

## Product datasheet for RN201621

### Slc12a4 (NM\_019229) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a4 (NM_019229) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc12a4
Synonyms:	Kcc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201621 representing NM_019229 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCACTTACCCTGGTGGCGGTGGACGGGCCGCGACGCGGCGACTATGACAACTCGAGGGGCTCA  
GTTGGGTGGACTACGGGGAGCGCCGAGCGGGAAGACTCGGATGGACAGGGTAACCACAGAGAGAATAG  
TCCCTTCTTAGCCCTTTGGACGCCTCCAGAGGAAATGACTACTATGACCGAACCTGGCACTGTTGAG  
GAGGAGCTGGACATCCGCCAAAGGTATCATCTCTCTGGCAAGCTTGTGAGCTATACCAACCTCACCC  
AAGGAGCCAAGGAGCAGGAGGAAGCTGAGAGTGGAGAAGGTGGCCGTCGGAGAGCCGCAAGGCACCCAG  
CATGGGCACCCCTTATGGGAGTGTACCTGCCTGCCTGCAGAATATCTTCGGGGTCATCCTTCTCTCGCG  
CTGACCTGGATGGTGGGCACAGCTGGCGTGTCTGACGGCTCTCCTCATTGTCTCATCTGTTGCTGTGTA  
CCCTGCTGACAGCCATCTCCATGAGTGCCATCGCCACCAATGGTGTGGTCCAGCTGGTGGCTTACTT  
CATGATTTCCCGCTCTTTGGGACCAGAATTCGGAGGTGCTGTGGGCTATGCTTCTACCTGGGGACCACA  
TTTGCAGCAGCCATGTATCCTAGGAGCCATTGAGATCTTGCTGACCTACATTGCTCCACCAGCTGCCA  
TCTTTTACCCATCGGGCACACACGACATGTCAAGCGCCACCTTGAATAACATGCGGGTGTACGGAACCAT  
TTTCTGACTTTTCATGACCCTAGTGGTGTGGTGTGCGGTGCAAGTATGTGAACAAGTTCGCTCACTCTTC  
CTGGCCTGTGTGATCATCTCCATCTCCTCATTACGTGGGAGGCATCAAGTCCGCTTTTGACCCCTCTG  
TTTTTCCGGTGTGATGCTGGGCAATAGGACTCTGTCTCGGACCAAGTTGACATCTGTGCCAAGACAGT  
TGTGGTGGACAATGAGACAGTGGCCACCCGGCTGTGGACTTTCTCTGCCACAGCCCAACCTTACTGCT  
GACTCCTGTGACCCCTACTTCTGCTCAACAATGTGACAGAGATTCTGGCATACTGGGGCAGCTGCTG  
GTGTGCTCCAGGAAAACCTGTGGAGTGTACCTGGAGAAGGGTGGGTTGTGGAGAAGCATGGGCTGCC  
CTCCACAGATACCCTTGGCCTGAAGGAGAGCCTGTCCCTGTATGTGGTGGCCGACATCGCCACATCTTC  
ACCGTGTGGTTGGCATCTTTTCCCTTCTGTAAACAGGCATCATGGCTGGCTCAAACCGTTCGGGGGACC  
TCCGTGATGCTCAGAAGTCTATCCCTGTGGGGACCATTCTGGCTATTGTCACCACCTCACTCGTGTACTT  
CAGCAGTGTGATTCTCTCGGTGCTGCATCGAGGGTGTGGTGTCCGGACAAGTACGGTGTGGCGCT



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AGCAGGAACCTGGTGGTAGGCACCTTGGCCTGGCCTTACCTTGGGTCATCGTGGTCGGCTCCTTCTTCT  
 CAACATGTGGTGCCGGCCTCAAAGTCTCACTGGGGCCACGTTTACTGCAAGCCATTGCCAAGGATAA  
 CATCATCCCCTTCTCCGGGTGTTTGGCCACGGGAAAGCCAATGGTGAGCCAACGTGGGCCCTCCTCCTG  
 ACAGCGCTCATCGCTGAGCTGGGCATCCTCATCGCTCCCTTGACATGGTGGCCCCATTCTTCCATGT  
 TCTTTCTGATGTGTTACCTCTTTGTAACCTTGGCCTGTGCTGTGCAGACACTTCTGAGGACCCCAACTG  
 GCGGCCCGGTTCAAGTACTATCACTGGCGTTGTCTTTCCTGGGCATGAGTCTGTGCCTGGCTCATG  
 TTTGTCTCCTCCTGGTACTACGCCCTAGTGGCCATGGTCATCGCAGGCATGATCTACAAGTACATCGAGT  
 ACCAAGGGCTGAGAAGGAGTGGGGTATGGGATCCGAGGCCGTCCCTGAGTGCCGACGATATGCACT  
 GCTGAGACTAGAGGAAGGGCCTCCTCACACGAAGAACTGGCGGCCTCAGCTCCTGGTGTCTGAAGTTA  
 GACGAAGATCTTCATGTGAAGTACCCTCGGCTCCTCACCTTTGCCTCCCAACTTAAGGCTGGGAAAGGCC  
 TGACAATCGTTGGCTCTGTATCCAGGGCAGCTTTCTGGAGAGCTATGGGGAAGCCAGGCTGTGAGCA  
 GACAATCAAGAACATGATGGAGATTGAGAAAGTAAAAGGCTTCTGCCAGGTAGTGGTGGCCAGCAAGGTT  
 CGAGAGGGGCTGGCCACCTCATCCAGTCTTGGCGCTGGGTGGCATGAGACATAACTCCGTGGTGTCTGG  
 GCTGGCCCTATGGCTGGCGACAGAGTGAAGACCCAGTGCCTGGAAGACCTTTATCGACTGTGCGCTG  
 CACCACAGCTGCCACCTGGCCCTGCTGGTGCCTGCAAGAACATAGCTTTTACCCAGCAACCACGAGCGC  
 TACCTGGAGGGCCACATTGATGTGTGGTGGATCGTGCATGACGGAGGCATGCTGATGCTGTGCCCTTCC  
 TGCTGCGCCAGCATAAGGTTTGAAGAAGTGGCCGATGCGCATTTTACCCTGGCCAGATGGACGACAA  
 CAGCATCCAGTGAAGAAGGATCTGGCCATCTTCTGTATCACCTCCGCCTGGAAGCTGAAGTGGAGGTG  
 GTAGAGATGCACAACAGTGCATCTCGGCTACACCTACGAGCGGACACTGATGATGGAGCAGCGGTCTC  
 AAATGCTGCGACAGATGAGGCTGACCAAAACAGAGCGGGATCGAGAGGCCAGCTGGTGAAGGACAGGCA  
 CTCGGCTCTGAGGCTAGAGAGCCTCTACTCCGACGAGGAGGATGAGTCTGTGACAGGCGCTGACAAGATC  
 CAGATGACATGGACCAGAGACAAGTACATGGCTGAACCTGGGACCCAGCCATGCCCTGACAACCTCC  
 GGGAGCTGGTGCACATTAAGCCGACCAGTCCAATGTGCGGCGTATGCACACTGCTGTGAAGCTCAATGA  
 AGTCATTGTACACGCTCCCATGATGCCCGCCTGGTCTTACTGAACATGCCCGGCCCCCTAAGAACAGT  
 GAGGGTGTGAGAACTACATGGAATTCCTTGAAGTCTAACCCAGGGCCTTGAACGGGTGTTGTTGGTGC  
 GTGGTGTGGCCGGAAGTCATCACCATCTATTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019229
- Insert Size:** 3258 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\\_019229.2](#), [NP\\_062102.1](#)

RefSeq Size: 3724 bp  
RefSeq ORF: 3258 bp  
Locus ID: 29501  
UniProt ID: [Q63632](#)  
Cytogenetics: 19q12  
Gene Summary: may act as a potassium-chloride cotransporter [RGD, Feb 2006]