

## Product datasheet for **RG220307**

### SLC39A12 (NM\_152725) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_152725) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A12
Synonyms:	bA570F3.1; LZT-Hs8; ZIP-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG220307 representing NM\_152725  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTGCTTCCGGACAAAGCTCTCAGTATCTGGGTGCCATTGTTTCTTCTACTCAGCCGTGTTTTTCTA  
CTGAGACAGACAAACCCTCAGCCAGGACAGCAGAAGCCGTGGGAGTTCAGGCCAACCGCAGACCTGCT  
ACAGGTTCTCTCTGCTGGTGACCAACCCACCCACAACCACTCAAGAAGCCTCATCAAAACATTGTTGGAG  
AAAAGTGGGTGCCACGGAGGAGAAACGGAATGCAAGGAGATTGCAATCTGTGCTTTGAACCAGATGCAC  
TATTACTAATAGCTGGAGGAAATTTGAAGATCAGCTTAGAGAAGAAGTGGTCCAGAGAGTTTCTTCTCT  
CCTTCTCTATTACATTATTCATCAGGAAGAGATCTGTTCTTCAAAGCTCAACATGAGTAATAAAGAGTAT  
AAATTTTACCTACACAGCCTACTGAGCCTCAGGCAGGATGAAGATTCCTTTTCTTTTACAGAATGAGA  
CAGAAGATATCTTGGCTTCCACAGGCAGTACTTTGACACTTCTCAAAGCCAGTGTATGGAAACCAAAAC  
GCTGCAGAAAAAATCTGGAATAGTGAGCAGTGAAGGTGCTAATGAAAGTACGCTTCTCAGTTGGCAGCC  
ATGATCATTACTTTGTCCCTCCAGGGTGTGTTGTCTGGGACAAGGAAACTGCCTTCCCAGACTACTTTA  
CAGAATATATTTTTCAGTTCCTTGAATCGTACGAATACCCTCCGCCTATCAGAAGTACGAACTCCTCAA  
CACTCTCTGGACCAGAAGTACTTGTATCAAAAATGAGAAAATCCATCAATTTCAAAGGAAACAAAACAAC  
ATAATAACCCATGATCAGGGCTATTCTAATTTCTTTCATCCATGGAAAAAGAGTCTGAGGATGGTCCAG  
TTTCTGGGATCAGACCTGCTTCTCTGCTAGGCAGCTGGTGGAGATATTTCTACAGAAGGGCCTCTCACT  
CATTTCTAAGGAGGACTTTAAGCAAATGAGTCCAGGGATCATCCAGCAGCTCCTCAGCTGCTCCTGCCAC  
TTACCCAAGGACCAACAAGCAAAGCTGCCACCTACCCTCTGGAGAAAATACGGCTACAGCACGGTGGCTG  
TCACCCCTTCTCACACTGGGCTCCATGCTGGGGACAGCGCTGGTCTTTTCCATAGCTGTGAGGAGAATA  
CAGGCTTATCTTACAGCTGTTTGTGGGCTTGGCCGTCCGGACACTGTCTGGGGACGCTCTGCTCCACCTT  
ATCCCTCAGGTTCTTGGTTTACATAAGCAGGAAGCCCCAGAATTTGGGCATTTCCATGAAAGCAAAGGTC  
ATATTTGGAAACTGATGGGATTAATTGGAGGCATCCATGGATTTTCTTGATAGAAAAATGTTTTATTCT  
TCTTGTATCACCAAATGACAAGAAAAGCCAGAAGATTCACAGGCAGTGAAATGCCTATAGGCAGTATG  
ACAGCCTCCAACAGAAAATGTAAGCCATTAGCTTGTAGCAATCATGATTCTGGTTGGGGACAGCCTGC  
ATAATTTTGCAGATGGCCTAGCCATAGGAGCAGCCTTCTCATCATCCGAGTCCAGGAGTGACCACTAC  
GATTGCTATCTTGTGTCATGAAATCCCACATGAAATGGGAGACTTGGCCGTGCTCTTAAGCTCTGGACTT  
TCTATGAAGACTGCCATCCTGATGAATTTATAAGCTCCCTAACTGCCTTCATGGGATTATACATTGGCC  
TTTCCGTGTGAGCTGATCCATGTGTTCAAGACTGGATCTTACAGTCACTGCTGGGATGTTCTTATATTT  
ATCCTTGGTTGAAATGCTTCTGAAATGACTCATGTTCAAACACAACGACCCCTGGATGATGTTTCTCCTG  
CAAACTTTGGATTGATCCTAGGTTGGCTTCTCTCCTGCTCTTGGCTATATATGAGCAAAATATTA  
TA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG220307 representing NM\_152725  
 Red=Cloning site Green=Tags(s)

MCFR TKLSVSWVPLFLLLSRVFSTETDKPSAQDSRSRGSSGQPADLLQVLSAGDHPPHNHSRSLIKTLLE  
 KTGCPRRRNGMQGDCNLCFEPDALLIAGGNFEDQLREEVVQRVSLLLYYIIHQEEICSSKLNMSNKEY  
 KFYHLHLLSLRQDEDESSFLSQNETEDILAFTRQYFDTSQSQCMEKTKLQKKSQIVSSEGANESTLPQLAA  
 MIITLSLQGVCLGQGNLPSPDYFTEYIFSSLRNTNLRSELDQLLNTLWTRSTCIKNEKIQHFQRKQNN  
 IITHDQGYSNFSSSMEKESEDGPPVSWDQTCFSARQLVEIFLQKGLSLISKEDFKQMSPGIIQQLSCSCH  
 LPKDQQA KLPPTTLEKYGYSTVAVTLLTLGSM LGTALVLFHSCENYRLILQLFVGLAVGTLSGDALLHL  
 IPQVLGLHKQEAPEFGHFHESKGIHWKLMGLIGGIHGFFLIEKCFILLVSPNDKKSPEQSQAAMP IGS  
 M TASNRKCKAISLLA I M I LVGDSLHN FADGLA I GA A F S S S S E S G V T T T I A I L C H E I P H E M G D F A V L L S S G L  
 S M K T A I L M N F I S S L T A F M G L Y I G L S V S A D P C V Q D W I F T V T A G M F L Y L S L V E M L P E M T H V Q T R P W M M F L L  
 Q N F G L I L G W L S L L L L L A I Y E Q N I K I

TRTRPLE - GFP Tag - V

**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.

**RefSeq:** [NM\\_152725.2](#)

**RefSeq Size:** 2636 bp

**RefSeq ORF:** 1965 bp

**Locus ID:** 221074

**UniProt ID:** [Q504Y0](#)

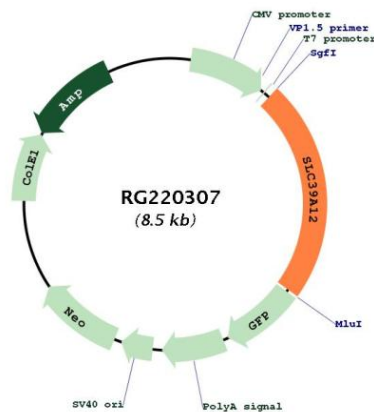
**Cytogenetics:** 10p12.33

**Domains:** Zip

**Protein Families:** Transmembrane

**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 RG220307