

Product datasheet for RC215055

SLC12A6 (NM_001042496) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC12A6 (NM_001042496) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC12A6
Synonyms:	ACCPN; KCC3; KCC3A; KCC3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC215055 representing NM_001042496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTTCAGTTCGGTTCATGGTGACACCGACAAAGATCGATGACATTCCAGGTTTGTGACACACAGTC
CGGACCTCAGCTCTCGATCTAGTCCCGAGTAAGATTTAGCTCCCGGAAAGCGTGCCTGAAACAAGCCG
GAGTGAGCCTATGAGTGAGATGTCTGGGGCCACCCTTCGCTGGCAACTGTTGCACTGGATCCACCCAGT
GACCGGACTTCTACCCCGAGGATGTCATCGAGGACCTGAGTCAGAACTCCATCACAGGGGAACACAGCC
AACTGTTAGACGACGGACATAAGAAAGCTCGAAATGCTTATCTCAATAATTTCAAATTATGAAGAAGGAGA
TGAATATTTTGATAAAAAATTTGGCACTCTTTGAGGAAGAAATGGACACCAGACCGAAGGTGTCTTCCCTC
CTCAACCGCATGGCCAATTACACTAATCTGACTCAAGGAGCAAAGGAACATGAAGAGGCAGAAAACATCA
CTGAAGGGAAAAAGAAGCCACCAAGACCCCAATGGGTACCTTCATGGGTGTCTACCTCCCATGTCT
ACAAAAATTTTTGGAGTGATCCTTTTTTACGCCTTACATGGGTGGTGGGCACAGCTGGAGTTCCTCAG
GCTTTTGCAATTGCTTATCTGCTGCTGTACAATGTTGACTGCTATCTCCATGAGTGCCATTGCCA
CTAATGGAGTGGTGCCAGCTGGGGCTCATACTTTATGATTTCCCGGGCACTGGGCCAGAGTTTGGTGG
GGCTGTTGGCCTCTGCTTTTATCTTGGTACCACATTTGCAGCAGCCATGTACATCCTTGGTGCCATTGAA
ATCTTTCTGGTCTATATCGTCCCGGAGCTGCCATCTTTCACAGTGATGACGCACTCAAGGAATCAGCAG
CCATGCTAAATAACATGCGTGTCTACGGCAGAGCTTTCTTGGTCTTATGGTATTAGTGGTATTTATCGG
CGTACGCTATGTGAACAAGTTTGCCCTCACTTTTCTGGCCTGTGTCATTGTGCCATCTTGGCCATCTAT
GCTGGAGCCATCAAGTCTCTTTTGTCTCCACACTCCCGGTCTGCATGCTGGTAACCGCACCCCTT
CATCAAGACACATTGACGTTTGTCTAAGACCAAGGAAATTAACAACATGACAGTCCCATCAAAGTTATG
GGGATTCTTCTGTAAGTCAAGTCAATTTTCAATGCCACCTGTGATGAATACTTTGTTACAATAACGTC
ACTTCAATCCAGGCATTCTGGATTGGCTAGTGGTATAATTACAGAGAATCTTTGGAGTAATTACCTAC
CCAAGGGAGAGATCATCGAAAAGCCTTACGCCAATCTTCTGATGCTTAGGCAGCTTAAACCATGAATA
TGTTCTGTTGACATCACCACTCCTTACGCTTCTGGTGGGAATCTTCTTTCCCTCTGTTACAGGTATC
ATGGCTGGATCAAACAGATCTGGAGATCTGAAAGATGCTCAGAAGTCTATTCCGATTGGTACTATCCTTG



[View online »](#)

CCATCCTGACCACCTCCTTTGTTTATTTAAGCAATGTTGTCCTTTTTGGTGCATGTATTGAAGGGTGTG
TCTCAGAGACAAGTTCGGTGATGCTGTGAAAGTAATTTGGTGGTAGGCACCTTATCTTGGCCATCCCCA
TGGGTGATTGTTATTGGCTCCTTCTTTTCAACATGTGGGGCTGGACTTCAGAGCCTCACAGGTGCACCGA
GGCTGCTACAAGCTATTGCCAAGGATAACATCATACCGTTTCTGAGGGTTTTTGGCCACAGCAAAGCCAA
TGGGGAACCTACCTGGGCTTACTTCTAACTGCTGCCATTGCAGAGCTTGAATACTCATTGCCTCCCTG
GATCTTGTGGCCCAATCTTTCCATGTTTTTCTCATGTGTACCTCTTTGAAACTTGGCATGTGCCT
TGCAAACATTACTCGAACCCCACTGGAGACCCCGATTCCGCTACTACCATTGGGCCCTTCTTTCAT
GGGAATGAGTATCTGTCTGGCTCTGATGTTCAATTTCTTCTGGTATTATGCCATTGTAGCCATGGTAATA
GCTGGTATGATCTACAAGTACATTGAATACCAAGGAGCTGAGAAAAGAAATGGGGTGTGGTATCCGTGGGC
TGTCCCTCAGTGCAGCCCGTTTCTTCTGCTTTCGATTGGAGGAAGGACCTCCACACACTAAAACTGGAG
GCCTCAGTTGCTTGTATTACTGAAACTAGATGAAGACTTACATGTCAAGCATCCTCGCTCCTCACCTTT
GCCTCACAGCTCAAAGCAGGAAAAGGTCTCACTATTGTGGGCTCTGTATCGTGGGGAACCTCCTAGAGA
ACTACGGTGAAGCTTTAGCTGCTGAGCAGACCATAAGCACCTAATGGAGGCAGAGAAGGTAAAAGGATT
CTGCCAGCTGGTGGTGGCCGAAGCTGAGAGAGGGCATTCCCACCTCATCCAGTCATGTGCCTTGGG
GGCATGAAGCACAAACACGGTGGTGTGGGCTGGCCTAATGGCTGGCGTCAAAGCGAAGATGCCCGCCTT
GGAAGACTTTTATTGGCAGATTGAGTACAACCTGCTGCCATCTTGCCTGCTGGTGGCTAAAAACAT
CTCCTTCTTCCAGCAATGTGGAGCAATTTCTGAGGGCAACATTGATGTGTGGTGGATTGTGCATGAT
GGGGGGATGCTTATGCTACTACCATTCTACTGAAACAGCACAAAGGTGTGGCGAAAGTGCAGCATACGGA
TCTTACAGTAGCCCAATTAGAAGACAACAGTATCCAAATGAAGAAGGACCTAGCCACCTTCTATATCA
CTTACGCATTGAGGCGGAGGTAGAAGTGGTGGAGATGCATGACAGTGATATATCAGCATATACTTACGAG
CGCACTTTGATGATGGAACAAAGGTCCCAGATGCTCCGGCACATGCGGCTATCCAAAACAGAGCGGAGACA
GAGAGGCACAATTGGTGAAGACCGAAACTCAATGCTACGATTGACCAGCATTGGCTCTGATGAGGACGA
AGAGACAGAACTATCAGGAGAAGGTGCACATGACTTGGACAAAAGACAAGTACATGCCATCCCGGGGA
CAAAAAGCGAAGTCAATGGAAGGATCCAGGACCTGCTTAAACATGCGTCCGGACCAAGTCCAATGTGAGGC
GGATGCATACAGCAGTGAAACTCAACGAGGTTATAGTTAACAAGTCCCATGAAGCAAAGCTGGTTTTATT
GAATATGCCAGGGCCACCCGAAACCCTGAGGGTGTGAAAACATACATGGAGTTCCTAGAGGTGCTTACC
GAGGGACTAGAGCGAGTCTACTTGTCCGGGTGGTGGCAGTGAAGTGTACCACTTTATTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

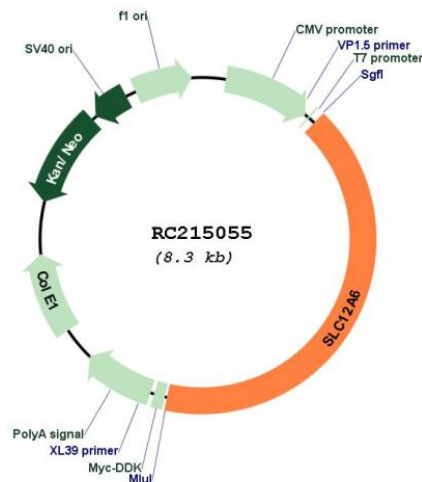
Protein Sequence:

>RC215055 representing NM_001042496
Red=Cloning site Green=Tags(s)

MASVRFMVTPTKIDDIPLSDTSPDLSSRSSRVRFSSRESVPETSRSEPMSEMSGATTSLATVALDPPS
DRTSHPQDVIEDLSQNSITGEHSQLLDDGHKKARNAYLNNSNYEEGDEYFDKNLALFEEEMDRPKVSSL
LNRMANYNLQGAKEHEEAENITEGKKKPTKTPQMGTFMGVYLPCLQNIQVILFLRLTWVVGTAGVLQ
AFAIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALGPEFGGAVGLCFYLGTTFAAAMYILGAIE
IFLVYIVPRAAIFHSDDALKESAAMLNMRVYGT AFLVLMVLVVFIVRVYVNFASFLLACVIVSILAIY
AGAIKSSFAPPHFPVCMNLGNRTLSSRHIDVCSKTEINNMTVPSKLGWFFCNSSQFFNATCDEYFVHNV
TSIQGIPGLASGIITENLSNYLPKGEIIEKPSAKSSDVLGSLNHEYVLVDITTSFTLLVGIFFPSVTGI
MAGSNRSGDLKDAQSIPIGTILAILTTSFVYLSNVVLFVGFACIEGVVLRDKFGDAVKGNL VVGTLSWSP
WVIVIGSFFSTCGAGLQSLTGAPRLQAIKDNIPFLRVFGHSHKANGPTWALLLTAIAELGILIASL
DLVAPILSMFFLMCYLFVNLACALQTLRTPNWRPRFRYYHWAL SFGMMSICLALMFISSWYYAIVAMVI
AGMIYKYIEYQGAKEWGDGIRGLSLSAARFALLRLEEGPPHTKNWRPQLLVLLKLEDLHVKHPRLLTF
ASQLKAGKGLTIVGSVIVGNFLENYGEALAAEQTIKHLMEAEKVGFQCQLVVAAKLREGISHLIQSCGLG
GMKHNTVVMGWPNQWQRQSEDARAWKTFIGTVRVTTAAHLALLVAKNISFFPSNVEQFSEGNIDVWVIVHD
GGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKDLATFLYHLRIEAEVEVEMHSDISAYTYE
RTLMMEQRSQMLRHMLSKTERDREAQLVKDRNSMLRLT SIGSDEDEETETYQEKVHMTWTKDKYMASRG
QKAKSMEGFQDLLNMRPDQSNVRRMHTAVKLEIVNKSHEAKLVLLNMPGPPRNPEGDENYMEFLEVL T
EGLERVLLVRGGGSEVITIYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Plasmid Map:



ACCN: NM_001042496

ORF Size: 3423 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:

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_001042496.2](#)

RefSeq Size: 7754 bp

RefSeq ORF: 3426 bp

Locus ID: 9990

UniProt ID: [Q9UHW9](#)

Cytogenetics: 15q14

Protein Families: Transmembrane

MW: 126.4 kDa

Gene Summary: This gene is a member of the K-Cl cotransporter (KCC) family. K-Cl cotransporters are integral membrane proteins that lower intracellular chloride concentrations below the electrochemical equilibrium potential. The proteins encoded by this gene are activated by cell swelling induced by hypotonic conditions. Alternate splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are associated with agenesis of the corpus callosum with peripheral neuropathy. [provided by RefSeq, Jul 2008]