

Product datasheet for **RN202055**

Slc12a1 (NM_019134) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc12a1 (NM_019134) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc12a1
Synonyms:	Nkcc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202055 representing NM_019134 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGTCAACATCCCTTCCAAGTCAAGTCCATGTTATAAATG
AGGGCCATGGCAGTGGTGCAGCCATGAGTGACAGCACGGACCCCCACATTATGAAGAGACCTCTTTCGG
GGATGAAGCCCAAAACAGACTGAAAATCAGCTTTAGGCCTGGGAATCAGGAGTGTATGAAAATTTCTC
CAAAGTGGAGAGACTGCTAAAACAGACACCACGTTTCACGCCTATGACTCTCACACAAACACATATTACC
TACAAACCTTTGGCCACAACACCATGGACGCCGTCCTCCCAAGATTGAGTACTACCGCAACACCGGCAGTGT
GAGCGGGGCCAAGGTCAACCGGCCGAGCCTGCAGGAGATCCACGAGCAGCTAGCTAAGAATGTGGCTGTG
GCCCTGGTTGAGTGCAGGGTGTCTAATGGAGATGGGATGCCTGGAGATGAGCAAGCAGAAAAACAAGG
AAGAAGACGTGACTGGTGTGTGAAGTTTGGATGGGTGAAAGGTGTGCTGGTGGGTGCATGCTGAACAT
CTGGGGAGTCACTGCTCTTCATTCGCCTCTCCTGGATTGTAGGAGAAGCGGGAATTGGTCTTGAGTCCTT
ATAATCTCTTTCCACCATGGTAACCTCTATCACTGGGTGTCAACTTCTGCAATAGCAACAAACGGGT
TTGTTCTGGAGGTGGAGCCTACTACCTGATTTCCCGAGCTTAGGGCTGAGTTCGGTGGGTCAATAGG
CTTGATTTTGTCTTCGCAATGCAGTGGCTGTGCTATGTATGTGGTGGGTTCGCGGAGACTGTGGTA
GACCTTCTTAAGGAGAGTGATTCAATGATGGTGGATCCAACCAATGACATCCGAATAATCGTTCCATCA
CGGTGGTGATTCTTCTAGGGATCTCAGTAGCTGGGATGGAGTGGGAAGCTAAGGCTCAAGTGATTCTCT
GGTCATTCTACTATTGTATCGCAAACTTCTTATTGGAAGTGTATCCCATCCAACAACGAGAAGAAA
TCCAGAGGCTTCTTCAACTACCAAGCATCTATATTGCGGAAAACCTTTGGGCCAAGCTTTCACAGAGGGAG
AAGGCTTCTTCTCGGTCTTTGCTATCTTTTCCAGCTGCTACTGGGATTCTTGTGGTGGCAACATCTC
TGGAGACCTGGAGGATCCCCAGGACGCCATCCCCAGAGGACCATGCTGGCCATTTTCATCACCACCGTC
GCCTACATAGGTGTTGCTATTTGCGTAGCTGCCTGTGTGGTCCGAGACGCCACTGGGAGCATGAACGACA
CTGTGCTTCTCGGATGAATTGCAATGGGTCCGAGCCTGCGGACTGGGCTACGACTTCTCAAGATGTCA
GCATGAGCCATGCCAGTATGGTTGATGAACAATTTTCAGGTCATGAGCATGGTGTCCGGTTTCGGCCCC



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CTCATCACCGCAGGGATCTTTTCGGCAACACTGTCTTCGGCCCTAGCCTCCCTCGTCAGTGCACCCAAAG
TATTCCAGGCTCTGTGCAAGGACAACATCTTCAAAGGACTTCAGTTCTTCGCAAAGGGCTATGGGAAAAA
CAACGAGCCCCCTGAGAGGGTACTTCCTCACTTTTGTGATAGCCATGGCATTCACTCTCATCGCCGAGCTG
AACGTCATTGCACCTATCATATCCAACCTCTTCCTGGCCCTCATATGCGCTTATTAATTTCTCCTGCTTCC
ATGCCTCGTATGCCAAATCGCCAGGATGGAGGCCGGCATATGGGATTTACAACATGTGGGTATCTCTCTT
CGGAGCCATTTTGTGCTGTGCAGTCATGTTTGTCACTCACTGGTGGCGGCTGTCACTCACCTATGTCATT
GAGCTCTTCCTCTATATCTATGTGACTTATAAGAAGCCAGATGTGAAGTGGGGCTCTCCACACAGGCTC
TGTCTACGTGAGCGCTTAGACAATGCTCTGGAATTAACCACAGTGGAAGACCATGTGAAAAACTTCAG
ACCCCACTGTCATTGTCTTAACAGGAGGACCCATGACAAGACCTGCTCTCCTGGACATAACCCATGCCTTT
ACGAAGAATAGTGGCCTCTGTATCTGCTGCGAAGTCTTCGTGGGACCTCGCAAGCTGTGTGTTAAAGAGA
TGAACAGTGGCATGGCTAAAAAGCAGGCTGGCTGATGAAGAACAAAATCAAGGCTTTTTATGCTGCGGT
GGCGGCAGACTGCTTCAGGGACGGTGTGCGGAGTCTCCTTCAGGCTCAGGCTGGGGAGAATGAAGCCA
AACACTCTAGTGATTGGATACAAAAGAACTGGAGGAAAGCTCCCTTGCTGAGCTTGAGAATTACGTGG
GAATCATACATGACGCCCTTGACTTTGAGATTGGTGTAGTCATAGTCAGAATCAGCCAAGGGTTTGACAT
CTCTCCAGTTCTCCAGGTACAAGATGAAGTGGAGAACTGGAACAGGAGAGACTGGCTCTGGAGGCCGCA
ATCAAAGACAACGACTGTGAGGAGGGCAAGGGGGCATCCGAGGCTTGTTTAAGAAGGCCGCAAACTGA
ACATTACCAAGCCGGCCCTAAAAAGACAGCAACATCAGCACCATCCAGTCGATGCACGTCGGGGAGTT
CAATCAGAAGCTGGTAGAAGCCAGCGCTCAGTTTAAAAAGAAACAGGGAAAAGGCACGATCGATGTTTGG
TGGTTATTTGATGATGGAGGGTTGACACTGCTTATCCCATATATCTTGACTCTCAGAAAGAAATGGAAG
ACTGTAAGTTAAGAACTATGTTGGAGGAAAAATCAACCCGATTGAAGAGGAAAAATTTCAATGGCTTC
TCTTCTCAGCAATTTAGGATAAAATTTGCAGACATTCATATAATTGGAGACATCAACATTAAGCCAAAC
AAAGAGAGCTGGAAAGTCTTTGAAGAGATGATTGAACCTTATAGGCTCCACGAAAGCCACAAAGATTGA
CCACTGCTGAGAAATTAAGAGAGAAAGTCCATGGAAATTAACAGATGCAGAACTGGAAGCAGTCAAGGA
AAAGAGTTACCGCAAGTTCGACTGAACGAGCTGTTACAGGAGCATTCCAGAGCCGCCAACCTCATCGTA
TTGAGCCTTCCAGTGGCGAGAAAGGATCTATTTTCGGATTTGTTGTACATGGCGTGGTTAGAAATCTGTA
CCAAGAACCTCCCTCCTGTGCTACTGGTTAGAGGAAATACAAGAATGTCTGACATTTTACTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_019134
Insert Size:	3288 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:	<u>NM_019134.2, NP_062007.2</u>

RefSeq Size:	4663 bp
RefSeq ORF:	3288 bp
Locus ID:	25065
Cytogenetics:	3q36
Gene Summary:	has bumetamide-sensitive Na(+)-(K+)-Cl- symporter activity; may play a role in sodium and chloride transport in the kidney [RGD, Feb 2006]