

Product datasheet for **SC337775**

SLC24A1 (NM_001301033) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC24A1 (NM_001301033) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC24A1
Synonyms:	CSNB1D; HsT17412; NCKX; NCKX1; RODX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001301033, the custom clone sequence may differ by one or more nucleotides

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ATGGGGAAATTGATCAGGATGGGGCCGCAAGAGAGGTGGTTACTCCGGACAAAGCGGCTTCATTGGAGTC
GCCTCCTCTTCTTACTGGGAATGTTGATCATCGGTTCTACTTATCAGCACCTTAGGAGACCCCGGGGCCT
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CTTGAATCAAGGGGCCAGAGCCCAACCCAGGCCAAAGCAGAAAGCAAACCAAGAGAGGAGGAGCCAGCC
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AAATGTTTCAGCATGGTCTATTCAATAA
  
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Restriction Sites: Sgfl-MluI

ACCN:	NM_001301033
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).
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:	<u>NM_001301033.1</u> , <u>NP_001287962.1</u>
RefSeq Size:	3906 bp
RefSeq ORF:	3039 bp
Locus ID:	9187
UniProt ID:	<u>O60721</u>
Cytogenetics:	15q22.31
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of the potassium-dependent sodium/calcium exchanger protein family. The encoded protein plays an important role in sodium/calcium exchange in retinal rod and cone photoreceptors by mediating the extrusion of one calcium ion and one potassium ion in exchange for four sodium ions. Mutations in this gene may play a role in congenital stationary night blindness. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011] Transcript Variant: This variant (5) differs in the 5' UTR, lacks an alternate in-frame exon in the central coding region, and contains alternate 3' exon structure and thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (5) has a distinct C-terminus and is shorter than isoform 1.