

Product datasheet for MC223477

Slc12a7 (NM_011390) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a7 (NM_011390) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc12a7
Synonyms: AA408796; D13Ertd261e; Kcc4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223477 representing NM_011390
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACGAACTTTACGGTGGTGCCGGTGGAGGCGCGCCGACGGCGCCGGGACGAAGCTGCTGAGC
 GCACGGAAGAACCCGAGTCTCCCGAGAGCGTGGATCAAACCTCCCCTACGCCGGGAGATGGAACCCCGAG
 GAAAAACAGCCCTTTCATCAATAATGTGGAGGTGAAAGAGAGAGCTACTTCGAGGGGAAGAACATGGCA
 CTTTTTGAGGAAGAGATGGACAGCAACCCCATGGTGTCATCACTGCTGAACAAGCTGGCCAACTATACCA
 ACCTGAGCCAGGGTGTGGTAGAGCATGAGGAAGATGAGGACAGCCGGAGGCGAGAGGTCAAGGCCCCACG
 CATGGGCACCTTCATCGGAGTCTACCTGCCGTGCCTGCAGAACATCTTGGGTGTTATCCTTTTCTCGCT
 CTGACCTGGATTGTGGGGCAGCTGGTGTATGGAGTCTTCTCATTGTGGCCATGTGCTGCACCTGTA
 CAATGCTGACAGCCATCTCCATGAGCGCCATCGCTACCAACGGCGTGGTCCCAGCGGGAGGCTCGTACTA
 CATGATCTCCCGTTCGCTGGGGCCTGAGTTTGGAGGTGCTGTTGGCCTCTGCTTCTACTTGGGCACGACA
 TTTGCAGGCGCCATGTACATCTGGGTACCATCGAGATCTTCTGACCTACATCTCTCCAAGTGGCGCCA
 TCTCCAGGCAGAGACGGCGGATGGCAGGCGCCGCACTGTTGAACAACATGCGTGTGTATGGCAGCTG
 TGCCCTGGCACTCATGGCGGTGGTGGTCTTTGTTGGTGTCAAATATGTCAACAAGCTGGCACTGGTCTTC
 TTAGCCTGTGTTGTGCTTCTATCCTGGCCATCTATGCTGGTGTCAAGACAGCCTTTGCCCCACCTG
 ACATCCCGGTCTGCCTTCTAGGGAACCGCACGCTGGCAAATCGCAACTTTGATACCTGTGCCAAGATGCA
 GGTTGTGACGAACGGTACAGTGACCACTGCACTCTGGCGCCTTCTGCAATGGTCCAGCTTGGGTGCC
 ACCTGTGATGAGTACTTTGCACAGAACAACGTTACTGAGATACAGGGCATCCCTGGTGTGCCAGTGGTG
 TCTTCTGGATAACCTGTGGAGCACATATTCAGACAAGGGGGCATTGTGGAAAAGAAAGGTGTGTCCTC
 AGTGCCTGTGTCGAGGAGAGCCGGCCTGGTGGATTGCCATACGTCCTCACAGACATCATGACCTACTTC
 ACCATGCTAGTTGGCATCTACTCCCGTCTGTAAGTGGGATCATGGCAGGATCCAACCGCTCCGGGGACC
 TCAAAGACGCCAGAAAGTCTATTCCAACAGGGACCACTTGGCCATCGTACTACATCTTTTCATTTATCT
 TTCTGATAGTGTGTTGGGGCTGCATTGAAGGTGTAGTCTGCGAGATAAGTTGGGGAGGCCCTTG
 CAAGGGAACCTGGTCACTGGCATGCTGGCCTGGCCATCTCCCTGGGTATTGTGATTGGCTCCTTCTTCT



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CCACCTGTGGTGCTGGCCTGCAGAGCCTGACTGGGGCACCCCGCCTACTGCAGGCCATTGCGCGTGACGG
 AATCATCCCTTCTACAGGTGTTTGGTCATGAAAGGCCAACGGGGAGCCACATGGGCCCTGCTGCTC
 ACGGCTCATCTGTGAGACCGGTATCCTCATCGCCTCCTGGACAGTGTGGCCCCATCCTGTCCATGT
 TCTTCTCATGTGCTACATGTTTCGTCATCTGGCCTGTGCCGTACAGACCCTGCTACGCACACCCAACTG
 GCGTCCACGCTTCAAGTTCTACCACTGGACCCTCCTTCTTGGGATGAGTCTCTGCCTCGCGTGATG
 TTCATCTGCTCCTGGTACTACGCCCTTTTCGCCATGCTCATTGCCGGCTGCATCTACAAGTACATCGAGT
 ACCGCGGGGCTGAGAAGGAGTGGGGGATGGCATCAGGGCCCTGCACTGAATGCTGCCGCTACGCCCT
 GCTGCGTGTGGAACATGGGCCCCACATACCAAGAAGTGGAGGCCAGGTGTTGGTGTGCTGAACCTG
 GACTCGGAGCAGTGTGTAAGCACCCCCGCTGCTGCTTACCTCTCAGCTGAAGGCTGGCAAGGGCC
 TGACCATCGTGGGATCTGTGCTAGAGGGCACCTACTTAGACAAGCATGTGGAGGCCAGAGGGCTGAAGA
 GAATATCCGGTCTCTGATGAGTGCAGAGAAGACGAAGGGCTTCTGCCAGCTGGTGGTGTCTCCAACCTG
 CGAGATGGTGGTCCCACCTGATCCAGTCGGCTGGCCTCGGTGGCATGAAACACAACACTGCTCCTCATGG
 CCTGGCCAGAGGCTTGAAGGAGGCAGATAATCCTTCTCCTGGAAGAACTTTGTAGACACAGTCCGTGA
 CACTACAGCAGCAGTACAGGCCCTTGTGGTGGCAAGAACATTGACTTATCCCACAAAACCAAGAGCGC
 TTCAGCGACGGGAACATTGATGTGTGGTGGATCGTGCATGACGGGGCATGCTCATGCTTCTGCCCTTC
 TGCTGCGCCAGCACAAGGTGTGGCGAAAGTGCCGGATGCCATCTTCACTGTGGCCAGGTGGATGATAA
 CAGCATCCAGATGAAGAAGGACCTGCAGATGTTCTGTACCACCTCAGGATCAGTGCCGAGGTGGAGGTG
 GTGGAGATGGTTGAAAATGATATTTCCGCATTCACCTATGAGAAGACGCTAATGATGGAGCAGAGGTAC
 AGATGCTGAAACAGATGCAGTTGTCAAAGAATGAGCGGGAGAGAGAGGCCAGCTGATTCATGACAGGAA
 CACTGCATCCCATACCACAGCAACTGCTAGAACCAAGCCCCACCAACACCCGACAAAGTGCAGATGACA
 TGGACGAAAGAGAACTCATTGCAGAGAAACACAGGAACAAGGACTGGCCATCAGGCTTCAAAGACC
 TCTTCAGCCTAAAGCCGACCACTCAACGTGAGGAGGATGCATACTGCTGTGAAGCTCAACGGCGTAGT
 TCTCAACAAGTCCCAGGATGCCCACTGGTCTGCTGAATATGCCAGGCCCCCAAAAAGTCGGCAGGGG
 GACGAGAAGTACATGGAGTTCTTCGAGGCTGACGGAAGGGCTGAACAGGGTCTCCTGGTCAAGGGTG
 GTGCCGAGAAGTCATCACCATCTACTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_011390

Insert Size:

3252 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_011390.2](#), [NP_035520.1](#)

RefSeq Size: 5131 bp

RefSeq ORF: 3252 bp

Locus ID: 20499

UniProt ID: [Q9WVL3](#)

Cytogenetics: 13 40.15 cM

Gene Summary: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (By similarity). May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification.[UniProtKB/Swiss-Prot Function]