

Product datasheet for MG221935

S100a1 (NM 011309) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: S100a1 (NM_011309) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: S100a1

Synonyms: Al266795; S100; S100a

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG221935 representing NM_011309

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCTCTGAGCTGGAGAGTGCCATGGAGACCCTCATCAATGTGTTCCATGCCCATTCGGGCAAGGAAG GGGACAAATATAAGCTGAGCAAGAAAGAACTGAAAGACCTGCTACAAACTGAACTTTCTGGCTTCCTGGA TGTCCAGAAGGATGCAGATGCTGTGGACAAGGTAATGAAGGAACTGGATGAAAACGGAGATGGGGAAGTG GACTTCAAGGAGTATGTTGTGCTGGTGGCTGCTCTCACAGTGGCTTGTAACAACTTCTTCTGGGAGACCA

GT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221935 representing NM_011309

Red=Cloning site Green=Tags(s)

MGSELESAMETLINVFHAHSGKEGDKYKLSKKELKDLLQTELSGFLDVQKDADAVDKVMKELDENGDGEV

DFKEYVVLVAALTVACNNFFWETS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



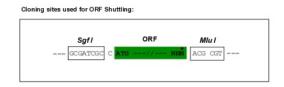
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

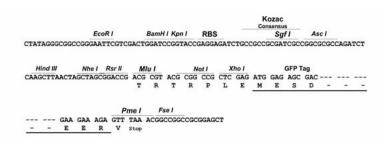
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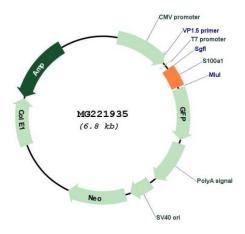


Cloning Scheme:





Plasmid Map:



ACCN: NM_011309

ORF Size: 282 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 customport@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 011309.3, NP 035439.1

3 39.24 cM

 RefSeq Size:
 615 bp

 RefSeq ORF:
 285 bp

 Locus ID:
 20193

 UniProt ID:
 P56565

Gene Summary:

Cytogenetics:

Probably acts as a Ca(2+) signal transducer. In response to an increase in intracellular Ca(2+) levels, binds calcium which triggers a conformational change. This conformational change allows interaction of S1001A with specific target proteins, such as TPR-containing proteins, and the modulation of their activity.[UniProtKB/Swiss-Prot Function]