

## Product datasheet for **MG216089**

### Slc37a2 (NM\_001145960) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc37a2 (NM_001145960) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc37a2
Synonyms:	cl-2; ci2; G3PP; Slc37a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG216089 representing NM\_001145960  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGTCTCCCTGGCTCCTGGTGTCTGGTTCCTTCGCGCCTTCTCTAGGGACAGCTGGTTCGGTGGCT  
 TCATCCTGCTGCTCACCTTCTCATTATGCCTGTTATCACATGTCCAGAAAGCCCATCAGCATCGTCAA  
 GAGCCGCCTGCACCAGAAGTCTCAGAGATGGTCAGACCTGTTAATGACACCCACGATCTCAATGATACC  
 ACCTGGTGCAGCTGGAGTCCATTCGACAAAGATGACTACAAGGAGTTACTAGGAGCTGTGGACAATGCCT  
 TCCTAGTGGCTTATGCCATTGGCATGTTTATTAGTGGAACTTTGGGGAGCGGCTGCCCTCGCTTACTA  
 CCTCTCGGCTGGAATGGTCTAAGTGGCCTATTCACCTCCCTCTTTGGCCTGGGGTACTTCTGGAATATC  
 CACATGCTCTGGTACTTTGTGCTCATCCAGATCTGCAACGGGCTTGTGCAGACTACAGGCTGGCCATCTG  
 TGGTGACCTGTGTGGCAACTGGTTTGGGAAGGAAAGCGGGGATTCATCATGGGCATCTGGAATCTCA  
 CACATCTGTGGCAACATTCTGGGCTCTCTGATTGCTGGAGTCTGGGTGAACCAGCACTGGGGCCTGTCA  
 TTCATCGTGCCTGGCATTACACTGCTATCATGGGTGTCATCACCTTCTCTTTCTTATTGAATATCCAG  
 AAGATGTGGACTGTACCCTCCTCGGCATCATGATGACCCGGAGAAGGAACAGGACAACCTGAGGATCC  
 TGTGAATAGTCCCTACAGCAGCAGGGAGAGTAATGTGGACATTGCAGCCAGCTCCTCAAGGAGCAGGGC  
 CCTGAGCCTGAAGCCATCAGTTTCTGGGGCACTCAGAATTCGGGAGTGATCGAGTTCTTTTATGTC  
 TGCTCTTTGCCAAGTTGGTGCAGTATACCTTCTCTACTGGTGCCTTGTACATCTTCAATGTGGCTCA  
 CTTTAGTGCCAAGGAGGCTGGGGACCTATCCACGCTTTTGTGTTGGTGGCATCATAGTGGCATCATG  
 GCAGGGCTCATCAGCGACTACCAATAGCAGGGCCACCACTTGCTGCATCATGCTGATCTTGGCTGCTC  
 CCATGATGTTCCGTACAACATACATTGGCCAGAATGGGATAACCAAGTCCATAGTATGTTAATTATGTC  
 TGGGGTCTGGTCAATGGCCCTTACGCACTCATCACGACAGCGGTCTCTGCTGACCTGGGCACACATGAG  
 AGCCTGAAGGGTAACGCCAAGGCCCTCTCCACTGTCACGGCCATTATCGACGGCACTGGTCCATAGGTG  
 CGGCTCTGGGGCCCTACTGGCCGGGCTCATTCCCCGACAGGCTGGAACAATGTGTTCTACATGCTCAT  
 CTCTGCCGACGTCTTGGCTTGTCTCTCTGCAGGTTGGTGTACAAAGAGATCCTGGCCTGGAAGACG  
 GCCTGCGGCAGAAGCAGTGGCTTAGTCTGGCCCTAACCCACCCGCGA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG216089 representing NM\_001145960  
 Red=Cloning site Green=Tags(s)

MRSSLAPGVWFLRAFSRDSWFRGFILLTFLIYACYHMSRKPISIVKSRLHQNCSEMVRPVNDTHLNDT  
 TWCSWSPFDKDDYKELLGAVDNAFLVAYAIGMFI SGIFGERLPLRYL SAGMVL SGLFTSLFGLGYFWNI  
 HMLWYFVLIQICNGLVQTTGWPSVVT CVGNWFGKGRGFI MGIWNSHTSVGNILGSLIAGVWVNQHWGLS  
 FIVPGIITAIMGVITFLFLIEYPEDVDCTPPRHDDPEKEQDNPEDPVNSPYSSRESNVDIAASSSKEQG  
 PEPEAISFLGALRIPGVIEFSLCLLFAKLVSYTFLYWLPYIFNVAHFSAKEAGDLSTLFDVGGIIGGIM  
 AGLISDYNSRATTCCIMLILAAPMMFLYNYIGQNGITSSIVMLIICGVLVNGPYALITTAVSADLGT  
 THE SLKGNALSTVTAIIDGTGSIGAALGPLLAGLISPTGWNNVYMLISADVLACLLLCRLVYKEILAWKT  
 ACGRSSGSSLALTHPR

**TRTRPLE - GFP Tag - V**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2703\\_c04.zip](https://cdn.origene.com/chromatograms/ja2703_c04.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001145960

ORF Size: 1518 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

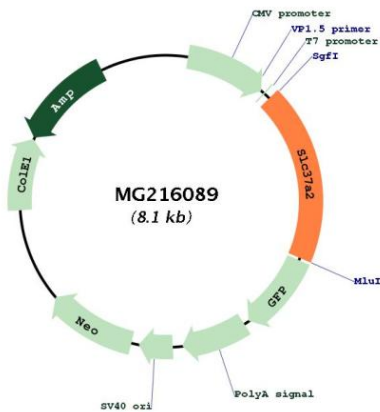
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001145960.1](#), [NP\\_001139432.1](#)  
**RefSeq Size:** 4440 bp  
**RefSeq ORF:** 1521 bp  
**Locus ID:** 56857  
**UniProt ID:** [Q9WU81](#)  
**Cytogenetics:** 9 A4  
**Gene Summary:** Inorganic phosphate and glucose-6-phosphate antiporter. May transport cytoplasmic glucose-6-phosphate into the lumen of the endoplasmic reticulum and translocate inorganic phosphate into the opposite direction. Independent of a luminal glucose-6-phosphatase. May not play a role in homeostatic regulation of blood glucose levels.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216089