

Product datasheet for **RG235164**

SLC4A7 (NM_001258380) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC4A7 (NM_001258380) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLC4A7
Synonyms: NBC2; NBC3; NBCN1; SBC2; SLC4A6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235164 representing NM_001258380
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAAGATTTCTGCTGGAGAAGAAGTTACCTGGTCCTGATGAAGAAGCTGTTGTGGATCTTGCCAAA
CTAGCTCAACTGTGAACACCAAGTTTAAAAAGAAGAAGTAAAGTATAGAGCTGTATATTTGGTGT
TCACGTCCTGTTAGTAAAGAGAGTCGTCGGCGTCATAGGCATCGCGGACACAAACATCACCACCGGAGA
AGAAAAGATAAAGAATCAGATAAAGAAGATGGACGGGAATCTCCTTCTTATGATACACCATCCAGAGAG
TTCAGTTTATCCTTGGTACTGAAGATGATGATGAAGAACATATCCCCATGATCTCTTCACGAAATGGA
TGAAGTGTGTACAGAGATGGAGAAGAATGAATGGAAAGAACTGCTAGATGGCTGAAATTTGAAGAG
GATGTTGAAGATGGCGGTGACCGATGGAGTAAACCTTATGTGGCAACTCTCTCTTGCACAGTCTTTTTG
AACTAAGGAGTTGCATCCTCAATGGAACAGTCATGCTGGATATGAGAGCAAGCACTCTAGATGAAATAGC
AGATATGGTATTAGACAACATGATAGCTTCTGGCCAATTAGACGAGTCCATACGAGAGAATGTCAGAGAA
GCTCTTGAAGAGACATCATCAGAATGAGAAAAGATTACCCAGTCGGATTCCTCTTGTTCGATCTT
TTGCAGATATAGGCAAGAAACATTTCTGACCCTCACTTGCCTGAAAGGAATGGTATTTTGGCCTCTCCCA
GTCTGCTCCTGGAACTTGGACAATAGTAAAAGTGGAGAAATTAAGGTAATGGAAGTGGTGAAGCAGA
GAAAATAGTACTGTTGACTTCAGCAAGGTTGATATGAATTTTCATGAGAAAAATTCACGGGTGCTGAGG
CATCCAACGTCCTGGTGGCGAAGTAGACTTTTTGGAAAGCCAATAATTGCATTTGTGAGACTGGCTCC
TGCTGTCTCCTTACAGGGTTGACTGAGGTCCCTGTTCCAACCAGTTTTTTGTTTTTGTATTGGGTCCA
GCGGGCAAGGCACCACAGTACCATGAAATTTGGACGATCAATAGCCACTCTCATGACAGATGAGATTTTCC
ATGATGTAGCTTATAAAGCAAAAGACAGAAATGACCTCTTATCTGGAATTGATGAATTTTATAGTCAAGT
AACTGTCTACCTCCAGGAGAGTGGATCCTTCTATACGCATAGAACCACCAAAAAGTGTCCCTTCTCAG
GAAAAGAGAAAGATTCTGTGTTTCAATGGATCTACCCACACTGGGTGAGACTCTAAAGAGGCCG
CTCATCATGCTGGCCTGAGCTACAGAGACTGGACGGCTTTTTGGTGGTTTGATACTTGACATCAAAG
GAAAGCACTTTTTTCTGAGTGACTTCAAGGATGCATTAAGCCTGCAGTGCCTGCCTCGATTCTTTTC



[View online >](#)

CTATACTGTGCCTGTATGTCTCCTGTAATCACTTTTGGAGGGCTGCTTGAGAAGCTACAGAAGGCAGAA
 TAAGTGAATAGAGTCTCTTTTGGAGCATCTAACTGGGATTGCCTATTCATTGTTTGGTGGCAACC
 TCTAACAAATATGGGGAGCACAGGTCCAGTTCTAGTGTGGAAAAATTTATATAAATCTGCAGAGAT
 TATCAACTTTCTATCTGTCTTTAAGAACCAGTATTGGTCTGTGGACTCTTTTTTGTGCATTGTTTTG
 TTGCAACAGATGCAAGCAGCCTTGTGTGTATATTACTCGATTTACAGAAGAGGCTTTTGCAGCCCTTAT
 TTGCATCATATTCATCTACGAGGCTTTGGAGAAGCTCTTGATTTAGGAGAAACATAGCCATTTAATATG
 CACAACAACCTTAGATAAACTGACCAGCTACTCATGTGTATGACTGAACCTCCAAACCCAGCAATGAAA
 CTCTAGCACAATGGAAGAAAGATAATATAACAGCACACAATATTTCTGGAGAAATCTTACTGTTTCTGA
 ATGTAATAAACTTCGTGGTGTATTCTTGGGGTCAAGCTTGTGGTCACTGACCTTATATCCAGATGTG
 CTCTTTTGGTGTGCATCTTGTTTTTACAACTTTTTTCTGTCTTCAATCCTCAAGCAATTAAGACCA
 AGCGTTACTTTCTACCAAGGTGCGATCGACAATCAGTATTTTGTGTATTTCTACAATAGTAATAAT
 GGTTACAATTGACTACCTTGTAGGAGTCCATCTCCTAACTTCACTGTTCTGAAAAATTTGAGCCTACT
 CATCCAGAGAGAGGGTGGATCATAAGCCACTGGGAGATAATCCTTGGTGGACCTTATTAATAGCTGCTA
 TTCTGCTTTGCTTTGTACCATTCTCATCTTTATGGATCAACAAATCACAGCTGTAATTATAACAGAAA
 GGAACACAAATGAAGAAAGGAGCTGGCTATCACCTTGATTTGCTCATGGTTGGCGTTATGTTGGGAGTT
 TGCTCTGTGATGGACTTCCATGGTTTGTGGTGCACAGTGTGCAATAAGTCATGTCAACAGCTTAA
 AAGTTGAATCTGAATGTTCTGCTCCAGGGGAACAACCAAGTTTTTGGGAATTCGTGAACAGCGGGTTAC
 AGGGCTAATGATTTTTATTCTAATGGGCCTCTCTGTGTTGATGACTTCACTAAAGTTTATTCCAATG
 CCTGTTCTGTATGGTGTCTTCTTTATATGGGAGTTTCTCATTAAAAGGAATCCAGTTATTTGACCGTA
 TAAAATATTTGGAAATGCCTGCTAAGCATCAGCCTGATTTGATATACCTCCGTTATGTGCCGCTCTGGAA
 GGTCCATATTTTACAGTCATTCAGCTTACTTGTGGTCTTTTATGGGTGATAAAAGTTTCAAGCTGCT
 GCAGTGGTTTTTCCCATGATGGTCTTGCATTAGTGTGTGCGCAAACTCATGGACCTGTGTTTACCGA
 AGAGAAACTTAGTTGGCTTGTATGATCTTATGCCAGAAAGTAAAGAAAAGAAAGAAAGTACAAAGAA
 AAAAGAGAAAGAGGAAGCTGAACGGATGCTTCAAGATGATGATGATACTGTGCACCTCCATTTGAGGG
 GGAAGTCTCTGCAAAATCCAGTCAAGGCCCTAAAATATAGTCTGATAAACCTGTGAGTGTGAAAATAA
 GTTTTGAAGATGAACCAAGAAAGAAATACGTGGATGCTGAACTTCATTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG235164 representing NM_001258380
 Red=Cloning site Green=Tags(s)

MERFRLEKLLPGPDEEAVVDLKGTSSTVNTKFEKEEESHRAVYIGVHVPPSKESRRRHRHRGHKHHHRR
 RKDKESDKEDGRESPTYDTPSQRVQFILGTEDDDEEHIPHDLFTEMDEL CYRDGEEYEWKETARWLKFE
 DVEDGGDRWSKPYVATLSLHSLFELRSCILNGTVMLDMRASTLDEIADMVLDNMIASGQLDESIRENVRE
 ALLKRHHHQNEKRFSTRIPLVRSFADIGKKHSDPHLLERNGILASPOSAPGNLNSKSGEIKGNSSGGSR
 ENSTVDFSKVDMNFMRKIPTGAEASNVLVGEVDFLERPIIAFVRLAPAVLLTGLTEVPVPTRFLLLLGP
 AGKAPQYHEIGRSIATLMTDEIFHDVAYKAKDRNDLLSGIDEFLDQVTVLPPGEWDPSSIRIEPPKSVPSQ
 EKRKIPVFHNGSTPTLGETPKEAAHAGPELQRTGRLFGGLILDIKRKAPFFLSDFKDALSLQCLASILF
 LYCACMSPVITFGGLLGEATEGRISAIESLFGASLTGIAYSLFAAQPLTILGSTGPVLFVEKILYKFCRD
 YQLSYLSLRTSIGLWTSFLCIVLVATDASSLVCIYITRFTEEAFAALICIFIYEALEKFLDLGETYAFNM
 HNNLDKLSYSCVCTEPPNPSNETLAQWKKNITAHNISWRNLTVSECKLRGVFLGSACGHGYPYIPDV
 LFWCVILFFTTFFLSSFLKQFKTKRYFPTKVRSTISDFAVFLTIVIMVTIDYLVGVSPKLVHVEKFEPT
 HPERGWIISPLGDNPPWTLIAAIPALLCTILIFMDQITAVIINRKEHKLKKGAGYHLLDLMVGVMLGV
 CSVMGLPWFVAATVLSISHVNSLKVSECSAPGEQPKFLGIREQRTGLMIFILMGLSVFMTSVLKFIPM
 PVLYGVFLYMGVSSLKGIQLFDRIKLFMPAKHQPDLIYLRVPLWKVHIFTVIQTLTCLVLLWVIKVSAA
 AVVFPMMVLALVFVRKLMDLCTFKRELSWLDLMPESKSKKEDDKKKKKEEAERMLQDDDDTVHLPFEG
 GSLLQIPVKALKYSPDKPVSVKISFEDEPRKKYVDAETSL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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.
RefSeq:	NM_001258380.2
RefSeq Size:	7395 bp
RefSeq ORF:	3273 bp
Locus ID:	9497
UniProt ID:	Q9Y6M7
Cytogenetics:	3p24.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	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]