

Product datasheet for **MR210166**

Slc44a2 (NM_152808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc44a2 (NM_152808) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc44a2
Synonyms:	1110028E10Rik; CTL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210166 representing NM_152808
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGAAGGATTCGCAGAATTACTACGGGAAGCACGGGACGCCCTCAGAAATACGACCCACCTTCAAAG
GACCCATTTACAACAGGGGATGCACAGATGTCATTTGCTGTGTGTGCTCTTCTGGCCATCGTAGGCTA
TGTGGCTGTGGGCATCATAGCCTGGACCCATGGAGACCCTCGGAAGGTGATCTACCCCACTGATAGCCGG
GGCGAATTCGTGGGCAAAAGGGGACAAAAATGCGGACAAACCCTTCTGTGTTTACTTCAACATCGTGA
AGTGTGCCAACCCCTGGTCTGCTGGAATTTCACTGTCCACCCTCAGATCTGCGTGAAGCAGTGTCC
AGACCGCTATCTACCCTTCTGAGTGGCGCAACACTCGCGACTTTGACTATTACAAGCAGTTCTGTGTG
CCTGGCTTCCAGAACAATAAAGGGGTGACTGAGATACTCCGAGATGGGGAGTGTCCAGCGGTTATCACCC
CCAGCAAACCTTTGGCCAGCGTGCTTTCCCGCCATCCATGCCAGCAAAGGAGTCTCATGGTGGGCAA
TGAGACGACCTATGAGGACGGACATGGCGCCAGAAAGAACATTACAGATCTAGTGGAGGGTGCCAAAAAG
GCCAACAAGATTCAGAGGCCCGCAACTCGCCATGCAGATATTTGAAGATTACACTGTATCCTGGTACT
GGATTATCATAGGTCTGGTCAATGCCATGGTGTGAGTCTCCTGTTTCATCGTCTGCTGCGATTCTGGC
TGGCATTATGGTCTGGGTGATGATTGTCATGGTGTCTGGTGTGGCTATGGCATCTTCCACTGCTAC
ATGGAGTACTCGAGACTCCGTGGAGAGGCGAGCTCCGACGTCTCCCTGGTGGACCTTGGCTTCCAGACGG
ACCTCCGAGTGTACCTGCACTTGAGGCAGACCTGGATGGCTTTTATGATCATTTTAAAGCATCCTGGAAGT
GGTCATCATCCTGTTACTTATCTTTCTGCGCAAAAGGATATTGATCGCCATCGCCCTCATCAAAGAAGCC
AGCAGGGCTGTGGGACATGTCATGTGCTCCCTGCTCTACCCACTGGTGACCTTCTCCTCTGTGTCTCT
GCATTGGCTACTGGCCAGCACTTCTGTATTCTGTCCACCTCCAACACCGCCGTGTACAAGTTGTTGA
TGACACAGCCTGCCCACTTCTGAGGAAAACTGCAACCCAGAGACCTTCCCTTGCGGAATGAGAGCCTC
CAGTGTCCCACTGCCCGCTGCCAGTTTGCCTTCTATGGTGGCGAATCGACCTACCACCGTGCCTGCTGG
GCCTGCAGATCTCAATGCATTCATGTTCTTCTGGCTAGCCAACCTCGTGTGGCCCTAGGCCAGGTAAC
CCTGGCCGAGCCTTTGCCTCCTATTACTGGGCTATGCGGAAGCCTGATGATATGCCTGCCTTCCCCTC
TTCTCTGCTTTTGGCCGAGCACTCAGGTACCACACGGGCTCCTTAGCTTTTGGCTCCCTTATCTTAGCCA
TCGTGCAGATCATCCGAGTGTGCTGGAATACCTGGACCAGCCCTAAAAGCTGCACAGAACAAGTTTGC
CAAGTTCTCATGGTCTGTCTCAAGTGTGCTTCTGGTGCCTAGAGAAGTTTATCAAATTCCTGAATAGG
AATGCCTACATCATGATTGCTATCTATGGCACCACCTTCTGTACCTCAGCCAGGAATGCCTTCTTCTGC
TTATGAGAAATATCATCAGGGTGGCCGCTCCTGGACAAAGTTACAGACTTCTCTTCTGTTGGGCAACT
TCTGATTGTGGGTAGTGTGGGCATCCTGGCCTTCTTCTTCCACCATCGGATCAGAATTGTGCAAGAT
ACAGCCCCACCTCTCAATTACTGGGTTCCGATCCTGACAGTGTGATTTGGCTCCTACTTGTGCGGC
ACGGCTTCTTACGCGTCTATGGCATGTGCGTGGACACGCTGTTCTCTGTTTCTTGGAGGATCTGGAGAG
AAATGACGGTTCAGCCGAGAGGCCTTACTTCATGTCTTCCACTCTCAAGAACTCTTGAATAAAACCAAC
AAGAAAGTAGCAGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210166 representing NM_152808
 Red=Cloning site Green=Tags(s)

MGKDSQNYGKHGTPQKYDPTFKGPIYNRGCTDVICCVLLFLAIVGYVAVGIIAWTHGDPKRVIIYPTDSR
 GEF CGQKGTKNADKPF LFYFNIVKCANPLV LLEFHCPTPQICVKQCPDRYL TLLSARNTRDFDYKQFCV
 PGFQNNKGVTEILRDGECPAVITPSKPLAQRCFPAIHASKGVL MVGNETTYEDGHGARKNITDLVEGAKK
 ANKILEARQLAMQIFEDYTVSWYWI IIGLVIAMVLSLLFIVLLRFLAGIMVWVMIVMVLVLGYGIFHCY
 MEYSRLRGEAGSDVSLVDLGFQTDLRVYLHLRQTWMAFMIILSILEVVIILLIFLRKRILIAIALIKEA
 SRAVGHVMCSLLYPLVTFLLCLCIAYWASTSVFLSTSNTAVYKVVD D TACPLL RKT CNPETFPLRNESL
 QCPTARCQFAFYGGESTYHRALLGLQIFNAFMFFLANFV LALGQVTLAGAFASYWAMRKPDDMPAFPL
 FSAFGRALRYHTGSLAFGSLILAIVQIIRVMLEYLDQRLKAAQNKFAKFLMVCLKCCFWCLEKFIKFLNR
 NAYIMIAIYGTNFACTSARNAFFLLMRNIIRVAVLDKVTDFLLGKLLIVG SVGILAFFFFTHRIRIVQD
 TAPPLNYYWVPI LTVIIGSYLIAHGFFSVYGMCD TFLCFL EDLERNDGSAERP YFMSSTLKKLLNKTN
 KKVAES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152808

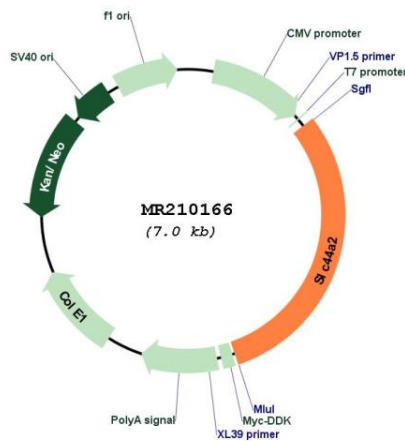
ORF Size: 2118 bp

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_152808.3](#), [NP_690021.1](#)
- RefSeq Size:** 3473 bp
- RefSeq ORF:** 2121 bp
- Locus ID:** 68682
- UniProt ID:** [Q8BY89](#)
- Cytogenetics:** 9 A3
- MW:** 80.6 kDa
- Gene Summary:** Choline transporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210166