

Product datasheet for **MR226807**

S100a10 (NM_009112) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100a10 (NM_009112) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: S100a10
Synonyms: 42C; AA409961; AL024248; Cal11; CAL12; CLP11; p10; p11
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226807 representing NM_009112
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATCCCAAATGGAGCACGCCATGGAACCATGATGCTTACGTTTCACAGGTTTGCAGGCGACAAAG
ACCACTTGACAAAGGAGGACCTGAGAGTGCTCATGGAACGGGAGTTCCCTGGGTTTTGGAAAATCAAAA
GGACCCTCTGGCTGTGGACAAAATAATGAAGGACCTGGACCAGTCCGAGATGGCAAAGTGGGCTCCAG
AGCTTTCTACTAGTGGCAGGCTCACCATTGCATGCAATGACTATTTGTAGTAAACATGAAGCAGA
AGGGGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226807 representing NM_009112
Red=Cloning site Green=Tags(s)
MPSQMEHAMETMMLTFHRFAGDKDHLTKEDLRVLMEREFPGFLENQKDPLAVDKIMKDLQCRDGKVGFG
SFLSLVAGLTIACNDYFVVMKQKGGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_c03.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_009112

ORF Size: 291 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 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_009112.2](#), [NP_033138.1](#)

RefSeq Size: 650 bp

RefSeq ORF: 294 bp

Locus ID: 20194

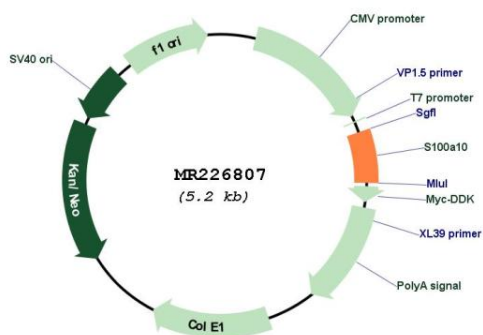
UniProt ID: [P08207](#)

Cytogenetics: 3 40.51 cM

MW: 11.6 kDa

Gene Summary: Because S100A10 induces the dimerization of ANXA2/p36, it may function as a regulator of protein phosphorylation in that the ANXA2 monomer is the preferred target (in vitro) of tyrosine-specific kinase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226807