

## Product datasheet for **RG238886**

### **SLC39A12 (NM\_001282734) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_001282734) 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)



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**ORF Nucleotide Sequence:**

>RG238886 representing NM\_001282734.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGTAATAAAGAGTATAAATTTTACCTACACAGCCTACTGAGCCTCAGGCAGGATGAAGATTCCTCT
TTCCTTTACAGAATGAGACAGAAGATATCTTGGCTTTACCAGGCAGTACTTTGACACTTCTCAAAGC
CAGTGTATGGAAACCAAAACGCTGCAGAAAAAATCTGGAATAGTGAGCAGTGAAGGTGCTAATGAAAGT
ACGCTTCTCAGTTGGCAGCCATGATCATTACTTTGTCCCTCCAGGGTGTGTCTGGGACAAGGAAAC
TTGCCTCCCCAGACTACTTTACAGAATATATTTTTCAGTTCCTGAATCGTACGAATACCTCCGCCTA
TCAGAAGTAGACCAACTCTCAACTCTCTGGACCAGAAGTACTTGTATCAAAAATGAGAAAATCCAT
CAATTTCAAAGGAAACAAAACAACATAATAACCCATGATCAGGACTATTCTAATTTCTCTCATCCATG
GAAAAAGAGTCTGAGGATGGTCCAGTTTCTGGGATCAGACCTGCTTCTGCTAGGCAGCTGGTGGAG
ATATTTCTACAGAAGGGCTCTCACTCATTCTAAGGAGGACTTAAAGCAATGAGTCCAGGGATCATC
CAGCAGCTCCTCAGCTGCTCCTGCCACTTACCAAGGACCAACAAGCAAAGCTGCCACCTACCCTCTG
GAGAAATACGGCTACAGCACGGTGGCTGTACCCTTCTCACACTGGGCTCCATGCTGGGGACAGCGCTG
GTCCTTTTCCATAGCTGTGAGGAGAAGTACAGGCTTATCTTACAGCTGTTTGTGGGCTTGGCCGTGGG
ACACTGTCTGGGACGCTCTGCTCCACCTTATCCCTCAGGTTCTTGGTTTACATAAGCAGGAAGCCCA
GAATTTGGGCATTTCCATGAAAGCAAAGGTGATATTTGAAAAGTATGATGGGATTAATTGGAGGCATCCAT
GGATTTTCTTGATAGAAAAATGTTTTATTCTTCTGTATCACCAATGACAAGCAGGGCCTGTCATTG
GTTAATGGGCAGTGGGTCATCCCACCATCTTGCACTCAACTCTGAATTAAGTGACCAGGCAGGCAGA
GGCAAATCTGCTTCAACTATCCAGTTGAAAAGCCAGAAGATTCACAGGCAGTGAATGCCTATAGGC
AGTATGACAGCCTCCAACAGAAAATGTAAGCCATTAGCTTGTAGCAATCATGATTCGTTGGGGAC
AGCCTGCATAATTTTGCAGATGGCTAGCCATAGGAGCAGCCTTCTCATCATCATCCGAGTCAGGAGTG
ACCACTACGATTGCTATCTTGTGTCATGAAATCCACATGAAATGGGAGACTTGGCCGTGCTTAAAGC
TCTGGACTTTCTAAGACTGCCATCCTGATGAATTTTATAAGCTCCCTAACTGCCTTATGGGATTA
TACATTGGCCTTCCGTGTCAGCTGATCCATGTGTTCAAGACTGGATCTTACAGTCACTGCTGGGATG
TTCTTATATTTATCCTTGGTTGAAATGCTTCTGAAATGACTCATGTTCAAACACAACGACCCTGGATG
ATGTTTCTCCTGCAAACTTTGGATTGATCCTAGGTTGGCTTTCTCTCCTGCTCTGGCTATATATGAG
CAAAATATTAATAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238886  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSNKEYKFYLHSLLSLRQDESSFLSQNETEDILAFTRQYFDTSQSQCMTKTLQKKSIVSSEGANES
TLPQLAAMIITLSLQGVCLGQGNLPSPDYFTEYIFSSLNRTNTRLRLSELQLLNLTWTRSTCIKNEKIH
QFQRKQNNIIITHDQDYSNFSSSMEKESEDGPVSWDQTCFSARQLVEIFLQKGLSLISKEDFKMSPGII
QQLLSCSCHLPKQQAQKLPPTTLEKYGYSTVAVTLLTLGSMGLTALVLFHSCEENYRLILQLFVGLAVG
TLSGDALLHLIPQVLGLHQAPEFGHFHESKGIWKLMLIGGIHGFLLIEKCFILLVSPNDKQGLSL
VNGHVGHSHHLALNSELSDQAGRKKSASTIQLKSPEDSQAAMPISMTASNRKKAISLLAIMILVGD
SLHNFADGLAIGAAFSSSESGVTTTIAILCHEIPHMGDFAVLLSSGLSMKTAILMNFISLTAFMGL
YIGLSVSADPCVQDWIFVTAGMFLYLSLVEMLPEMTHVQTRPMMFLLQNFGLILGWSLLLLAIYE
QNIKI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIIRSNAVHEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_001282734

ORF Size: 1671 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).

RefSeq: [NM\\_001282734.1](#), [NP\\_001269663.1](#)

RefSeq Size: 2461 bp

RefSeq ORF: 1674 bp

Locus ID: 221074

UniProt ID: [Q504Y0](#)

Cytogenetics: 10p12.33

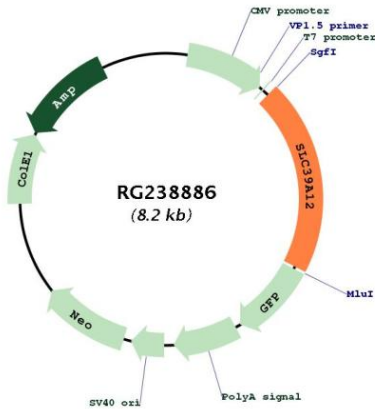
Protein Families: Transmembrane

MW: 62.1 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 RG238886