

Product datasheet for **RC206559**

SLC26A3 (NM_000111) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A3 (NM_000111) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC26A3
Synonyms:	CLD; DRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC206559 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAACCCTTTGGGAATCAGTATATTGTGGCCAGGCCAGTGTATTCTACAAATGCTTTTGGAGAAA
 ATCATAAAAAGACAGGAAGACATCATAAGACATTTCTGGATCATCTCAAAGTGTGTTGTAGCTGTTCCCC
 ACAAAAAGGCCAAGAGAATTGTCCTCTTTTGTCCCCATAGCATCTTGGTTGCCAGCATACCGGCTTAAA
 GAATGGTTGCTCAGTGATATTGTTTCTGGTATCAGCACAGGGATTGTGGCCGTAACAAGTTTAGCAT
 TTGCTCTGCTGGTCGACATTCGCCAGTCTATGGGTTGTATGCATCCTTTTTCCAGCCATAATCTACCT
 TTTCTCGGCACCTCCAGACACATATCCGTGGTCCGTTCCGATTCTGAGTATGATGGTGGGACTAGCA
 GTTTCAGGAGCAGTTTCAAAGCAGTCCAGATCGCAATGCAACTACTTTGGGATTGCCTAACAACCTCGA
 ATAATTCTTCACTACTGGATGACGAGAGGGTGAGGGTGGCGGCCGCATCAGTCACAGTGCTTTCTGG
 AATCATCCAGTTGGCTTTTGGGATTCTGCGGATTGGATTTGTAGTGATATACCTGTCTGAGTCCCTCATC
 AGTGGCTTCACTACTGCTGCTGCTGTTTGTGTTTCCCAACTCAAATTCATTTTTAGTTGACAG
 TCCCGTCACACTGATCCAGTTTCAATTTTCAAAGTACTATACTCTGTATTCTCACAAATAGAGAAGAC
 TAATATTGCAGACCTGGTGACAGCTCTGATTGTCTTTTGGTTGTATCCATTGTTAAAGAAATAAATCAG
 CGCTTCAAAGACAAACTCCAGTGCCCATTCGAATTCATTATGACCGTGATTGCAGCAGGTGAT
 CCTACGGCTGTGACTTTAAAAACAGTTTAAAGTGGCTGTGGTTGGGGACATGAATCCTGGATTTAGCC
 CCCTATTACACCTGACGTGGAGACTTTCCAAAACACCGTAGGAGATTGCTTCGGCATCGCAATGGTTGCA
 TTTGCAGTGGCCTTTTCAAGTGGCAGCGTCTATCCCTCAAATACGATTATCCACTTGATGGCAATCAGG
 AGTTAATAGCCTTGGGACTGGTAACATAGTCTGTGGAGTATTCAGAGGATTTGCTGGGACTGCTGCCCT
 TCCAGATCAGCAGTTTCCAGGAGACACAGGAGGCAAAAACACAGATTGCTGGGCTTATTGGTGCCATCATC
 GTGCTGATTGTCGTTCTAGCCATTGGATTTCTCCTGGCGCCTCTACAAAAGTCCGTCCTGGCAGCTTTAG
 CATTGGGAAACTTAAAGGAATGCTGATGCAGTTTGTGAAATAGGCAGATTGTGGCGAAAAGGACAAATA
 TGATTGTTAATTTGGATCATGACCTTCATCTTACCATTGCTCTGGGACTCGGTTAGGCTGGCAGCT
 AGTGTGGCATTCAACTGCTAACCATCGTGTTCAGGACCAATTTCCAAAATGCAGCAGCTGGCTAATA
 TTGGAAGAACCAACATCTATAAGAATAAAAAAGATTATTATGATATGATGAGCCAGAAGGAGTAAAAAT
 TTTAGATGTCCATCTCCTATCTACTTTGCAAACATTGGTTTCTTTAGGCGGAAACTTATCGATGCTGTT
 GGCTTTAGTCCACTTCGAATTCACGCAAGCGCAACAAAGCTTTGAGGAAAATCCGAAAACCTGCAGAAGC
 AAGGCTTGTACAAGTGACACCAAAAGGATTTATATGACTGTTGACACCATAAAAGATTCTGACGAAGA
 GCTGGACAACAATCAGATAGAAGTACTGGACCAGCCAATCAATACCACAGACCTGCCTTTCCACATTGAC
 TGGAAATGATGATCTTCTCTCAACATTGAGGTCCCAAAATCAGCCTCCACAGCCTCATTCTCGACTTTT
 CAGCAGTGTCTTTCTTGTGTTTCTTCACTGAGGGGCCTTAAATCGATTTTGAAGAATTTATCAGGAT
 CAAGGTAGATGTGATATCGTTGGAAGTATGATGACTTCATTGAGAAGCTTAACCGGATGAATTTTTT
 GATGGTGAAGTAAAAGCTCAATATTTTTCTTAAACATCCATGATGCTGTTTTGCATATTTTATGGAAGA
 AAGATTACAGTACTTCAAAGTTTAAATCCAGTCAGGAAAAAGATGGAAAAATGATTTTACCATAAATAC
 AAATGGAGGATTACGTAATCGGGTATATGAGGTGCCAGTTGAAACAAAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206559 protein sequence
 Red=Cloning site Green=Tags(s)

MIPEFGNQYIVARPVYSTNAFEENHKKTGRHHKTFDHLKVVCCSCSPQKAKRIVLSLFPIASWLPAYRLK
 EWLLSDIVSGISTGIVAVLQGLAFALLVDIPPVYGLYASFFPAIIYLFFGTSRHISVGGPPILSMMVGLA
 VSGAVSKAVPDRNATTLGLPNNSNNSSLLDDERVRVAAAAASVTVLSGIIQLAFGILRIGFVVIYLSSESLI
 SGFTTAAAVHVLVSQKFIQQLTVPSTDPVSIKVLVSVFSQIEKTNIADLVLTALIVLLVVSIVKEINQ
 RFKDKLPVPIPIEFIMTVIAAGVSYGCDKFNRFKVAVVGDMNPGFQPPIITPDVETFQNTVGDVCFGIAMVA
 FAVAFSVASVYSLKYDYPLDGNQELIALGLGNIVCGVFRGFAGSTALSRSAVQESTGGKTIAGLIGAI
 VLIVVLAIGFLLAPLQKSVLAALALGNLKGMLMQFAEIGRLWRKDKYDCLIWIMTFIFTIVLGLGLGLAA
 SVAFQLLTIVFRTQFPKCSTLANIGRTNIYKKNKDYDMYEPEGVKIFRCPSPIYFANIGFFRRKLIDAV
 GFSPLRILRKRKALRKIRKLQKQGLLQVTPKGFICTVDTIKDSDEELDNNQIEVLDQPIINTDLPFHID
 WNDLPLNIEVPKISLHSLILDFSAVSFLDVSSVRGLKSILQEFIRIKVDVYIVGTDDDFIEKLNRYEYF
 DGEVKSISFFLTIHDAVLHILMKDYSTSKFNPSQEKDGKIDFTINTNGGLRNRVYEVVETKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6015_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_000111

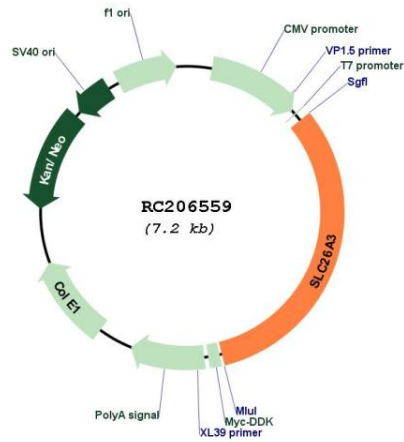
ORF Size: 2292 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

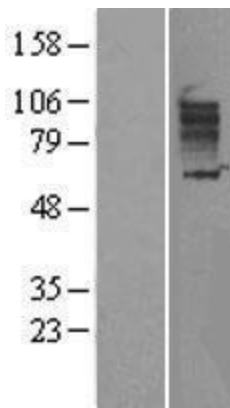
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000111.1 , NP_000102.1
RefSeq Size:	2894 bp
RefSeq ORF:	2295 bp
Locus ID:	1811
UniProt ID:	P40879
Cytogenetics:	7q22.3-q31.1
Protein Families:	Druggable Genome, Transcription Factors, Transmembrane
MW:	84.5 kDa
Gene Summary:	The protein encoded by this gene is a transmembrane glycoprotein that transports chloride ions across the cell membrane in exchange for bicarbonate ions. It is localized to the mucosa of the lower intestinal tract, particularly to the apical membrane of columnar epithelium and some goblet cells. The protein is essential for intestinal chloride absorption, and mutations in this gene have been associated with congenital chloride diarrhea. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC206559



Western blot validation of overexpression lysate (Cat# [LY400033]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206559 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).