

Product datasheet for **RC220307**

SLC39A12 (NM_152725) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_152725) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A12
Synonyms:	bA570F3.1; LZT-Hs8; ZIP-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC220307 representing NM_152725
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGTGCTTCCGGACAAAGCTCTCAGTATCCTGGGTGCCATTGTTTCTTCTACTCAGCCGTGTTTTTCTA
 CTGAGACAGACAAACCTCAGCCAGGACAGAGGCCGTGGGAGTTCAGGCCAACCGGCAGACCTGCT
 ACAGGTTCTCTCTGCTGGTGACCAACCCACCCACAACCACTCAAGAAGCCTCATCAAAACATTGTTGGAG
 AAAACTGGGTGCCACGGAGGAGAAACGGAATGCAAGGAGATTGCAATCTGTGCTTTGAACCAGATGCAC
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 CCTTCTCTATTACATTATTCATCAGGAAGAGATCTGTTCTTCAAAGCTCAACATGAGTAATAAGAGTAT
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 CAGAAGATATCTTGGCTTTCACCAAGCAGTACTTTGACACTTCTCAAAGCCAGTGTATGGAACCAAAAC
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 GATTGCTATCTTGTGTCATGAAATCCCATGAAATGGGAGACTTGGCGTGCTCTTAAGCTCTGGACTT
 TCTATGAAGACTGCCATCCTGATGAATTTATAAGCTCCCTAACTGCCTTCATGGGATTATACATTGGCC
 TTTCCGTGTGAGCTGATCCATGTGTTCAAGACTGGATCTTCACAGTCACTGCTGGGATGTTCTTATATTT
 ATCCTTGGTTGAAATGCTTCTGAAATGACTCATGTTCAAACACAACGACCTGGATGATGTTTCTCCTG
 CAAAATTTGGATTGATCCTAGGTTGGCTTCTCTCCTGCTCTTGGCTATATATGAGCAAAATATTA
 TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220307 representing NM_152725
 Red=Cloning site Green=Tags(s)

MCFRTKLSVSWVPLFLLLSRVFSTETDKPSAQDSRGRGSSGQPADLLQVLSAGDHPPHNHSRSLIKTLLE
 KTGCPRRRNGMQGDCNLCEPDALLIAGGNFEDQLREEVVQVSLLLYYIIHQEEICSSKLNMSNKEY
 KFYHLSSLRLQDESSFLSQNETEDILAFTRQYFDTSSQSQCMETKTLQKKSGIVSSEGANESTLPQLAA
 MIITLSLQGVCLGQGNLPSPDYFTEYIFSSLNRTNTRLRLSELDQLLNTLWTRSTCIKNEIKHQFQRKQNN
 IITHDQDYSNFSSSMEKESEDGPISWDQTCFSARQLVEIFLQKGLSLISKEDFKQMSPGIIQQLSCSCH
 LPKDQQAQLPPTTLEKYGYSTVAVTLLTLGSMGLTALVLFHSCEENYRLILQLFVGLAVGTLSGDALLHL
 IPQVLGLHKQEAPEFGHFHESKGIHWKLMGLIGGIHGFFLIEKCFILLVSPNDKKSPEDSQAAMPISGM
 TASNKCKAISLLAAILVGDLSLHNFADGLAIGAAFSSSESGVTTTIAILCHEIPHEMGDFAVLLSSGL
 SMKTAIILMNFISLTAFMGLYIGLSVSADPCVQDWIFTVTAGMFLYLSLVEMLPEMTHVQTQRPWMMFLL
 QNFGLILGWLSLLLLAIYEQNIKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6048_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152725

ORF Size: 1962 bp

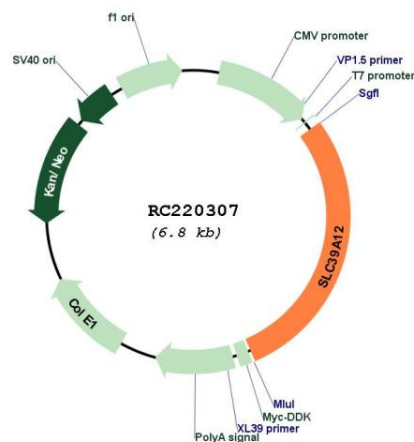
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

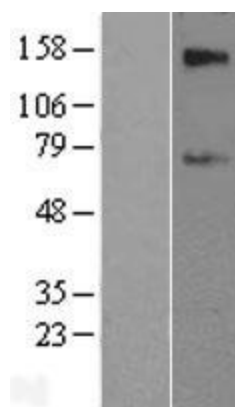
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_152725.3</u>
RefSeq Size:	2636 bp
RefSeq ORF:	1965 bp
Locus ID:	221074
UniProt ID:	<u>Q504Y0</u>
Cytogenetics:	10p12.33
Domains:	Zip
Protein Families:	Transmembrane
MW:	72.7 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]

Product images:



Circular map for RC220307



Western blot validation of overexpression lysate (Cat# [LY403488]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).