

## Product datasheet for RC220734

### SLC4A7 (NM\_003615) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC4A7 (NM_003615) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC4A7
Synonyms:	NBC2; NBC3; NBCN1; SBC2; SLC4A6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220734 representing NM_003615 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAAGATTTCTGCTGGAGAAGAAGTTACCTGGTCCTGATGAAGAAGCTGTTGTGGATCTTGCCAAA  
CTAGCTCAACTGTGAACACCAAGTTTAAAAAGAAGAAGTAAAGTATAGAGCTGTATATTTGGTGT  
TCACGTCCTCGTTAGTAAAGAGAGTCGTCGGCGTCATAGGCATCGCGGACACAAACATCACCACCGGAGA  
AGAAAAGATAAAGAATCAGATAAAGAAGATGGACGGGAATCTCCTTCTTATGATACACCATCCCAGAGAG  
TTCAGTTTATCCTTGGTACTGAAGATGATGATGAAGAACATATCCCCATGATCTCTTCACGAAATGGA  
TGAAGTGTGTACAGAGATGGAGAAGAATGAATGGAAAGAACTGCTAGATGGCTGAAATTTGAAGAG  
GATGTTGAAGATGGCGGTGACCGATGGAGTAAACCTTATGTGGCAACTCTCTCTTGCACAGTCTTTTTG  
AACTAAGGAGTTGCATCCTCAATGGAACAGTCACTGCTGGATATGAGAGCAAGCACTCTAGATGAAATAGC  
AGATATGGTATTAGACAACATGATAGCTTCTGGCCAATTAGACGAGTCCATACGAGAGAATGTCAGAGAA  
GCTCTTCTGAAGAGACATCATCAGAATGAGAAAAGATTACCCAGTCCGATTCTCTTGTTCGATCTT  
TTGAGATATAGGCAAGAAACATTTCTGACCCTCACTTGCTTGAAGGAATGGGGAAGGCCTTTCAGCCTC  
CCGCCACTCTTTGCGAACAGGTCTGTCTGCCTCAAACCTTTCTTGGAGAGAGAATCACCTTTATCTCTT  
CTTCTTGGTCATCTTCTCTCTTCAAGAGCTGGAACCCCTGCAAGGTGTACAACCCAGTAC  
CCACCCCTCAAAACAGTCTCTTCTAGCCCTAGCATCAGCCGCTGACCTCCAGAAGTTCCCAAGAGAG  
TCAGCGTCAGGCCCCAGAACTACTGTTTACCTGCCAGTGATGATATCCACAGTAGTAATTCATCCG  
CCTGAGGAAGACTTAGAAGCAGCGCTGAAAGGCGAGGAGCAGAAGAATGAGGAAAATGTTGACTTAACTC  
CAGGTATTTGGCCTCTCCCACTGCTCCTGGAACTTGGACAATAGTAAAAGTGGAGAAATTAAGG  
TAATGGAAGTGGTGAAGCAGAGAAAATAGTACTGTTGACTTCAGCAAGGTTGATATGAATTTATGAGA  
AAAATTCCTACGGGTGCTGAGGCATCAACGTCCTGGTGGCGAAGTAGACTTTTTGAAAGGCCAATAA  
TTGCAATTTGAGACTGGCTCCTGCTGTCTCCTTACAGGTTGACTGAGGTCCCTGTTCCAACAGGTT  
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CTCATGACAGATGAGATTTTCCATGATGTAGCTTATAAAGCAAAAGACAGAAATGACCTTATCTGGAA  
TTGATGAATTTTATAGATCAAGTAACTGTCTACCTCCAGGAGAGTGGGATCCTTCTATACGCATAGAACC  
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ATTCATTGTTTGGCTGGGCAACCTCTAACAATATTGGGGAGCACAGTCCAGTTCTAGTGTGGAAAAAT  
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AAGAGGCTTTTGCAGCCCTTATTTGCATCATATTCATCTACGAGGCTTTGGAGAAGCTCTTTGATTTAGG  
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AGTCCTAAAGTTTTATTCCAATGCCTGTTCTGTATGGTGTTCCTTTATATGGGAGTTTCTCATTAAAA  
GGAATCCAGTTATTTGACCGTATAAAATTTTGAATGCCTGCTAAGCATCAGCCTGATTTGATATACC  
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GGTGATAAAAGTTTACAGCTGCTGCAGTGGTTTTTCCCATGATGGTTCTTGCATTAGTGTGTGCGCAAA  
CTCATGGACCTGTGTTTACGAAGAGAGAACTTAGTTGGCTTGTATGATCTTATGCCAGAAAGTAAGAAAA  
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TGTGCACCTTCCATTTGAAGGGGAAGTCTTTGCAAATTCAGTCAAGGCCCTAAAATATAGTCTGAT  
AAACCTGTGAGTGTGAAAATAAGTTTTGAAGATGAACCAAGAAAGAAATACGTGGATGCTGAACTTCAT  
TA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220734 representing NM\_003615  
 Red=Cloning site Green=Tags(s)

MERFRLEKKLPGPDEEAVVDLGTKSSTVNTKFEKEEESHRAVYIGVHVPFSKESRRRHRHRGHKHHHRR  
 RKDKESDKEDGRESYDTPSQRVQFILGTEDDDEEHIPDLFTEMDEL CYRDGEEYEWKETARWLKFEE  
 DVEDGGDRWSKPYVATLSLHSLFELRSCILNGTVMLDMRASTLDEIADMVLDNMIASGQLDESIRENVRE  
 ALLKRHHHQNEKRFTSRIPLVRSFADIGKKHSDPHLLERNGLSASRHSRLTGLSASNLSLRGESPLSL  
 LLGHLLPSSRAGTPAGSRCTTPVPTPQNSPPSSPSISRLTSRSSQESQRQAPPELLVSPASDDIPTVVIHP  
 PEEDLEAALKGEEQKNEENVDLTPGILASPQSAPGNL DNSKSGEIKNGSGGSRENSTVDFSKVDMNFMR  
 KIPTGAEASNVLVGEVDFLERPIIAFVRLAPAVLLTGLTEVPVPTRFLLLLGPAGKAPQYHEIGRSIAT  
 LMTDEIFHDVAYAKDRNDLLSGIDEFLDQVTVLPPGEWDP SIRIEPPKSVPSQEKRKIPVFHNGSTPTL  
 GETPKEAAHHAGPELQRTGRLFGGLILDIKRKAPFFLSDFKDALSLQCLASILFLYCACMSPVITFGLL  
 GEATEGRISAIESLFGASLTGIAYSLFAGQPLTILGSTGPVLVFEKILYKFCRDYQLSYLSLRTSIGLWT  
 SFLCIVLVATDASSLVCIYTRFTEEAFAALICIIIFIYEAEKLFDLGETYAFNMHNLDKLTYSYCVCTE  
 PPNPSNETLAQWKKNITAHNISWRNLTVSECKKLRGVFLGSACGHHGPYIPDVLFWCVILFFTTFFLSS  
 FLKQFKTKRYFPYTKVRSITSDFAVFLTIVIMVTIDYLVGVPSPKLHVPEKFEPTHPERGWIISPLGDNPW  
 WTLIIAIPALLCTILIFMDQQITAVIINRKEHKLKKGAGYHLDLLMVGVMGLVCSVMGLPWVFAATVLS  
 ISHVNSLKVSECSAPGEQPKFLGIREQRTGLMIFILMGLSVFMTSVLKFIPMPVLYGVFLYMGVSSLK  
 GIQLFDRIKLFGMPAKHQPDLIYLRVPLWKVHIFTVIQLTCLVLLWVIKVSAAAVVFPMMVLALVFRK  
 LMDLCTFKRELSWLDLMPESKKKKEDDKKKKEEAEERMLQDDDDTVHLPFEGGSLQIPVKALKYSPD  
 KPVSVKISFEDEPRKKYVDAETSL

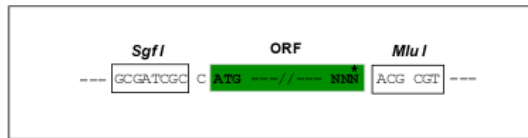
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



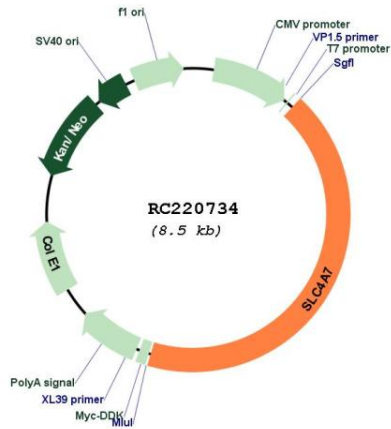
\* The last codon before the Stop codon of the ORF

ACCN: NM\_003615

ORF Size: 3642 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003615.5</a>
<b>RefSeq Size:</b>	7767 bp
<b>RefSeq ORF:</b>	3645 bp
<b>Locus ID:</b>	9497
<b>UniProt ID:</b>	<a href="#">Q9Y6M7</a>
<b>Cytogenetics:</b>	3p24.1
<b>Domains:</b>	HCO3_cotransp
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	136.5 kDa
<b>Gene Summary:</b>	This locus encodes a sodium bicarbonate cotransporter. The encoded transmembrane protein appears to transport sodium and bicarbonate ions in a 1:1 ratio, and is thus considered an electroneutral cotransporter. The encoded protein likely plays a critical role in regulation of intracellular pH involved in visual and auditory sensory transmission. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RC220734