

Product datasheet for **RR204408**

Slc5a7 (NM_053521) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a7 (NM_053521) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc5a7
Synonyms:	Cht1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR204408 representing NM_053521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTTCCATGTAGAAGGACTAGTAGCGATTATCCTGTTCTACCTTCTATATTTCTGGTTGGAATAT
 GGGCTGCATGGAAAACAAAAACAGCGGTAAATGCAGAAGAACGCAGCGAAGCCATCATAGTTGGGGCCG
 AGACATTGGTTTGTGGTTGGTGGTTTTACCATGACAGCCACCTGGGTTGGAGGAGTTACATCAACGGG
 ACAGCTGAAGCAGTTTATGGGCCAGTTGTGGTCTAGCTTGGGCTCAGGCACCCATTGGATATTCTCTGA
 GTCTGATTTTAGGTGGCCTGTTTTTGC AAAACCTATGCGTTCCAAGGGATATGTGACTATGTTAGACCC
 GTTTCAACAGATCTATGGAAAGCGCATGGGTGGGCTGCTGTTCCCTGCACTGATGGGAGAGATGTTT
 TGGGCTGCAGCAATTTCTCTGCATTAGGGCTACCATCAGCGTAATCATTGATGGATGTGAACATAT
 CGGTCAATGTCTCCGCACTATTGCCATTCTTTATACCCTCGTGGGAGGGCTCTACTCTGTGGCATATAC
 TGATGTTGTACAGCTATTCTGCATTTTTATAGGATTGTGGATCAGTGTCCATTTGCCCTGTCACATCCT
 GCAGTCACCGACATTGGATTCACTGCTGTGCATGCTAAATACCAGAGTCCCTGGCTGGGAACCATTGAAT
 CAGTTGAAGTCTACACCTGGCTTGATAATTTCTGTTGTTGATGCTGGGTGGAATACCATGGCAAGCCTA
 CTTCCAGAGGGTCTCTCTTCATCGTCAGCGACCTATGCTCAGGTGCTGTCTTCTCCAGCTTTTGGG
 TGCTGTTGATGGCTCTACCAGCATTTCATTGGGGCCATTGGAGCCTCCACAGACTGGAACAAAACCTG
 CATATGGGTTTCCAGATCCCAAGACCAAGGAGGAAGCAGACATGATTCTCCCGATTGTTCTACAGTACCT
 CTGCCCTGTGTACATTTCTTCTTTGGGCTTGGTGTGTTCTGCTGCTGTCATGCTCCTCGGCTGACTCA
 TCCATCCTATCAGCAAGTCCATGTTTGGCTCGGAATATCTACCAGCTTTCCTTCCAGACAAAATGCATCAG
 ACAAGGAAATTTGTGGGTCATGAGGATCACTGTGTTTGTGTTTGGAGCATCTGCAACAGCCATGGCCTT
 GCTCACGAAGACTGTGTATGGGCTCTGGTACCTGAGCTCTGACCTTGCTACATCATCATCTTCCACAG
 CTGCTCTGTACTCTTATCAAAGGAACCAACTTATGGGGCAGTTGCTGTTATATTTTTGGACTTT
 TCCTGAGAATTACCGGAGGAGAGCCATATCTATACTTGCAGCCCTAATCTTCTACCCTGGTTATTACCC
 TGACAAGAATGGTATATAACAATCAGAGGTTCCCATTTAAAACCTCTCTCCATGGTTACCTCATTCTTACC
 AACATTTGTGTTTCTATCTAGCCAAGTATCTATTTGAAAGTGGAACTTGCCTCCAAAATTAGATATAT
 TTGATGCTGTTGCTCAAGGCACAGTGAAGAGAACATGGACAAGACCATTCTAGTCAGAAATGAAAACAT
 CAAATTAATGAACTTGCACCTGTAAGCCTCGACAGAGCCTAACCTCAGTTCAACTTTACCAATAAA
 GAGGCTCTCTTGATGTTGATTCCAGTCCAGAGGGATCTGGGACTGAAGATAACTTACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204408 representing NM_053521
 Red=Cloning site Green=Tags(s)

MPFHVEGLVAIILFYLLIFLVGIWAAWKTKNSGNAEERSEAIIVGGRDIGLLVGGFTMTATWVGGYING
 TAEAVYGPQCGLAWAQAPIGYSLSLILGGLFFAKPMRSKGYVTMLDPFQQIYGKRMGGLLIPALMGEMF
 WAAAFSALGATISVIIDVDVNISVIVSALIAILYTLVGGLYSVAYTDVVQLFCIFIGLWISVPFALSH
 AVTDIGFTAVHAKYQSPWLGTIESVEVYTWLDFLLMLGGIPWQAYFQFVLSSSSATYAQVLSFLAAG
 CLVMALPAICIGAI GASTDWNQTA YGFDPKTKEEADMILPIVLQYLCPVYISFGLGAVSAVMSSADS
 SILSASSMFARNIYQLSFRQNASDKEIVVWMRITVVFVGASATAMALLTKTVYGLWYLSDDLVIYIIFPQ
 LLCVLFIKGTNTYGAVAGYIFGLFLRITGGEPYLYLQPLIFYPGYYPDKNGIYNQRFPFKTL SMVTSFFT
 NICVSYLAKYLFESGTLPPKLDIFDAVVSRRHSEENMDKTI LVRNENIKLNELAPVKPRQSLTLSSTFTNK
 EALLDVDSSPEGSGETDNLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_053521

ORF Size: 1740 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_053521.1](#), [NP_445973.1](#)

RefSeq Size: 4904 bp

RefSeq ORF: 1743 bp

Locus ID: 85426

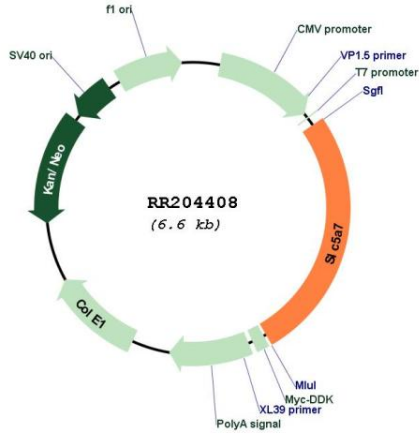
UniProt ID: [Q9JMD7](#)

Cytogenetics: 9q11

MW: 63.4 kDa

Gene Summary: high-affinity choline transporter; give choline to neurons for the synthesis of acetylcholine [RGD, Feb 2006]

Product images:



Circular map for RR204408