

Product datasheet for **RG214078**

SLC12A6 (NM_001042494) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC12A6 (NM_001042494) 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: >RG214078 representing NM_001042494
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGATGTCTGGGGCCACCACTTCGCTGGCAACTGTTGCACTGGATCCACCCAGTGACCGGACTT
CTCACCCCGAGGATGTCATCGAGGACCTGAGTCAGAACTCCATCACAGGGGAACACAGCCAACTGTTAGA
CGACGGACATAAGAAAGCTCGAAATGCTTATCTCAATAATTCCAATTATGAAGAAGGAGATGAATATTTT
GATAAAAAATTTGGCACTCTTTGAGGAAGAAATGGACACCAGACCGAAGGTGTCTTCCCTCCTCAACCGCA
TGGCCAATTACACTAATCTGACTCAAGGAGCAAAGGAACATGAAGAGGCAGAAAACATCACTGAAGGGAA
AAAGAAGCCACCAAGACCCCAATGGGTACCTTCATGGGTGTCTACCTCCCATGTCTACAAAATATT
TTTGGAGTGATCCTTTTTTACGCCTTACATGGGTGGTGGGCACAGCTGGAGTTCTTCAGCTTTTGCAA
TTGTCTTATCTGCTGCTGTACAATGTTGACTGCTATCTCCATGAGTGCCATTGCCACTAATGGAGT
GGTGCCAGCTGGGGGCTCATACTTTATGATTTCCCGGGCACTGGGCCAGAGTTTGGTGGGGCTGTTGGC
CTCTGCTTTTATCTTGGTACCACATTTGCAGCAGCCATGTACATCCTTGGTGCCATTGAAATCTTTCTGG
TCTATATCGTCCCCGAGCTGCCATCTTCACAGTGATGACGCACTCAAGGAATCAGCAGCCATGCTAAA
TAACATGCGTGTCTACGGCACAGCTTTCTTGGTCTTATGGTATTAGTGGTATTTATCGGCGTACGCTAT
GTGAACAAGTTTGCCTCACTTTTCTGGCCTGTGTCATTGTGTCATCTTGCCATCTATGCTGGAGCCA
TCAAGTCTTCTTTGCTCCTCCACACTTCCCGGTCTGCATGCTGGGTAACCGCACCTTTTCATCAAGACA
CATTGACGTTTGTCTAAGACCAAGGAAATTAACAACATGACAGTCCCATCAAAGTTATGGGATTCTTC
TGTAACCTCGAGTCAATTTTTCAATGCCACCTGTGATGAATACTTTGTTACAATAACGCACTTCAATCC
AGGGCATTCTGGATTGGCTAGTGGTATAATTACAGAGAATCTTTGGAGTAATTACCTACCCAAGGGAGA
GATCATCGAAAAGCCTTCAGCCAAATCTTCTGATGTCTTAGGCAGCTTAAACCATGAATATGTTCTTGT
GACATCACCACTCCTTCAGCTTCTGGTGGGAATCTTCTTTCCCTCTGTTACAGGTATCATGGCTGGAT
CAAACAGATCTGGAGATCTGAAAGATGCTCAGAAGTCTATTCCGATTGGTACTATCCTTGCCATCCTGAC
CACCTCCTTTGTTATTTAAGCAATGTTGTCCTTTTTGGTGCATGTATTGAAGGGTGTCTCAGAGAC



AAGTTCGGTGATGCTGTGAAAGTAATTTGGTGGTAGGCACCTTATCTTGCCATCCCCATGGGTGATTG
 TTATTGGCTCCTTCTTTCAACATGTGGGGCTGGACTTCAGAGCCTCACAGGTGCACCGAGGCTGTACA
 AGCTATTGCCAAGGATAACATCATACCGTTTCTGAGGGTTTTGGCCACAGCAAAGCCAATGGGGAACCT
 ACCTGGGCTTTACTTCTAACTGCTGCCATTGCAGAGCTTGAATACTCATTGCCTCCCTGGATCTTGTGG
 CCCCAATCTTTCCATGTTTTTCTCATGTGTTACCTCTTTGAACTTGGCATGTGCCTTGCAAACATT
 ACTTCGAACACCCAACCTGGAGACCCCGATTCCGCTACTACCATTGGGCCCTTTCTTTATGGGAATGAGT
 ATCTGCTGGCTCTGATGTTTCTTTCTCTGGTATTATGCCATTGTAGCCATGGTAATAGCTGGTATGA
 TCTACAAGTACATTGAATACCAAGGAGCTGAGAAAGAATGGGGTGATGGTATCCGTGGGCTGTCCCTCAG
 TGCAGCCCGTTTTGCTTTGCTTCGATTGGAGGAAGGACCTCCACACACTAAAACTGGAGGCCTCAGTTG
 CTTGTATTACTGAACTAGATGAAGACTTACATGTCAAGCATCCTCGCCTCCTCACCTTTGCCTCACAGC
 TCAAAGCAGGAAAAGGTCTCACTATTGTGGGCTGTGCATCGTGGGGAACCTCCTAGAGAACTACGGTGA
 AGCTTTAGCTGCTGAGCAGACCATAAAGCACCTAATGGAGGCAGAGAAGGAAAAGGATTCTGCCAGCTG
 GTGGTGGCCGCAAGCTGAGAGAGGGCATTCCACCTCATCCAGTCATGTGGCCTTGGGGGCATGAAGC
 ACAACACGGTGGTATGGGCTGGCCTAATGGCTGGCGTCAAAGCGAAGATGCCCGCCTTGAAGACTTT
 TATTGGCACAGTTCGAGTGACAACCTGCTGCCATCTTGCACTGCTGGTGGCTAAAAACATCTCTTCTTT
 CCCAGCAATGTGGAGCAATTTCTGAGGGCAACATTGATGTGTGGTGGATTGTGCATGATGGGGGATGC
 TTATGCTACTACCATTCTACTGAAACAGCACAAGGTGTGGCGAAAGTGCAGCATACGGATCTTCACAGT
 AGCCCAATTAGAAGACAACAGTATCCAAATGAAGAAGGACCTAGCCACCTTCTATATCACTTACGCATT
 GAGGCGGAGGTAGAAGTGGTGGAGATGCATGACAGTGATATCAGCATATACTTACGAGCGCACTTTGA
 TGATGGAACAAAGGTCCCAGATGCTCCGGCACATGCGGCTATCCAAAACAGAGCGGAGACAGAGAGGCACA
 ATTGGTGAAGACCGAACTCAATGCTACGATTGACCAGCATTGGCTCTGATGAGGACGAAGAGACAGAA
 ACCTATCAGGAGAAGGTGCATGACTTGGACAAAAGACAAGTACATGGCATCCCGGGGACAAAAAGCGCA
 AGTCAATGGAAGGATCCAGGACCTGCTTAACATGCGTCCGACCAGTCCAATGTGAGGCGGATGCATAC
 AGCAGTGAACCTCAACGAGGTTATAGTTAACAAGTCCCATGAAGCAAAGCTGGTTTTATTGAATATGCCA
 GGGCCACCCGAAACCCTGAGGGTATGAAAACACTACATGGAGTTCCTAGAGGTGCTTACCAGGGACTAG
 AGCGAGTCTACTTGTCCGGGGTGGTGGCAGTGAAGTATCACCATTATTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214078 representing NM_001042494

Red=Cloning site Green=Tags(s)

MSEMSGATTSLATVALDPPSDRTSHPQDVIEDLSQNSITGEHSQLLDDGHKKARNAYLNNNSYEEGDEYF
 DKNLALFEEEMDRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPTKTPQMGTGFMGVYLPCLQNI
 FGVILFLRLTWVGTAGVLQAFIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALGPEFFGAVG
 LCFYLGTTFAAAMYILGAIIEIFLVYIVPRAAIFHSDDALKESAAMLNMRVYGTAFVLMVLVVFVIGVRY
 VNKFASLFLACVIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHIDVCSKTKEINNMTVPSKLGWFF
 CNSSQFFNATCDEYFVHNNVTSIQGIPGLASGIIITENLWSNYLPKGEIEKPSAKSSDVLGSLNHEYVLV
 DITTSFTLLVGIFFPVSVTGIMAGSNRSGDLKDAQSIPIGTILAILTTSFYVLSNVVLFVGFACIEGVVLRD
 KFGDAVGNL VVGTLSWSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIKDNII PFLRVFGHSHKANGEP
 TWALLLTAIAELGILIASLDLVAPILSMFFLMCYL FVNLAALQTLRLTPNWRPRFRYYHWALSFMGMS
 ICLALMFISSWYIAIVAMVIAGMIYKYIEYQGAKEWGDGIRGLSL SAARFALLRLEEGPPTHKNWRPQL
 LVLLKLDLHVKHPRLLTFASQLKAGKGLTIVGSVIVGNFLENYGEALAAEQTIKHLMEAEKVKGFQCL
 VVAAKLREGISHLIQSCGLGGMKHNTVVMGWPNGWRQSEDARAWKTFIGTVRVTAAHLALLVAKNISFF
 PSNVEQFSEGNIDVWVIVHDGGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLATFLYHLRI
 EAEVEVEMHDSDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKDRNSMLRLT SIGSDEDEETE
 TYQEKVHMTWTKDKYMASRQKAKSMEGFQDLLNMRPDQSNVRRMHTAVKLENEVI VNKSHAEKLVLLNMP
 GPPRNPEGDENYMEFLEVLTEGLERVLLVRGGGSEVITIIYS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_001042494.2
RefSeq Size:	7688 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]