

## Product datasheet for **MR222185**

### **S100a6 (NM\_011313) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** S100a6 (NM\_011313) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** S100a6  
**Synonyms:** 2A9; 5B10; Cacy; CALCYCLIN; PRA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222185 representing NM\_011313  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGCATGCCCTCTGGATCAGGCCATTGGCCTTCTCGTGGCCATCTCCACAAGTACTCTGGCAAGGAAG**  
**GTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGTTGATCCAGAAGGAGCTCACCATTGGCTCCAA**  
**GCTGCAGGATGCTGAAATTGCAAGGCTGATGGATGATCTGGACCGTAACAAGGATCAGGAAGTAACTTC**  
**CAGGAGTATGTCGCTTCTGGGGCCTTGGCTTTGATCTACAATGAAGCTTGAAA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >MR222185 representing NM\_011313  
Red=Cloning site Green=Tags(s)  
  
MACPLDQAIGLLVAIFHKYSGKEGDKHTLSKKELKELIQKELTIGSKLQDAE IARLMDDLDRNKDQEVNF  
QEYVAF LGALALIYNEALK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9042\\_c04.zip](https://cdn.origene.com/chromatograms/mm9042_c04.zip)

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_011313

**ORF Size:** 267 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\\_011313.2](#), [NP\\_035443.1](#)

**RefSeq Size:** 719 bp

**RefSeq ORF:** 270 bp

**Locus ID:** 20200

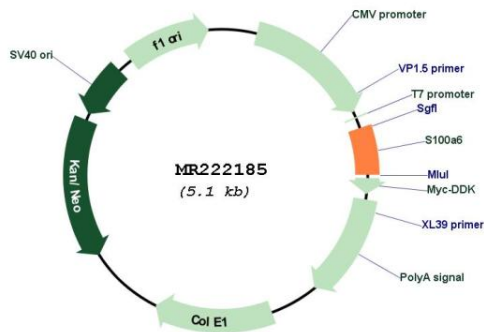
UniProt ID: [P14069](#)

Cytogenetics: 3 39.35 cM

MW: 10.5 kDa

**Gene Summary:** May function as calcium sensor and modulator, contributing to cellular calcium signaling. May function by interacting with other proteins, such as TPR-containing proteins, and indirectly play a role in many physiological processes such as the reorganization of the actin cytoskeleton and in cell motility. Binds 2 calcium ions. Calcium binding is cooperative (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222185