

## Product datasheet for **RG213722**

### SLC39A7 (NM\_001077516) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A7 (NM_001077516) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A7
Synonyms:	D6S115E; D6S2244E; H2-KE4; HKE4; KE4; RING5; ZIP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213722 representing NM\_001077516  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCAGAGGCCTGGGGCCCCCACTGGGTGGCCGTGGGACTGCTGACCTGGGCGACCTTGGGGCTTC  
 TGGTGGCTGGACTCGGGGTTCATGACGACTGCACGACGATCTGCAAGAGGACTTCCATGGCCACAGCCA  
 CAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCATGGCCATGGCCACACTCACGAGAGC  
 ATCTGGCATGGACATACCCACGATCACGACCATGGACATTCACATGAGGATTTACACCATGGCCATAGCC  
 ATGGCTACTCCCATGAGAGCCTTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCTA  
 TGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGCTACTCTCTGGGCTTATGCATGGGG  
 GCCACAGTGTGATCTCAGCAGCTCCATTTTTGTCTCTTCTTATCCCCGTGGAGTCAAACCTCTCCC  
 GGCATCGCTCTACTTCAAGATCTTGTCTAGTTTTGCTTCCGGTGGGCTCTGGGAGATGCTTTCCTGCA  
 CCTCATTCTCATGCTCTGAACCTCATTCTCACCACACTCTGGAGCAACCCGGACATGGACACTCCAC  
 AGTGGCCAGGGCCCCATTCTGTCTGTGGGACTGTGGGTTCTCAGTGAATTTGTTGCCTTTCTGTGCTGG  
 AGAAATTTGTGAGACATGTGAAAGGAGGACATGGTCACAGTCATGGACATGGACACGCTCACAGTCATAC  
 ACGTGGAGTCATGGACATGGAAGACAAGAGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAA  
 AAGGAAACAAGAGGGGTTTCAAGAGGCGAGGAGGGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTC  
 AGAACGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTGTGTCGGGGTACCTGAATCTGGCTGCTGACTT  
 GGCACACAACCTCACTGATGGTCTGGCCATTGGGGCTTCTTTTCGAGGGGGCCGGGGACTAGGGATCCTG  
 ACCACAATGACTGCTCTGCTACATGAAGTGCCCCACGAGGTCGGAGACTTTGCCATCTTGGTCCAGTCTG  
 GCTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTAGGGGCACCTGGCAGCACAGCCTG  
 TGCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAATTCAGGTGGTGCAGGTCTGGCTGGGTCCTG  
 CCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTTGCCCGAGCTGCTGAGGGAGGCAT  
 CACCATTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGAGTTATCATGATGGTGTGCTGATTGCCCA  
 CCTTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG213722 representing NM\_001077516  
 Red=Cloning site Green=Tags(s)

MARGLGAPHWVAVGLL TWATLGLLVAGLGGHDDLHDDLQEDFHGHSRHSHEDFHHGHSHAHGHGHSTHES  
 IWHGHTHDHDHGHSHEDLHHGHSHGYSHESL YHRGHGHDEHSHGGYGESGAPGIKQDLDAVTLWAYALG  
 ATVLI SAAPFFVLF LIPVESNSPRHRSLLQILL SFASGGLLGDAFLHLIPHALEPHSHHTLEQPGHGHSH  
 SGQGPILSVGLWVLSGIVAFVVEKFRVHVKGHGHSHGHGHASHSTRGSHGHGRQERSTKEKQSSEEEE  
 KETRQVQKRRGGSTVPGDGPVRPQNAEEERGLDLRVSGYLNLAADLAHNF TDGLAIGASFRGGRLGIL  
 TTMTVLLHEVPHEVGFDFAILVQSGCSKKQAMRLQLL TAVGALAGTACALLTEGGAVGSEIAGGAGPGWVL  
 PFTAGGF IYVATVSVLPELLREASPLQSLLEVLGGLGGMVIMMVLIAHLE

TRTRPLE – GFP Tag – V

**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](mailto: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).

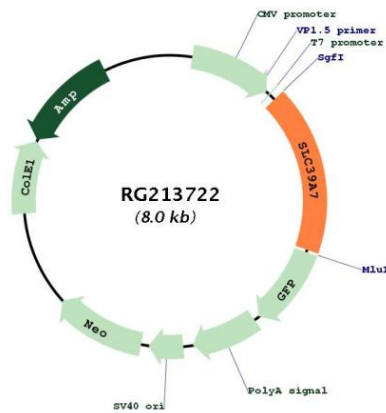
**Reconstitution Method:**

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

**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 RG213722