

Product datasheet for **RC216423**

SLC9A5 (NM_004594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A5 (NM_004594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC9A5
Synonyms:	NHE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC216423 representing NM_004594
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGCGCCGCTGTCCCTGCTCGCGCTGCCCTGGCGGGGCGGCCGAAGAGCCACCCAGAAGC
 CAGAGTCCCCGGGCGAGCCTCCCCAGGCTTAGAGCTTCCCGCTGGCAGTGGCAGGAGGTGGAGGCGCC
 CTACCTGGTGGCCCTGTGGATCCTGGTGGCCAGTCTGGCCAAAATCGTGTTTCACCTGTCTCGAAAAGTA
 ACATCTCTGGTCCCTGAGAGCTGCCTGCTGATTTTGTGGCCTGGTGTAGGGGGAATTGTTTGGCTG
 TGGCCAAGAAAGCTGAGTACCAGCTGGAGCCAGGCACCTTCTTCTCTTCTGCTGCCTCTATTGTGT
 GGACTCAGGCTATTTATGCCTAGCAGGCTGTTCTTTGACAACTGGGTGCCATCCTCACATATGCCGTG
 GTAGGCACACTCTGGAATGCCTTACAACAGGCGCTGCCCTTGGGGCTGCAGCAGGCTGGACTGTAG
 CCCCTAGGGTGCAGGCTGGCTTACTGGACTTCTGCTGTTGGGAGCCTCATCTCGGCGGTGGACCCGT
 GGCCGTGCTAGCTGTCTTGGAGAGGTGCACGTAATGAGACTCTTTTATCATCGTCTTGGCGAGTCC
 CTGCTCAACGATGCTGTACCGTGGTGTGTACAAGGTCTGCAACTCCTTGTGGAGATGGGCTCTGCCA
 ATGTGCAGGCCACTGACTACCTGAAGGGAGTCCCTCCCTGTTTGTGGTCACTCTGGCGGGGACGCGT
 GGGCTTAGTCTTTGCCTTCTCCTGGCCCTGACCACAGCTTACCAAGCGGGTCCGCATCATCGAGCCG
 CTGCTGGTCTTCTCCTCGCCTACGCAGCCTACCTCACTGCTGAAATGGCCTCGCTCTCCGCCATTTTG
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 TGTCAAATATAAATGAAGACTTAGCCAGCTGTGCTGAGACCGTATCTTATGCTGCTGGCATCTCA
 GCCGTGGACTCTTCTAAGTGGCCTGGGATTCTGGGCTGGTGGCACCCTCATCTTCTCCTGTTCT
 TCCGACCCTCGGCGTAGTCTGCAGACCTGGGTGCTGAATCAGTCCGGCTAGTCCCTCATCAAGAT
 TGACCAAGTGGTGTCTATGGGGCCCTGCGGGGGCTGTGGCCTTTGCTCTCGTCATCCTACTGGAT
 AGGACCAAGTCCCTGCCAAGGACTACTTTGTAGCCACCCTATTGTAGTGGTCTTCTTACAGTATCG
 TGCAGGGCTTGACCATCAAGCCACTGGTCAAATGGCTGAAGGTGAAGAGGAGTGAAGTACAAAACCCAC
 CCTGAACCAGGAGCTGCATGAACACACTTTTGACCACATTCTGGCTGCAGTGGAGGACGTTGTGGGGC
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 GACGATCAGCCTACCGCATCCGGGACCAGATCTGGGATGTGTACTACAGGCTAACATCCGGGATGCCAT
 CAGCTTTGTGGACAGGGAGGCCAGTCTTGTCTTCCACAGTCTCACTCTGCCTTCTATGCCAGCCGC
 AATTCTGTGGCAGAACTTCTGTACCAACCTGCTGAGGGAGAGTGGCAGTGGAGCGTGTCTGGATCTGC
 AGGTGATTGACACAGTACGCAGCGCCGGGATCGTGAGGATGCTGTGATGCATCATCTGCTCTCGCGAGG
 CCTCTACAAGCCGCGCCGTAGGTACAAAGCCAGCTGCAGTCCGCACTTCTATCTCAGAGGATGCGCAGGAG
 CGGCAGGACAAGGAGGCTTCCAGCAGAACATGAAGCGGCGGCTGGAGTCCTTAAGTCCACCAAGCACA
 ACATCTGCTTACCAAGAGCAAGCCACGACCCCGCAAGACTGGCCGAGGAAGAAGGATGGTGTGGCGAA
 TGCTGAGGCTACAAAATGGGAAACATCGAGGCTGGGCTTTCAGGACACAGCTGCTGTGATTAACCGTG
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 GCATCTCATCCCTGGAGAGCCTAGCGTCCCTCCCTGTAAACCAGGCCCAATTCTGACCTGCCTGCCTCC
 CCATCCACGGGGCACTGAAGAGCCCAAGTCCCTCTCCACCTACCTTCTGATCCACGCTCTAGTTCGCC
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 CATCCAGTTCAACAGAGGACGCGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216423 representing NM_004594
 Red=Cloning site Green=Tags(s)

MLRAALSLLALPLAGAAEPTQKPESPGEPPLLELFRWQWHEVEAPYLVALWILVASLAKIVFHLSRKV
 TSLVPESCLLILLGLVLGGIVLAVAKKAEYQLEPGTFFLLPPIVLDSGYFMP SRLFFDNLGAILTYAV
 VGTLWNAFTTGAALWGLQQAGLVAPRVQAGLLDFLLFGSLISAVDPVAVLAVFEEVHVNETLFIIVFGES
 LLNDAVTVVLKVCNSFVEMGSANVQATDYLGKVASLFVVSLLGGAAVGLVFAFLALATTRFTKRVRIEIP
 LLVFLLAYAAYLTAEMASLSAILAVTMCGLGCKKYVEANISHKSRTTVKYTMKTLASCAETVIFMLLGIS
 AVDSSKWAWDSGLVLGTLIFILFFRALGVVLQTVWLNQFRLVPLDKIDQVVMYSYGLRGAVAFALVILLD
 RTKVPKDYFVATTIVVVFVTVIVQGLTIKPLVKWLKVKRSEHHKPTLNQELHEHTFDHILAAVEDVVGH
 HGYHYWRDRWEQFDKKYLSQLLMRRSAYRIRDQIWDVYYRLNIRDALSFVDQGGHVL SSTGLTLPSPSR
 NSVAETSVTNLLRESGSGACLDLQVIDTVRSGRDREDAVMHLLCGGLYKPRRRYKASC SRHFISEDAQE
 RQDKEVFQNMKRRLESFKSTKHNICFTKSKPRPRKTGRRKKDGVANAEATNGKHRGLGFQDTAAVILTV
 EEEEEESDSSETEKEDDEGIIFVARATSEVLQEGKVGSLVCPSPRIIPPSPTCAEKELPWKSGQGD
 LAVVYSSETTKIVPDMQTGWNQSISSLESASPCCNQAPILTCLPPHPRGTEEPQVPLHLPSPDRSSFA
 FPPSLAKAGRSRSESSADLPQQQLQPLMGHKDHTLSPGTATSHWCIQFNRRGSR

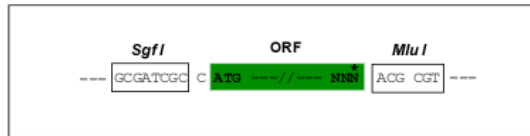
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

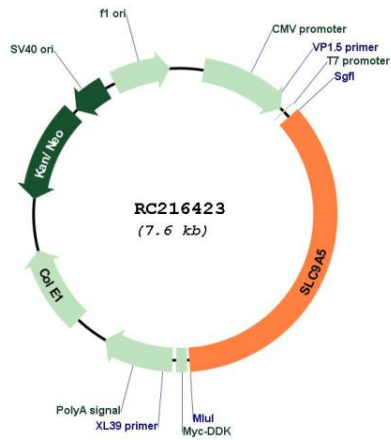


* The last codon before the Stop codon of the ORF

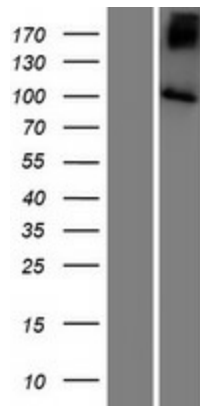
ACCN: NM_004594

ORF Size:	2688 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:	<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_004594.3
RefSeq Size:	3761 bp
RefSeq ORF:	2691 bp
Locus ID:	6553
UniProt ID:	Q14940
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	98.8 kDa
Gene Summary:	Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216423



Western blot validation of overexpression lysate (Cat# [LY417876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216423 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).