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Product datasheet for RG233763

SLC39A1 (NM_001271959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A1 (NM_001271959) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC39A1
Synonyms:	ZIP1; ZIRTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG233763 representing NM_001271959
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGC
CTGTGGGGCTGGAGGTGAAGTTGGGGGCCCTGGTGCTGCTGCTGGTGCTCACCCTCCTCTGCAGCCTGGT
GCCCATCTGTGTGCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGC
CTAGTAAGCTGTTTCGCGGGGGGCGTCTTTTTGGCCACTTGTCTCCTGGACCTGCTGCCTGACTACCTGG
CTGCCATAGATGAGGCCCTGGCAGCCTTGCACGTGACGCTCCAGTTCCCACTGCAAGAGTTCATCCTGGC
CATGGGCTTCTTCCTGGTCCTGGTGATGGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTCA
CCTCTGGAGGAAACAAGGGCTCTGCTGGGAACAGTGAATGGTGGGCCGCAGCATTGGCATGATGGGCCAG
GGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCCTCAGCCTTGCGTGCCTGTGTACTGGTGTTCTCCCT
GGCCCTCCACTCCGTGTTCGAGGGGCTGGCGGTAGGGCTGCAGCGAGACCGGGCTCGGGCCATGGAGCTG
TGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTCAGCCTGTCCCTGCGGCTGTTGCAGAGCCACC
TTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGCATGACACCTCTAGGCATCGGGCTGGG
TGCAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCCAGTCTGTGCTAGAGGGCATGGCAGCT
GGCACCTTTCTCTATATCACCTTTCTGGAAATCCTGCCCCAGGAGCTGGCCAGTTCTGAGCAAAGGATCC
TCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

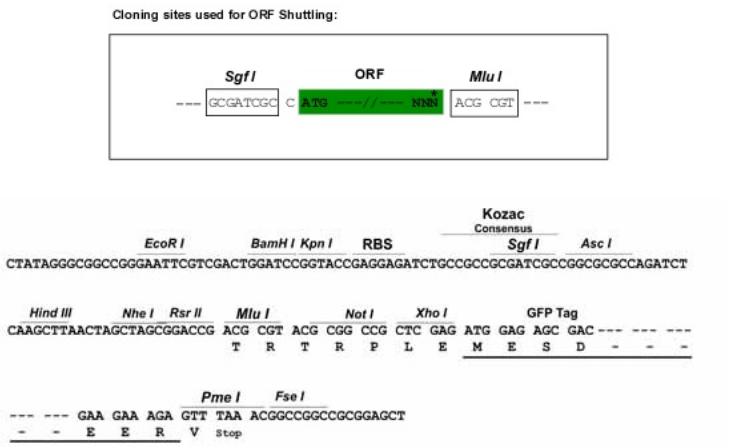
>RG233763 representing NM_001271959
Red=Cloning site Green=Tags(s)

MGPWGEPELLVWRPEAVASEPPVPVGLEVKLGALVLLLVLTLLCSLVPICVLRRPGANHEGSASRQKALS
LVSCFAGGVFLATCLLDLLPDYLAAIDEALAALHVTLQFPLQEFILAMGFFLVLVMEQITLAYKEQSGPS
PLEETRALLGTVNGGPQHWHDGPGVPQASGAPATPSALRACVLVFSLALHSVFEGLAVGLQRDRARAMEL
CLALLLHKGILAVSLSLRLLQSHLRAQVVAGCGILFSCMTPLGIGLGAALAESAGPLHQLAQSVLEGMAA
GTFLYITFLEILPQELASSEQRILKVILLLAGFALLTGLLFIQI

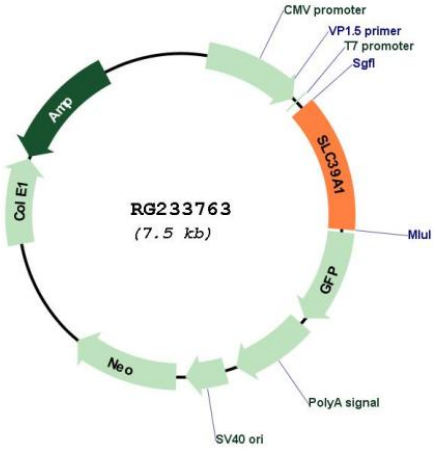
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271959

ORF Size: 972 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_001271959.1, NP_001258888.1
RefSeq Size:	2324 bp
RefSeq ORF:	975 bp
Locus ID:	27173
UniProt ID:	Q9NY26
Cytogenetics:	1q21.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the zinc-iron permease family. The encoded protein is localized to the cell membrane and acts as a zinc uptake transporter. This gene has been linked to prostate cancer, breast cancer, and Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]