SLC12A6 cDNA Clone – Solute Carrier Family 12 (Potassium/Chloride Transporters), Member 6 (Human)

PRODUCT OVERVIEW

Product Name	SLC12A6, cDNA Clone
Full Product Name	SLC12A6 cDNA Clone
Product Gene Name	SLC12A6 cdna clone
Sequence	ATGAGTGAGA TGTCTGGGGC CACCACTTCG CTGGCAACTG TTGCACTGGA TCCACCCAGT GACCGGACTT CTCACCCCCA GGATGTCATC GAGGACCTGA GTCAGAACTC CATCACAGGG GAACACAGCC AACTGTTAGA CGACGGACAT AAGAAAGCTC GAAATGCTTA TCTCAATAAT TCCAATTATG AAGAAGGAGA TGAATATTTT GATAAAAATT TGGCACTCTT TGAGGAAGAA ATGGACACCA GACCGAAGGT GTCTTCCCTC CTCAACCGCA TGGCCAATTA CACTAATCTG ACTCAAGGAG CAAAGGAACA TGAAGAGGCA GAAAACATCA CTGAAGGGAA AAAGAAGCCC ACCAAGACCC CCCAAATGGG TACCTTCATG GGTGTCTACC TCCCATGTCT ACAAAATATT TTTGGAGTGA TCCTTTTTTT ACGCCTTACA TGGGTGGTGG GCACAGCTGG AGTTCTTCAG GCTTTTGCAA TTGTCCTTAT CTGCTGCTGC TGTACAATGT TGACTGCTAT CTCCATGAGT GCCATTGCCA CTAATGGAGT GGTGCCAGCT GGGGGCTCAT ACTTTATGAT TTCCCGGGCA CTGGGCCCAG AGTTTGGTGG GGCTGTTGGC CTCTGCTTTT ATCTTGGTAC CACATTTGCA GCAGCCATGT ACATCCTTGG TGCCATTGAA ATCTTTCTGG TCTATATCGT CCCCCGAGCT GCCATCTTTC ACAGTGATGA CGCACTCAAG GAATCAGCAG CCATGCTAAA TAACATGCGT GTCTACGGCA CAGCTTTCTT GGTCCTTATG GTATTAGTGG TATTTATCGG CGTACGCTAT GTGAACAAGT TTGCCTCACT TTTCCTGGCC TGTGTCATTG TGTCCATCTT GGCCATCTAT GCTGGAGCCA TCAAGTCTTC TTTTGCTCCT CCACACTTCC CGGTCTGCAT GCTGGGTAAC CGCACCCTTT CATCAAGACA CATTGACGTT TGCTCTAAGA CCAAGGAAAT TAACAACATG ACAGTCCCAT CAAAGTTATG GGGATTCTTC TGTAACTCGA GTCAATTTTT CAATGCCACC TGTGATGAAT ACTTTGTTCA CAATAACGTC ACTTCAATCC AGGGCATTCC TGGATTGGCT AGTGGTATAA TTACAGAGAA TCTTTGGAGT AATTACCTAC CCAAGGGAGA GATCATCGAA AAGCCTTCAG CCAAATCTTC TGATGTCTTA GGCAGCTTAA ACCATGAATA TGTTCTTGTT GACATCACCA CCTCCTTCAC GCTTCTGGTG GGAATCTTCT TTCCCTCTGT TACAGGTATC ATGGCTGGAT CAAACAGATC TGGAGATCTG AAAGATGCTC AGAAGTCTAT TCCGATTGGT ACTATCCTTG CCATCCTGAC CACCTCCTTT GTTTTAGATT TAAGCAATGT TGTCCTTTTT GGTGCATGTA TTGAAGGGGT TGTTCTCAGA GACAAGTTCG GTGATGCTGT GAAAGGTAAT TTGGTGGTAG GCACCTTATC TTGGCCATCC CCATGGGTGA TTGTTATTGG CTCCTTCTTT TCAACATGTG GGGCTGGACT TCAGAGCCTC ACAGGTGCAC CGAGGCTGCT ACAAGCTATT GCCAAGGATA ACATCATACC GTTTCTGAGG GTTTTTGGCC ACAGCAAAGC CAATGGGGAA CCTACCTGGG CTTTACTTCT AACTGCTGCC ATTGCAGAGC TTGGAATACT CATTGCCTCC CTGGATCTTG TGGCCCCAAT TCTTTCCATG TTTTTTCTCA TGTGTTACCT CTTTGTAAAC TTGGCATGTG CCTTGCAAAC ATTACTTCGA ACACCCAACT GGAGACCCCG ATTCCGCTAC TACCATTGGG CCCTTTCTTT CATGGGAATG AGTATCTGTC TGGCTCTGAT GTTCATTTCT TCCTGGTATT ATGCCATTGT AGCCATGGTA ATAGCTGGTA TGATCTACAA GTACATTGAA TACCAAGGAG CTGAGAAAGA ATGGGGTGAT GGTATCCGTG GGCTGTCCCT CAGTGCAGCC CGGTTTGCTT TGCTTCGATT GGAGGAAGGA CCTCCACACA CTAAAAACTG GAGGCCTCAG TTGCTTGTAT TACTGAAACT AGATGAAGAC TTACATGTCA AGCATCCTCG CCTCCTCACC TTTGCCTCAC AGCTCAAAGC AGGAAAAGGT CTCACTATTG TGGGCTCTGT CATCGTGGGG AACTTCCTAG AGAACTACGG TGAAGCTTTA GCTGCTGAGC AGACCATAAA GCACCTAATG GAGGCAGAGA AGGTAAAAGG ATTCTGCCAG CTGGTGGTGG CCGCCAAGCT GAGGGAGGGC ATTTCCCACC TCATCCAGTC ATGTGGCCTT GGGGGCATGA AGCACAACAC GGTGGTGATG GGCTGGCCTA ATGGCTGGCG TCAAAGCGAA GATGCCCGCG CTTGGAAGAC TTTTATTGGC ACAGTTCGAG TGACAACTGC TGCCCATCTT GCACTGCTGG TGGCTAAAAA CATCTCCTTC TTTCCCAGCA ATGTGGAGCA ATTTTCTGAG GGCAACATTG ATGTGTGGTG GATTGTGCAT GATGGGGGGA TGCTTATGCT ACTACCATTC CTACTGAAAC AGCACAAGGT GTGGCGAAAG TGCAGCATAC GGATCTTCAC AGTAGCCCAA TTAGAAGACA ACAGTATCCA AATGAAGAAG GACCTAGCCA CCTTCCTATA TCACTTACGC ATTGAGGCGG AGGTAGAAGT GGTGGAGATG GTGAGAAAGC TGAGTTTGAG ATACAAGAGC ATGACAGTGA TATATCAGCA TATACTTACG AGCGCACTTT GA
Molecular Weight	120,467 Da
OMIM	218000
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for SLC12A6 cdna clone	MBS1269890 is a cDNA clone targeting SLC12A6.
Other Notes	Small volumes of SLC12A6 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC12A6. It may not necessarily be applicable to this product.

NCBI GI #	30704365
NCBI GeneID	9990
NCBI Accession #	BC051744
UniProt Secondary Accession #	Q2VI00; Q7Z2E7; Q7Z4G5; Q8TDD4; Q9UFR2; Q9Y642; Q9Y665; A0AV76
UniProt Related Accession #	Q9UHW9
NCBI Official Full Name	Homo sapiens solute carrier family 12 (potassium/chloride transporters), member 6, mRNA
NCBI Official Synonym Full Names	solute carrier family 12 member 6
NCBI Official Symbol	SLC12A6
NCBI Official Synonym Symbols	KCC3; ACCPN; KCC3A; KCC3B
UniProt Protein Name	Solute carrier family 12 member 6
UniProt Synonym Protein Names	Electroneutral potassium-chloride cotransporter 3; K-Cl cotransporter 3
Protein Family	Solute carrier family
UniProt Gene Name	SLC12A6
UniProt Synonym Gene Names	KCC3
UniProt Entry Name	S12A6_HUMAN
NCBI Protein Information	solute carrier family 12 member 6
NCBI Summary for SLC12A6	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]
UniProt Comments for SLC12A6	KCC3: Mediates electroneutral potassium-chloride cotransport. May be activated by cell swelling. May contribute to cell volume homeostasis in single cells. Homomultimer and heteromultimer with other K-Cl cotransporters. Up-regulated by VEGF. Down-regulated by TNF. Highly expressed in heart, brain and kidney. Detected at lower levels in skeletal muscle, placenta, lung and pancreas. Detected in umbilical vein endothelial cells. Isoform 2 is more abundant in kidney. Isoform 5 is testis specific. Expressed in the proximal tubule of the kidney. Activated by N-ethylmaleimide (NEM). Inhibited by DIOA, bumetanide and furosemide. Inhibited by WNK3. Belongs to the SLC12A transporter family. 6 isoforms of the human protein are produced by alternative promoter. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Transporter, SLC family; Transporter Chromosomal Location of Human Ortholog: 15q13 Cellular Component: basolateral plasma membrane; plasma membrane Molecular Function: potassium ion symporter activity; potassium:chloride symporter activity Biological Process: ion transport; synaptic transmission Disease: Agenesis Of The Corpus Callosum With Peripheral Neuropathy

Research Articles on SLC12A6	**1.** These results suggest that the expression of KCC3 in ESCC may affect cellular invasion and be related to a worse prognosis in patients with ESCC.
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