

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: A1266795; S100; S100a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221935 representing NM_011309
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCTGAGCTGGAGAGTGCCATGGAGACCCTCATCAATGTGTTCCATGCCCATTCGGGCAAGGAAG
GGGACAAATATAAGCTGAGCAAGAAAGAACTGAAAGACCTGTACAACTGAACTTTCTGGCTTCTGGA
TGTCAGAAAGGATGCAGATGCTGTGGACAAGGTAATGAAGGAAGTGGATGAAAACGGAGATGGGGAAGT
GACTTCAAGGAGTATGTTGTGCTGGTGGCTGCTCTCACAGTGGCTGTAACAACCTCTTCTGGGAGACCA
GT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221935 representing NM_011309
Red=Cloning site Green=Tags(s)
MGSELESAMETLINVFHAHSGKEGDKYKLSKELKDLLQTELSGFLDVQKDADAVDKVMKELDENGDGEV
DFKEYVVLVAALTVACNFFWETS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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
RefSeq Size:	615 bp
RefSeq ORF:	285 bp
Locus ID:	20193
UniProt ID:	P56565
Cytogenetics:	3 39.24 cM
Gene Summary:	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]