

Product datasheet for **RC213722**

SLC39A7 (NM_001077516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A7 (NM_001077516) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC39A7
Synonyms:	D6S115E; D6S2244E; H2-KE4; HKE4; KE4; RING5; ZIP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213722 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGAGGCCTGGGGCCCCCACTGGGTGGCCGTGGGACTGCTGACCTGGGCGACCTTGGGGCTTC
 TGGTGGCTGGACTCGGGGTCATGACGACTGCACGACGATCTGCAAGAGGACTTCCATGGCCACAGCCA
 CAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCATGGCCATGGCCACACTCACGAGAGC
 ATCTGGCATGGACATACCCACGATCACGACCATGGACATTCACATGAGGATTTACACCATGGCCATAGCC
 ATGGCTACTCCCATGAGAGCCTCTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCTA
 TGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGCTACTCTCTGGGCTTATGCATGGGG
 GCCACAGTGTGATCTCAGCAGCTCCATTTTTGTCTCTTCTTATCCCCGTGGAGTCAAACCTCTCCCC
 GGCATCGCTCTACTTCAAGATCTTGTCTAGTTTTGCTTCCGGTGGGCTCTGGGAGATGCTTTCCTGCA
 CCTCATTCTCATGCTCTGAACCTCATTCTCACACACTCTGGAGCAACCCGGACATGGACACTCCAC
 AGTGGCCAGGGCCCCATTCTGTCTGTGGGACTGTGGGTTCTCAGTGGAATTTGTTGCCTTTCTTGTGCTGG
 AGAAATTTGTGAGACATGTGAAAGGAGGACATGGTCACAGTCATGGACATGGACACGCTCACAGTCATAC
 ACGTGGAGTCATGGACATGGAAGACAAGAGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAA
 AAGGAAACAAGAGGGGTTTCAAGAGGCGAGGAGGGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTC
 AGAACGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTGTGTGGGGTACCTGAATCTGGCTGCTGACTT
 GGCACACAACCTCACTGATGGTCTGGCCATTGGGGCTTCTTTTCGAGGGGGCCGGGGACTAGGGATCCTG
 ACCACAATGACTGTCTGCTACATGAAGTGCCCCACGAGGTCGGAGACTTTGCCATCTTGGTCCAGTCTG
 GTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTGGGGCACTGGCAGGCACAGCCTG
 TGCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAAATTCAGGTTGGTGCAGGTCCTGGCTGGGTCTG
 CCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTTGCCCGAGCTGCTGAGGGAGGCAT
 CACCATTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGAGTTATCATGATGGTGTGCTGATTGCCCA
 CCTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213722 protein sequence
 Red=Cloning site Green=Tags(s)

MARGLGAPHWVAVGLL TWATLGLLVAGLGGHDDLHDDLQEDFHGSHRHSHEDFHHGSHAHGHGHTHES
 IWHGHTHDHDHGHSHEDLHHGHSHGYSHESLYHRGHGHDHEHSHGGYGESGAPGIKQDLDAVTLWAYALG
 ATVLI SAAPFFVLFLIPVESNSPRHRSLLQILL SFASGGLLGDAFLHLIPHALEPHSHHTLEQPGHGSH
 SGQGPILSVGLWVLSGIVAFVVEKFVRHVKGGHGHSHGHGHAHSHTRGSHGHRQERSTKEKQSSEEEE
 KETRGVQKRRGGSTVPKDGVPVRQNAEEERGLDLRVSGYLNLAADLAHNFTDGLAIGASFRGGRGLGIL
 TTMTVLLHEVPHEVGDFAILVQSGCSKKQAMRLQLLTAVGALAGTACALLTEGGAVGSEIAGGAGPGWVL
 PFTAGGF IYVATVSVLPELLREASPLQSLLEVLGLLGGVIMMVLIAHLE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6399_a12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001077516

ORF Size: 1407 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

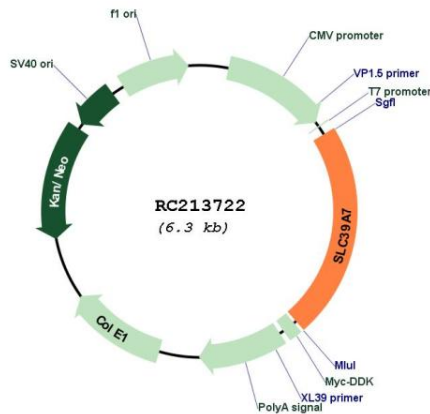
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

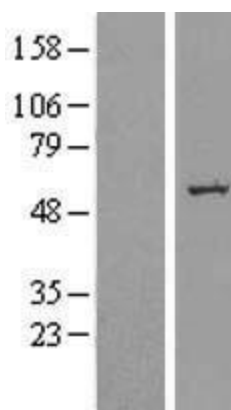
RefSeq: [NM_001077516.2](#)
 RefSeq Size: 2172 bp
 RefSeq ORF: 1410 bp
 Locus ID: 7922
 UniProt ID: [Q92504](#)
 Cytogenetics: 6p21.32
 Protein Families: Transmembrane
 MW: 50.1 kDa
 Gene Summary:

The protein encoded by this gene transports zinc from the Golgi and endoplasmic reticulum to the cytoplasm. This transport may be important for activation of tyrosine kinases, some of which could be involved in cancer progression. Therefore, modulation of the encoded protein could be useful as a therapeutic agent against cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

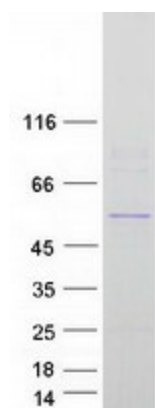
Product images:



Circular map for RC213722



Western blot validation of overexpression lysate (Cat# [LY421455]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC39A7 protein (Cat# [TP313722]). The protein was produced from HEK293T cells transfected with SLC39A7 cDNA clone (Cat# RC213722) using MegaTran 2.0 (Cat# [TT210002]).