

Product datasheet for **MR218324**

S100a13 (NM_009113) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100a13 (NM_009113) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: S100a13
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218324 representing NM_009113
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAGTGACAGCAGGGGCGGTCCCCTCAGCGGAGGCGGAACTTGACACTTCAGACTTGGGAGTGCC
TCTCGCCTTGCCTGGTGCTTATAAACTTCAGCCTCAGGGCTCCAGATCGTTAGCTGCATCCCACCTTCT
TTCCCGGTCAATCTGTGTGGACATCAGCTCCTGCTTTGGTATACTGATGGCAGCAGAGACTCTGACTGAA
CTGGAGGCGGCCATTGAGACTGTGGTCTCTACTTCTTCCACCTTTCAGGGCGGGAAGGACGCAAAGGCA
GCCTGAACATCAATGAATTTAAGGAAGTGGCCACTCAGCAACTGCCTCATTGCTCAAGGACGTGGGCTC
TCTAGATGAAAAGATGAAGACCTTGGATGTGAATCAGGACTCAGAGCTGAGGTTCACTGAATACTGGAGA
CTGATTGGAGAGCTGGCAAAGGAAGTCAGGAAGGAGAAGGCCCTGGGGATCCGGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218324 representing NM_009113
Red=Cloning site Green=Tags(s)
MASDSRGGPLSGGNTLQTWELSPCLVLINFSLRAPDRLAASHLLSRISICVDISSCFILMAAETLTE
LEAAIETVVSTFFTFAGREGRKSLNINEFKELATQQLPHLLKDVGLDEKMKTLQDSELRFSEYWR
LIGELAKEVRKEKALGIRKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_f02.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_009113

ORF Size: 480 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_009113.4](#), [NP_033139.2](#)

RefSeq Size: 732 bp

RefSeq ORF: 483 bp

Locus ID: 20196

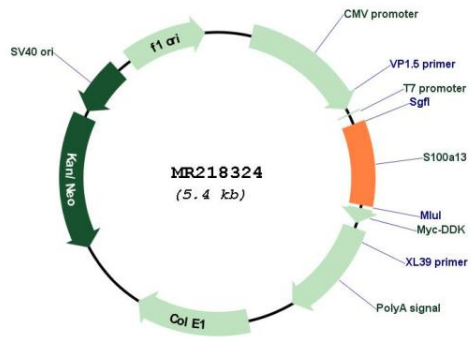
UniProt ID: [P97352](#)

Cytogenetics: 3 39.24 cM

MW: 18.2 kDa

Gene Summary: Plays a role in the export of proteins that lack a signal peptide and are secreted by an alternative pathway. Binds two calcium ions per subunit. Binds one copper ion. Binding of one copper ion does not interfere with calcium binding. Required for the copper-dependent stress-induced export of IL1A and FGF1. The calcium-free protein binds to lipid vesicles containing phosphatidylserine, but not to vesicles containing phosphatidylcholine. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218324