

Product datasheet for RC222401

SLC4A5 (NM_021196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC4A5 (NM_021196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC4A5
Synonyms:	NBC4; NBCe2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222401 representing NM_021196 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGTGAAGGAGGAGAAGGCTGGGGTAGGAAAGCTGGACCACACTAACCACAGGAGGAGATTCCGG
ATCAGAAAGAATGCCCTCTATCCACATTGGGCTTCCAGTACCCACTTACCCTCAAAGAAAACTGACCA
GAAGGGACATCTTCAGGCCTGCAAAAAGTCCACTGGGGCTGCGGCCAGACCAGCCACAGCAGGAACTG
ACTGGCCAGGGAGTGGGCAAGCAGCCAGGACAGCAGCATGGATCTTATCAGCAGGACTCGTCCCGAG
CTGCTGAGCAGTCCAGGACATCTGGGGAGGAAGATGAGGCTCCCAACCCACCCTCTTACAGAGAT
GGATACTCTGCAGCATGACGGAGACCAGATGGAGTGGAAGGAGTCAGCCAGGTGGATAAAGTTGAAGAA
AAGGTAGAGGAAGGCGGCAACGCTGGAGCAAGCCCCACGTGTCCACACTATCCCTGCACAGCCTCTTCG
AGCTCCGTACCTGCCTGCAGACGGGGACGGTGTGCTGGATTTGGACAGTGGCTCCTTACCACAGATCAT
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GTCCTCCTGAGGAGGCACCGCCACCAACAAGAAGCCCATCCACCGTCTCTAGCTGACATTGGGAAGT
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AGACTTGGGATGCGGCAGAGTGCAAATTACGGACGTCTGTGTCATGCCAGAGCAGAAGCATGAATGAC
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ACAGGAAGGTTCTTCGGTGGCCTGTGTCTGGATATCAAGAGGAAGTTGCCCTGGTCCCAAGTGACTTCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222401 representing NM_021196
 Red=Cloning site Green=Tags(s)

MKVKEEKAGVGKLDHTNHRRRFPDQKECPPIHIGLPVPTYQQRKTDQKGHLSGLQKVHWGLRPDQPQEL
 TGP GSGASSQDSSMDLISRTRSPAAEQLDILGEEDEAPNPTLFTEM DTLQHDGDMEWKESARWIKFEE
 KVEEGGERWSKPHVSTLSLHSLFELRTCLQTGTVLLDLD SGLPQIIDDVIEKQIEDGLRPELRERSY
 VLLRRHRHQTKKPIHRSLADIGKSVSTNRSRSPAGAPSLHHSTEDLRMRQSANYGRLCHAQSRSMND
 ISLTPNTDQRKNKFMKKIPKDSEASNVLVEVDFLDQPFIAFVRLIQSAMLGGVTEVPVPTRFLLGP
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 DKRKS VFSLAELGQMNGSVGGGGGAPGGGGGGGGGGGGGGGAGSGGAGGTSSGDDGEMPAMHEIGEELIW
 TGRFFGGLCLDIKRKLPWFPSDFYDGFHIQSISAILFIYLCITNAITFGLLGDATDNYQGVMSFLGT
 AMAGSLFCLFSGQPLIILSSTGPILIFEKLLDFDSKGNLDYMEFRLWIGLHSAVQCLILVATDASFIIK
 YITRFTTEEGFSTLISFIFIYDAIKKMIGAFKYYPINMDFKPNFITTYKCECVAPDVTNTVFNASAPLAP
 DTNASLYNLLNL TALDWSLLSKKECLSYGGRLLGNSCKFIPDLALMSFILFFGTYSMTLTLKKFKFSRYF
 PTKVRALVADFSIVFSILMFCGIDACFLET PKLHVPSVIKPPRPDRGWFVAPFGKNPWWVYPASILPAL
 LVTILIFMDQQITAVIVNRKENLKAAGYHLDLFWVGILMALCSFMGLPWYVAATVISIAHIDSLKMET
 ETSAPGEQPQFLGVREQRVTGIIVFILTGISVFLAPILKCIPLVLYGVFLYMGVASLNGIQMGTGGSEF
 KIQKKLTPWERCKLFLMPAKHQPDHAFLRHVPLRRIHLFTLVQILCLAVLWILKSTVAAIIFPVMILGL
 IIVRRLDFIFSQHLDAWIDNILPEKEKETDKKRKRKKAHEDCCDEEPQFPSPVSIKIPMESVQSDPQN
 GIHCIARKRSSWSYSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

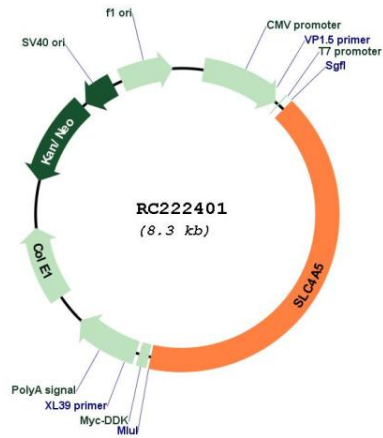


ACCN: NM_021196

ORF Size: 3411 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_021196.2 , NP_067019.2
RefSeq Size:	3414 bp
RefSeq ORF:	3414 bp
Locus ID:	57835
UniProt ID:	Q9BY07
Cytogenetics:	2p13.1
Protein Families:	Transmembrane
MW:	126.1 kDa
Gene Summary:	This gene encodes a member of the sodium bicarbonate cotransporter (NBC) family, part of the bicarbonate transporter superfamily. Sodium bicarbonate cotransporters are involved in intracellular pH regulation and electroneutral or electrogenic sodium bicarbonate transport. This protein is thought to be an integral membrane protein. Multiple transcript variants encoding different isoforms have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222401