

Product datasheet for **RG215229**

SLC39A4 (NM_017767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A4 (NM_017767) 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:

>RG215229 representing NM_017767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGACGTTGTTGGACTTGAAGGGAAACAGGCCCTCGGGGAAGCCCCTGGCCAGGCCCTGCCTCTCC
 CCTCCCTGGTGGGCCAGCGCCCTGCTCACTTGTCTCTGCCACAGTGCCTGTCTGTGGAGGACGCCCT
 GGGCCTGGGCGAGCCTGAGGGGTGAGGGCTGCCCCGGGCCCGGTCTGGAGGCCAGTACGTCGCCCGC
 CTCAGTGCCGCCCGCTCTGTACTCAGCAACCCCGAGGGCACCTGTGAGGACGCTCGGGCTGGCCTCT
 GGGCCTCTCATGCAGACCACCTCTGGCCCTGCTCGAGAGCCCCAAGGCCCTGACCCCGGCCCTGAGCTG
 GCTGCTGCAGAGGATGCAGGCCCGGGTCCCGGCCAGACCCCAAGACGGCCTGCGTAGATATCCCTCAG
 CTGCTGGAGGAGCGGTGGGGCGGGGGTCCGGGCAGTGTGGCGGCTCTGGCTGCCCTGCTGGACC
 ATGTCAGGAGCGGTCTTGCTTCCACGCCCTGCCGAGCCCTCAGTACTTCGTGGACTTTGTGTTCCAGCA
 GCACAGCAGCGAGTCCCTATGACGCTGGCCGAGCTGTACGCTTGATGCAGCGCCTGGGGTGGGCAGG
 GAGGCCACAGTACCACAGTATCGGCACAGGGGAGCCAGCAGCCGGGACCCTGTGCCCTCATCAGCT
 CCAGCAACAGCTCCAGTGTGTGGGACACGGTATGCCTGAGTGCCAGGGACGTGATGGCTGCATATGGACT
 GTCGGAACAGGCTGGGGTGAACCCGAGGCCCTGGGCCAACTGAGCCCTGCCCTGCTCAAACAGCAGCTG
 AGTGGAGCCTACACCTCCAGTCCAGGCCCCCGTCCAGGACCAGCTCAGCCAGTCAGAGAGATATCTGT
 ACGGCTCCCTGGCCACGCTGCTCATCTGCCTCTGCGCGGTCTTTGGCCTCCTGCTGCTGACTGCACTGG
 CTGCAGGGGGTGCCTACTACCTGACAGACCTTCTGAGCCTGGCAGTGGGTGCACTCACTGGGGAC
 CCTGCTGCTGCATCTGACGCCAAGGTGCTGGGGTGCATACACACAGCGAAGAGGGCCTCAGCCACAGC
 CCACCTGGCGCCTCTGGCTATGCTGGCGGGCTCTACGCCTTCTCCTGTTTGAACCTTTCAATCT
 CCTGCTGCCAGGGACCCGGAGGACCTGGAGGACGGGCCCTGCGGCCACAGCAGCCATAGCCACGGGGC
 CACAGCCACGGTGTGTCCTGCAGCTGGCACCCAGCGAGCTCCGGCAGCCCAAGCCCCCAGAGGGCT
 CCCGCGCAGACCTGGTGGCGGAGGAGAGCCGGAGCTGCTGAACCCTGAGCCAGGAGACTGAGCCAGA
 GTTGAGGCTACTGCCCTATATGACTCTGGCGACGCCGTGCACAACCTCGCCGACGGCTGGCCGTG
 GCGCGCCTTCGCGTCTCCTGGAAGACCGGGTGGCCACCTCGCTGGCCGTGTTCTGCCACGAGTTGC
 CACACGAGCTGGGGACTTCGCCCTTGTGCACGCGGGGTGTCGTCGCGCAAGCACTGCTGCTGAA
 CCTGGCCTCCGCGCTCACGGCCTTGGTGGTCTTACGTGGCACTCGCGTGGAGTACGCGAGGAGAGCG
 AGGCCTGGATCCTGGCAGTGGCCACCGCCTGTTCTTACGTAGCACTCTGCGACATGCTCCCGCGATG
 TTGAAAGTACGGACCCGCGGCCCTGGCTCCTTCTGCTGCACAACGTGGGCCCTGCTGGCGGCTGG
 ACCGCTCTGCTGCTGCTGCCCTGTACGAGGATGACATCACCTTCTGATACCCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215229 representing NM_017767
 Red=Cloning site Green=Tags(s)

MVDVVGLERETGPRGSPWPGLPLPSLVGPAPLLTCLCPQCLSVEDALGLGEPEGSGLPPGPVLEARYVAR
 LSAAAVLYL SNPEGTCEDARAGLWASHADHLLALLESPKALTPGLSWLLQRMQARAAGQTPKTACVDIPQ
 LLEEAVGAGAPGSAGGVLAAALLDHVRSGSCFHALPSPQYFVDFVFQHSSEVPMTLAEALSALMQLRGVGR
 EAHSDHSHRHRGASSRDPVPLISSNSSVWDTVCL SARDVMAAYGLSEQAGVTPEAWAQL SPALLQQQL
 SGAYTSQSRPPVQDQLSQSERYLYGSLATLLICLCAVFGLLLLTCTGCRGVAHYILQTFLSLAVGALTGD
 AVLHLTPKVLGLHTHSEGLSPQPTWRLAMLGLYAFFLFENLFNLLLPRDPEDLEDGPGCHSSHSHGG
 HSHGVSLQLAPSELRQPKPPHEGSRADLVAEESPELLNPEPRRLSPELRLLPYMITLGDVHNFADGLAV
 GAFASSWKTGLATSLAVFCHELPHELGDFAALLHAGLSVRQALLNLASALTAFAGLTWHRSRESARRA
 RPSGSWQWPPACSLRSTLRHAPGDVESTGPAAPGSSSCCTTWCWAAGPSCCCPCTRMTSPSDTLP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017767

ORF Size: 1878 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_017767.1](#), [NP_060237.1](#)

RefSeq Size: 2342 bp

RefSeq ORF: 1869 bp

Locus ID: 55630

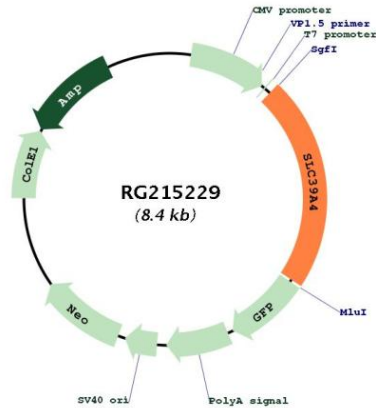
UniProt ID: [Q6P5W5](#)

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 RG215229