

Product datasheet for **SC303255**

S100A5 (NM_002962) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S100A5 (NM_002962) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100A5
Synonyms:	S100D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303255 representing NM_002962. Blue =Insert sequence Red =Cloning site Green =Tag(s)

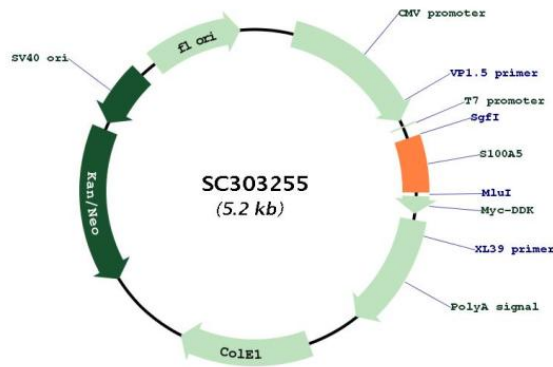
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGACTCCTCTGGAGAAGGCCCTGACCACTATGGTGACCACGTTTCACAAATATTCGGGGAGAGAG
GGTAGCAAACCTGACCTGAGTAGGAAGGAACTCAAGGAGCTGATCAAGAAAGAGCTGTGTCTTGGGGAG
ATGAAGGAGAGCAGCATCGATGACTTGATGAAGAGCCTGGACAAGAACAGCGACCAGGAGATCGACTTC
AAGGAGTACTCGGTGTTCTGACCATGCTGTGCATGGCCTACAACGACTTCTTTCTAGAGGACAACAAG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_002962

Insert Size: 279 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002962.1](#)

RefSeq Size: 710 bp

RefSeq ORF: 279 bp

Locus ID: 6276

UniProt ID: [P33763](#)

Cytogenetics: 1q21.3

MW: 10.7 kDa

Gene Summary: The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein has a Ca²⁺ affinity 20- to 100-fold higher than the other S100 proteins studied under identical conditions. This protein also binds Zn²⁺ and Cu²⁺, and Cu²⁺ strongly which impairs the binding of Ca²⁺. This protein is expressed in very restricted regions of the adult brain. [provided by RefSeq, Jul 2008]