

Product datasheet for RG211660

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

S100 Calcium Binding Protein A13 (S100A13) (NM_001024211) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: S100 Calcium Binding Protein A13 (S100A13) (NM 001024211) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: S100A13

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG211660 representing NM_001024211
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCAGCAGAACCACTGACAGAGCTAGAGGAGTCCATTGAGACCGTGGTCACCACCTTCTTCACCTTTG
CAAGGCAGGAGGGCCGGAAGGATAGCCTCAGCGTCAACGAGTTCAAAGAGCTGGTTACCCAGCAGTTGCC
CCATCTGCTCAAGGATGTGGGCTCTCTTGATGAGAAGATGAAGAGCTTGGATGTGAATCAGGACTCGGAG
CTCAAGTTCAATGAGTACTGGAGATTGATTGGGGAGCTGGCCAAGGAAATCAGGAAGAAGAAGACCTGA

AGATCAGGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211660 representing NM_001024211

Red=Cloning site Green=Tags(s)

MAAEPLTELEESIETVVTTFFTFARQEGRKDSLSVNEFKELVTQQLPHLLKDVGSLDEKMKSLDVNQDSE

LKFNEYWRLIGELAKEIRKKKDLKIRKK

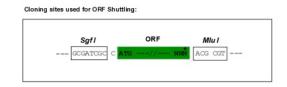
TRTRPLE - GFP Tag - V

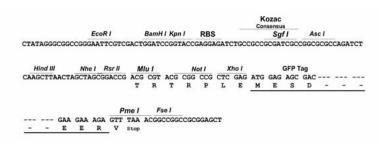
Restriction Sites: Sgfl-Mlul



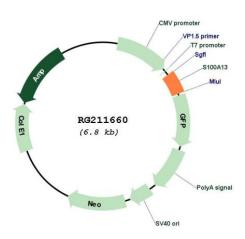


Cloning Scheme:





Plasmid Map:



ACCN: NM_001024211

ORF Size: 294 bp



S100 Calcium Binding Protein A13 (S100A13) (NM_001024211) Human Tagged ORF Clone - RG211660

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: <u>NM 001024211.1</u>, <u>NP 001019382.1</u>

RefSeq Size: 667 bp
RefSeq ORF: 297 bp
Locus ID: 6284
UniProt ID: Q99584

Cytogenetics: 1q21.3

Protein Families: Druggable Genome

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 is widely expressed in various types of tissues with a high expression level in thyroid gland. In smooth muscle cells, this protein co-expresses with other family members in the nucleus and in stress fibers, suggesting diverse functions in signal transduction. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]