

Product datasheet for **RC209828**

SLC6A8 (NM_005629) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SLC6A8 (NM_005629) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SLC6A8 |
| Synonyms: | CCDS1; CRT; CRTR; CT1; CTR5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC209828 representing NM_005629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAAGAAGAGCGCCGAGAACGGCATCTATAGCGTGTCCGGCAGCAGAGAAGAAGGGCCCCCTCATCG
 CGCCCGGGCCGACGGGGCCCGGCCAAGGGCGACGGCCCGTGGGCCTGGGGACACCCGGCGCCGCCT
 GGCCGTGCCGCCGCGAGACCTGGACGCGCCAGATGGACTTCATCATGTCGTGCGTGGGCTTCGCCGTG
 GGCTTGGGCAACGTGTGGCGCTCCCTACCTGTGCTACAAGAACGGCGGAGGTGTTCCTTATCCCT
 ACGTCCTGATCGCCCTGGTTGGAGGAATCCCCATTTTCTTCTTAGAGATCTCGCTGGGCCAGTTCATGAA
 GGCCGGCAGCATCAATGTCTGGAACATCTGTCCCTGTTCAAAGGCCTGGGCTACGCCTCCATGGTGATC
 GTCTTCTACTGCAACACCTACTACATCATGGTGTGGCCTGGGGCTTCTATTACCTGGTCAAGTCCTTTA
 CCACCACGCTGCCCTGGCCACATGTGGCCACACCTGGAACACTCCGACTGCGTGGAGATCTTCGCCCA
 TGAAGACTGTGCCAATGCCAGCCTGGCCAACTCACCTGTGACCAGCTTGTGACCGCCGGTCCCCTGTC
 ATCGAGTTCTGGGAGAACAAGTCTTGAGGCTGTCTGGGGGACTGGAGGTGCCAGGGGCCCTCAACTGGG
 AGGTGACCCTTTGTCTGCTGGCCTGCTGGGTGCTGGTCTACTTCTGTGTCTGGAAGGGGGTCAAATCCAC
 GGGAAAGATCGTGTACTTCACTGCTACATTCCTACGTGGTCTGGTCTGCTGCTGGTGGTGGAGTG
 CTGCTGCTGGCGCCCTGGATGGCATATTTACTATCTCAAGCCTGACTGGTCAAAGCTGGGGTCCCCTC
 AGGTGTGGATAGATGCGGGGACCCAGATTTTCTTTTCTTACGCCATTGGCCTGGGGGCCCTCACAGCCCT
 GGGCAGCTACAACCGCTTCAACAACAATGCTACAAGGACGCCATCATCTGGCTCTCATCAACAGTGGG
 ACCAGCTTCTTTGCTGGCTTCTGTTCTTCTCCATCCTGGGCTTTCATGGCTGCAGAGCAGGGCGTGCACA
 TCTCCAAGGTGGCAGAGTCAGGGCCGGCCTGGCCTTTCATCGCCTACCCGCGGGCTGTACGCTGATGCC
 AGTGGCCCCACTCTGGGCTGCCCTGTTCTTCTTTCATGCTGTTGCTGCTTGGTCTCGACAGCCAGTTTGT
 AAGTGTGGAGGGCTTTCATACCCGGCCTCCTCGACCTCCTCCCGGCCTCCTACTACTTCCGTTTCAAAGGG
 AGATCTCTGTGGCCCTCTGTTGTGCCCTGCTTTGTCATCGATCTCCTCATGGTACTGATGGCGGGAT
 GTACGTCTCCAGCTGTTTGACTACTACTCGGCCAGCGGCACCACCCTGCTCTGGCAGGCCCTTTGGGAG
 TGCGTGGTGGTGGCCTGGGTGTACGGAGCTGACCCTTTCATGGACGACATTGCCTGTATGATCGGGTACC
 GACCTTGGCCCTGGATGAAATGGTGTGGTCTTCTTACCCCGCTGGTCTGCATGGGCATCTTCATCTT
 CAACGTTGTACTACGAGCCGCTGGTCTACAACAACACCTACGTGTACCCGTGGTGGGGTGGGCCATG
 GGCTGGGCCTTCGCCCTGCTCCTCATGCTGTGCGTGCCGCTGCACCTCCTGGGCTGCCTCCTCAGGGCCA
 AGGGCACCATGGCTGAGCGCTGGCAGCACCTGACCCAGCCATCTGGGGCCTCCACCACTTGGAGTACCG
 AGCTCAGGACGCAGATGTAGGGGCTGACCACCCTGACCCAGTGTCCGAGAGCAGCAAGTCTGTCGTG
 GTGGAGAGTGTATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209828 representing NM_005629
Red=Cloning site Green=Tags(s)

MAKXSAENGIYSVSGDEKKGPLIAPGPDGAPAKGDGPVGLGTPGGRLAVPPRETWTRQMDFIMSCVGFVA
 GLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMVI
 VFYCNTYYIMVLAWGFYLVKSF TTTLPWATCGHTWNTPDCVEIFRHEDCANASLANLTCDQLADRRSPV
 IEFWENKVLRLSGGLEVPALNWEVTLCLLACWLVLYFCVWKGVKSTGKIYYFTATFPYVVLVLLVRGV
 LLPGALDGIYYLKPWSKLGSPQVWIDAGTQIFFSYAIGLALGAL TALGSYNRFNNCYKDAIILALINSG
 TSFFAGFVVSILGFMAAEQGVHISKVAESGPGAFLIAYPRAVTLMPVAPLWAALFFFMLLLGLDSQFV
 GVEGFITGLDLLPASYFRFRQREISVALCCALCFVIDLSMVTDDGGMYVFQLFDYYSASGTTLLWQAFWE
 CVVVAWVYGADRFMDIACMIGYRCPWMKWCWSFFTPLVCMGIFIFNVVYVEPLVYNNTYVYPWWGEAM
 GWAFALSSMLCVPLHLLGCLLRAKGTMAERWQHLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVV
 VESVM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4923_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005629

ORF Size: 1905 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_005629.4](#)

RefSeq Size: 3917 bp

RefSeq ORF: 1908 bp

Locus ID: 6535

UniProt ID: [P48029](#)

Cytogenetics: Xq28

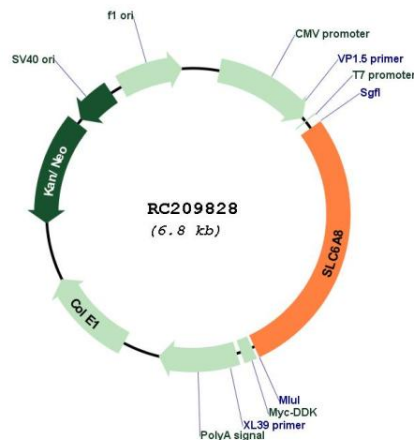
Domains: SNF

Protein Families: Druggable Genome, Transmembrane

MW: 70.3 kDa

Gene Summary: The protein encoded by this gene is a plasma membrane protein whose function is to transport creatine into and out of cells. Defects in this gene can result in X-linked creatine deficiency syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RC209828