

Product datasheet for **RC239316**

SLC39A12 (NM_001282733) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_001282733) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A12
Synonyms:	bA570F3.1; LZT-Hs8; ZIP-12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239316 representing NM_001282733
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGCTTCCGGACAAAGCTCTCAGTATCTGGGTGCCATTGTTTCTTCTACTCAGCCGTGTTTTTCTA
CTGAGACAGACAAACCCTCAGCCAGGATAGCAGAAGCCGTGGGAGTTCAGGCCAACCGCAGACCTGCT
ACAGGTTCTCTGCTGTTGACCAACCCACCCACAACCACTCAAGAAGCCTCATCAAAACATTGTTGGAG
AAAAGTGGGTGCCACGGAGGAGAAACGGAATGCAAGGAGATTGCAATCTGTGCTTTGAACCAGATGCAC
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CAGAAGATATCTTGGCTTCCACAGGCAGTACTTTGACACTTCTCAAAGCCAGTGTATGGAACCAAAAC
GCTGCAGAAAAAATCTGGAATAGTGAGCAGTGAAGGTGCTAATGAAAGTACGCTTCTCAGTTGGCAGCC
ATGATCATTACTTTGTCCCTCCAGGGTGTGTTGTCTGGGACAAGGAAACTTGCCTTCCCAGACTACTTTA
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CACTCTCTGGACCAGAAGTACTTGTATCAAAAATGAGAAAATCCATCAATTTCAAAGGAAACAAAACAAC
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TCACCTTCTCACACTGGGCTCCATGCTGGGACAGCGCTGGTCTTTTCCATAGCTGTGAGGAGAATA
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ATCCCTCAGGTTCTTGGTTTACATAAGCAGGAAGCCCCAGAATTTGGGCATTTCCATGAAAGCAAAGGTC
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TGGATCTTACAGTCACTGCTGGGATGTTCTTATATTTTCTTGGTTGAAATGCTTCTGAAATGACTC
ATGTTCAAACACAACGACCCTGGATGATGTTTCTCCTGCAAACTTTGGATTGATCCTAGGTTGGCTTTC
TCTCCTGCTCTTGGCTATATATGAGCAAAATATTTAAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239316 representing NM_001282733
 Red=Cloning site Green=Tags(s)

MCFR TKLSVSWVPLFLLLSRVFSTETDKPSAQDSRSRGSSGQPADLLQVLSAGDHPPHNHSRSLIKTLLE
 KTGCPRRRNGMQGDCNLCFEPDALLLIAGGNFEDQLREEVVQVRSLLLLYYIIHQEEICSSKLNMSNKEY
 KFYLHSLLSLRQDEDESSFLSQNETEDILAFTRQYFDTSQSQCMEKTKLQKKSIVSSEGANESTLPQLAA
 MIITLSLQGVCLGQGNLPSPDYFTEYIFSSLNRTNTRLRLSELDQLLNTLWTRSTCIKNEKIHQFQRKQNN
 IITHDQDYSNFSSSMEKESEDGPPVSWDQTCFSARQLVEIFLQKGLSLISKEDFKQMSPGIQQLLSCSCH
 LPKDQQAKLPPTTLEKYGYSTVAVTLLTLGSM LGTALVLFHSCENYRLILQLFVGLAVGTLSGDALLHL
 IPQVLGLHKQEAPEFGHFHESKGIHWKLMGLIGGIHGFFLIEKCFILLVSPNDKGLSLVNGHVGHSHHLA
 LNSELSDQAGRGKSASTIQLKSPEDSQAAMPISMTASNKCKAISLLAIMILVGDLSLHNFADGLAIGA
 AFSSSSSESGVTTTIAILCHEIPHEMGDFAVLLSSGLSMKTAILMNFISLLTAFMGLYIGLSVSADPCVQD
 WIFVTVAGMFLYLSLVEMLPEMTHVQTQRPWMMFLLQNFGLILGWSLLLLAIYEQNIKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

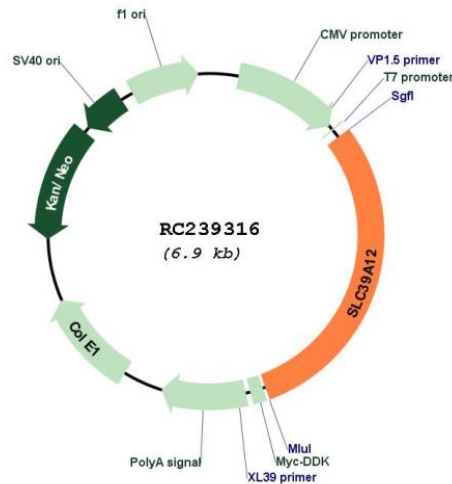
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282733

ORF Size: 2070 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_001282733.1](#), [NP_001269662.1](#)

RefSeq Size: 2805 bp

RefSeq ORF:	2073 bp
Locus ID:	221074
UniProt ID:	<u>Q504Y0</u>
Cytogenetics:	10p12.33
Protein Families:	Transmembrane
MW:	77 kDa
Gene Summary:	Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A12 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).[supplied by OMIM, Aug 2008]