

Product datasheet for **RG217835**

SLC39A6 (NM_001099406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A6 (NM_001099406) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A6
Synonyms:	LIV-1; ZIP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217835 representing NM_001099406 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATCCAGGTTCCGCTGAATGCAACAGAGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTG
ATGCTAGATCTTGTCTGATTCATACAAGTAAAAGAAGGCTGAAATCCCTCAAAGACCTATTCATTACA
AATAGCCTGGGTTGGTGGTTTTATAGCCATTTCCATCATCAGTTTCTGTCTCTGCTGGGGTTATCTTA
GTGCCTCATGAATCGGGTGTTCCTCAAATTTCTCCTGAGTTTCTGTGGCACTGGCCGTTGGGACTT
TGAGTGGTGATGCTTTTTACACCTTCTCCACATTCTCATGCAAGTACCACCATAGTCATAGCCATGA
AGAACCAGCAATGAAAATGAAAAGAGGACCACTTTTCAGTCATCTGTCTTCTCAAAACATAGAAGAAAGT
GCCTATTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGAGGCTGTATTTTCATGTTTCTTGTGGAAC
ATGTCCTCACATTGATCAAACAATTTAAAGATAAGAAGAAAAAGAATCAGAAGAAACCTGAAAATGATGA
TGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAAGTATAGT
ACAGATGATCGAAGTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTTGATTCTCAGCAGC
CTGCAGTCTTGAAGAAGAAGAGGTCATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGT
ACCCAGAGGGTGCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTCATT
CACCACCATCATGACTACCATCATATTCTCCATCATCACCACCACCAAAACCACCATCTCACAGTCA
GCCAGCGTACTCTCGGGAGGAGCTGAAAAGATGCCGCGTCGCCACTCTGGCCTGGATGGTGATAATGGG
TGATGGCCTGCACAATTTAGCGATGGCCTAGCAATTGGTGTCTTTTACTGAAGGCTTATCAAGTGGT
TTAAGTACTTCTGTTGCTGTGTTCTGTCTGATGAGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAA
AGGCTGGCATGACCGTTAAGCAGGCTGTCTTTAATGCATTGTGAGCCATGCTGGCGTATCTTGGAAAT
GGCAACAGGAATTTTCATTGGTCATTATGCTGAAAATGTTTCTATGTGGATTTTGCCTACTGCTGGC
TTATTCATGTATGTTGCTCTGGTTGATATGGTAAGTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217835 representing NM_001099406
Red=Cloning site Green=Tags(s)

MGIQVPLNATEFNYPALCPAIIINQIDARSCLIIHTSEKKAIEPPKTYSLQIAWVGGFIAISIIISFLSLLGVIL
 VPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHSHASHHSHSHEEPAMEMKRGLFSLSSQNIIES
 AYFDSTWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQKKPENDDDVEIKKQLSKYESQLSTNEEKVD
 TDDRTEGYLRADSQEPHFDSQQPAVLEEEVMIAHAHPQEVYNEYVPRGCKNKCHSHFHDTLQGSDDLI
 HHHHDYHHILHHHHHQNHHPHSHSQRYREELKDAGVATLAWMVMIMGDGLHNFSDGLAIGAAFTEGLSSG
 LSTSVAVFCHLPHLGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHYAENVSMWIFALTAG
 LFMVALVDMVSF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099406

ORF Size: 1299 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_001099406.1](#), [NP_001092876.1](#)

RefSeq Size: 1681 bp

RefSeq ORF: 1302 bp

Locus ID: 25800

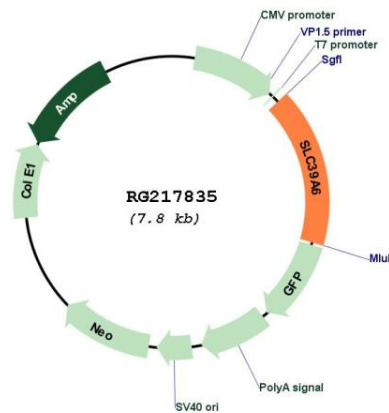
UniProt ID: [Q13433](#)

Cytogenetics: 18q12.2

Protein Families: Druggable Genome, 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. SLC39A6 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG217835