

Product datasheet for RC224578

SLC12A6 (NM_005135) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC12A6 (NM_005135) 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: >RC224578 representing NM_005135
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACATTTTACTGTGACTAAGGTAGAGGCCAGAGGAGGGGCGAGCGGCTTCGATCTCTCAAGAGC
 CTAGTTTAGCAGACATAAAAGCCCGGATTCAGGATTCAGATGAACCAGACCTGAGTCAGAATCCATCAC
 AGGGGAACACAGCCAACCTTTAGACGACGGACATAAGAAAAGCTCGAAATGCTTATCTCAATAATTTCAAT
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 AGGTGTCTTCCCTCCTCAACCGCATGGCAATTACACTAATCTGACTCAAGGAGCAAGGAACATGAAGA
 GGCAGAAAACATCACTGAAGGGAAAAAGGCCACCAAGACCCCAAAATGGGTACCTTCATGGGTGTC
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CTTGCCATCCCCATGGGTGATTGTTATTGGCTCCTTCTTTTCAACATGTGGGGCTGGACTTCAGAGCCT
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TTATTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224578 representing NM_005135
Red=Cloning site Green=Tags(s)

MPHFTVTKVEDPEEGAAASISQEPPLADIKARIQDSDEPDLQNSITGEHSQLLDDGHKKARNAYLNNSN
YEEGDEYFDKNLALFEEEMDTRPKVSSLLNRMANYTNLTQGAKEHEEAENITEGKKKPTKTPQMGTFMGV
YLPCLQNIQIFGVILFLRLTWVVGTAGVLQFAIVLICCCCTMLTAISMSAIATNGVVPAGGSYFMISRALG
PEFGGAVGLCFYLGTTFAAAMYILGAIEIFLVYIVPRAAIFHSDDALKESAAMLNMRVYGTAFLLVLMVL
VVFIVGVRYVYVNFASLFLACVIVSILAIYAGAIKSSFAPPHFPVCMLGNRTLSSRHIDVCSKTKEINNMTV
PSKLWGFNCSQFFNATCDEYFVHNNVTSIQGIPLASGIITENLWSNYLPKGEIEKPSAKSSDVLGS
LNHEYVLVDITTSFTLLVGIFFPSVTGIMAGSNRSGDLKDAQSIPIGTILAILTTSFVYLSNVVLFGAC
IEGVVLRDKFGDAVKGNLTVVGTLSWSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAIKDNIIIPFLRVFG
HSKANGEPTWALLLTAIAELGILIASLDLVAPILSMFFLMCYLFVNLACALQTLRLTPNWRPRFRYYHW
ALSFMGMSICLALMFISWYAIIVAMVIAGMIYKIEYQGAKEWGDGIRGLSLSAARFALLRLEEGPPH
TKNWRPQLVLLKLEDDLHVKHPRLLTFASQLKAGKGLTIVGSIIVGNFLENYGEALAAEQTIKHLMEAE
KVGFCQLVVAAKLREGISHLIQSCGLGGMKHNTVVMGWPNGWRQSEARAWKTFIGTVRVTTAAHLALL
VAKNISFFPSNVEQFSEGNIDVWWWIVHDGMLMLLPFLKQHKVWRKCSIRIFTVAQLEDNSIQMKKDLA
TFLYHLRIEAEVEVEMHDSDISAYTYERTLMMEQRSQMLRHMRLSKTERDREAQLVKDRNSMLRLTSIG
SDEDEETETYQEVHMTWTKDKYMASRQKAKSMEGFQDLLNMRPDQSNVRRMHTAVKLVNEVIVNKSHEA
KLVLLNMPGPPRNPEGDENYMEFLEVLTEGLERVLLVRGGSEVITIYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<u>NM_005135.2, NP_005126.1</u>
RefSeq Size:	7327 bp
RefSeq ORF:	3300 bp
Locus ID:	9990
UniProt ID:	<u>Q9UHW9</u>
Cytogenetics:	15q14
Domains:	KCl_Cotrans_1
Protein Families:	Transmembrane
MW:	122.1 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]