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Product datasheet for MC229352

Slc12a4 (NM_001253804) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a4 (NM_001253804) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc12a4
Synonyms:	AW546649; KCC1; RBCKCC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC229352 representing NM_001253804
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTCACTTCACCGTGGTGCCGGTGGACGGGCCGCGACGCGGCGACTATGACAACCTCGAGGGGCTCA
GTTGGGTGGACTACGGCGAGCGCGCCGAGCGGGAAGACTCGGACGGTGAGGGACAGGGTAACCACAGAGA
GAATAGCCCTTTCCTTTGCCCTTTGGACGCCTCCAGAGGAAATGACTACTATGACCGGAACTTGGCACTG
TTTGAGGAGGAGCTGGACATCCGCCCAAAGGTGTCATCTCTCCTGGGCAAGCTTGTCAGCTATACCAACC
TCACCCAAGGAGCCAAGGAGCACGAGGAGGCTGAGAGTGGAGAAGGTGGCCGACGGAGAGCTGCCAAGGC
TCCCAGCATGGGCACACTCATGGGAGTGTACCTGCCCTGCCTGCAGAATATCTTTGGGGTCATCCTCTTC
CTGCGGCTGACCTGGATGGTGGGCACAGCTGGTGTGCTGCAGGCTCTCCTCATTGTCCTCATCTGCTGCT
GCTGTACCCTGCTGACAGCCATCTCCATGAGCGCCATTGCCACCAACGGCGTGGTTCCAGCTGGTGGCTC
GTACTTCATGATTTCCCGCTCTTTGGGACCAGAATTCGGAGGTGCTGTGGGCCTGTGCTTCTACCTGGGG
ACGACATTTGCAGCAGCCATGTATATCCTAGGGGCCATTGAGATCTTGCTGACCTACATTGCTCCGCCAG
CTGCCATCTTTTACCCATCGGGCACCCATGACATGTCAAGCGCCACCTTGAATAACATGAGAGTGTATGG
GACCATTTTCCTGACTCTGATGACCCTAGTGGTGTTTGTCGGTGTCAAGTACGTGAACAAGTTTGCCTCG
CTCTTCCTGGCCTGCGTGATCATCTCCATCCTTTCCATTTACGCGGGAGGCATCAAGTCCATTTTTGACC
CTCCCGTGTTTCCGGTGTGTATGCTGGGCAATAGGACCCTGTCTCGGGACCAGTTTGACATCTGTGCCAA
GACAGTCGTGGTGGACAATGAGACAGTGGCCACCCGGCTGTGGACTTTCTTCTGCCACAGCCCCAACCTT
ACTGCTGACTCCTGTGACCCCTACTTCCTGCTCAACAATGTGACAGAGATTCCTGGCATACCTGGGGCAG
CTGCTGGTGTGCTCCAGGAGAACCTCTGGAGCGCTTACCTGGAGAAGGGGGAGGTCGTGGAGAAGCATGG
GCTGCCGTCCACAGACACCCTCGGCCTAAAGGAGAGCCTGTCCCTGTATGTGGTGGCTGACATCGCCACG
TCCTTCACCGTGCTGGTTGGCATCTTTTTCCCTTCTGTGACAGGCATCATGGCTGGTTCAAACCGCTCCG
GGGATCTCCGTGACGCCCAGAAGTCTATCCCAGTGGGGACCATTCTGGCCATTGTTACCACTTCGCTGGT
GTACTTCAGCAGTGTGATCCTCTTCGGTGCCTGCATCGAGGGTGTGGTACTCCGGGACAAGTACGGTGAT
GGCGTCAGCAGGAACCTGGTGGTGGGCACCCTGGCCTGGCCTTCGCCTTGGGTCATCGTGGTTGGCTCCT

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TCTTCTCAACATGTGGGGCTGGTCTCCAGAGCCTCACTGGGGCGCCACGTTTACTGCAAGCCATTGCCAA
GGATAACATCATCCCCTTCCTCCGGGTGTTTGGCCATGGGAAAGCAAACGGTGAACCGACGTGGGCCCTC
CTCCTGACAGCGCTCATCGCTGAGCTGGGCATCCTGATTGCTTCCCTTGACATGGTGGCCCCCATTCTGT
CCATGTTCTTTCTGATGTGTTACCTCTTTGTAAACTTGGCCTGTGCCGTGCAGACACTTCTGAGGACCCC
CAACTGGCGGCCCCGGTTCAAGTACTATCACTGGACATTGTCTTTCCTAGGCATGAGTCTCTGCCTGGCT
CTTATGTTTGTCTCCTCCTGGTACTATGCCCTAGTGGCCATGCTCATCGCAGGCATGATCTACAAGTACA
TCGAGTACCAAGGGGCCGAGAAGGAGTGGGGCGATGGGATCCGAGGCCTGTCCCTGAGTGCGGCACGCTA
TGCACTGCTGAGGCTGGAGGAAGGGCCTCCTCACACCAAGAACTGGCGGCCTCAGCTCCTGGTGCTGCTT
AAGTTAGACGAAGATCTTCATGTGAAGTACCCCCGGCTCCTCACCTTCGCCTCCCAGCTGAAGGCCGGGA
AGGGCCTGACAATCGTTGGCTCTGTCATCCAGGGCAGCTTTCTGGAGAGCTATGGTGAAGCCCAGGCCGC
TGAGCAGACCATCAAGAACATGATGGACATTGAGAAAGTCAAAGGCTTCTGCCAGGTAGTGGTGGCCAGC
AAGGTTCGAGAGGGACTGGCCCACCTCATCCAGTCTTGCGGCCTGGGCGGCATGAGACACAACTCCGTGG
TGCTGGGCTGGCCCTATGGCTGGCGACAGAGTGAGGACCCACGTGCCTGGAAGACCTTTATTGACACTGT
GCGCTGCACCACAGCTGCCCACCTGGCCCTGCTGGTGCCAAAGAACATAGCTTTCTACCCCAGCAACCAC
GAGCGCTACCTGGATGGCCATATCGACGTGTGGTGGATCGTGCATGATGGAGGCATGCTTATGCTGCTGC
CCTTTCTGCTGCGCCAGCATAAGGTTTGGAAGAAGTGCCGGATGCGCATTTTCACCGTGGCCCAGATGGA
TGACAACAGCATCCAGATGAAGAAGGATCTGGCCATCTTCCTGTATCACCTCCGCCTGGAAGCTGAAGTG
GAGGTGGTAGAGATGCACAACAGTGACATCTCTGCCTATACCTATGAGCGGACACTGATGATGGAGCAGC
GGTCTCAGATGCTGCGGCAGATGAGGTTGACCAAAACTGAGCGGGATCGAGAGGCCCAGCTGGTAAAGGA
CAGGCACTCGGCTCTTAGGCTGGAGAGCCTCTACTCCGACGAGGAGGAAGAGTCTGTGGCAGGGGCCGAC
AAGATCCAGATGACGTGGACCAGAGACAAGTACATGGCTGAGCCCTGGGACCCCAGCCACGCCCCTGACA
ACTTCCGGGAGCTGGTGCACATTAAGCCGGACCAGTCCAACGTGCGGCGCATGCACACTGCTGTGAAGCT
CAACGAGGTCATTGTCACGCGCTCCCACGATGCCCGTCTGGTTTTGCTGAACATGCCTGGCCCCCCTAAG
AACAGCGAGGGCGACGAGAACTACATGGAATTCCTTGAAGTCCTAACCGAGGGCCTTGAACGGGTGTTGT
TGGTGCGTGGCGGCGGCCGGGAAGTCATCACCATCTATTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001253804

Insert Size: 3264 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001253804.1, NP_001240733.1
RefSeq Size:	3832 bp
RefSeq ORF:	3264 bp
Locus ID:	20498
Cytogenetics:	8 53.06 cM
Gene Summary:	Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells. May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).