

## Product datasheet for **RR215334**

### Slc44a2 (NM\_001134715) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc44a2 (NM_001134715) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc44a2
Synonyms:	RGD1309680
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR215334 representing NM\_001134715  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGGGAAGGATTTCGAGCATTACTACGGGAAGCACGGGACGCCCTCAGAAATATGACCCACCTTTAAAG  
GACCCATTTACAACAGGGGATGCACGGATATCATTGCTGTGTGGTCTTCTGGCCATCGTAGGCTA  
CGTGGCTGTGGGCATCATAGCCTGGACCATGGAGACCCTCGGAAGGTGATCTACCCCACTGATAGCCGG  
GGCGAGTCTGTGGGCAAAAGGGAACAAAAATGCGGACAAACCATTCTGTTTTACTTCAACATCGTGA  
AGTGTGCCAGCCCCCTGGTCTGCTGGAATTTCACTGTCCACCCTCAGATCTGCGTGAAGCAGTGTCC  
AGACCGCTATCTCACCTTCTGAGTGCAGCAACTCTCGGACTTTGACTACTACAAGCAGTTCTGTGTG  
CCCGGCTTCAAGAACAATAAAGGGTAGCTGAGGTGCTCAGAGATGGGGAGTGCCAGCGGTTATCATCC  
CCAGCAAACCCTTGGCCAGCGGTGCTTCCCGCCATCCATGCCAGCAAAGGGTCTCATGGTGGGCAA  
TGAGACGACCTATGAGGACGGACACGGCACCAGGAAGAATGTTACAGATCTAGTGGAGGGTGCCAAAAAG  
GCCAACAAAGTTCTAGAGGCCCGCAGCTCGCCATGCAGATTTTTGAAGATTACACTGTATCCTGGTACT  
GGATTGTCATAGGTCTGGTCATCGCCATGCTGCTGAGCCTCATGTTCAATTGTCCTGCTGCGATTCTGGC  
AGGCGTATGGTCTGGGTGATGATCGTCATGGTATTCTGGTACTTGGCTATGGCATATCCACTGCTAC  
GCGGAGTACTCGAGACTCCGTGGAGAGGCAGGCTCCGACGCTCCCTGGTGGACCTTGGCTTCCAGACGG  
ACCTCCGAGTGTACCTGCACTTGGGACAGACTTGGATGGCTTTCATGATCATTTTTAAGCATCCTGGAAGT  
GGTCATCATCCTGTTACTCATCTTCTGCGCAAAAGGATCTTGATCGCCATAGCCCTCATCAAAGAAGCC  
AGCAGGGCTGTGGGACATGTGATGTCTCATGCTCTACCTCTAATGTAGCCGTGTACAAGATTGTTGA  
GCATTGGCTACTGGCCAGCACTTCTGTCTTCTGTCTACCTCTAATGTAGCCGTGTACAAGATTGTTGA  
TGACACGCCCTGCCCACTTTTGGGAAAACCTGCAACCCAGAGACCTTCCATTGAATGAGAGCCGCCAG  
TGTCTAATGGCCGCTGTGAGTTGCTTCTATGGCGGCGAGTCGACCTACCACCGTGCCCTGCTGGGCC  
TGCAGATCTTCAATGCATTATGTTCTTCTGGTAGCCAACTTCGTGCTAGCCCTGGGCCAGGTGACACT  
GGCTGGAGCCTTGCCTCCTATTACTGGGCTATGCGAAAGCCCGATGACATGCCTGCCTTCCCCCTCTC  
TCTGCTTTGGCCGCGCACTCAGGTACCACACGGGCTCCTGGCTTTGGCTCTCTATCCTAGCCATCG  
TGCAGATCATCCGAGTGTGCTGGAGTACCTGGATCAGCGCTGAAAGCTGCACAGAACAAGTTTGCCAA  
GTTCTCATGGTCTGTCTCAAGTGTGCTTCTGGTGCCTAGAGAAGTTTCAAATTCCTGAATAGGAAT  
GCCTACATCATGATTGCTATCTATGGCACCAACTTCTGCACCTCAGCCAGGAACGCCTTCTCCTGCTTA  
TGAGAAATATCATCAGGGTGGCCGCTCCTGGACAAAGTTACAGACTTCTCTTCTGTTGGCAAACCTTCT  
GATTGTGGGTAGCGTGGGCATCCTGGCCTTCTTCTTTCACCCATCGGATCAGAATTGTGCAAGACACG  
GCCCCACCTCTCAATTATTATGGGTCCCATACTGACAGTGTGATGGCTCCTACTTGTGCGCAGC  
GCTTCTCAGCGTCTATGGCATGTGCGTGGACACACTGTTCTCTGTTTCTTGGAGGATCTGGAGAGAAA  
CGACGGCTCAGCCGAGAGGCCTTACTTCATGTCTTCCACTCTCAAGAACTCCTGAATAAAACCAACAAG  
AAAGTAGCAGAATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215334 representing NM\_001134715  
 Red=Cloning site Green=Tags(s)

MGKDSQHYHGKHGTPQKYDPTFKGPIYNRGCTDIICCVLLFLAIVGYVAVGIIAWTHGDPKVIYPTDSR  
 GEFCGQKGTKNADKPFIFYFNIVKASPLVLEFHCPTPQICVKQCPDRYL TFLSARNSRDFDYKQFCV  
 PGFKNNKGVAEVLRDGECPAVIIPSKPLAQRCFPAIHASKGVLVGNETTYEDGHGTRKNVTDLVEGAKK  
 ANKVLEARQLAMQIFEDYTVSWYWIIVIGLVIAMLLSLMFIVLLRFLAGVMVWMIVMVILVLGYGIFHCY  
 AEYSRLRGEAGSDVSLVDLGFQTDLRVYLHLRQTWMAFMIILSILEVVIILLIFLRKRILIAIALIKEA  
 SRAVGHVMCSMLYPLVTFLLCLCIAYWASTSVFLSTSNVAVYKIVDDTPCPLLKTCNPETFPPLNESRQ  
 CPNGRCQFAFYGGESTYHRALLGLQIFNAFMFFWLANFVLALGQVTLAGAFASYWAMRKPDDMPAFPLF  
 SAFGRALRYHTGSLAFGSLILAIVQIIRVMLEYLDQRLKAAQNKFAKFLMVCLKCCFCWLEKFIKFLNRN  
 AYIMIAIYGTNFCTSARNAFFLLMRNIIRVAVLDKVTDFLLGKLLIVGSGILAFFFTHRIRIVQDT  
 APPLNYYVWPILTVIIGSYLIAHGFFSVYGMCDLFLCFLEDLERNDGSAERPYPFMSSTLKLLNKTKN  
 KVAES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

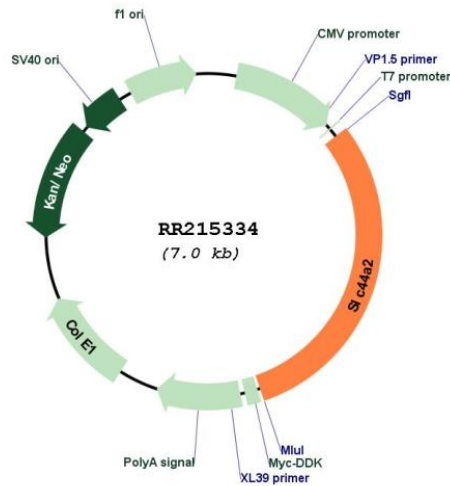
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001134715

ORF Size: 2115 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\\_001134715.1](#), [NP\\_001128187.1](#)

RefSeq Size: 3453 bp

RefSeq ORF: 2118 bp

Locus ID: 363024  
UniProt ID: [B4F795](#)  
Cytogenetics: 8q13  
MW: 79.9 kDa  
Gene Summary: Choline transporter.[UniProtKB/Swiss-Prot Function]