

Product datasheet for **SC311418**

SLC12A6 (NM_001042494) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC12A6 (NM_001042494) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC12A6
Synonyms:	ACCPN; KCC3; KCC3A; KCC3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311418 representing NM_001042494. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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TGGCCATCCCCATGGGTGATTGTTATTGGCTCCTTCTTTTCAACATGTGGGGCTGGACTTCAGAGCCTC
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 GGTGGCAGTGAAGTATCACCATTATTCA**TAA**
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001042494
- Insert Size:** 3276 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
- 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_001042494.1](#)

RefSeq Size: 7688 bp

RefSeq ORF: 3276 bp

Locus ID: 9990

UniProt ID: [Q9UHW9](#)

Cytogenetics: 15q14

Protein Families: Transmembrane

MW: 121.1 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]
Transcript Variant: This variant (3) has an additional exon in its 5' UTR and uses an alternate in-frame splice site in the first protein coding exon, compared to variant 1. The encoded protein (isoform c) uses a downstream start codon, compared to isoform a.