

## Product datasheet for **RG209463**

### SLC39A4 (NM\_130849) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A4 (NM_130849) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A4
Synonyms:	AEZ; AWMS2; ZIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209463 representing NM\_130849  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCCCTGGTCTCGCTGGAGCTGGGGCTGCTTCTGGCTGTGCTGGTGGTGACGGCGACGGCGTCCC  
 CGCCTGCTGGTCTGCTGAGCCTGCTCACCTCTGGCCAGGGCGCTCTGGATCAAGAGGCTCTGGGCGGCCT  
 GTTAAATACGCTGGCGGACCGTGTGCACTGCACCAACGGGCCGTGTGAAAGTGCCTGTCTGTGGAGGAC  
 GCCCTGGGCTGGGCGAGCCTGAGGGGTGAGGGCTGCCCCGGGCCCGGTCTGGAGGCCAGGTACGTGCG  
 CCCGCTCAGTGGCGCCCGCTCTGTACCTCAGCAACCCGAGGGCACCTGTGAGGACACTCGGGCTGG  
 CCTCTGGGCTCTCATGCAGACCACCTCTGGCCCTGCTCGAGAGCCCCAAGGCCCTGACCCGGGCTG  
 AGCTGGTGTGTCAGAGGATGCAGGCCGGGCTGCCGGCCAGACCCCAAGACGGCTGCGTAGATATCC  
 CTCAGCTGCTGGAGGAGCGGTGGGGCGGGGCTCCGGCAGTGTGGGGCTCTGGCTGCCCTGCT  
 GGACCATGTCAGGAGCGGTCTTGTCCACGCCCTGCCGAGCCCTCAGTACTTCTGGACTTTGTGTTT  
 CAGCAGCACAGCAGCGAGTCCCTATGACGCTGGCCGAGCTGTCAGCCTTGATGCAGCGCTGGGGTGG  
 GCAGGGAGGCCACAGTGACCACAGTATCGGCACAGGGGAGCCAGCAGCCGGGACCTGTGCCCTCAT  
 CAGCTCCAGAACAGCTCCAGTGTGTGGGACACGGTATGCCTGAGTGCCAGGGACGTGATGGCTGCATAT  
 GGACTGTGCGAACAGGCTGGGGTGACCCCGGAGGCTGGGCCAACTGAGCCCTGCCCTGCTCCAACAGC  
 AGCTGAGTGGAGCCTGCACCTCCAGTCCAGGCCCCCGTCCAGGACCAGCTCAGCCAGTCAGAGAGGTA  
 TCTGTACGGCTCCCTGGCCACGCTGCTCATCTGCCTCTGCGCGGTCTTTGGCTCCTGCTGCTGACCTGC  
 ACTGGCTGCAGGGGGTACCCACTACATCCTGCAGACCTTCTGAGCCTGGCAGTGGGTGCACTCACTG  
 GGGACGTGCTCCTGCATCTGACGCCCAAGGTGCTGGGGCTGCATACACACAGCGAAGAGGGCCTCAGCCC  
 ACAGCCACCTGGCGCCTCCTGGCTATGCTGGCGGGCTCTACGCCTTCTTCTGTTTGAACCTCTTC  
 AATCTCCTGCTGCCAGGGACCCGGAGGACCTGGAGGACGGGCCCTGCGGCCACAGCAGCCTATGCCACG  
 GGGGCCACAGCCACGGTGTGTCCCTGCAGCTGGCACCCAGCGAGCTCCGGCAGCCCAAGCCCCCACGA  
 GGGCTCCCGCGCAGACCTGGTGGCGGAGGAGGCCCGGAGCTGCTGAACCTGAGCCAGGAGACTGAGC  
 CCAGAGTTGAGGCTACTGCCCTATATGACTCTGGGCGACGCCGTGCACAACCTCGCCGACGGGCTGG  
 CCGTGGGCGCCGCTTCCGCTCCTCTGGAAGACCGGGCTGGCCACCTCGCTGGCCGTGTTCTGCCACGA  
 GTTGCCACACGAGCTGGGGACTTCGCCCTTGTGTCACGCGGGGCTGTCGTCGCCAAGCACTGCTG  
 CTGAACCTGGCCTCCGCGCTCACGGCCTTCGCTGGTCTCTACGTGGCACTCGCGGTTGGAGTCAGCGAGG  
 AGAGCGAGGCCTGGATCCTGGCAGTGGCCACCGGCTGTTCTCTACGTAGCACTCTGCGACATGCTCCC  
 GCGATGTTGAAAGTACGGGACCCGCGGCCCTGGCTCCTTCTCTGCTGCACAACGTGGGCTGCTGGG  
 GGCTGGACCGTCTGCTGCTGCTCCCTGTACGAGGATGACATCACCTC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209463 representing NM\_130849  
 Red=Cloning site Green=Tags(s)

MASLVLELGLLLAVLVVATASPPAGLLSLLTSGQALDQEALGGLNLTADRVHCTNGPCGKCLSVED  
 ALGLGEPEGSLPPGPVLEARYVARLSAAAVLYLSNPEGTCDTRAGLWASHADHLLALLEPKALTPGL  
 SWLLQRMQARAAGQTPKTACVDIPQLLEEAVGAGAPGSAGGVLAALLDHVRSGSCFHALPSPQYFVDFV  
 QQHSSEVPMTLAEALSALMQRLGVGREAHSDHSHRHRGASSRDPVPLISSNSSSVWDTVCLSARDVMAAY  
 GLSEQAGVTPEAWAQLSPALLQQQLSGACTSQSRPPVQDQLSQSERYLYGSLATLLICLCAVFLGTTTT  
 TGCRCGVTHYILQTFLLAVGALTGDAVLHLTPKVLGLHHTHSEGLSPQPTWRLLAMLGLYAFFLFFENLF  
 NLLLPRDPEDLEDGPCGHSSSHSGHSHGVSLLQAPSELRQPKPPHEGSRADLVAEESPELLNPEPRLS  
 PELRLLPYMITLGDVAVHNFADGLAVGAFASSWKTGLATSLAVFCHELPHELGFALLHAGLSVRQALL  
 LNLASALTAFAGLYVALAVGVSESEAWILAVATGLFLYVALCDMLPAMLKVRDPRPWLFLHNVGLLG  
 GWTVLLLLSLYEDDITF

**TRTRPLE** – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_130849

ORF Size: 1941 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\\_130849.2](#), [NP\\_570901.2](#)

RefSeq Size: 2192 bp

RefSeq ORF: 1944 bp

Locus ID: 55630

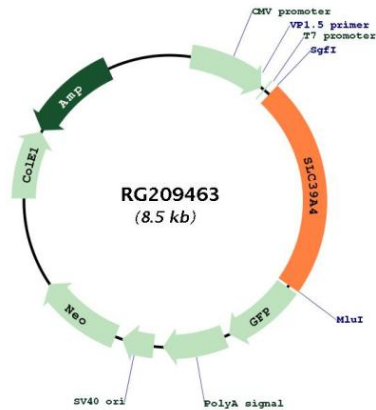
UniProt ID: [Q6P5W5](#)

**Cytogenetics:** 8q24.3

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Mutations in this gene result in acrodermatitis enteropathica. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

**Product images:**



Circular map for RG209463