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Product datasheet for RN217462

Slc12a7 (NM_001013144) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a7 (NM_001013144) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc12a7
Synonyms:	Kcc4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217462 representing NM_001013144 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCACGAACTTTACGGTGGTGCCGGTGGAGGCGCGCGCCGACGGCGCCGGGGACGAAGCTGCTGAGC GCACGGAAGAACCCGGGTCTCCCGAGAGCGCGGATCCTGCCTGCCCTACGCCGGGAGATGGAAACCCCAG GGAGAACAGCCCATTCATCAATAATGTGGAGGTGGAAAGAGAGAGCTACTTCGAGGGGAAGAACATGGCG CTTTTTGAGGAAGAGATGGACAGCAACCCCATGGTATCATCACTGCTGAACAAGCTGGCCAACTATACCA ACCTGAGCCAGGGTGTGGTAGAGCATGAGGAAGATGAGGACAGCCGGAGGCGGGAGATCAAGGCCCCACG CATGGGCACCTTCATCGGAGTCTACCTACCGTGCCTGCAGAACATCTTGGGTGTAATCCTTTTCCTGCGC CTGACCTGGATTGTGGGGGCGGCTGGCGTTCTGGAGTCCTTCCTCATCGTGGCCATGTGCTGCACCTGTA CAATGCTGACAGCCATCTCCATGAGTGCCATCGCTACCAACGGTGTGGTCCCAGCGGGAGGCTCATACTA CATGATCTCCCGTTCGCTGGGGCCTGAGTTTGGAGGGGCTGTTGGCCTCTGCTTCTACTTGGGCACAACG TTCGCAGGCGCCATGTACATCCTGGGAACCATCGAGATCTTCCTGACCTACATCTCTCCAAGTGCAGCCA TCTTCCAGGCAGAGACAGCAGACGGCGAGGCGGCCGCGCTGCTGAACAACATGCGTGTGTATGGCAGCTG CGCACTGGCGCTCATGGCCGTGGTGGTCTTCGTCGGAGTCAAATATGTCAACAAGCTGGCCCTGGTCTTC TTAGCCTGTGTTGTGCTTTCTATCCTGGCCATCTATGCTGGTGTCATCAAGACAGCCTTCGCCCCACCTG ACATCCCGGTCTGCCTTCTAGGGAACCGCACGCTGGCGAATCGCAACTTTGATACCTGTGCCAAAATGCA GGTTGTCAGCAATGGCACAGTCACCACCGCGCTCTGGCGCCTCTTCTGCAACGGCTCCAGCTTGGGTGCC TCCTGCGATGAGTACTTTGTGCAGAACAATGTCACTGAGATCCAGGGCATTCCTGGTGTGGCCAGTGGTG TCTTCCTGGATAACCTGTGGAGCACGTATTCGGACAAGGGGGCATTTGTGGAAAAGAAGGGCGTGTCCTC GGTGCCTGTGTCCGAGGAGAGCCGGCCTGGTGGATTGCCATATGTCCTCACAGACATCATGACCTACTTC ACCATGCTAGTCGGCATCTACTTCCCCTCCGTAACGGGGATCATGGCAGGATCCAACCGCTCCGGGGACC TCAAAGATGCCCAGAAGTCCATCCCAACAGGGACCATTCTGGCCATTGTGACTACATCTTTCATTTATCT TTCCTGCATTGTGCTGTTTGGGGCCTGCATCGAGGGTGTAGTCTTGCGAGATAAGTTTGGGGAGGCCCTG CAAGGGAACTTGGTCATTGGCATGCTGGCTTGGCCATCTCCCTGGGTCATCGTGATTGGCTCCTTCTTCT

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CCACCTGTGGTGCTGGCCTGCAGAGCCTAACTGGGGCACCCCGCCTGCTGCAGGCCATTGCACGCGACGG
CATCATCCCCTTCCTGCAGGTGTTTGGCCATGGAAAGGCCAACGGGGAGCCCACGTGGGCCCTGCTGCTC
ACGGCCCTCATCTGTGAGACCGGCATCCTCATCGCCTCCCTGGACAGCGTGGCTCCCATCCTGTCCATGT
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CAGCATCCAGATGAAGAAGGACCTGCAGATGTTCCTGTACCATCTCAGGATCAGCGCCGAGGTGGAGGTG
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CACTGCATCCCACACCGTAGCAACGGCTAGAACTGAAGCCCCACCAACACCTGACAAAGTGCAGATGACA
TGGACGAAAGAGAAACTCATTGCAGAGAAACACAGGAACAAGGACACCGGCACATCAGGCTTCAAAGACC
TTTTCAGCCTAAAGCCGGACCAGTCCAACGTCAGAAGGATGCATACTGCTGTGAAGCTCAATGGTGTGGT
TCTCAACAAGTCCCAGGATGCTCAACTCGTCCTGCTGAATATGCCAGGCCCCCCAAAAAGTCGGCAGGGC
GACGAGAACTACATGGAATTTCTTGAGGTCTTGACCGAAGGGCTGAACAGGGTCCTCCTGGTCAGGGGTG
GTGGCCGGGAAGTCATCACCATCTACTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013144

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).

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_001013144.2, NP_001013162.2
RefSeq Size:	5003 bp
RefSeq ORF:	3252 bp
Locus ID:	308069
UniProt ID:	Q5RK27
Cytogenetics:	1p11
Gene Summary:	Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. 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 (By similarity).[UniProtKB/Swiss-Prot Function]