

Product datasheet for **RR207827**

Slc12a5 (NM_134363) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc12a5 (NM_134363) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc12a5
Synonyms: Kcc2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207827 representing NM_134363
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGCTCAACAACCTGACGGACTGCGAGGACGGCGATGGGGAGCCAACCCGGGTGACGGCAATCCCAAGG
 AGAGCAGCCCCTTCATCAACAGCACGGACCGGAGAAGGGGAGAGAGTATGATGGCAGGAACATGGCCCT
 GTTTGAGGAGGAGATGGACACCAGCCCCATGGTATCCTCCTGCTCAGTGGGCTGGCCAACCTACACCAAC
 CTGCCTCAGGGAAGCAAAGAGCACGAAGAAGCAGAAAACAATGAGGGCGGAAAGAAGAAGCCGGTGCAGG
 CCCCACGCATGGGCACCTTCATGGGCGTGTACCTCCCCTGCTGCAGAACATCTTTGGTGTATCCTCTT
 TCTGCGGCTCACTTGGTGGTGGGAATCGCAGGCATCATGGAGTCCTTCTGCATGGTCTTCATCTGCTGC
 TCCTGCACGATGCTCACAGCCATTTCCATGAGCGCAATTGCAACCAATGGTGTGTGCTGCTGGTGGCT
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 GGTCTTCTGGGTTGCGTGATCCTCTCCATCCTGGCCATCTACGAGGGGTCAAGTCTGCCTTCGAT
 CCACCAATTTCCCGATTTGCCTCCTGGGAACCGCACGCTGTCTCGCCATGGCTTTGATGTCTGTGCCA
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 TCTTTCTCTCTACCTGCGGAGCTGGACTACAGAGCCTCACAGGGGCCCCACGCCTGCTGCAGGCCATCT



CCCGGGATGGCATAGTGCCCTTCTGCAGGTCTTTGGCCATGGCAAAGCCAACGGAGAGCCAACCTGGGCGCTGCTGCTGACTGCCTGCATCTGTGAGATCGGCATCCTCATCGCTCCCTGGATGAGGTCGCCCCATCTTTCCATGTTCTTCTGATGTGTTACATGTTTGTGAACCTGGCTTGC GCGGTGCAGACTGCTGAGGACGCCAACTGGAGGCCACGCTCCGATATTACCACTGGACCCTCTCCTTCTGGGCATGAGCCTCTGCTGGCCCTGATGTTCA TTTGCTCCTGGTATTATGCGCTGGTAGCTATGCTCATCGCTGGCCTCATCTATAAGTACATCGAGTACCGGGGGCAGAGAAGGAGTGGGGGATGGGATCCGAGGCCTGTCTCTCAGTGCAGCTC GGTGCGTGTGGACAGGACCAGAACGTGGTGCACCCGACGTGCTGTCTTGACCTCCCAGCTCAAGGCA GGAAGGGCCTGACCATTGTGGGCTCTGTCTTGAGGGCACCTTTCTGGACAACCACCCTCAGGCTCAGC GGGCAGAGGAGTCTATCCGGCGCCTGATGGAGGCTGAGAAGGTGAAGGGCTTCTGCCAGGTAGTGATCTC TCCAACCTGCGTGACGGTGTGTCCACCTGATCCAATCCGGGGGCTCGGGGGCTGCAACACAACACT GTGCTAGTGGGCTGGCCTCGCAACTGGCGACAGAAGGAGGATCATCAGACATGGAGGAACCTCATCGAAC TCGTCCGGGAACTACAGCTGGCCACCTCGCCCTGCTGGTACCAAGAATGTTTCCATGTTCCCGGGAA CCCTGAGCGTTTCTCTGAGGGCAGCATTGACGTGTGGTGGATCGTGCACGACGGGGCATGCTCATGCTG TTGCCCTTCTCTGCGTACCACAAGGTCTGGAGGAAATGCAAATGCGGATCTTACCCTGGCGCAGAT GGATGACAACAGCATTAGATGAAGAAAGACCTGACCACGTTTCTGTACCACCTACGAATTACTGCAGAG GTGAAGTCTGGAGATGCACGAGAGCGACATCTCAGCATAACCTACGAGAAGACATTGGTAATGGAA CAACGTTCTCAGATCCTCAAACAGATGCACCTACCAAGAACGAGCGGGAACGGGAGATCCAGAGCATCA CAGATGAATCTCGGGGCTCCATTCGGAGGAAGAATCCAGCCAACACTCGGCTCCGCTCAATGTTCCCGA AGAGACAGCTTGTGACAACGAGGAGAAGCCAGAAGAGGAGGTGCAGTGCATCCATGACCAGAGTGTCCC AGCTGCCCTAGCAGCTCGCCGTCTCCAGGGGAGGACCTGAGGGGGAGGGGAGACAGCCAGAGAAGG TGCATCTACCTGGACCAAGGATAAGTCAGCGGCTCAGAAGAACAAGGGCCAGTCCCCTCTCTCGGA GGGGATCAAGGACTTCTCAGCATGAAGCCGAGTGGGAAAACCTGAACCAAGTCCACAGTCCGCGGCATG CACACAGCTGTGCGGCTGAACGAGGTATCGTGAATAAAATCCCGGATGCCAAGTTGGTGTCTGCTCAACA TGCCCGGGCTCCCGCAACCGCAATGGAGATGAAAACACTACATGGAATCCTGGAGTCTCACTGAGCA ACTGGACCGGTGATGCTGGTCCGCGGTGGTGGCCGAGAGGTCATCACCATCTACTCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207827 representing NM_134363
 Red=Cloning site Green=Tags(s)

MLNNLTDCEDGGGANPGDGNPKESSPFINSTDEKGREYDGRNMALFEEEMDTPSPMVSSLLSGLANYTNLPQGSKEHEEAENNEGGKKKPVQAPRMGTFMGVYLPCLQNI FGVILFLRLTWVVG IAGIMESFCMVFICCSCTMLTAISMSAIATNGVVPAGGSYYMISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEILLAYLFPA MAIFKAEDASGEAAAMLNNMRVYGT CVLTCMATVVFVGVKYNKFAVFLGCVILSILAIYAGVIKSAFD PPNFPICLLGNRTL SRHGF DVCAKLAWEGNETV TTRLWGLFCSSRLLNATCDEYFTRNNVTEIQGIPGAA SGLIKENLWSSYLTKGVI VERRGMP SVGLADGTPVDM DHPYVFS DMTSYFTLLVGIYFSPVTGIMAGSNR SGDLRDAQKSIPTGTILAIATTSAVYISSVVLFGACIEGVVLRDKFGEAVNGNLVVGTLAWPSPWVIVIG SFFSTCGAGLQSLTGAPRLLQAI SRDGI VPF LQVFGHGKANG EPTWALLLTACICEIGILIASLDEVAPI L SMFFLMCYMFVNLACAVQTL LRTPNWRPRFRYYHWTL SFLGMSLCLALMFI CSWYYALVAMLIAGLIYK YIEYRGAEKEWGDGIRGLSL SAARYALLRLEEGPPHTKNWRPQLLVLVRVDQDQNVVHPQLLSLTSQ LKAGKGLTIVGSVLEGTFLDNHPQAQRAEESIRRLMEAEKVKGFCQVVISSNLRDGVSHLIQSGLGGLQHNT VLVGWRNWRQKEDHQTWRNFIELVRETTAGHLALLVTKNVSMFPGNPERFSEGSIDVWVIVHDGMLML LPFLLRHHKVWRKCKMRIFTVAQMDDNSIQMKDLTFLYHLRITAEVEVEMHESDISAYTYEKLTVME QRSQILKQMH LTKNEREREIQSITDESRSIRRNPNANTRLRNLNVP EETACDNEEKPEEEVQLIHDQSAP SCPSSSPSPGEEPEGEGETDPEKVHLTWTKD KSAQKNKGPSPVSSEGIKDFFSMKPEWENLNQSNVRRM HTAVRLNEIVNKS RDAKLVLLNMPGPPRNRNGDENYMEFLEVLTEQLDRVMLVRGGGREVITIIYS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

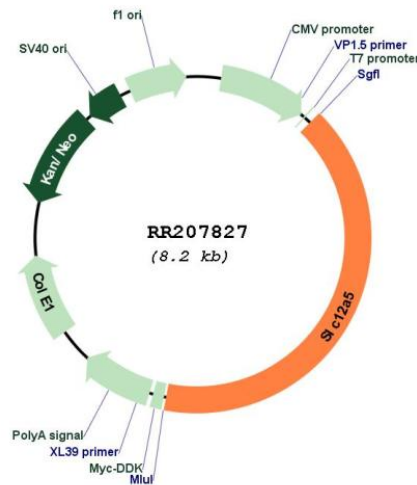
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_134363

ORF Size: 3348 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_134363.1, NP_599190.1</u>
RefSeq Size:	5566 bp
RefSeq ORF:	3351 bp
Locus ID:	171373
UniProt ID:	<u>Q63633</u>
Cytogenetics:	3q42
MW:	123.6 kDa
Gene Summary:	neuronal specific potassium-chloride cotransporter isoform; may play a role in response to neuronal injury [RGD, Feb 2006]