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Product datasheet for RN217549

Slc4a7 (NM_001270861) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc4a7 (NM_001270861) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc4a7
Synonyms:	NBC3; NBCn1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>RN217549 representing NM_001270861
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCAGACGGGGCCGGCGAGCAGATGAGACCGCTACTCACGCGGGGTCCCGATGAAGAAGCTGTTG
TGGATCTTGGCAAAACTAGCTCAACCGTGAACACCAAGTTTGAAAAAGAAGAATTAGAGAGTCATCGAGC
TGTATATGTTGGTGTTCATGTACCGTTTAGTAAAGAGAGTCGTCGGCGTCACAGGCATCGAGGGCACAAA
CATCACCACCGGAGAAGAAAAGACAAAGACTCAGATAAGGAAGATGGACGGGAGTCTCCTTCTTATGACA
CGCCATCGCAGAGGGTGCAGTTCATCCTTGGGACTGAAGACGATGATGAGGAGCACATTCCCCACGACCT
CTTCACGGAGATGGACGAGCTCTGCTACCGAGACGGGGAAGAGTACGAGTGGAAAGAGACAGCCAGGTGG
CTGAAGTTCGAAGAGGATGTTGAGGATGGTGGTGACCGATGGAGTAAACCGTATGTGGCCACTCTGTCTT
TGCACAGTCTCTTTGAGCTGAGGAGTTGTATCCTAAATGGAACAGTCATGCTGGATATGAGAGCAAGCAC
TCTGGATGAAATAGCAGATATGGTGTTAGACAACATGATAGCGTCTGGCCAGCTAGATGACTCCATAAGG
GAGAATGTTCGAGAAGCTCTTCTGAAGAGACATCATCATCAAAATGAGAAAAGGTTTACAAGTCGGATTC
CCCTCGTTCGATCCTTTGCAGATATAGGCAAGAAACATTCTGACCCTCACTTGCTTGAAAGGAATGGGGA
AGGCCTGTCAGCCTCCCGCCATTCTTTGCGAACAGGTCTGTCTGCCTCAAACCTTTCCTTGAGAGGAGAA
TCGCCTTTATCCCTTCTTCTCAGTCATCTTCTTCCTTCTTCAAGAGCTGGCACCCCTGCAGGCTCAAGGT
GTACCACCCCAGTACCCACCCCCCAGAACAGTCCTCCTTCCAGCCCCAGCTTAAGTCGCCTGACCTCCAG
AAGTTCCCAACAGACTCAGCCTCAGGCCCCAGAAGTACTGGTGTCACCTGACAGGGATGATATTCCCAGA
GTAGTAATTCATCCGCCTGAGGAAGACATAGAAGCACTGAAAGGCCAAGAGCAGAAGAATGAGGAAAATA
CTGACTTCACTCCAGGGATTTTGGCTTCTCCACAGTCTGCTCCTGGAAACCTGGACAGTAGTAAAAGTGG
TGAAGTGAAAGGTAACGGAAGTGGAGGAAGCAGAGAAAATAGTACTGTTGACTTTAGCAAGGTTGACATG
AATTTCATGAGGAAAATTCCTACAGGAGCTGAGGCATCCAATGTTTTGGTAGGAGAGGTGGATTTCTTGG
AGAGACCTATCATTGCATTTGTGAGACTGGCTCCTGCAGTTCTCCTCTCAGGGTTGACTGAGGTCCCTGT
GCCCACTAGGTTTTTGTTTCTGTTACTGGGCCCAGCAGGAAAGGCTCCACAGTACCATGAAATTGGCAGA
TCCATAGCAACTCTAATGACAGATGAGATTTTTCATGATGTAGCTTATAAAGCAAAAGATCGAAATGACC

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TCTTATCTGGAATTGATGAATTTTTAGATCAAGTAACTGTTCTTCCTCCAGGAGAGTGGGATCCTTCCAT
ACGCATAGAGCCACCAAAAAGTGTTCCTTCTCAGGAGAAAAGGAAGATTCCTGCGTTTCCCAATGGATCT
GCTCCAGTGTCTGCTGACCCTCCTAAGGAGGCTGATCACCACGCTGGGCCTGAGCTGCAGAGGACTGGAC
GGCTTTTTGGTGGTTTGATACTTGACATCAAAAGGAAAGCACCTTTTTTCTTGAGTGACTTCAAGGATGC
ATTAAGTCTGCAGTGCCTGGCCTCGATTCTTTTCCTATACTGTGCCTGTATGTCTCCTGTAATCACTTTT
GGAGGGCTGCTTGGAGAAGCTACAGAAGGCAGAATAAGTGCAATAGAGTCTCTTTTTGGAGCATCATTAA
CTGGGATTGCCTATTCATTGTTTGCTGGGCAACCTCTAACAATACTGGGGAGCACGGGTCCAGTCCTAGT
GTTTGAAAAAATTTTATTTAAATTCTGTAGAGATTATCACCTATCCTATCTATCATTAAGAACCAGTATT
GGTCTGTGGACTTCTTTCTTGTGCATTGTGTTGGTCGCAACAGATGCCAGCAGCCTTGTTTGTTACATTA
CTCGGTTCACAGAAGAAGCTTTCGCCGCACTCATTTGTATCATCTTCATCTATGAAGCCTTGGAGAAACT
CTTTCACTTAGGAGAAATATATGCATTTAACATGCACAACAACTTGGATGCATTGACCAGTTACACATGT
GTATGTGCTGAGCCATCTAATCCTAGCAACGAAACTGTAGAGCTGTGGGAGAGGAAGAACGTGACAGCAG
CCAGTATTTCCTGGGCAAACCTTACCGTGTCTGAGTGTAAGACCTTCCACGGTATGTTTGTGGGATCAGC
TTGTGGGCCTCACGGGCCTTATGTTCCCGATGTGCTCTTCTGGTGTGTCGTCTTGTTTTTCACAACGTTC
TTTCTGTCTTCATTCCTCAAGCAGTTTAAGACCAAGAGATATTTTCCTACTAAGGTGCGATCAACAATCA
GTGACTTTGCTGTATTTCTCACAATAGTAATAATGGTTGCAATTGACTACCTTGTAGGAATTCCATCTCC
TAAACTTCATGTTCCTGAAAAGTTTGAGCCTACTGATCCAAGCAGGGGCTGGATCATAAGCCCTTTGGGA
GATAACCCTTGGTGGACCTTACTAATTGCAGCTGTTCCAGCTCTCCTTTGTACCATTCTCATCTTCATGG
ACCAGCAGATCACAGCTGTGATCATCAACAGGAAAGAACACAAACTGAAGAAAGGAGCTGGCTATCACCT
GGACTTGCTCATGGTTGCTGTCATGTTGGGAGTCTGCTCCATCATGGGCCTGCCGTGGTTTGTGGCTGCA
ACAGTGTTGTCTATAAGTCATGTCAACAGCTTAAAAGTAGAGTCTGAATGTTCTGCTCCAGGGGAACAGC
CCAAGTTCCTCGGAATTCGTGAACAGCGGGTTACAGGGCTGATGATTTTTATCCTGATGGGCCTCTCTGT
GTTCATGACTTCAGTATTAAAGTTTATTCCGATGCCAGTTCTATATGGTGTTTTCCTTTATATGGGAGTT
TCTTCTCTGAAAGGAATTCAGTTTTTTGACCGTATCAAATTATTTGGAATGCCTGCCAAGCACCAGCCGG
ACCTGATCTACCTCCGCTATGTCCCTCTCTGGAAGGTGCACGTGTTCACGGTCGTCCAGCTGACCTGCCT
GGTTCTGCTCTGGGTGATCAAAGCCTCTGCTGCTGCAGTAGTTTTTCCCATGATGGTTCTTGCATTAGTC
TTTGTGCGCAAGCTCATGGATCTGTGCTTCACAAAGAGAGAACTCAGTTGGCTTGATGACCTCATGCCAG
AAAGTAAGAAAAAGAAAGAAGATGACAAGAAGAAGAAGGAGAAGGAGGAAGCTGAGCGGATGCTTCAGGG
TGACGGGGATACTGTGCACCTCCCATTCGAAAGGGGGAGTCTCCTACAAATTCCAGTTAAGACCCTAAAA
TATAGCCCTGAAAAGCCTGTGAGTGTGACAATAAATTTCGAAGATGAACCATCAAAAAAATACATGGATG
CTGAAACTTCATTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001270861

Insert Size: 3657 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001270861.1, NP_001257790.1
RefSeq Size:	3933 bp
RefSeq ORF:	3657 bp
Locus ID:	117955
UniProt ID:	Q9R1N3
Cytogenetics:	15p16
Gene Summary:	regulates intracellular pH in different cells along with Na+-driven HCO3- transporters, the Na+-driven Cl-/HCO3- exchanger [RGD, Feb 2006] Transcript Variant: This variant (3) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (3) has the same N- and C-termini but is shorter compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.