

## Product datasheet for **MR211222**

### **Slc4a1 (NM\_011403) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc4a1 (NM_011403) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc4a1
Synonyms:	Ae1; CD233; Empb3; I11Jus51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR211222 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGACATGCGGGACCACGAGGAAGTCTGGAGATCCAGATCGAGACAGCGAAGAAGAACTGGAGA  
 ACATAATAGGACAGATAGCATATAGAGACCTAACCATCCCTGTGACCGAGATGCAGGACCCAGAAGCTCT  
 TCCCACAGAGCAAACAGCCACAGACTACGTCCCCAGCAGTACCTCCACACCCGACCCAAGCTCCGGTCAG  
 GTCTATGTGGAGCTTCAGGAACTGATGATGGACCAGAGGAACCAGGAACTACAATGGGTGGAGGCAGCGC  
 ACTGGATAGGGCTGGAGGAAAACCTTCGAGAGGATGGTGTATGGGGTCGCCACATCTATCTTACCTGAC  
 CTTCTGGAGCCTTCTAGAACTGCAGAAGGTCTTCTCAAAGGCACCTTCCTTCTGGGTCTGGCAGAGACA  
 TCCCTGGCTGGGTGGCCAAACACCTTCTAGACTGCTTACCTACGAGGATCAGATTCCGGCTCAGGACC  
 GAGAAGAACTGCTCCGGCTCTGCTACTCAAACGCAGCCATGCTGAGGACCTAGGGAATCTGGAGGGGT  
 GAAGCCCGCCGCTCTGACCCGCTCTGGGGCGCCCTCTGAGCCTCTGCTTCTCACCAGCCATCGCTGGAG  
 ACCCAGCTGTACTGCGGACAGGCAGAGGGGGGCTCAGAAGGACCCCAACATCTGGGACTCTGAAGATCC  
 CCCCAGATTACAGAAACCACACTGGTGTAGTGGGCCGGGCTAATTTCTGGAGAAGCCTGTACTGGGCTT  
 CGTGAGACTGAAGGAGGCCGTGCCTCTGGAGGACCTGGTGTGGCCAGAGCCTGTGGGCTTCTTCTTGT  
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 GTGACCTTGTACGAGGAGAATGGCTGGATGAATATGACGAAGTCCCATGCCTGTG

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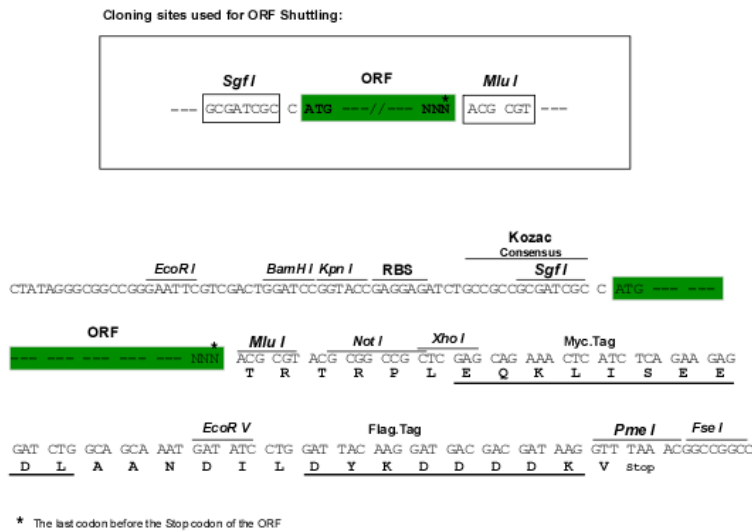
**Protein Sequence:** >MR211222 protein sequence  
 Red=Cloning site Green=Tags(s)

MGDMRDHEEVLEIPDRDSEEELENIIGQIAYRDLTIPVTEMQDPEALPTEQTATDYVPSSTSTPHPSGQ  
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 SLAGVANHLDCFIYEDQIRPDRELLRALLKRSHAEDLGNLEGVKPAVLRSGGASEPLLPHQPSLE  
 TQLYCGQAEAGGSEGPSTSGTLKIPDSEITLVLVGRANFLEKPVLFVRLKEAVPLEDLVLPVPGFLLV  
 LLGPEAPHVDYTLGRAAATLMTERVFRITASMAHNRELLRSLESFLDCSLVLPPTDAPSEKALLNLVP  
 VQKELLRRRYLPSPAKPDPNLYNTLDLNGGKGGPDEDDPLRRTGRIFGLIRDIGRRYPYLDITDAL  
 SPQVLAIVIFIAALSPAVTFGGLLGEKTRNLMGVSELLISTAVQGILFALLGAQPLLVLGFSGPLLVF  
 EEAFFSFCESNNLEYIVGRAWIGFWLILLVMLVVAFEGSFLVQYISRYTQEIFSFLISLIFIYETFSKLI  
 KIFQDYPLQQTYPVVMKPKPQGPVNTALFSLVLMAGTFLAMTLRKFKNSTYFPGKLRVIGDFGVPI  
 SILIMVLVDSFIKGTYTQKLSVPDGLKVSNSARGWVIHPLGLYRFPWMMFASVLPALLVILIFLES  
 QITTLIVSKPERKMIKSGGFHDLVGMGGVAALFGMPWLSATTVRSVTHANALVMGKASGPGAAAQ  
 IQEVKEQRISGLLVSVLVGLSILMEPILSRIPLAVLFGIFLYMGVTSLSGIQLFDRILLFKPPKYHPDV  
 PFVKRKVTWRMHLFTGIQIICLAVLVVVKSTPASLALPFVILITVPLRRLILPLIFRELELQCLDGD  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

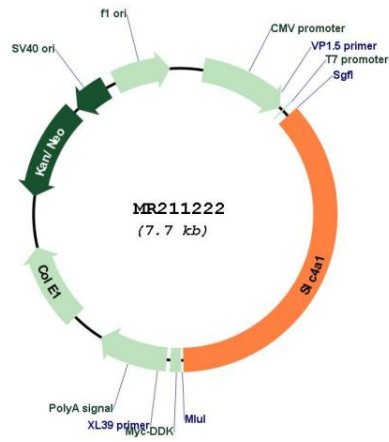


**ACCN:** NM\_011403

**ORF Size:** 2790 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011403.2</a>
<b>RefSeq Size:</b>	4584 bp
<b>RefSeq ORF:</b>	2790 bp
<b>Locus ID:</b>	20533
<b>UniProt ID:</b>	<a href="#">P04919</a>
<b>Cytogenetics:</b>	11 D
<b>MW:</b>	103.1 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211222