

Product datasheet for **RG211347**

S100G (NM_004057) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: S100G (NM_004057) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: S100G
Synonyms: CABP; CABP1; CABP9K; CALB3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211347 representing NM_004057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTACTAAAAAGTCTCCTGAGGAAGTGAAGAGGATTTTTGAAAAATATGCAGCCAAAGAAGGTGATC
 CAGACCAGTTGTCAAAGGATGAAGCTATTGATTCAGGCTGAATCCCCAGTTTACTCAAAGGTCC
 AAACACCCTAGATGATCTCTTTCAAGAAGTGGACAAGAATGGAGATGGAGAAGTTAGTTTTGAAGAATTC
 CAAGTATTAGTAAAAAGATATCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211347 representing NM_004057
 Red=Cloning site Green=Tags(s)
 MSTKKSPEELKRIFEKYAAKEGDPDQLSKDELKLLIQAEFPSLLKGPNTLDDLQELDKNGDGEVSEFEF
 QVLVKKISQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_004057

ORF Size: 237 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.

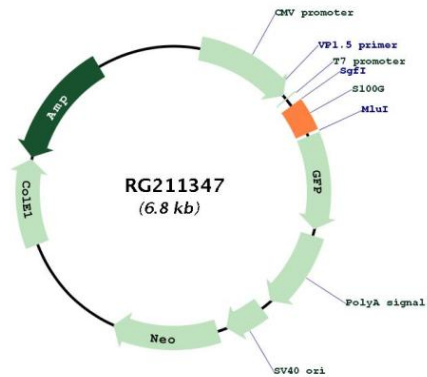
RefSeq: [NM_004057.3](#)

RefSeq Size: 453 bp

RefSeq ORF: 240 bp
Locus ID: 795
UniProt ID: [P29377](#)
Cytogenetics: Xp22.2
Gene Summary:

This gene encodes calbindin D9K, a vitamin D-dependent calcium-binding protein. This cytosolic protein belongs to a family of calcium-binding proteins that includes calmodulin, parvalbumin, troponin C, and S100 protein. In the intestine, the protein is vitamin D-dependent and its expression correlates with calcium transport activity. The protein may increase Ca²⁺ absorption by buffering Ca²⁺ in the cytoplasm and increase ATP-dependent Ca²⁺ transport in duodenal basolateral membrane vesicles. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211347