

Product datasheet for **RG209880**

SLC12A6 (NM_001042495) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC12A6 (NM_001042495) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC12A6
Synonyms: ACCPN; KCC3; KCC3A; KCC3B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209880 representing NM_001042495
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGATGTCTGGGGCCACCACTTCGCTGGCAACTGTTGCACTGGATCCACCCAGTGACCGGACTT
CTCACCCCGAGGATGTCATCGAGGACCTGAGTCAGAACTCCATCACAGGGGAACACAGCCAACTGTTAGA
CGACGGACATAAGAAAGCTCGAAATGCTTATCTCAATAATTCCAATTATGAAGAAGGAGATGAATATTTT
GATAAAAAATTTGGCACTCTTTGAGGAAGAAATGGACACCAGACCGAAGGTGTCTTCCCTCCTCAACCGCA
TGGCCAATTACACTAATCTGACTCAAGGAGCAAAGGAACATGAAGAGGCAGAAAACATCACTGAAGGGAA
AAAGAAGCCACCAAGACCCCCAAATGGGTACCTTCATGGGTGTCTACCCCATGTCTACAAAATATT
TTTGGAGTGATCCTTTTTTACGCCTTACATGGGTGGTGGGCACAGCTGGAGTTCTTCAGCTTTTGCAA
TTGTCTTATCTGCTGCTGTACAATGTTGACTGCTATCTCCATGAGTGCCATTGCCACTAATGGAGT
GGTGCCAGCTGGGGGCTCATACTTTATGATTTCCCGGGCACTGGGCCAGAGTTTGGTGGGGCTGTTGGC
CTCTGCTTTTATCTTGGTACCACATTTGCAGCAGCCATGTACATCCTTGGTGCCATTGAAATCTTTCTGG
TCTATATCGTCCCCGAGCTGCCATCTTCACAGTGATGACGCACTCAAGGAATCAGCAGCCATGCTAAA
TAACATGCGTGTCTACGGCACAGCTTTCTTGGTCTTATGGTATTAGTGGTATTTATCGGCGTACGCTAT
GTGAACAAGTTTGCCTCACTTTTCTGGCCTGTGTCATTGTGCCATCTTGCCATCTATGCTGGAGCCA
TCAAGTCTTCTTTGCTCCTCCACACTTCCCGGTCTGCATGCTGGGTAACCGCACCTTTTCATCAAGACA
CATTGACGTTTGTCTAAGACCAAGGAAATTAACAACATGACAGTCCCATCAAAGTTATGGGATTCTTC
TGTAACCTCGAGTCAATTTTTCAATGCCACCTGTGATGAATACTTTGTTACAATAACGCACTTCAATCC
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GATCATCGAAAAGCCTTCAGCCAAATCTTCTGATGTCTTAGGCAGCTTAAACCATGAATATGTTCTTGT
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CAAACAGATCTGGAGATCTGAAAGATGCTCAGAAGTCTATTCCGATTGGTACTATCCTTGCCATCCTGAC
CACCTCCTTTGTTATTTAAGCAATGTTGTCCTTTTGGTGCATGTATTGAAGGGTGTCTCAGAGAC



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AAGTTCGGTGATGCTGTGAAAGTAATTTGGTGGTAGGCACCTTATCTTGCCATCCCCATGGGTGATTG
 TTATTGGCTCCTTCTTTCAACATGTGGGGCTGGACTTCAGAGCCTCACAGGTGCACCGAGGCTGTACA
 AGCTATTGCCAAGGATAACATCATACCGTTTCTGAGGGTTTTGGCCACAGCAAAGCCAATGGGGAACCT
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 ACCTATCAGGAGAAGGTGCATGACTTGGACAAAAGACAAGTACATGGCATCCCGGGGACAAAAAGCGCA
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 AGCAGTGAACCTCAACGAGGTTATAGTTAACAAGTCCCATGAAGCAAAGCTGGTTTTATTGAATATGCCA
 GGGCCACCCGAAACCCTGAGGGTATGAAAACACTACATGGAGTTCCTAGAGGTGCTTACCAGGGACTAG
 AGCGAGTCTACTGTCCGGGGTGGTGGCAGTGAAGTATCACCATTATTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209880 representing NM_001042495

Red=Cloning site Green=Tags(s)

MSEMSGATTSLATVALDPPSDRTSHPQDVIEDLSQNSITGEHSQLLDDGHKKARNAYLNNNSYEEGDEYF
 DKNLALFEEEMDRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPTKTPQMGTFMGVYPPCLQNI
 FGVILFLRLTWVGTAGVLQAFIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMSRALGPEFFGGAVG
 LCFYLGTTFAAAMYILGAIIEIFLVYIVPRAAIFHSDALKESAAMLNMRVYGTAFVLMVLVVFVIGVRY
 VNKFASLFLACVIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHIDVCSKTKEINNMTVPSKLGWFF
 CNSSQFFNATCDEYFVHNNVTSIQGIPGLASGIIITENLWSNYLPKGEIEKPSAKSSDVLGSLNHEYVLV
 DITTSFTLLVGIFFPVSVTGIMAGSNRSGDLKDAQSIPIGTILAILTTSFYVLSNVVLFACIEGVVLRD
 KFGDAVGNL VVGTLSWPSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAI AKDNIIPFLRVFGHSHKANGEP
 TWALLLTAIAELGILIASLDLVAPILSMFFLMCYL FVNLA CALQTLRLTPNWRPRFRYYHWALSFMGMS
 ICLALMFISSWYVAIVAMVIAGMIYKYIEYQGAKEWGDGIRGLSL SAARFALLRLEEGPPHTKNWRPQL
 LVLLKLEDLHVHHPRLTFASQLKAGKGLTIVGSVIVGNFLENYGEALAAEQTIKHLMEAEKVKGFQCL
 VVAAKLREGISHLIQSCGLGGMKHNTVVMGWPNGWRQSEDARAWKTFIGTVRVTAAHLALLVAKNISFF
 PSNVEQFSEGNIDVWVIVHDGGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLATFLYHLRI
 EAEVEVEMHDSDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKDRNSMLRLTSIGSDEDEETE
 TYQEKVHMTWTKDKYMASRQKAKSMEGFQDLLNMRPDQSNVRRMHTAVKLENEVI VNKSHAKLVLLNMP
 GPPRNPEGDENYMEFLEVLTEGLERVLLVRGGGSEVITIIYS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001042495

ORF Size: 3273 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_001042495.1](#), [NP_001035960.1](#)

RefSeq Size: 7363 bp

RefSeq ORF: 3276 bp

Locus ID: 9990

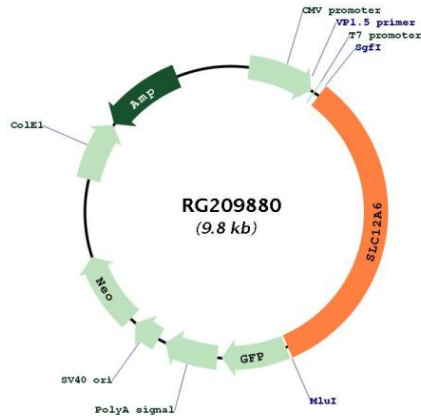
UniProt ID: [Q9UHW9](#)

Cytogenetics: 15q14

Protein Families: Transmembrane

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]

Product images:



Circular map for RG209880