

Product datasheet for **RG214890**

SLC9A1 (NM_003047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A1 (NM_003047) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC9A1
Synonyms:	APNH; LIKNS; NHE-1; NHE1; PPP1R143
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG214890 representing NM_003047
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCTGCGGTCTGGCATCTGTGGCCTCTCTCCACATCGGATCTTCCCTTCTTACTCGTGGTGGTCCG
 CTTTGGTGGGGCTGCTGCCTGTTCTCAGGAGCCATGGCCTCCAGCTCAGCCCAACTGCCAGCACCATTCCG
 AAGCTCAGAGCCACCACGAGAACGCTCGATTGGGGATGTCACCACCCTCCACCGGAGGTACCCCCAGAG
 AGCCGCCCTGTTAATCATTCCGTCATGATCATGGCATGAAGCCGCGCAAGGCCTTCCAGTCTGGGCA
 TCGACTACACACGTCGCGACCCCTTCGAGATCTCCCTCTGGATCCTTCTGGCCTGCCTCATGAAGAT
 AGGTTTCCATGTGATCCCCTACTCTCAAGCATCGTCCCGGAGAGCTGCCTGCTGATCGTGGTGGGGCTG
 CTGGTGGGGGGCCTGATCAAGGGTGTAGGCGAGACACCCCTTCTGCAGTCCGACGTCTTCTTCTCTCT
 TCCTGCTGCCGCCATCATCTGGATGCGGGCTACTTCTGCCACTGCGGCAGTTCACAGAAAACCTGGG
 CACCATCTGATCTTTGCCGTGGTGGGACGCTGTGGAACGCCTTCTTCTGGGGCCCTCATGTACGCC
 GTGTGCCTGGTGGGCGGTGAGCAGATCAACAACATCGGCCTCCTGGACAACCTGCCTTCCGCGAGCATCA
 TCTCGGCCGTGGACCCCTGGCGGTTCTGGCTGTCTTTGAGGAAATTCACATCAATGAGCTGCTGCACAT
 CCTTGTTTTTGGGGAGTCTTGCTCAATGACGCCGTCACTGTGGTCTGTATCACCTCTTTGAGGAGTTT
 GCCAACTACGAACACGTGGGCATCGTGGACATCTTCTCGGCTTCTGAGCTTCTTCTGGTGGCCCTGG
 GCGGGGTGCTTGTGGCGTGGTCTACGGGGTATCGCAGCCTTCACTCCCGATTACCTCCCACATCCG
 GGTATCGAGCCGCTCTTCGCTTCTCTACAGCTACATGGCCTACTTGTGAGCCGAGCTTCCACCTG
 TCAGGCATCATGGCGCTCATAGCCTCAGGAGTGGTGTGCGCCCTATGTGGAGGCCAACATCTCCACACA
 AGTCCCACACCACCAATAACTTCTGAAGATGTGGAGCAGCGTCAGCGAGACCCTCATCTTTCATCTT
 CCTCGGGCTCTCCACGGTGGCGGCTCCCACTGGAACCTGGACCTTCTGTCATCAGCACCTGCTCTTC
 TGCCATCGCCCGCTGCTGGGGTGTGGGCTGACCTGGTTCATCAACAAGTTCCGTATCGTGAAGC
 TGACCCCAAGGACCAGTTCATCATCGCCTATGGGGGCTGCGAGGGGCCATCGCCTTCTCTGGGCTA
 CCTCTGGACAAGAAGCACTTCCCATGTGTGACCTGTTCTCACTGCCATCATCACTGTGATCTTCTTC
 ACCGTCTTTGTGAGGGCATGACCATTCCGCCCTGGTAGACCTGTTGGCTGTGAAGAAAAGCAAGAGA
 CGAAGCGCTCCATCAACGAAGAGATCCACACACAGTTCCTGGACCCTTCTGACAGGCATCGAAGACAT
 CTGTGGCCACTACGGTCAACCACTGGAAGGACAAGCTCAACCGGTTAATAAGAAATATGTGAAGAAG
 TGCTGTAGCTGGCGAGCGCTCAAGGAGCCCACTGCTATTGCCTTCTACCACAAGATGGAGATGAAGC
 AGGCCATCGAGCTGGTGGAGAGCGGGGATGGGCAAGATCCCTCTGCGGTCTCCACCGTCTCCATGCA
 GAACATCCACCCAAGTCCCTGCCTCCGAGCGCATCCTGCCAGCACTGTCCAAGGACAAGGAGGAGGAG
 ATCCGCAAAATCCTGAGGAACAATTGCAGAAGACCAGGAGCGGCTGCGGTCTACAACAGACACACGC
 TGGTGGCAGACCCTACGAGGAAGCCTGGAACCAAGATGCTGCTCCGAGGAGGAGGAGGAGGAGGAGGAG
 GCAGAAGATCAACAACCTACCTGACGGTGGCAGCCACAAGCTGGACTCACCCACCATGTCTCGGGCCCGC
 ATCGGCTCAGACCCTGGCCTATGAGCCGAAGGAGGACCTGCCTGTATCACCATCGACCCGGCTTCCC
 CGCAGTCAACCGAGTCTGTGACCTGGTGAATGAGGAGCTGAAGGGCAAAGTCTTAGGGTTGAGCCGGGA
 TCCTGCAAAAGGTGGCTGAGGAGGACGAGGACGACGATGGGGGCATCATGATGCGGAGCAAGGAGACTTCG
 TCCCAGGAACCGACGATGTCTTACCCCGCGCCAGTGCAGCCCACTCCAGAGGATACAGCGCT
 GCCTCAGTACCAGGCCACACCTGAGCCTGGGGAGGAGAACCCTTCTCCCAAGGGGACG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214890 representing NM_003047
Red=Cloning site Green=Tags(s)

MVLRSGICGLSPHRIFPSLLVVVALVGLLPVLRSHGLQLSPTASTIRSSEPPRERSIGDVTTAPPEVTPE
SRPVNHSVTDHGMKPRKAFPVLGIDYTHVRTPFEISLWILLACLKIGFHVPTISSIVPESCLLI VVGL
LVGGLIKGVGETPPFLQSDVFFLFLPPIILDAGYFLPLRQFTENLGTILIFAVVGTLWNAFFLGGLMYA
VCLVGGEQINNIGLLDNLLFGSII SAVDPVAVLAVFEEIHINELLHILVFGESLLNDAVTVVLYHLFEF
ANYEHVGIVDIFLGFSLFFVVALGGVLGVVYGVIAAFTSRFTSHIRVIEPLFVFLYSY MAYLSAELFHL
SGIMALIASGVVMRPYVEANISHKSHTTIKYFLKMWSSVSETLIFIFLGVSTVAGSHHWNWTFVISTLLF
CL IARVLGVLGLTWFINKFRIVKLT PKDQFIIAYGGLRGAIAFSLGYLLDKKHFPMDLFLTAIITVIFF
TVFVQGMTIRPLVDLLAVKKKQETKRSINEEIHTQFLDHLLTGIEDICGHYGHWHKDKLNRFNKKYVKK
CL IAGERSKEPQLIAFYHKMEMKQAIELVESGGMGKIPSAVSTVSMQNIHPKSLPSERILPALSKDKEE
IRKILRNNLQKTRQLRSYNRHTLVADPYEEAWNQMLLRQKARLEQKINNYL TVPAHKLDSPTMSRAR
IGSDPLAYEPKEDLPVITIDPASQPSPESVDLVNEELKGKVLGLSRDPAKVAEEDDDGGIMMRKETS
SPGTDDVFTPAPSDSPSSQRIQRCLSDPGPHPEPGEPEPFPPKGQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_003047.2](#), [NP_003038.2](#)

RefSeq Size: 4516 bp

RefSeq ORF: 2448 bp

Locus ID: 6548

UniProt ID: [P19634](#)

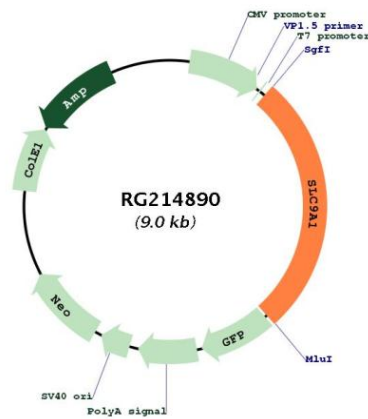
Cytogenetics: 1p36.11

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cardiac muscle contraction, Regulation of actin cytoskeleton

Gene Summary: This gene encodes a Na⁺/H⁺ antiporter that is a member of the solute carrier family 9. The encoded protein is a plasma membrane transporter that is expressed in the kidney and intestine. This protein plays a central role in regulating pH homeostasis, cell migration and cell volume. This protein may also be involved in tumor growth. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG214890