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Product datasheet for MG211222

Slc4a1 (NM_011403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc4a1 (NM_011403) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc4a1
Synonyms:	Ae1; CD233; Empb3; l11Jus51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG211222 representing NM_011403
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACATGCGGGACCACGAGGAAGTGCTGGAGATCCCAGATCGAGACAGCGAAGAAGAACTGGAGA
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TCCCACAGAGCAAACAGCCACAGACTACGTCCCCAGCAGTACCTCCACACCGCACCCAAGCTCCGGTCAG
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CCGTCGTCTCATCCTCCCGCTCATCTTCAGAGAGCTGGAACTCCAGTGTCTGGACGGTGATGATGCCAAA
GTGACCTTTGACGAGGAGAATGGCCTGGATGAATATGACGAAGTGCCCATGCCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211222 representing NM_011403
Red=Cloning site Green=Tags(s)

MGDMRDHEEVLEIPDRDSEEELENIIGQIAYRDLTIPVTEMQDPEALPTEQTATDYVPSSTSTPHPSSGQ
VYVELQELMMDQRNQELQWVEAAHWIGLEENLREDGVWGRPHLSYLTFWSLLELQKVFSKGTFLLGLAET
SLAGVANHLLDCFIYEDQIRPQDREELLRALLLKRSHAEDLGNLEGVKPAVLTRSGGASEPLLPHQPSLE
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SILIMVLVDSFIKGTYTQKLSVPDGLKVSNSSARGWVIHPLGLYRLFPTWMMFASVLPALLVFILIFLES
QITTLIVSKPERKMIKGSGFHLDLLLVVGMGGVAALFGMPWLSATTVRSVTHANALTVMGKASGPGAAAQ
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PFVKRVKTWRMHLFTGIQIICLAVLWVVKSTPASLALPFVLILTVPLRRLILPLIFRELELQCLDGDDAK
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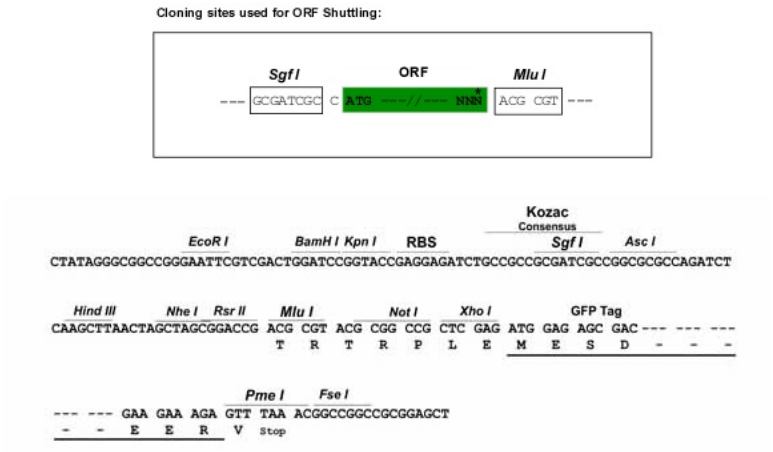
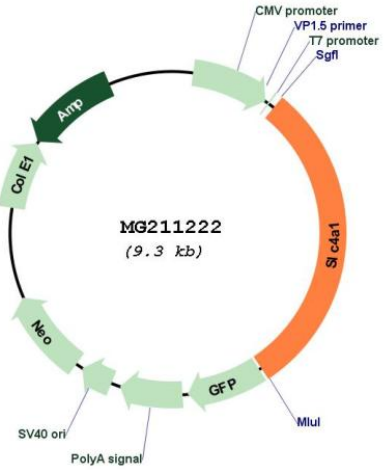
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_011403
ORF Size:	2787 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_011403.2
RefSeq Size:	4375 bp
RefSeq ORF:	2790 bp
Locus ID:	20533
UniProt ID:	P04919
Cytogenetics:	11 D

Gene Summary: Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a structural protein. Major integral membrane glycoprotein of the erythrocyte membrane; required for normal flexibility and stability of the erythrocyte membrane and for normal erythrocyte shape via the interactions of its cytoplasmic domain with cytoskeletal proteins, glycolytic enzymes, and hemoglobin. Functions as a transporter that mediates the 1:1 exchange of inorganic anions across the erythrocyte membrane. Mediates chloride-bicarbonate exchange in the kidney, and is required for normal acidification of the urine.[UniProtKB/Swiss-Prot Function]