

Product datasheet for **MG225194**

Slc44a1 (NM_133891) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc44a1 (NM_133891) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc44a1
Synonyms:	2210409B22Rik; 4833416H08Rik; AW547365; Cdw92; CHTL1; CTL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225194 representing NM_133891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGCTGCAGCTCCGCTCCGCCGCGCAGAGCTCCAACGAGAATGGAAGCCATTGGAAGACCGTA
 GCTGCACAGACATACCATGGCTGCTTCTTTGTTCTTCTGCAATGGGATGGATTTATTTGGGCTT
 TTCAGTAGCAACAGGTGCAGCAGCAAGACTAGTGTGAGGATACGACAGCTATGGAATATCTGTGGCAG
 AGAAATGCAAACTGGAAGCAATACCGAACAGTGGTCTGGACCACCCCACCGGAAGTATGTGTTCTTTT
 TGGACCCATGCAACCTGGACTTGATAAACAGGAAGATCAAGTCTATAGCACTGTGCGTAGCAGCATGTCC
 TCGACAGGAGTTGAAAACCTTGAGTGACGTCCAGAAGTTGCAGAGATCAATGGCTCAGCACTATGTAGC
 TACAACATAAAGCCTTCTGAATATACTGACTTCAAATCCTCTGGCTTTTGCCCAAGCTACCAGTAC
 CAGCCAGTGCACCTATCCATTCTCCATCGCTGTCTCTGTGAACATTTCTGCTATGCCAAGTTTGC
 AGAGGCCCTGATCACCTTGTGAGTACAATAGTGTCTTACACAGGCTGATTAGTGGAGTAAAGACCAGC
 AAAGAAATATATTGGGACTTTGCTTGTATCACTAGTCTGTCCATGATCCTGATGGTATTATCAGGT
 ATATATCAAGAGTGTAGTGTGGATTCTAACAGTCTGGTCATACTGGGTTCACTTGGTGGCACGGGTG
 ATTATGGTGGCTGTATGCAAAGCAAAGAAGTCCCCAAAGAAGCAGTTATTCCTGAGCAGCTTCAGATA
 GCTGAGGACAATCTGCGGGCGCTCCTCATCTATGCCATTTACGCGACAGTGTCACTGTCATTCTCTTCC
 TGATCATGCTGGTTATGCGCAAGCGTGTGGCTCTCACCATCGCCTTGTCCACGTGGCTGGCAAGTCTT
 CATACTTGCCTCTGTAGTCTCCAGCCCTTCTGGACGTTTTTGGCTCTCGTCTATTTTGGGCATAC
 TGGATAATGACACTTCTCTTCTTGGCACTACTGGCAGTGTCTTCAAGTGGCAAGGCTTCGTGGAGT
 ACAAATCTCCGGCCCTTTCAGTACATGTGGTGTACCACGTGGTTGGCCTGATTTGGTCACTGAGTT
 CATTCTCGCTGTGACGAGTACTGTGGCAGGAGCTGTGGTAACATACTACTTTACTAGGGATAAACGG
 AATTTGCCTTTCACACCTATTCTGGCATCAGTGAATCGCCTTATTCGTTACCACCTCGGACTGTGGCAA
 AAGGATCCTTCATTATCACCTCGTCAAATCCCAGGATGGTCTCATGTATATCCACAGTCAAGTCAA
 AGGGAAGGAAAACGCTTGTGCACGATGCATGCTGAAATCTGCATTTGCTGCCTTTGGTGTCTTGA
 TGCCTGAGCTACTTAAACCAGAATGCATACACAGCCACAGCTATCAATAGCACCAACTTCTGCACCTCAG
 CAAAGGATGCCTTCGTCATTCTAGTGGAGAACGCTCTGCGAGTGGCTGCCATCAACAGTGGGGGACTT
 CATGCTGTTCTAGGCAAGGTGCTGATAGTCTGCAGCACCGGTTGGCTGGGATTATGCTGCTCACTAC
 CAGCAAGATTACACAGTATGGGTGCTGCCTCTGATCATCGTCTGCCTCTTTGCTTTCCTAGTCGCTCATT
 GCTTCCGTCCATTTACGAAATGGTAGTGGATGTATTGTTCTTGTGTTTTGCCATTGATACAAAATACAA
 TGATGGGAGCCCTGGCCGAGAATTCTATATGGACAAAGTCTGATGGAGTTTGTGGAAAACAGTAGGAAA
 GCAATGAAAGAAGCCGGCAAAGGAGCGCTGCGGACGCCCGAGAGCTAAAGCCGATGCTCAGGAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225194 representing NM_133891
 Red=Cloning site Green=Tags(s)

MGCCSSASAAQSSKREWKPLEDRSCTDIPWLLLFVLCIGMGFICGFSVATGAAARLVSGYDSYGNICGQ
 RNAKLEAIPNSGLDHTHRKYVFFLDPCNLDLINRKIKSIALCVAACPRQELKTLSDVQKFAEINGSALCS
 YNIKPSEYTLTSKSSGFCPKLPVAPASAPIPFHRCAPVNI SCYAKFAEALITFVSDNSVLHRLISGVMST
 KEIILGLCLLSLVL SMILMVIIRYISRVLVWILTVLVILGSLGGTGVLWVLYAKQRRSPKEAVIPEQLQI
 AEDNLRALLIYAI SATVFTVILFLIMLVMRKRVALTIALFHVAGKVF IHLPLLVFPFWTFALVLFWAY
 WIMTLLFLGTTGSAVQNEQGFVEYKISGPLQYMWYHVGLIWI SEF ILACQQMTVAGAVVTTYFTRDKR
 NLPFTPILASVNRLIRYHLGTVAKGSFIITLVKIPRMVLMYIHSQKKGKENACARCLKSCICCLWCLEK
 CLSYLNQNAYTATAINSTNFCTSAKDAFVILVENALRVAAINTVGD FMLFLGKVLIVCSTGLAGIMLLNY
 QQDYTVWVLP LIIVCLFAFLVAHCFLSIYEMVVDVLF LCF AIDTKYNDGSPGREFYMDKVLMEFVENS
 SRK AMKEAGKGAADARELKPMLRKR

TRTRPLE - GFP Tag - V

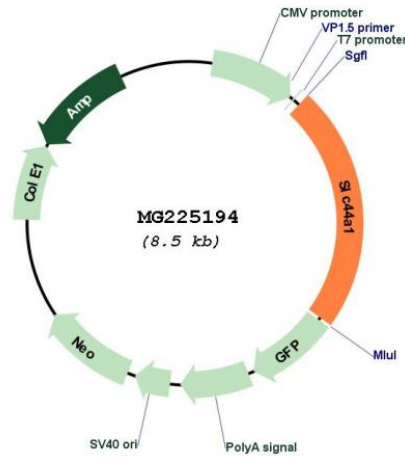
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_133891

ORF Size: 1959 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_133891.3 , NP_598652.3
RefSeq Size:	3102 bp
RefSeq ORF:	1962 bp
Locus ID:	100434
UniProt ID:	Q6X893
Cytogenetics:	4 B2
Gene Summary:	Choline transporter. May be involved in membrane synthesis and myelin production. [UniProtKB/Swiss-Prot Function]