

Product datasheet for **MR209305**

Slc13a3 (NM_054055) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc13a3 (NM_054055) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc13a3
Synonyms:	NaDC-3; NaDC3; SDCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR209305 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCTGGCGGCGCTGGCCAAGAAGGTGTGGAGCGCGCGCGCCTCTGGTGCTGCTGCTGGTG
 CGCTGGCTCTGCTGCCATTCTCTCGCCCTGCCGCCAAGGAAGGCCGATGCCTCTATGTCATCCTGCT
 CATGGCGGTGACTGGTGACAGAGGCCCTGCCCTGTCACTGACAGCTCTTCTGCCATCATCCTCTTC
 CCCTTCATGGGATTCTGCCCTCCAGCAAGGTCTGCCCCAGTACTTCTCGACACCAACTCTCTTCC
 TTAGCGGCGCTGATCATGGCCAGCGCCATAGAGGAATGGAAGTGCACCGGAGAATCGCCCTCAAGGTCT
 CATGCTGGTTGGGCTCCAGCCTGCAAGGCTCATCTGGGATGATGGTGACACGTCATTCTGTCTATG
 TGGCTGAGCAACACGGCCTCCACGCAATGATGCTACCCATTGCCAGTGCCATCTCAAGAGCCTCTTG
 GCCAGCGCAAGCTCGGAAGGACCTTCCCGGGAAGGCGACGAGACACAGCTGCTGTGCAGGGAATGG
 ACTGCAACAGTCCACGAGATGCAGTTTCTGCCAGTTCGGAAGGAGGTCACTGAGGATGCAGAG
 GCCCCGATGGAGCTGCCTGATGACTCCAAGGAGGAGGAACACCGCAGAAACATCTGGAAGGGCTTCTCA
 TTTCCATTCTTACTCTGCCAGATTGGGGCACTGCCACCTCACGGGACCGCCCCAACCTCATCCT
 GCTCGGCCAGCTCAAGAGTTTCTTCCACAGTGTGATGTGGTGAATTTGGCTCTGTTTCATCTTCGCC
 TTCCCTCTCATGCTGTTGTTCTACTGGTGGGCTGGCTCTGGATCTCCTTCTCTATGGTGAATGAGCT
 GGAGAAGTTGGAGGAAGAAGAAATCCAAGATACGAGCTGACGACAGAGGATCAGGCTAAAGCGGTGATCCA
 GGAGGAGTTCCAGAACCTGGGGCCCATCAAGTTTGTGAACAGGCCGTCTTCATCTTGTCTGCAGTTT
 GCCATCTCTCTTCTCCCGGACCCCAAGTTCATCCCTGGCTGGGCCAGCCTCTTCGCCCTGGGTTTG
 TCTCGGATGCTGCACCGGTGTGGCCATTGTACCATCCTGTTCTTCTTCCCTCCAGAAGCCCTCACT
 CAAGTGGTGGTTTGACTTCAAAGCTCCCAACTCGGAGACGGAGGCCCTGCTGAGCTGGAAGAAGGCCAG
 GAGACAGTGCCCTGGAACATTATCCTTCTTCTAGGAGGTGGCTTTGCCATGGCCAAGGGCTGTGAGGAGT
 CTGGGCTATCAGCATGGATCGGTGGACAGCTGCACCCCTGGAGCATGTCCCCCACTGCTGGCAGTGCT
 GCTCATACCGTGGTCATCGCTTCTTACGGAGTTTGGCAGCAACACGGCCACCATCATCATCTTCCTG
 CCCGCTCTGGCAGAGCTGGCCATCCGACTGCATGTGCACCCCTTGTACCTGATGATCCAGGCACGGTGC
 GCTGCTCTACGCTTCTGCTGCCGTCTCAACACCCCAAACTCCATTGCCTTCTCTACTGGACACTT
 GCTGGTCAAAGACATGGTGGGACGGGCTGCTGATGAACCTGATGGGTGCTGCTGCTCAGCCTGGCC
 ATGAACACCTGGGCACAGACCATCTTCCAGCTGGGCACCTTCCAGACTGGGCCAACACCATGCTGCTA
 ACGCCACCGCACTGCCACAGCCTTGACCAACAACACAGTTCAAACCTTC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209305 protein sequence
 Red=Cloning site Green=Tags(s)

MAALAALAKKVSARRLLVLLVPLALLPILFALPPKEGRCLYVILLMAVYWCTEALPLSVTALLPIILF
 PFMGILPSSKVPQYFLDTNFLFLSGLIMASIEEWNLHRRIALKVLMLVGVPARLILGMMVTTSFLSM
 WLSNTASTAMMLPIASAILKSLFGQREARKDLPREGDESTAAVQGNLRTVPTMQFLASSEGHTEDAE
 APMELPDDSKEEEHRRNIWKGLISIPYASIGGTATLTGTAPNLILLGQLKSFFPQCDVNVFGSWFIFA
 FPLMLLFLLVGLWISFLYGGMSWRWRKKKSKIRADAEDQAKAVIQEEFQNLGPIKFAEQAVFILFCTF
 AILLFSRDPKFI PGWASLFAPGFVSDAVTGVAIVTILFFFPSQKPSLKWVDFKAPNSETPELLSWKKAQ
 ETVPWNIILLGGGFAMAKGCEESGLSAWIGGQLHPLHVPPLLAVLLITVVIATTEFASNTATIIIFL
 PVLAELAIRLHVHPLYLMIPGTVGCSYAFMLPVSTPPNSIAFSTGHLLVKDMVRTGLLMNLMGVLLLSLA
 MNTWAQTIQFGTFPDWANTHAANATALPPALTNNTVQTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_054055

ORF Size: 1800 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_054055.2](#), [NP_473396.1](#)

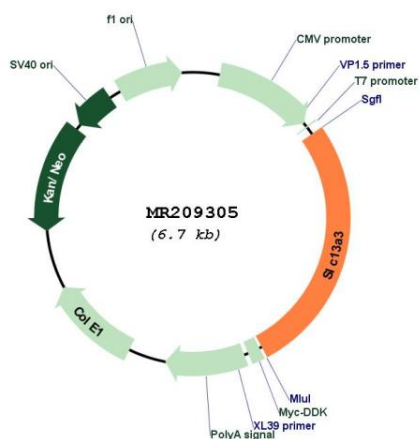
RefSeq Size: 3224 bp

RefSeq ORF: 1803 bp

Locus ID: 114644

UniProt ID:	<u>Q91Y63</u>
Cytogenetics:	2 H3
MW:	66.1 kDa
Gene Summary:	High-affinity sodium-dicarboxylate cotransporter that accepts a range of substrates with 4-5 carbon atoms. The stoichiometry is probably 3 Na(+) for 1 divalent succinate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209305