

Product datasheet for **MR221209**

Slc9a2 (NM_001033289) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a2 (NM_001033289) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc9a2
Synonyms:	2210416H12Rik; 4932415O19Rik; AV333884; NHE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR221209 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCCGGGACCGCGCACAGCGTGGGGCGCCACTGTCTGGCTGCTGCTGCTGCTGCTGCTC
 TGCAGGTGGCAGTGCCGGCGGGCGCTGGCCGAGACCCTGCTGGACGCACCCAGGGCCAGGGGTGCCAG
 CTCCAACCGCCAAGTCCTGCCAGTGTGGTGGCCCGGGAACGACGCCGTTTCGAGAAAAGTCGGTTGCC
 GTGTTACCCCTGGATTACCCCCACGTGCAAATCCCTTTGAGATCACTTTGTGGATCCTACTGGCCTCT
 TGGCCAAGATTGGTTTTTCATCTCTATCACAAGTTGCCACAATCGTGCCGGAGAGCTGCCTTCTCATAAT
 GGTGCGGCTTCTACTGGGTGGGATTATCTTCGGTGTGATGAGAAGTCTCCCCGGCAATGAAGACAGAT
 GTGTTTTCTATACCTCTGCCACCCATCGTTCTGGATGCTGGTACTTTCATGCCAACTCGCCCTTCT
 TTGAGAACTTCGGCACCATTTCTGGTATGCTGTGGTAGGCACACTGTGGAATTCATTGGCATTGGGGT
 GTCTTTGTTGGCATCTGCCAGATTGAGGCGTTTGGCCTCAGTGACATCACCTGCTCCAGAACCTGCTC
 TTCCGGCAGCCTGATTTACGCTGTGGACCCCGTGGCTGTGCTTGCTGTCTTTGAGAACATTACGTCGAATG
 AACAGCTCTATACCTGGTTTTTGGCGAGTCTCTGCTCAACGATGCAGTACAGTGGTCTCTGACAACCT
 GTTCAAGTCTTCTGCCAGATGAAAACCATCCAGACCGTAGACGTGTTTGGCTGGCATCGTAACTTCTTC
 GTCGTGGGATTGGCGGGGTGCTGATTGGCATCCTCCTGGGATTCATAGCAGCGTTTACCACCCGTTTCA
 CACACAACATCCGGGTCATTGAGCCACTTTGTCTTCTGTACAGTACTTGTCTACATCACTGCTGA
 AATGTTCCACCTTTCAGGCATCATGGCGATCACAGCGTGTCCATGACAATGAATAAGTACGTGGAAGAG
 AACGTGCTCAGAAGTCTACACAACCATCAAGTACTTTCATGAAGATGCTGAGCAGCGTGAGCGAGACCC
 TGATCTTCATCTTCATGGGCGTGTCCACTGTTGGGAAGAACCAGAGTGGAACTGGGCTTCGCTGCTT
 TACCCTGGCCTTCTGCCTGATCTGGCGAGCACTGGGCGTCTTTGCTGACTCAGGTGATTAAGTGGTTC
 CGGACCATCCCGTAACCTTCAAGGACCAAGTTCATCATTGCCACGGAGGGCTCCGTGGCCCATCTGCT
 TTGCACTGGTGTCTCCTCCTGCTACTGTGTTCCCGAAAAGAAGCTGTTTCATCACGGCTGCTATTGT
 CGTTATATTCTTCACTGTCTTATCCTGGGTATAACCATCCGGCCACTGGTGGAAATTTCTGATGTTAAG
 AGATCCAATAAGAAGCAGCAAGCTGTCAGTGAAGAGATCCACTGTCGGTTTTTTGATCATGTGAAGACTG
 GGATTGAAGATGTGTGGACACTGGGGTCACAACCTTCTGGAGAGACAAGTTAAGAAGTTTGTGACAA
 ATACCTTCGGAAGCTTCTGATTCGGGAAAACCAACCAAGTCCAGTATTGTGCTTATATAAAAAGCTT
 GAGATAAAGCATGCCATTGAAATGGCAGAGACAGGGATGATAAGCACTGTCCCCTCATTTGCATCTCTCA
 ATGACTGCCGTGAAGAGAAAATAAGGAAGCTCACGCCAGGCGAAATGGATGAAATTAGAGAGATATTATC
 ACGGAATCTCTATCAAATCCGTCAGCGGACCTGTCTATAACAGACACAACCTGACGGCAGACACAAGC
 GAGAGGCAAGCAAGGAGATCCTGATTCGACGGCGGCACAGTCTTCGGGAAAAGTCTCAGGAAAGACAACA
 GCTCAAACCGGAGCGCAGGGCTTCCACTTCAACCTCCCGATATTTATCCTTACCTAAGAACACAAGCT
 TCCAGAGAAGCTGCAGAAGAAGAAGGTTTCAAATGCAGATGGAAATAGCAGCGACTCGGACCCAGAT
 GTTGAACCACTGTGCTCAATTTGCAGCCAGGACCAGGCGCTTCTTCCAGATCAGTTCTCAAAGAAAG
 CCTCCCAGGCTACAAAATGGAATGGAAGAACGAGGTGGATGTGGGTTCTGTGCGAGTGCCCCCAGCGT
 CTCTCCAGCGCCCCGAGTAAAGACGGGGCACCCAAACACCGGGTTGCTGAGGCAGCCCTGCTCTCC
 AAAGACCAACGGTTTGGCCGGGTAGGGAAGACAGTTTGAAGTGAAGACGTTCCACCAAGCCCCACCAA
 GGTTGGTGCAGCAGCGTCAGAACCAGGAAAGGCCGCTTGGCAATGAAAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221209 protein sequence

Red=Cloning site Green=Tags(s)

MGPRGTAHSVRAPLSWLLLLLLSLQVAVPAGALAEITLLDAPRARGASSNPPSPASVVAPGTTTPEESRLP
VFTLDYPHVQIPFEITLWILLASLAKIGFHL YHKLPTIVPESCLLIMVGLLLGGIIFGVDEKSPPAMKTD
VFFLYLLPPIVLDAGYFMPTRPFFENFGTIFWYAVVGTWNSIGIGVSLFGICQIEAFGLSDITLLQNL
FGSLISAVDPVAVLAVFENIHVNEQLYILVFGESLLNDAVTVVLYNLFKSFQMKTIQTVDVFAGIANFF
VVGIGGVLIGILLGFIAAFTRFTHNIRVIEPLFVFLYSYLSYITAEMFHL SGIMAITACAMTMNKYVEE
NVSQKSYTTIKYFMKMLSSVSETLIFIFMGVSTVGKNHEWNWAFVCFTLAFCLIWALGVFVLTQVINWF
RTIPLTFKQDFIIAYGGLRGAICFALVLLPATVFPKRLFITAAIVVIFFTVFLGITIRPLVEFLDVK
RSNKKQQAVSEEIHCRRFFDHVKTGIEDVCGHWGHNFRDKFKKFDKYLKLLIRENQPKSSIVSLYKKL
EIKHAIEMAETGMI STVPSFASLNDCREEKIRKLTGEMDEIREILSRNLYQIRQRTL SYNRHNL TADTS
ERQAKEILIRRRHSLRESLRKDNSSNRERRASTSRYLSLPKNTKLPEKLQKKKVSADGNSSDSDPD
VGTTVLNLQPRTRRFLPDQFSKKASQAYKMEWKNEVDVGSVRVPPSVSPAPRSKGGTQTPGLLRQPLLS
KDQRFGRGREDSLTEDVPPKPPRLVRRASEPGNRKGRLGNEKP

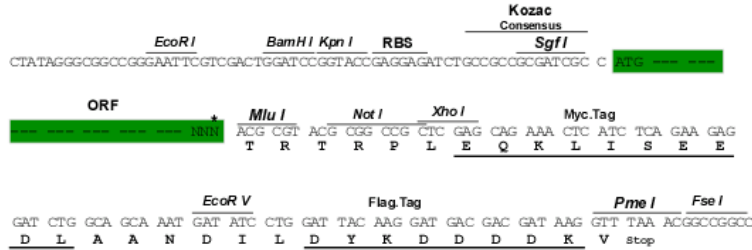
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033289

ORF Size: 2445 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_001033289.2](#), [NP_001028461.2](#)

RefSeq Size: 3493 bp

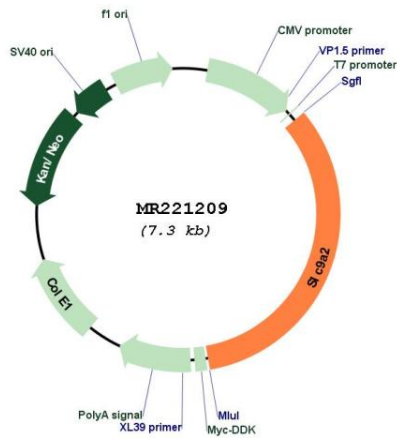
RefSeq ORF: 2445 bp

Locus ID: 226999

Cytogenetics: 1 19.66 cM

MW: 91.6 kDa

Product images:



Circular map for MR221209