

Product datasheet for **MR209157**

Slc13a2 (NM_022411) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc13a2 (NM_022411) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc13a2
Synonyms:	mNaDC-1; Nadc-1; Nadc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209157 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTGCTGGCAGGCACTATGGGCCTATCGCTCCTACCTGATTGTGCTATGTCTGCCATTTTCC
 TGTTCCTCTGCCACTCATTGTCCAACTAAGGAAGCCTACTGTGCTTACTCCATCATCCTCATGGCGCT
 GCTGTGGTGTACAGAGGCCCTGCCCTTGCTGTACCGCCCTCTTCCCCATCATCCTCTTCCCTTTGATG
 GGTATCATGGAAGCCTCCAAGTCTGCTTAGAGTACTTCAAGGACACCAACATATTGTCGTCGGGGGTC
 TGATGGTGGCCATCGCCGTGGAGCACTGGAACCTGCACAAGCGCATTGCCCTTGGAGTGCTCTTATCAT
 AGGAGTGCAGGCCCGCCCTGCTGCTTCTGGGCTTCACTGTTGGTACAGCCTTCTCTCCATGTGGATCAGC
 AACACAGCCACCACAGCCATGATGCTGCCATCGGATGTCAGTCTGGAGCAGTGCAGGGCTCACAAA
 AGGATGTGGAGGAAGCAATAGTAACCCCTTCTTTGAGCTCCAGGAAGCAAGTCCCAGAAGGAGGAGAC
 CAAGCTTGATAACGGTCAAGGCTGTATCTGTTTCTCGGAGCCAAGAGCTCAGAAGACCAAGAGCATCAC
 CGCTTCAGCCAGGCGCTGAGTCTCTGCATCTGCTACTCAGCCAGCATTGGGGGCATTGCCACCCTGACGG
 GTACCACACCAACCTGGTGTCCAAGGCCAGGCAACTCGATCTTCCCTGAAAAATGTAACGTGGTGAA
 CTTTGCTTCATGGTTTGGTTTGGCTTCCCCACCATGGTGATCTTGTGCTACTGGCTTGGCTATGGCTA
 CAGGCTCTTCTCGGTGTCAACTTCCGGAAGAACTTTGGCTTGGGGAAGGGGAAGAGGAACGGAAGC
 AGGCTGCCTTCCAGGTATCAAGACCCAGCACAGGCTGCTGGGCCCATGAGTTTTGCAGAGAAGGCTGT
 CACTTCTCTGTTGTCTGCTAGTGGTCTCTGGTTCACGAGGGAGCCGGCTTCTTCCAGGCTGGGGT
 GACACAGCTTTCGCCAATAAAAAAGGGCAAAGCATGGTATCAGATGGGACAGTGGCCATCTTATCAGCC
 TGATTATGTTTCATACACCTCCAAGATCCAGGACTAACCGAGGACCAAAAAAACAGGGAAGCTGAA
 GGCTCCTCTGCCATCCTCACCTGGAAGACAGTGAACGATAAGATGCCCTGGAATATCCTGATCTTGCTG
 GGTGGGGGCTTGGCCCTGGCCAAAGGCAGTGAGGAATCAGGTTTGTCTAAGTGGCTGGGAGACAACTGA
 CCCCCTGTCAGCAGTACCGCCATCAGCCACCGTCTCATCCTCTCTATTGGTGGCCATCTTCACTGA
 GTGCACCAGAACGTGGCCACCACTACACTATTTCTGCCATCCTGGCTCCATGGCACAGGCCATCTGC
 CTTACCCGCTCTATGTCATGCTTCCCTGCACCCTGGCTGCCTCCCTAGCTTTCATGCTACCCGTGGCCA
 CTCACCCCAACGCCATTGCTTCTCTTTGGAGGCCTCAAAGTGTCTGATATGGCCCGTGCAGGATTCCT
 GCTCAATATCATCGGAGTGTGACTATCACATTATCCATAAACAGCTGGAGTATCCCTATCTTCAAGCTG
 GACACATTTCCACCTGGGCTACTCCAACACAAGCCAGTGCCTTCTCAATCCGCTAATCCACTGTAC
 CAGGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209157 protein sequence
 Red=Cloning site Green=Tags(s)

MATCWQALWAYRSYLIVLCLPIFLLPLPLIVQKEAYCAYSIILMALLWCTEALPLAVTALFPIILFPLM
 GIMEASKVCLEYFKDTNIFVGGMLMVAIAVEHWNLHKRIALGVLLIIGVVPALLLLGFMLVTAFLSMWIS
 NTATTAMMLPIGYAVLEQLQGSQKDVVEEGNSNPSFELQEASPQKEETKLDNGQAVSVSSEPRQKTEHH
 RFSQGLSLCICYSASIGGIATLTGTTPNLVLQGVNSIFPENSNNVNFASWFGFAFTPMVILLLLAWLWL
 QVFLGVNFRKNFGFGEGERKQAAFQVIKQHRLLGPMSFAEKAVTFLVLLVVLWFTREPGFFPGWG
 DTAFANKKGQSMVSDGTVAIFISLIMFIIIPSKIPGLTEDPKKPGKLPKAPPAILTWKTVNDKMPWNILILL
 GGGFALAKGSEESGLSKWLGDKLTPLQHVPPSATVILSLLVAIFTECTSNVATTLFLPILASMAQAIC
 LHPLYVMLPCTLAASLAFMLPVATPPNAIVFSFGGLKVSMDMARAGFLLNIIGVLTITLSINSWSIPFKL
 DTFPTWAYSNTSQCLLNPPNSTVPGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_022411

ORF Size: 1761 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_022411.4](#)

RefSeq Size: 2191 bp

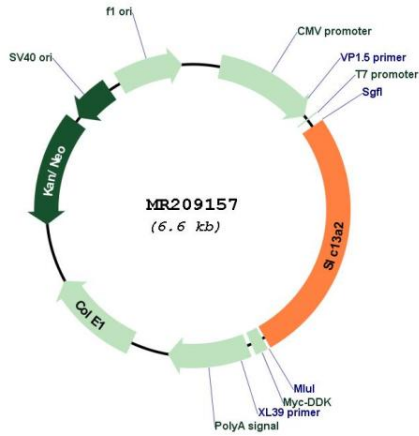
RefSeq ORF: 1761 bp

Locus ID: 20500

UniProt ID: [Q9ES88](#)

Cytogenetics: 11 46.74 cM
 MW: 64.1 kDa
 Gene Summary: Cotransport of sodium ions and dicarboxylates such as succinate and citrate.
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209157