

Product datasheet for MC223940

Slc12a2 (NM_009194) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a2 (NM_009194) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc12a2
Synonyms: 9330166H04Rik; mBSC2; Nkcc1; sy-ns
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223940 representing NM_009194
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCCCGGGCCCGCGGCCCTCGTCTGGCGCCCCGCGGCCCGCCGGGATGGGGACGCGCCGCTGG
 CTGCCCGCCGGGTGGACCTGCCCGGCACGGCCGTGCCCTCCGGCCAAGAGGATGCTACTACGGCTGG
 GAGGCAGGCTGGCGGGGGTGC GCGGAGAGGGAACCCAGCGGGGGCGATGGGCTGGGCAGACCTCTG
 GGGCCACCCAGCCAGAGCCGCTTCCAGGTGGACCCGTTTCCGAGAACGCGGGGGCGGCCGCGCGG
 CTGCGGGCGGGCGGGCGGGCTGCGGGTGC GGGCGGGCGGGCAAGGAGACCCCGCGGCCGGAA
 AGCCGGCGGTGAGAGCGGCTGGCCAAGGGCAGCGAGGAAGCCAAGGGCCGCTTCCGCGTGAACCTCGTG
 GACCCGGCTGCCTCGTCTCGCGGACGACAGCCTGTCCGATGCGGGGGGTGGTGGCGACGGGCCCA
 ACGTGAGCTTCCAGAACGGCGGGGACACGGTGTGAGCGAGGGCAGCAGCCTGCACTCGGGGGTGGCAG
 TGGACACCACCAGCAGTACTACTATGACACCCACACCAACACCTACTACCTGCGCACCTTCGGCCACAAC
 ACCATGGACGCGGTGCCAGGATCGACCACTACCGGCACACGGCCGCGCAGCTGGCGGAGAAGTGTCC
 GGCCAGCCTGGCAGAGCTCCACGATGAGCTGGAAAAGAACCTTTTGAGGATGGCTTTGCGAATGGAG
 AGAAAGTACTCCAACCAGAGATGCTGTGGTCGCATACACTGCCGAGAGTAAAGGAGTTGTAAGTTTGGC
 TGGATCAAGGTGTATTAGTCCGCTGCATGTTAAACATTTGGGGTGTGATGCTCTTTATTAGATTGTCAT
 GGATCGTGGTCAAGCTGGGATAGTCTCTCTGTCGTCGTAATAGCAATGGCCACTGTTGTGACAACTAT
 CACAGGATTGTCTACTTCAGCAATAGCTACCAATGGGTTTCGTGAGAGGAGGAGGAGCTACTATTTAATC
 TCTAGAAGTCTAGGGCCGAATTTGGTGGTGAATTTGGCTTGATCTTTGCTTTTGCCAATGCGGTGGCCG
 TTGCTATGTATGTGTCGATTCCGAGAGACTGTGGTGGAGCTGCTTAAGGAACATTCCATACTTATGAT
 AGATGAAATCAATGATATCCGAATTATTGGAGCCATTACAGTCGTGATTCTTCTGGGCATCTCAGTGGCT
 GGATGGAGTGGGAAGCAAGGCTCAGATTGTGCTGCTGGTATCCTTCTCTGGCCATCGCCGACTTCG
 TCATAGGACGTTTATCTCACTGGAGAGCAAGAAGCCCAAGGGTTTCTTTGGCTATAAATCTGAAATATT
 TAATGAGAACTTTGGCCGGATTTTCGAGAAGAAGAGACTTTCTCTGTATTTGCCATCTTTTTCTCT
 GCTGCAACTGGTATTCTAGCTGGAGCAAATATCTCAGGTGATCTTGCAGATCCTCAGTCAGCCATACCCA



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AAGGAACACTCTTAGCCATTTTGATTACTACAGTGGTTTACATAGGAATTGCAGTGTCTGTGGGTCGTG
 TGTGTTCCGGATGCCACTGGCAATGTTAATGATACCATTACAACAGAGCTGACAACTGTACTTCTGCA
 GCCTGCAAATAAATTTGACTTCTCTTATTGTGAGAGCAATACTTGTCTTACGGGCTAATGAACAACT
 TTCAGGTGATGAGCATGGTGTGAGGATTTGCACCCCTTGATCTCTGCAGGGATCTTTTCAGCCAGCTCTC
 GTCAGCACTAGCATCTCTGTGAGTGTCCCAAAATATTCAGGCTCTATGTAAGGACAATATCTACCCA
 GCTTTCCAGATGTTTGTAAAGGTTATGGGAAAAATAATGAACCGCTTCGTGGTTACATCTTAACATTTT
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 TGCATCGTATGCCTTAATCAACTTTTCAGTATTCCATGCATCACTTGCAAAATCTCCAGGATGGCGTCT
 GCATTCAAATACTACAACATGTGGATCTCCCTTATTGGAGCAATCTTTGTTGCATAGTGATGTTTGTCA
 TTAAGTGGTGGGCTGCGTTGCTCACATATGTGATAGTCCTTGGGCTGTACATTTATGTTACTTACAAAA
 ACCAGATGTGAACTGGGATCCTCCACACAAGCGCTGACTTACCTCAGTGCCTGCAGCATTCAATCCGT
 CTTTCTGGGGTGGAGGACCATGTGAAAACTTCAGACCACAGTGCCTTGTAAATGACAGGTTCTCCAACT
 CACGGCCTGCTTACTTCACTTGTTCATGACTTACGAAAAATGTTGGTTTAAATGATCTGTGGCCATGT
 GCATATGGGCCCCAGAAGACAAGCTATGAAAGAGATGTCCATTGATCAAGCCAGATATCAGCGATGGCTC
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 TGATGCAGGCTGCTGGACTTGGTCGTATGAAGCCAAACACTTGTCTGGGATTTAAGAAAGATTGGTT
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 GTTGTGTTTATCCGCTGAAGGAAGGACTGGATATATCACACCTCCAAGGTGAGGAAGAATTATTATCTT
 CACAAGAAAAATCACCTGGTACCAAGGATGTGGTAGTAAATGTGGATTACAGTAAAAAGTCAGATCAAGA
 TACTTGCAAAATCATCTGGTGAATAATCCATTACACAGAAAGATGAGGAAGAGGATGGCAAGACTCCAAC
 CAGCCACTGTTGAAAAAGAATCCAAAGGCCCTATTGTGCCTTTAAATGTAGCTGACCAAAAGCTTCTTG
 AAGCTAGCACACAGTTTCAGAAAAACAAGGGAAGAATACTATAGATGTCTGGTGGCTTTTGTGATGG
 AGTTTGGACATTGTTGATACCCTATCTTCTGACTACCAAGAAAAAGTGGAAAGATTGTAAGATCCGAGTA
 TTCATTGGTGGAAAAATAAACAGAAATAGACCATGACCGGAGAGGATGGCTACTTTATTGAGTAAATTC
 GGATAGACTTCTCTGATATCATGGTCTTGGAGATATCAACACCAAGCCAAAAAAGAAAAATATTATTGC
 TTTTGTGACATGATCGAGCCGTACAGACTTACGAAAGATGATAAAGAACAGGACATTGCAGATAAGATG
 AAAGAAGATGAGCCTTGGCGAATCACAGATAATGAGCTTGGCTTTATAAGACTAAGACATATCGACAGA
 TCAGGTTAAATGAATTATTAAGGAGCATTCAAGCACAGCTAACATTATTGTCATGAGTCTTCCAGTCGC
 ACGGAAAGGCGCTGTGTCCAGTGTCTGTATATGGCTTGGTTAGAAGCTCTCTCGAAGGACCTGCCACCA
 GTCCTCTGGTTCGTGGGAATCATCAGAGCGTCTTACCTTCTACTCA~~TAA~~

~~ACGCGT~~ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_009194

Insert Size:

3621 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_009194.3](#), [NP_033220.2](#)

RefSeq Size: 6520 bp

RefSeq ORF: 3621 bp

Locus ID: 20496

UniProt ID: [P55012](#)

Cytogenetics: 18 32.15 cM

Gene Summary: Electrically silent transporter system. Mediates sodium and chloride reabsorption. Plays a vital role in the regulation of ionic balance and cell volume.[UniProtKB/Swiss-Prot Function]