **MR223080**

Slc6a8 (NM_001142810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a8 (NM_001142810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a8
Synonyms:	AA589632; Creat; CRT; CRTR; CT1; CTR5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>MR223080 representing NM_001142810
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGAAAAAGAGCGCTGAAAACGGTATCTATAGCGTGTCTGGTGACGAGAAGAAGGGTCTCTCATCG
TGTCGGGCCCGACGGTGCCCCAGCCAAGGGCGATGGCCCTGCGGGCCTGGGGCCGCTGGCGGCCGCT
TGCACTGCCACCGCAGAGACTTGGACACGCCAGATGGACTTCATCATGTCGTGCGTGGGCTTCGCCGTG
GGCCTCGTAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGCGGAGGTGTTCCTTATTCCCT
ATGTCCTGATTGCCCTGGTTGGAGGAATCCCCATTTTCTCTGGAAATCTCATTGGGCCAGTTCATGAA
GGCCGGCAGCATCAATGTCTGGAACATCTGTCCCCTATTCAAAGGTCTGGGCTATGCCTCCATGGTGATT
GTCTTCTACTGCAACACTTACTACATCATGGTGTGGCCTGGGGCTTCTATTACCTGGTCAAGTCCTTTA
CTACCACCTTGGCATGGGCTACATGTGGCCACACCTGGAACACTCCTGACTGTGTGGAGATCTTCGCCA
TGAAGACTGTGCAATGCCAGCCTGGCCAACTCACATGTGACCAGCTTGTGACCGCCGGTCCCCTGTC
ATCGAGTTCTGGGAGAACAAAGTATTGAGGCTCTCCACGGGGCTGGAGGTTCCAGGAGCCCTCAACTGGG
AGGTGACCTTGTGCCTGCTGGCCTGCTGGGTGCTGGTCTACTTCTGTGTGTGGAAGGGGGTCAAGTCAAC
AGGAAAGATCGTGTACTTCACTGCTACATTTCCCCTACGTGGTCCCTCGTTGTGCTGCTGGTGGAGGGGTG
CTGCTGCCTGGAGCCCTGGATGGTATCATCTACTATCTCAAGCCTGACTGGTCAAAGCTAGGGTCCCCTC
AGGTATGGATAGATGCTGGGACCCAGATTTTCTTCTTATGCCATAGGCCTGGGGGCCCTCACAGCCCT
AGGCAGCTACAATCGCTTCAACAACAACCTGCTACAAGGATGCCATCATCTGGCACTCATCAACAGCGGG
ACCAGCTTCTTTGCTGGCTTTGTGGTCTTCTCCATCCTGGGCTTCATGGCCACAGAGCAGGGTGTGCATA
TCTCCAAGGTGGCAGAATCAGGGCCTGGTCTAGCCTTCATTGCCCTACCCACGGGCTGTCACTGATGCC
TGTGGCCCCACTCTGGGCTGCCTTGTCTTCTTATGCTGCTGCTGCTCGGTCTGGACAGCCAGTTTGTA
GGTGTGGAGGGCTTCACTACCGGCTCCTGGATCTCCTCCCGCCCTCCTACTACTTCCGTTTCAAAGGG
AGATCTCCGTTGCTCTGCTGCGCCCTGCTTTGTCATCGATCTCCATGGGTGGAATGTACGTCTT
CCAGCTATTTGACTACTACTCAGCTAGTGGCACTACCCTGCTTTGGCAAGCCTTTTGGGAGTGTGTAGTT
GTGGCTTGGGTTTATGGAGCTGACCGCTTCATGGATGACATTGCCTGTATGATTGGGTACCGACCTTGCC
CCTGGATGAAATGGTGTGCTCCTTCTCACCCATTGGTCTGCATGGGCATCTTCACTTCAACATTGT
GTACTACGAGCCACTGGTCTACAACAACACCTACGTGTACCCATGGTGGGGTGAAGCTATGGGCTGGCC
TTTGCCTCTTCTATGCTATGTGATCCCTCCACCTCCTGGGCTGTCTCCTCAGGGCAAAGGAACCA
TGGCAGAGCGATGGCAGCACCTGACCCAGCCTATCTGGGGCCTCCATCACTTGAATACAGAGCTCAGGA
TGCAATGTGTCAGGGCCCTGACCACCTGACTCCCGTGTCCGAGAGCAGCAAGGTCGTGCTGGTGGAGAGT
GTCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

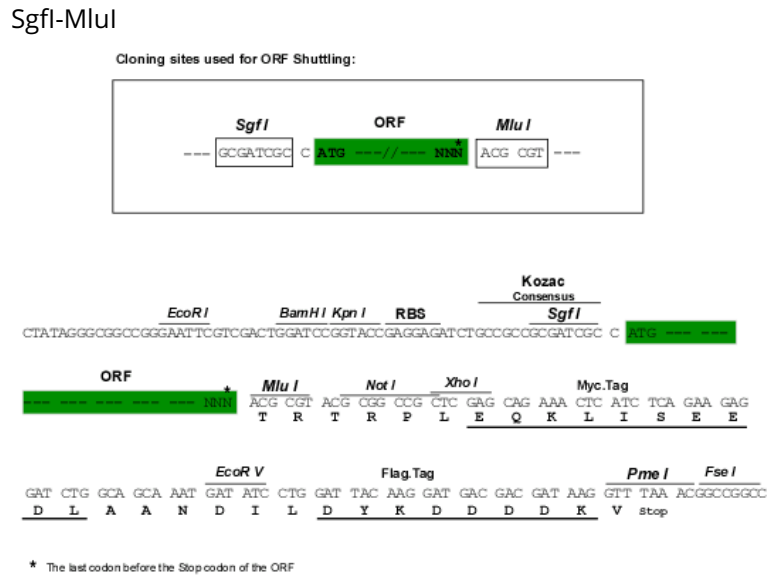
Protein Sequence: >MR223080 representing NM_001142810
 Red=Cloning site Green=Tags(s)

MAKXSAENGIYSVSGDEKKGPLIVSGPDGAPAKGDGPAGLGAPGGRLAVPPRETWTRQMDIFMSCVGFVA
 GLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMI
 VFYCNTYYIMVLAWGFYLVKSF TTTLPWATCGHTWNTPCVEIFRHEDCANASLANLTCDQLADRRSPV
 IEFWENKVLRLSTGLEVPALNWEVTLCLLACWLVLYFCVWKGVKSTGKIYVFTATFPYVVLVLLVIRGV
 LLPGALDGIYYLKPDSKLGSPQWIDAGTQIFFSYAIGLALGALGALGALGALGALGALGALGALGALGALG
 TSSFFAGFVVSILGFMATEQGVHISKVAESGPGAFIAYPRAVTLMPVAPLWAALFFFMLLLLGLDSQFV
 GVEGFITGLDLLPASYYFRQREISVALCCALCFVIDLSMGGMYVQLFDYYSASGTTLLWQAFWECVV
 VAWVYGADRFMDDIACMIGYRCPWMKWCWSFFFTPLVCMGIFIFNIYVVEPLVYNNYVYVPPWGEAMGWA
 FALSSMLCVPLHLLGCLLRKAGTMAERWQHLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVVVE
 VM

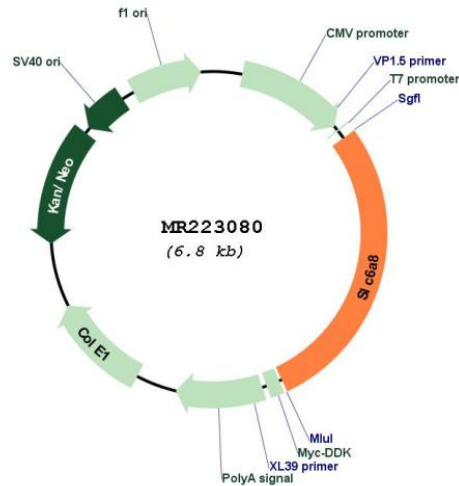
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



Plasmid Map:



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
MW:	70.7 kDa
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]