

Product datasheet for **RG210891**

S100A5 (NM_002962) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100A5 (NM_002962) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: S100A5
Synonyms: S100D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210891 representing NM_002962
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGCTGCTTGGATTCTCTGGGCTCACTCCCACAGTGAGCTGCACACTGTGATGGAGACTCCTCTGG
AGAAGGCCCTGACCACTATGGTGACCACGTTTCACAAATATTCGGGGAGAGAGGGTAGCAAACCTGACCC
GAGTAGGAAGGAAGCAAGGAGCTGATCAAGAAAGAGCTGTGTCTTGGGGAGATGAAGGAGAGCAGCATC
GATGACTTGATGAAGAGCCTGGACAAGAAGCAGCGACCAGGAGATCGACTTCAAGGAGTACTCGGTGTTCC
TGACCATGCTGTGCATGGCCTACAACGACTTCTTCTAGAGGACAACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210891 representing NM_002962
Red=Cloning site Green=Tags(s)
MPAAWILWAHSHSELHTVMETPLEKALTTMVTTFHKYSGREGSKLTL SRKELKELIKKELCLGEMKESSI
DDLKMSLDKNSDQEIDFKEYSVFLTMLCMAYNDFLEDNK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002962

ORF Size: 330 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_002962.1](#), [NP_002953.2](#)

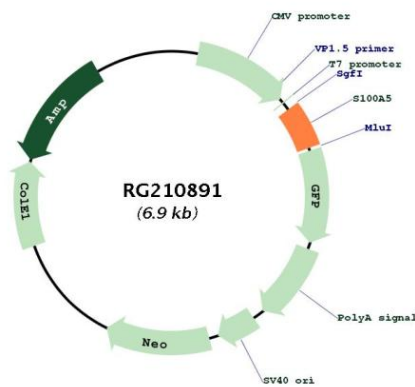
RefSeq Size: 710 bp

RefSeq ORF: 279 bp

Locus ID: 6276
UniProt ID: [P33763](#)
Cytogenetics: 1q21.3
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]

Product images:



Circular map for RG210891