

## Product datasheet for **RR200565**

### **Slc6a8 (NM\_017348) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc6a8 (NM_017348) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc6a8
Synonyms:	CHOT1; CHT1; CRT; CT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR200565 representing NM\_017348  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGAAGAAGAGCGCTGAAAACGGTATCTATAGCGTGTCTGGAGACGAGAAGAAGGGTCTCTCATCG  
 TGTCGGGCCCGATGGTGCCCCGTCCAAGGGCGATGGCCCTGCGGGCTGGGGGCCCCAGCAGCCGCCT  
 TGCTGTGCCGCCGAGAGACTTGGACACGCCAGATGGACTTCATCATGTCGTGCGTGGGCTTCGCCGTG  
 GGCCTCGGTAACGTGTGGCGCTTCCCCTACCTGTGCTACAAGAACGGCGGAGGTGTTCCTTATCCCT  
 ATGTCCTGATTGCCCTGGTTGGAGGAATCCCCATTTTCTCTCGAAATCTCACTGGGCCAGTTCATGAA  
 GGCCGGCAGCATCAATGTCTGGAACATCTGTCCCCTATTCAAAGGTCTGGGCTATGCCTCCATGGTATT  
 GTCTTCTACTGCAACACTTACTACATCATGGTGTGGCCTGGGGCTTCTATTACCTGGTCAAGTCCTTTA  
 CTACCACCTTGGCATGGGCTACGTGTGGCCACACCTGGAACACTCCTGACTGTGTAGAGATCTTTCGCCA  
 TGAAGACTGTGCAATGCCAGCTTGGCCAACTCACATGTGACCAGCTTGTGACCGACGGTCCCCTGTC  
 ATCGAGTTCTGGGAGAACAAAGTCTTGAGGCTCTCCACAGGGCTGGAGGTTCCAGGAGCCCTCAACTGGG  
 AAGTGACCCTGTGCCTGTGGCCTGCTGGGTGCTGGTCTACTTCTGTGTGTGGAAGGGGGTCAAGTCAAC  
 AGGAAAGATCGTGTACTTCACTGCTACATTCGCCCTACGTGGTCCCTCGTTGTGCTGCTGGTGGGAGGGT  
 CTGCTGCCTGGAGCCCTGGATGGTATCATCTACTATCTCAAGCCTGACTGGTCAAAGCTAGGGTCCCCTC  
 AGGTATGGATAGATGCTGGGACCCAGATTTTCTTCTTATGCCATCGGCCTGGGGGCCCTCACAGCCCT  
 AGGCAGCTACAATCGCTTCAACAACAATGCTACAAGGATGCCATCATCTGGCACTCATCAACAGCGGG  
 ACCAGCTTCTTTGCTGGCTTTGTGGTCTTCTCCATCCTGGGCTTTCATGGCCACAGAGCAGGGTGTGCATA  
 TCTCAAGGTGGCAGAATCAGGGCCTGGTCTAGCCTTCAATGCCCTACCCACGGGCTGTCACTGATGCC  
 TGTGGCCCCACTCTGGGCTGCCTTGTCTTCTTATGCTGCTGCTGCTCGGTCTGGACAGCCAGTTTGTA  
 GGTGTGGAGGGCTTCACTACTGGCTCCTGGATCTCCTCCCGGCCTCCTACTACTTCCGTTTTCAAAGGG  
 AGATCTCCGTGGCCCTCTGTTGTGCCCTGCTTTGTCATCGATCTCCATGGTACTGATGGCGGGAT  
 GTACGTCTCCAGCTGTTTGACTACTACTCAGCTAGTGGCACTACCCTGCTTTGGCAAGCCTTTTGGGAG  
 TGTGTGGTGGTGGCTTGGGTTTATGGAGCTGACCGCTTTCATGGACGATATTGCCTGTATGATTGGGTACC  
 GACCTTGCCTTGGATGAAATGGTGTGGTCTTCTTACCCCACTGGTCTGCATGGGCATCTTCATCTT  
 CAATGTTGTGACTACAAGCCACTGGTCTACAACAATACCTACGTGTACCCATGGTGGGGTGAAGCTATG  
 GGCTGGGCCCTTGGCACTCTTCTATGCTCTGTGTGCCCTCCACCTCCTGGGCTGTCTCCTCAGGGCAA  
 AAGGAACCATGGCAGAGCGATGGCAGCACCTGACCCAGCCTATCTGGGGCTCCATCACTTGAATACAG  
 AGCTCAGGATGCAGATGTGAGGGCCTGACCACCTGACTCCCCTGTCCGAGAGCAGCAAGGTCTGTCGTG  
 GTGGAGAGTGTATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200565 representing NM\_017348  
 Red=Cloning site Green=Tags(s)

MAKXSAENGIYSVSGDEKKGPLIVSGPDGAPSKGDGPAGLGAPSSRLAVPPRETWTRQMDIFMSCVGFV  
 GLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMI  
 VFYCNTYYIMVLAWGFYYLVKSF TTTLPWATCGHTWNTPCVEIFRHEDCANASLANLTCDQLADRRSPV  
 IEFWENKVLRLSTGLEVPALNWEVTLCLLACWVLYVFCVWKGVKSTGKIYVFTATFPYVVLVLLVIRGV  
 LLPGALDGIYYLKPDSKLGSPQVWIDAGTQIFFSYAIGLGAL TALGSYNRFNNNCYKDAIILALINSG  
 TSFFAGFVVSILGFMATEQGVHISKVAESGPGLAFIAYPRAVTLMPVAPLWAALFFFMLLLGLDSQFV  
 GVEGFITGLDLLPASYYFRQREISVALCCALCFVIDLSMVTGGMYVFLFDYYSASGTTLLWQAFWE  
 CVVVAWVYGADRFMDDIACMIGYRCPWPKWCWSFFTPLVCMGIFIFNVVYKPLVYNNTYVYPWGEAM  
 GWAFALSSMLCVPLHLLGCLLRAKGTMAERWQHLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVV  
 VESVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

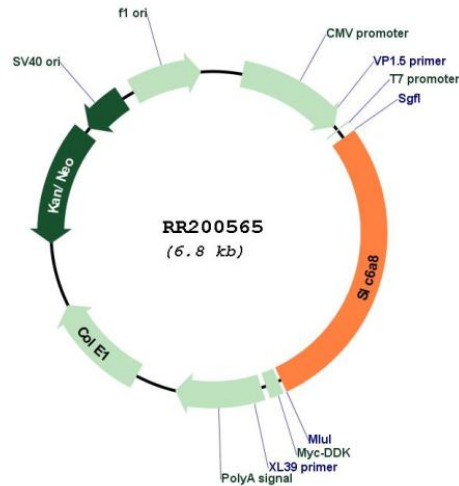
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



Plasmid Map:



ACCN: NM\_017348

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\\_017348.2](#), [NP\\_059044.1](#)

RefSeq Size: 3910 bp  
RefSeq ORF: 1908 bp  
Locus ID: 50690  
UniProt ID: [P28570](#)  
Cytogenetics: Xq37  
MW: 70.6 kDa  
Gene Summary: high-affinity widely expressed sodium-dependent creatine transporter [RGD, Feb 2006]