

Product datasheet for **MG223078**

Slc6a8 (NM_001142809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc6a8 (NM_001142809) 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:

>MG223078 representing NM_001142809
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGAAAAAGAGCGCTGAAAACGGTATCTATAGCGTGTCTGGTGACGAGAAGAAGGGTCTCTCATCG
 TGTCGGGCCCGACGGTGCCCCAGCCAAGGGCGATGGCCCTGCGGGCCTGGGGCCGCTGGCGGCCGCT
 TGCAGTGCCACCGCAGAGACTTGGACACGCCAGATGGACTTCATCATGTCGTGCGTGGGCTTCGCCGTG
 GGCTCGGTAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGCGGAGGTGTGTTCTTATCCCT
 ATGTCCTGATTGCCCTGGTTGGAGGAATCCCCATTTTCTCTCGAAATCTCATTGGCCAGTTCATGAA
 GGCCGGCAGCATCAATGTCTGGAACATCTGTCCCCTATTCAAAGGTCTGGGCTATGCCTCCATGGTATT
 GTCTTCTACTGCAACACTTACTACATCATGGTGTGCTGGCCTGGGGCTTCTATTACCTGGTCAAGTCTTTA
 CTACCACCTTGGCATGGGCTACATGTGGCCACACCTGGAACACTCCTGACTGTGTGGAGATCTTCGCCA
 TGAAGACTGTGCAATGCCAGCCTGGCCAACTCACATGTGACCAGCTTGTGACCGCCGGTCCCCTGTC
 ATCGAGTTCTGGGAGAACAAGTATTGAGGCTCTCCACGGGGCTGGAGGTTCCAGGAGCCCTCAACTGGG
 AGGTGACCTTGTGCCTGTGCTGGCCTGCTGGGTGCTGGTCTACTTCTGTGTGTGGAAGGGGGTCAAGTCAAC
 AGGAAAGATCGTGTACTTCACTGCTACATTCGCCCTACGTGGTCCCTCGTTGTGCTGCTGGTGGAGGGGTG
 CTGCTGCCTGGAGCCCTGGATGGTATCATCTACTATCTCAAGCCTGACTGGTCAAAGCTAGGGTCCCCTC
 AGGTATGGATAGATGCTGGGACCCAGATTTTCTTCTTATGCCATAGGCCTGGGGGCCCTCACAGCCCT
 AGGCAGCTACAATCGCTTCAACAACAACCTGCTACAAGGATGCCATCATCTGGCACTCATCAACAGCGGG
 ACCAGCTTCTTTGCTGGCTTTGTGGTCTTCTCCATCCTGGGCTTCATGGCCACAGAGCAGGGTGTGCATA
 TCTCCAAGGTGGCAGAATCAGGGCCTGGTCTAGCCTTCATTGCCCTACCCACGGGCTGTCACTGATGCC
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 GTACGTCTCCAGCTATTTGACTACTACTCAGCTAGTGGCACTACCCTGCTTTGGCAAGCCTTTTGGGAG
 TGTGTAGTTGTGGCTGGGTTTATGGAGCTGACCGCTCATGGATGACATTGCCTGTATGATTGGGTACC
 GACCTTGGCCCTGGATGAAATGGTGTGGTCTTCTTACCCCATTTGGTGTGCATGGGCATCTTCATCTT
 CAACATTTGTACTACGAGCCACTGGTCTACAACAACACCTACGTGTACCCATGGTGGGGTGAAGCTATG
 GGCTGGGCCCTTTCAGCTCTTCTATGCTATGTGTACCCCTCCACCTCCTGGGCTGTCTCCTCAGGGCAA
 AAGGAACCATGGCAGAGCGATGGCAGCACTGACCCAGCCTATCTGGGGCCTCCATCACTTGAATACAG
 AGCTCAGGATGCAGATGTGAGGGCCTGACCACCTGACTCCCCTGTCCGAGAGCAGCAAGTCTGTCGTG
 GTGGAGAGTGTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223078 representing NM_001142809
 Red=Cloning site Green=Tags(s)

MAKXSAENGIYSVSGDEKKGPLIVSGPDGAPAKGDGPAGLGAPGGRLAVPPRETWTRQMDFIMSCVGFV
 GLGNVWRFYLYCYKNGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMI
 VFYCNYYIMVLAWGFYLVKSFTTTTLPWATCGHTWNTPCVEIFRHEDCANASLANLTCQQLADRRSPV
 IEFWENKVLRLSTGLEVPALNWEVTLCLLACWLVYFCVWKGVKSTGKIVYFTATFPYVVLVLLVRGV
 LLPGALDGIYYLKPDSKLGSPQWIDAGTQIFFSYAIGLGAL TALGSYNRFNNNCYKDAIILALINSG
 TSFFAGFVYVFSILGFMAEQGVHISKVAESGPGLAFAIYPRAVTLMVPVAPLWAALFFMLLLLGLDSQFV
 GVEGFITGLDLLPASYYFRQREISVALCCALCFVIDLSMVTGDMYVFQLFDYYSASGTTLLWQAFWE
 CVVVAWVYGADRFMDIACMIGYRCPWMKWCWSSFFPLVCMGIFIFNIVYVEPLVYNNYVYPWWGEAM
 GWAFALSSMLCVPLHLLGCLLRAGKTMERWQHLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVV
 VESVM

TRTRPLE - GFP Tag - V

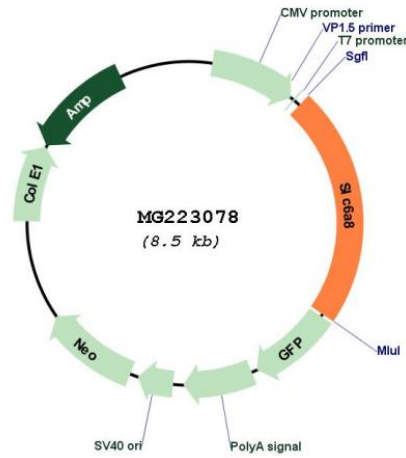
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001142809

ORF Size: 1905 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:	<ol style="list-style-type: none">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_001142809.1 , NP_001136281.1
RefSeq Size:	3977 bp
RefSeq ORF:	1908 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]