

Product datasheet for **RC200556**

SLC39A7 (NM_006979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A7 (NM_006979) 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:

>RC200556 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAGAGGCCTGGGGCCCCCACTGGGTGGCCGTGGGACTGCTGACCTGGGCGACCTTGGGGCTTC
 TGGTGGCTGGACTCGGGGTTCATGACGACTGCACGACGATCTGCAAGAGGACTTCCATGGCCACAGCCA
 CAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCATGGCCATGGCCACACTCACGAGAGC
 ATCTGGCATGGACATACCCACGATCACGACCATGGACATTCACATGAGGATTTACACCATGGCCATAGCC
 ATGGCTACTCCCATGAGAGCCTTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCTA
 TGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGCTACTCTCTGGGCTTATGCATGGGG
 GCCACAGTGTGATCTCAGCAGCTCCATTTTTGTCTCTTCTTATCCCCGTGGAGTCAAACCTCTCCCC
 GGCATCGCTCTACTTCAAGTCTTGTCTAGTTTTGCTTCCGGTGGGCTCTGGGAGATGCTTTCCTGCA
 CCTCATTCTCATGCTCTGAACCTCATTCTCACCACACTCTGGAGCAACCCGGACATGGACACTCCAC
 AGTGGCCAGGGCCCCATTCTGTCTGTGGGACTGTGGGTTCTCAGTGAATTTGTTGCCTTTCTTGTGCTGG
 AGAAATTTGTGAGACATGTGAAAGGAGGACATGGTCACAGTCATGGACATGGACACGCTCACAGTCATAC
 ACGTGGAGTCATGGACATGGAAGACAAGAGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAA
 AAGGAAACAAGAGGGGTTTCAAGAGGCGAGGAGGGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTC
 AGAACGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTGTGTCGGGGTACCTGAATCTGGCTGCTGACTT
 GGCACACAACCTCACTGATGGTCTGGCCATTGGGGCTTCTTTTCGAGGGGGCCGGGGACTAGGGATCCTG
 ACCACAATGACTGTCTGCTACATGAAGTGCCCCACGAGGTCGGAGACTTTGCCATCTTGGTCCAGTCTG
 GCTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTAGGGGCACCTGGCAGGCACAGCCTG
 TGCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAAATTCAGAGTGGTGCAGGTCTCTGGCTGGGTCTG
 CCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTTGCCCGAGCTGCTGAGGGAGGCAT
 CACCATTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGAGTTATCATGATGGTGTGCTGATTGCCCA
 CCTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200556 protein sequence
 Red=Cloning site Green=Tags(s)

MARGLGAPHWVAVGLL TWATLGLLVAGLGGHDDLHDDLQEDFHGSHRHSHEDFHHGSHAHGHGHTHES
 IWHGHTHDHDHGHSHEDLHHGSHGYSHESLYHRGHGHDHEHSHGGYGESGAPGIKQDLDAVTLWAYALG
 ATVLI SAAPFFVLFLIPVESNSPRHRSLLQILL SFASGGLLGDAFLHLIPHALEPHSHHTLEQPGHGSH
 SGQGPILSVGLWVLSGIVAFVVEKFVRHVKGGHGHSHGHGHAHSHTRGSHGHGRQERSTKEKQSSEEEE
 KETRQVQKRRGGSTVPKDGVPVRQNAEEERGLDLRVSGYLNLAADLAHNFTDGLAIGASFRGGRGLGIL
 TTMTVLLHEVPHEVGDFAILVQSGCSKKQAMRLQLLTAVGALAGTACALLTEGGAVGSEIAGGAGPGWVL
 PFTAGGF IYVATVSVLPELLREASPLQSLLEVLGLLGGVIMMVLIAHLE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_006979

ORF Size: 1407 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_006979.3](#)
RefSeq Size: 2475 bp

RefSeq ORF: 1410 bp

Locus ID: 7922

UniProt ID: [Q92504](#)
Cytogenetics: 6p21.32

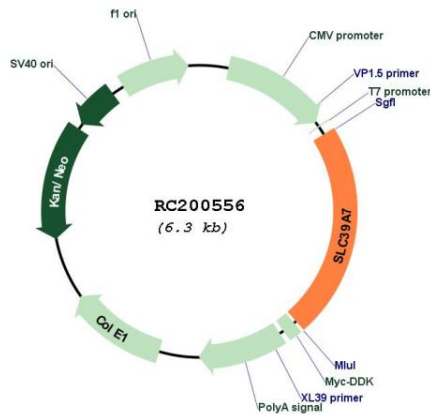
Domains: Zip

Protein Families: Transmembrane

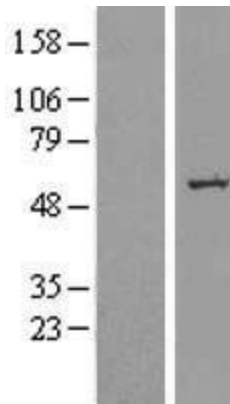
MW: 50.1 kDa

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 RC200556



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]).