

Product datasheet for **RG206559**

SLC26A3 (NM_000111) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC26A3 (NM_000111) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC26A3
Synonyms:	CLD; DRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG206559 representing NM_000111
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGAACCCTTTGGGAATCAGTATATTGTGGCCAGGCCAGTGTATTCTACAAATGCTTTTGGAGAAA
 ATCATAAAAAGACAGGAAGACATCATAAGACATTTCTGGATCATCTCAAAGTGTGTTGTAGCTGTTCCCC
 ACAAAAAGGCCAAGAGAATTGTCCTCTTTTGTCCCCATAGCATCTTGGTTGCCAGCATACCGGCTTAAA
 GAATGGTTGCTCAGTGATATTGTTTCTGGTATCAGCACAGGGATTGTGGCCGTAACAAGGTTTAGCAT
 TTGCTCTGCTGGTCGACATTCAGTCTATGGGTTGTATGCATCCTTTTTCCAGCCATAATCTACCT
 TTTCTCGGCACCTCCAGACACATATCCGTGGTCCGTTTCCGATTCTGAGTATGATGGTGGGACTAGCA
 GTTTCAGGAGCAGTTTCAAAGCAGTCCAGATCGCAATGCAACTACTTTGGGATTGCTAACAACCTCGA
 ATAATTCTTCACTACTGGATGACGAGAGGGTGAGGGTGGCGGCCGCATCAGTCACAGTGCTTTCTGG
 AATCATCCAGTTGGCTTTTGGGATTCTGCGGATTGGATTTGTAGTGATATACCTGTCTGAGTCCCTCATC
 AGTGGCTTCACTACTGCTGCTGCTGTTTGTGTTTCCCAACTCAAATTCATTTTTAGTTGACAG
 TCCCGTCACACACTGATCCAGTTTCAATTTTCAAAGTACTATACTCTGTATTCTCACAAATAGAGAAGAC
 TAATATTGCAGACCTGGTGACAGCTCTGATTGTCTTTTGGTTGTATCCATTGTTAAAGAAATAAATCAG
 CGCTTCAAAGACAAACTCCAGTGCCCATTTCCAATCGAATTCATTATGACCGTGATTGCAGCAGGTGAT
 CCTACGGCTGTGACTTTAAAAACAGGTTTAAAGTGGCTGTGGTTGGGGACATGAATCCTGGATTTAGCC
 CCCTATTACACCTGACGTGGAGACTTTCCAAAACACCGTAGGAGATTGCTTCGGCATCGCAATGGTTGCA
 TTTGCAGTGGCCTTTTCAAGTGGCAGCGTCTATCCCTCAAATACGATTATCCACTTGATGGCAATCAGG
 AGTTAATAGCCTTGGGACTGGTAACATAGTCTGTGGAGTATTCAGAGGATTTGCTGGGAGTACTGCCCT
 CTCCAGATCAGCAGTTTCAAGGAGACACAGGAGGCAAAAACACAGATTGCTGGGCTTATTGGTGCCATCATC
 GTGCTGATTGTCGTTCTAGCCATTGGATTTCTCCTGGCGCCTCTACAAAAGTCCGTCCTGGCAGCTTTAG
 CATTGGGAAACTTAAAGGAATGCTGATGCAGTTTGTGAAATAGGCAGATTGTGGCGAAAGGACAAATA
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 AGTGTGGCATTTCACCTGCTAACCATCGTGTTCAGGACCAATTTCCAAAATGCAGCAGCTGGCTAATA
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 TTTAGATGTCCATCTCCTATCTACTTTGCAAACATTGGTTTCTTTAGGCGGAAACTTATCGATGCTGTT
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 AAGGCTTGTACAAGTGACACCAAAAGGATTTATATGACTGTTGACACCATAAAAGATTCTGACGAAGA
 GCTGGACAACAATCAGATAGAAGTACTGGACCAGCCAATCAATACCACAGACCTGCCTTTCCACATTGAC
 TGGAAATGATGATCTTCTCTCAACATTGAGGTCCCAAAAATCAGCCTCCACAGCCTCATTCTCGACTTTT
 CAGCAGTGTCTTTCTTGTGTTTCTTCAAGTGGGGCTTAAATCGATTTTGAAGAATTTATCAGGAT
 CAAGGTAGATGTGATATCGTTGGAAGTATGATGACTTCATTGAGAAGCTTAACCGGATGAATTTTTT
 GATGGTGAAGTAAAAGCTCAATTTTTTCTTAAACATCCATGATGCTGTTTTGCATATTTTATGAGA
 AAGATTACAGTACTTCAAAGTTTAAATCCAGTCAGGAAAAAGATGGAAAAATGATTTTACCATAAATAC
 AAATGGAGGATTACGTAATCGGGTATATGAGGTGCCAGTTGAAACAAAATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206559 representing NM_000111
Red=Cloning site Green=Tags(s)

MIEPFGNQYIVARPVYSTNAFEENHKKTRHHKTFDHLKVVCCSCSPQKAKRIVLSLFPIASWLPAYRLK
 EWLLSDIVSGISTGIVAVLQGLAFALLVDIPPVYGLYASFFPAI IYLFFGTSRHSISVGPFPILSMMVGLA
 VSGAVSKAVPDRNATTLGLPNNSNNSSLLDDERVRVAAAAASVTLSGIIQLAFGILRIGFVVIYLSLSLI
 SGFTTAAAVHVLVSQKFIQFTVPSHTDPVSIKFKVLYSVFSQIEKTNIADLVTALIVLLVVSIVKEINQ
 RFKDKLPVPIPIEFIMTVIAAGVSYGCDFFKNRFKAVVGDMMNPGFQPPITPDVETFQNTVGDVCFIAMVA
 FAVAFSVASVYSLKYDYPLDGNQELIALGLGNIVCGVFRGFAGSTALSRSAVQESTGGKTIAGLIGAI
 VLIVVLAIGFLLAPLQKSVLAALALGNLKGMLMQFAEIGRLWRKDKYDCLIWIMTFIFTIVLGLGLGLAA
 SVAFQLLTIVFRTQFPKCSTLANIGRTNIYKNKKDYDMYEPEGVKIFRCPSPIYFANIGFFRRKLIDAV
 GFSPLRILRKRKALRKIRKLQKQGLLQVTPKGFICTVDTIKDSDEELDNNQIEVLDQPIINTDLPFHID
 WNDLPLNIEVPKISLHSLILDFSAVSFLDVSSVRGLKSILQEFIRIKVDVYIVGTDDDFIEKLNRYEFF
 DGEVKSSIFFLTIHDAVLHILMKKDYSTSKFNPSQEKDGKIDFTINTNGGLRNRVYVETK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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_000111.1](#), [NP_000102.1](#)

RefSeq Size: 2881 bp

RefSeq ORF: 2295 bp

Locus ID: 1811

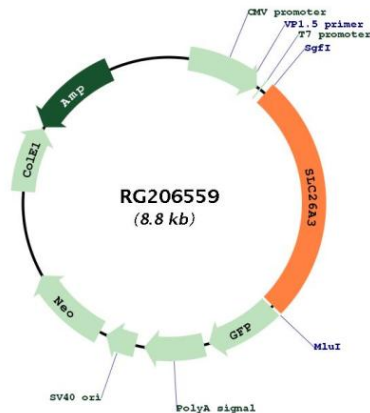
UniProt ID: [P40879](#)

Cytogenetics: 7q22.3-q31.1

Protein Families: Druggable Genome, Transcription Factors, Transmembrane

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 RG206559