

Product datasheet for **RR217560**

Slc4a7 (NM_001270860) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc4a7 (NM_001270860) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Slc4a7
Synonyms: NBC3; NBCn1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217560 representing NM_001270860
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

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 TGGATCTTGGCAAAGTCTCAACCGTGAACACCAAGTTTAAAAAGAAGAATTAGAGAGTCATCGAGC
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 CGCCATCGCAGAGGGTGCAGTTCATCCTTGGGACTGAAGACGATGATGAGGAGCACATCCCCACGACCT
 CTTACGGAGATGGACGAGCTCTGCTACCGAGACGGGAAGAGTACGAGTGGAAAGAGACAGCCAGGTGG
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TTCTTCCTCCAGGAGAGTGGGATCCTTCCATACGCATAGAGCCACCAAAAAGTGTTCCTTCTCAGGAGAA
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Protein Sequence: >RR217560 representing NM_001270860
 Red=Cloning site Green=Tags(s)

MEADGAGEQMRPLLTRGPDEEAVVDLTKTSSTVNTKFEKEEESHRAVYVGVHVPFSKESRRRRHRHGK
 HHHRRRKDKSDKEDGRESPSYDTPSQRVQF ILGTEDDDEEHIPDLFTEMDEL CYRDGEEYEWKETARW
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 SRAGTPAGSRCTTPVPTQNSPPSPSLRSLTSRSSQQTQPAPEVLVSPDRDDIPRVVIHPPEEDIEAL
 KGQEQKNEENTDFTPGILASPQSAPGNLDSSKSGEVKNGSGGSRENSTVDFSKVDMNFMRKIPTGAEAS
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 HAGPELQRTGRLFGGLILDIKRKAPFFLSDFKDALSLQCLASILFLYCACMSPVITFGGLLGEATEGRIS
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 TDASSLVCYITRFTEEAFALICIFIYEAL EKL FHLGEIYAFNMHNNLDALTSYTCVCAEPSNPSNETV
 ELWERKNVTAASISWANLTVSECKTFHGMFVGSACGPHGPYVPDVLFWCVLFFTTFFLSSFLKQFKTKR
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 ALLCTILIFMDQQTAVIINRKEHKLKKGAGYHLDLLMVAVMLGVCSIMGLPWFVAATVLSISHVNSLKV
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 ELSWLDLMPESK KKKEDDKKKKEEAEERMLQGDGDTVHL PFERGSL LQIPVKTLKYSIDPSV VNI SDE
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

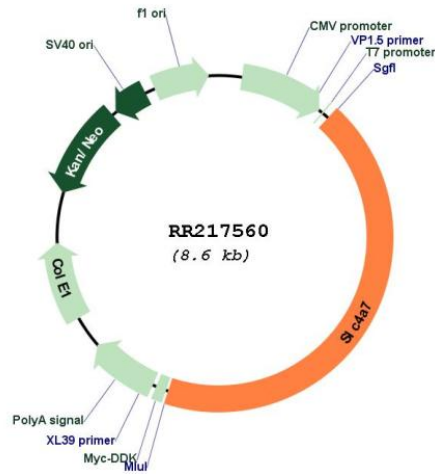
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270860

ORF Size: 3723 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_001270860.1](#), [NP_001257789.1](#)

RefSeq Size: 4002 bp

RefSeq ORF: 3726 bp

Locus ID: 117955

Cytogenetics: 15p16

MW: 138.4 kDa

Gene Summary: regulates intracellular pH in different cells along with Na⁺-driven HCO₃⁻ transporters, the Na⁺-driven Cl⁻/HCO₃⁻ exchanger [RGD, Feb 2006]