

## Product datasheet for **MG205416**

### Slc9a3r1 (NM\_012030) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc9a3r1 (NM_012030) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc9a3r1
Synonyms:	EBP-50; NHE-RF; NHERF-1; NHERF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205416 representing NM_012030 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAGCGCGGACGCAGCGCCGGGGAGCCTCTGCCCGGCTCTGCTGCCTGGAGAAGGGTCCAAATGGCTACGGCTTCCACCTGCACGGGGAGAAGGGCAAGGTGGCCAGTTTATCCGCTCTGGTAGAACCTGGCTCGCCGGCCGAGAAGTCGGGGTTGTTGGCTGGAGACCGATTGGTGGAGGTGAACGGTGAAGATGTGGAGAAGGAGACGCATCAGCAGGTGGTGGAGCCGATCCGCGCAGCGCTGAACGCCGTGCGCTGCTGGTGGTCGACCCGGAGACCGGAGCGTCTCAAGAAGCTGGGCGTCTCGATCCGGGAAGAGCTGCTGCGCCCCAGGAGAAGTCGAAACAAGCCGAGCCTCCAGCGCCGCCGACACTCATGAGGCTGGGGACCAGAATGAGGCCGAAAAGAGCACTTGGCGGAGCTCCGGCCCCGGCTCTGCACCATGAAGAAAGGCCCAATGGCTATGGCTTCAACCTGCACAGCGACAAGTCTAAGCCAGGCCAGTTTCATCCGAGCAGTGGACCCAGACTCACCGCGGAGGCGTCTGGACTCCGGGCCAGGACCGAATTGTGGAGGTCAATGGTGTCTGCATGGAGGGCAAGCAGCAGCGGGACGTGTGTCCGCCATCAAGGGTGGAGGTGATGAGGCCAAGCTGCTGGTGGTAGACAAGGAAACAGATGAGTTCTCAAGAAGTGCAAAGTATCCCATCCAGGAGCACCTGGATGGCCCTTGCTGAGCCCTCAGCAATGGAGAGATACAGAAGGAGAGCAGCCGTGAAGCCCTGGTGGAGCCAGCTTTCAGAGAGCCCCAGGCCAGCCCTGCAAGATCTGCCCTCCAGCGATACCAAGTGGAGGCTAAATTCCTCAAGACAGCCCCAAGAGACAAGTTCCACAGAGCCCTCATCTACCTCCTCCTCCTCTGACCCCATCTTGACCTCAACATCTCCTTGCTGTGGCTAAAGAGAGGGCCACCAGAAGCGCAGTAGCAAGAGGGCCCCGAGATGGACTGGAGCAAGAAAAATGAATCTTTCAGCAACCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205416 representing NM\_012030  
 Red=Cloning site Green=Tags(s)

MSADAAAGEPLPRLCCLEKGPNGYGFHLHGEKGVGQFIRLVEPGSPAESGLLAGDRLVEVNGENVEKE  
 THQQVVSRIRAALNAVRLLVDPETDERLKKLGVSIREELLRPQEKSEQAEPAAADTHEAGDQNEAEKS  
 HLRELRPRLCTMKKGPNGYGFNLHSDKSKPQFIRAVIDPSPAEASGLRAQDRIVEVNGVCMEGKQHGVDV  
 VSAIKGGGDEAKLLVVDKETDEFKCKVIPSQEHLDGPLPEPFSNGEIQKESREALVEPASESPRPAL  
 ARSASDTSSEELNSQDSPKRQVSTEPSSTSSSSSDPILDLNISLAVAKERAHQKRSSKRAPQMDWSKKNE  
 LFSNL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012030

**ORF Size:** 1065 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\\_012030.2](#), [NP\\_036160.1](#)

**RefSeq Size:** 1922 bp

**RefSeq ORF:** 1068 bp

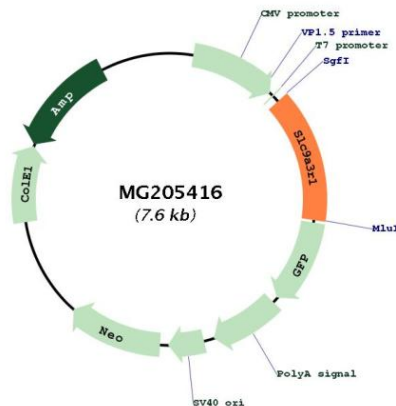
**Locus ID:** 26941

**UniProt ID:** [P70441](#)

**Cytogenetics:** 11 E2

**Gene Summary:** Scaffold protein that connects plasma membrane proteins with members of the ezrin/moesin/radixin family and thereby helps to link them to the actin cytoskeleton and to regulate their surface expression. Necessary for recycling of internalized ADRB2. Was first known to play a role in the regulation of the activity and subcellular location of SLC9A3. Necessary for cAMP-mediated phosphorylation and inhibition of SLC9A3. May enhance Wnt signaling (By similarity). May participate in HTR4 targeting to microvilli. Involved in the regulation of phosphate reabsorption in the renal proximal tubules (By similarity). Involved in sperm capacitation. May participate in the regulation of the chloride and bicarbonate homeostasis in spermatozoa.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG205416