

Product datasheet for MC223609

Slc12a5 (NM_020333) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a5 (NM_020333) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc12a5
Synonyms: KCC2; mKIAA1176
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223609 representing NM_020333
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCAACAACCTGACGGACTGCGAGGACGGCGATGGGGAGCCAACCCCGGTGATGGCAACCCCAAAG
 AGAGCAGTCCCTTCATCAACAGCACGGACCGGAGAAGGGCAGAGAGTACGATGGCAGGAACATGGCCCT
 GTTTGAGGAGGAGATGGACACCAGCCCCATGGTATCCTCCTGCTCAGTGGGCTGGCCAACCTACACCAAC
 CTACCCAGGGAAGTAGAGAGCATGAAGAAGCAGAAAATAATGAGGGTGGAAAAAGAAGCCGGTGCAGG
 CTCTCGAATGGGCACCTTCATGGGTGTGTACCTGCCGTGCCTGCAGAACATCTTTGGTGTATCCTCTT
 CCTGCGGCTCACGTGGGTGGTGGGCATCGCGGGCATCATGGAGTCCTTCTGTATGGTCTTCATTTGCTGC
 TCCTGTACGATGCTCACAGCCATTTCCATGAGTGAATCGCAACCAATGGTGTGTGCTGCTGGTGGCT
 CGTACTACATGATTTCCAGGTCTCTGGGCCGGAGTTGGGGGCGCCGTGGGCTCTGCTTCTACCTGGG
 CACCACCTTTGCTGGGGCTATGTACATCCTTGGCAGATCGAGATCCTGCTGGCTTATCTCTTCCAGCT
 ATGGCCATCTCAAGGCAGAAGATGCCAGTGGGAGGCGGCCCATGCTGAACAACATCGGGGTATG
 GCACCTGTGTGCTCACCTGCATGGCCACCGTTGTCTTTGTGGGTGTCAAGTACGTCAACAAGTTTGCCTT
 GGTCTTCTGGGTTGCGTCATCCTGTCCATCCTGGCCATCTATGCAGGGTGCATCAAGTCTGCCTTCGAC
 CCACCAATTTCCCGATCTGCCTCCTGGGAACCGCACGCTGTCTCGCCATGGCTTTGATGTCTGTGCCA
 AGCTGGCTTGGGAAGGAAATGAGACAGTGACCACCGGCTCTGGGGCCTTTTCTGCTCCTCCCGCCTCCT
 CAATGCCACCTGTGATGAGTACTTACCCGAAACAATGTCACAGAGATCCAGGGCATTCTGGTGTGCTGCC
 AGTGGTCTCATCAAAGAGAACCTGTGGAGTTCTTACCTGACCAAAGGGGTGATTGTGAGAGGCGTGGGA
 TGCCCTCTGTGGCCTGGCAGACGGTACCCCGTAGACATGGACCACCCCTATGTCTTCAAGTATGAC
 CTCCTACTTACCCTGCTCGTTGGTATCTACTTCCCCTCAGTACAGGGATCATGGCTGGCTCAAACCGA
 TCTGGAGACCTGCGGGATGCCAGAAGTCTATCCCTACTGGAATATCCTGGCCATTGCTACCACCTCTG
 CTGTCTACATCAGCTCTGTTGTTCTGTTTGGAGCCTGCATCGAGGGGGTGTCTTACGGGACAAGTTTGG
 GGAAGCTGTGAATGGCAACTTGGTGGTGGGCACCTGGCCTGGCCTTCTCCCTGGGTGCATCGTCATAGGC
 TCTTTCTCTCTACCTGTGGGGTGGATTACAGAGCCTCACAGGGGCCACCGTCTGCTGCAGGCCATCT



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CCCGGGATGGCATAGTGCCCTTCTGCAGGTCTTTGGCCATGGCAAAGCTAATGGAGAGCCAACCTGGGC
 GCTGCTGCTGACTGCCTGCATCTGTGAGATCGGCATCCTCATAGCCTCCCTGGATGAGGTCGCCCCATA
 CTTTCCATGTTCTTCTAATGTGTTACATGTTTGTGAACCTGGCTTGTGCGGTGCAGACGCTGCTGAGGA
 CACCCAACCTGGAGGCCACGATTCGCTATTACCACTGGACTCTCTCCTTCTGGGCATGAGCCTCTGCCT
 GGCCCTCATGTTCAATTTGCTCCTGGTACTACGCACTGGTGGCCATGCTCATTGCCGGACTCATTTATAAG
 TACATCGAGTACCGGGGGGGGAGAAGGAGTGGGGGATGGAATCCGAGGCCTGTCTCTCAGTGCAGCAC
 GCTATGCTCTCTTGCCTGGAGGAAGGACCTCCGCATACGAAGAAGTGGAGGCCAGCTGCTGGTGTCT
 GGTGCGTGTGGACCAGGATCAGAACGTGGTGCATCCGCAGCTGCTCTCCCTGACCTCCCAGCTCAAGGCA
 GGAAGGGCCTGACCATTGTGGGCTCCGTCCTTGAGGGCACCTTTCTGGACAACCATCCACAGGCTCAGC
 GGGCAGAGGAGTCTATCAGGCGCCTGATGGAGGCTGAGAAGGTGAAGGGCTTCTGCCAGGTAGTGATCTC
 CTCCAACCTGCGTGTGTTGTGCCACCTGATCCAGTCTGGGGGCTCGGGGATTGCAACACAATACC
 GTGCTGGTGGGCTGGCCTCGCAACTGGAGGCAGAAGGAGGATCATCAGACATGGAGGAATTCATCGAAC
 TGGTCCGGAAACTACAGCCGGCCACCTCGCCCTGCTGGTACCAAGAATGTTTCCATGTTTCCCGGAA
 CCCTGAGCGCTTCTCGGAGGGCAGCATTGACGTGTGGTGGATTGTGCACGACGGGGCATGCTCATGCTG
 CTGCCCTTCTGTGCGACACCACAAGGTCTGGAGGAAATGCAAATGCGGATCTTACCCTGGCCAGA
 TGGACGATAACAGTATCCAGATGAAGAAGGACCTGACCACGTTTTCTGTACCATTACGCATTACTGCAGA
 GGTGGAGGTGGTGGAGATGCATGAGAGCGACATCTCGGCATACACCTACGAGAAGACATTAGTAATGGAG
 CAACGATCTCAGATCCTCAAACAGATGCACCTCACAAGAACGAGCGGGAACGGGAGATCCAGAGCATCA
 CAGACGAGTCTCGGGGCTCCATTCGGAGGAAGAATCCAGCCAACCCCGGCTCCGCTCAATGTTCCCGA
 AGAGACAGCGTGTGACATGAGGAGAAGCCAGAGGAGGAGGTGCAGTGTATCCATGACCAGAGTGTCCC
 AGCTGCCCTAGCAGCTCGCCATCTCCAGGGGAGGAGCCGAGGGGAGAGGGAGACAGCCAGAGGTGC
 ATCTTACCTGGACCAAGGATAAGTCAGTGGCAGAGAAGAATAAAGGCCCAAGTCCCGTCTCTCCGAGGG
 CATCAAGGACTTCTTACGATGAAGCCGGAGTGGGAAAACCTTGAACCAGTCCAATGTACGGCGCATGCAC
 ACAGCTGTGCGGCTGAACGAGGTATCGTGAATAAATCTCGGGATGCCAAGCTAGTTTTGCTCAACATGC
 CCGGGCCTCCCCGCAACCGCAATGGGGATGAAAACACTACATGGAATTCTTGAGGTCTCACTGAGCAACT
 GGACCGGTGATGCTGGTCCGCGGTGGCGGCCGAGAGGTCATACCATCTACTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_020333
- Insert Size:** 3348 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_020333.2](#), [NP_065066.2](#)

RefSeq Size: 6042 bp

RefSeq ORF: 3348 bp

Locus ID: 57138

UniProt ID: [Q91V14](#)

Cytogenetics: 2 H3

Gene Summary: Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for neuronal Cl(-) homeostasis. As major extruder of intracellular chloride, it establishes the low neuronal Cl(-) levels required for chloride influx after binding of GABA-A and glycine to their receptors, with subsequent hyperpolarization and neuronal inhibition. Involved in the regulation of dendritic spine formation and maturation.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1.