

Product datasheet for **MR230936**

Slc44a2 (NM_001199186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc44a2 (NM_001199186) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc44a2
Synonyms:	1110028E10Rik; CTL2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230936 representing NM_001199186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGACGATCGGAAGGACGAGTCTATGGGACGCCTCAGAAATACGACCCACCTTCAAAGGACCCA
 TTTACAACAGGGGATGCACAGATGTCATTTGCTGTGTGTTGCTCTTCTGGCCATCGTAGGCTATGTGGC
 TGTGGGCATCATAGCCTGGACCCATGGAGACCCCTCGGAAGGTGATCTACCCCACTGATAGCCGGGGCGAA
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 CCAACCCCTGGTCTGCTGGAATTTCACTGTCCACCCCTCAGATCTGCGTGAAGCAGTGTCCAGACCG
 CTATCTCACCCCTTCTGAGTGCAGCAACTCGCGACTTTGACTATTACAAGCAGTTCTGTGTGCCTGGC
 TTCCAGAACAATAAAGGGGTGACTGAGATACTCCGAGATGGGGAGTGTCCAGCGTTATCACCCCAAGCA
 AACCTTTGGCCAGCGGTGCTTTCCCGCCATCCATGCCAGCAAAGGAGTCTCATGGTGGCAATGAGAC
 GACCTATGAGGACGGACATGGCGCCAGAAAGAACATTACAGATCTAGTGGAGGTGCCAAAAGGCCAAC
 AAGATTCTAGAGGCCCGCAACTCGCCATGCAGATATTTGAAGATTACACTGTATCCTGGTACTGGATTA
 TCATAGGTCTGGTCATTGCCATGGTGTGAGTCTCCTGTTTCATCGTCTGCTGCGATTCTGGCTGGCAT
 TATGGTCTGGGTGATGATTGTCATGGTGTGCTGGTGTGGCTATGGCATCTTCCACTGCTACATGGAG
 TACTCGAGACTCCGTGGAGAGGCAGGCTCCGACGTCTCCCTGGTGGACCTTGGCTTCCAGACGGACCTCC
 GAGTGTACCTGCACTTGGAGCAGACCTGGATGGCTTTTATGATCATTTTAAAGCATCTGGAAGTGGTCAT
 CATCCTGTTACTTATCTTTCTGCGCAAAAGGATATTGATCGCCATCGCCCTCATCAAAGAAGCCAGCAGG
 GCTGTGGGACATGTCATGTGCTCCCTGCTTACCCACTGGTACCTTCTCCTCTGTGTCTCTGCATTG
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 TACATCATGATTGCTATCTATGGCACCAACTTCTGTACCTCAGCCAGGAATGCCTTCTTCTGCTTATGA
 GAAATATCATCAGGGTGGCCGCTCCTGGACAAAGTTACAGACTTCCCTTCTCCTGTTGGGCAAACTTCTGAT
 TGTGGGTAGTGTGGGCATCCTGGCCTTCTTCTTCCACCCATCGGATCAGAATTGTGCAAGATACAGCC
 CCACCTCTCAATTACTGGGTTCCGATCCTGACAGTGTGATTTGGCTCCTACTTGATCGCGCACGGCT
 TCTTCAGCGTCTATGGCATGTGCGTGGACACGCTGTTCTCTGTTTCTTGGAGGATCTGGAGAGAAATGA
 CGGTTACGCCGAGAGGCCTTACTTCATGTCTTCCACTCTCAAGAACTCTTGAATAAAACCAACAAGAAA
 GTAGCAGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230936 representing NM_001199186
 Red=Cloning site Green=Tags(s)

MEDDRKDAVYGT PQYDPTFKGPIYNRGCTDVICCVLLFLAIVGYVAVGIIAWTHGDPRKVIYPTDSRGE
 FCGQKGTKNADKPFLFYFNIVKCANPLVLEFHCP TPQICVKQCPDRYL TLLSARNTRDFDYKQFCVPG
 FQNNKGVTEILRDGECPAVITPSKPLAQRCFPAIHASKGVL M VGN E TTYEDGHGARKNITDLVEGAKKAN
 KILEARQLAMQIFEDYTVSWYWI I IGLVIAMVLSLLFIVLLRFLAGIMVWVMIVMVLVLYGIFHCYME
 YSRLRGEAGSDVSLVDLGFQTDLRVYLHLRQTWMAFMII LSILEVVI ILLLI FLRKRI LIAIALIKEASR
 AVGHVMCSLLYPLVTFLLCLCIAYWASTSVFLSTNTAVYKVVDDTACPLL RKT CNPETFFLRNESLQC
 PTARCQFAFYGGESTYHRALLGLQIFNAFMFFWLANFVLALGQVTLAGAFASYWAMRKPDDMPAFPLFS
 AFGRALRYHTGSLAFGSLILAI VQIIRVMLEYLDQRLKAAQNKF AKFLMVCLKCCFWCLEKFIKFLNRNA
 YIMIAIYGTNFCTSARNAFFLLMRNIIRVAVLDKVTDFLLGKLLIVG SVGILAFFFFTHRIRIVQDTA
 PPLNYYWPILTVIIGSYLIAHGFFSVYGMCDVTLFLCFLEDLERNDGSAERP YFMSSTLKKLLNKTKNK
 VAES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

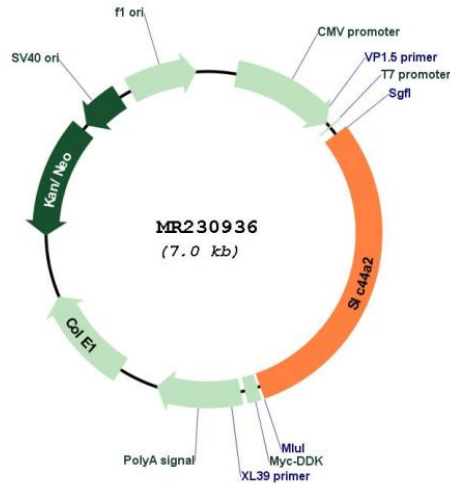
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199186

ORF Size: 2112 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_001199186.1](#), [NP_001186115.1](#)

RefSeq Size: 3471 bp

RefSeq ORF: 2115 bp

Locus ID: 68682
UniProt ID: [Q8BY89](#)
Cytogenetics: 9 A3
MW: 80.4 kDa
Gene Summary: Choline transporter.[UniProtKB/Swiss-Prot Function]