

## Product datasheet for **RG227331**

### SLC39A12 (NM\_001145195) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_001145195) 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:

>RG227331 representing NM\_001145195  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTGCTTCCGGACAAAGCTCTCAGTATCTGGGTGCCATTGTTTCTTCTACTCAGCCGTGTTTTTCTA  
CTGAGACAGACAAACCCTCAGCCAGGATAGCAGAAGCCGTGGGAGTTCAGGCCAACCGCAGACCTGCT  
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CAGGCTTATCTTACAGCTGTTTGTGGGCTTGGCCGTCCGGACACTGTCTGGGGACGCTCTGCTCCACCTT  
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GACTGGATCTTACAGTCACTGCTGGGATGTTCTTATATTTATCCTTGGTTGAAATGCTTCTGAAATGA  
CTCATGTTCAAACACAACGACCCTGGATGATGTTTCTCCTGCAAAACTTTGGATTGATCCTAGGTTGGCT  
TTCTCTCTGCTCTTGGCTATATATGAGCAAAATATTAATAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG227331 representing NM\_001145195  
 Red=Cloning site Green=Tags(s)

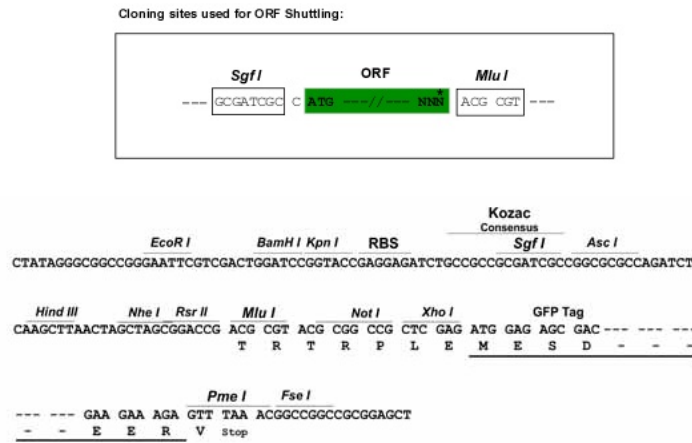
MCFR TKLSVSWVPLFLLLSRVFSTETDKPSAQDSRSRGSSGQPADLLQVLSAGDHPPHNHSRSLIKTLLE  
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 AAFSSSSSESGVTTTIIAILCHEIPHMGDFAVLLSSGLSMKTAILMNFISSLTAFMGLYIGLSVSADPCVQ  
 DWIFTVTAGMFLYLSLVEMLPEMTHVQTQRPWMMFLLQNFGLILGWLSLLLLAIYEQNIKI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

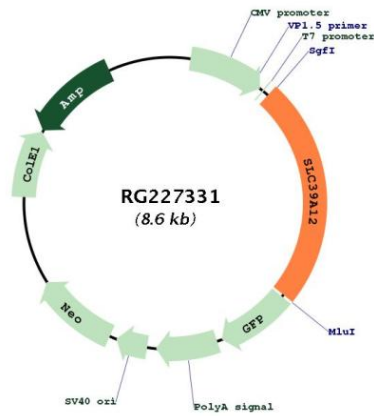


ACCN: NM\_001145195

ORF Size: 2073 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001145195.2</a>
<b>RefSeq Size:</b>	2808 bp
<b>RefSeq ORF:</b>	2076 bp
<b>Locus ID:</b>	221074
<b>UniProt ID:</b>	<a href="#">Q504Y0</a>
<b>Cytogenetics:</b>	10p12.33
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG227331