

Product datasheet for RG214317

OriGene Technologies, Inc.

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Calretinin (CALB2) (NM_007087) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Calretinin (CALB2) (NM_007087) Human Tagged ORF Clone

Tag: TurboGFP Symbol: CALB2

Synonyms: CAL2; calbindin 2; calbindin 2, (29kD, calretinin); calbindin D29K; calretinin

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG214317 representing NM_007087

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTGGCCCGCAGCAGCCCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAA
TATGGAAGCACTTTGACGCAGACGGAAATGGGTATATTGAAGGTAAAGAGCTAGAAAACTTTTTCCAAGA
GCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACTTTGGAGAAAAAGATGAAGGAG
TTCATGCAGAAGTATGATAAAAACTCAGATGGGAAAATCGAGATGGCAGAGCTGGCGCAGATCCTGCCAA
CCGAAGAGAACTTCCTTCTGTGCTTCAGGCAGCACGTGGGCTCCAGCGCCGAGTTTATGGAGGCTTGGCG
GAAGTACGACACAGACAGGAGTGGCTACATCGAAGCCAATGAGCTCAAGGGATTCCTGTCAGACCTGCTG
AAGAAGGCGAACCCGGCCGTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTG

ACTTGAACGGGGATGGCAAATTGGGCCTCTCAGAGATGTCCCGGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214317 representing NM_007087

Red=Cloning site Green=Tags(s)

MAGPQQQPPYLHLAELTASQFLEIWKHFDADGNGYIEGKELENFFQELEKARKGSGMMSKSDNFGEKMKE FMQKYDKNSDGKIEMAELAQILPTEENFLLCFRQHVGSSAEFMEAWRKYDTDRSGYIEANELKGFLSDLL

KKANRPYDEPKLQEYTQTILRMFDLNGDGKLGLSEMSRA

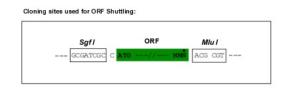
TRTRPLE - GFP Tag - V

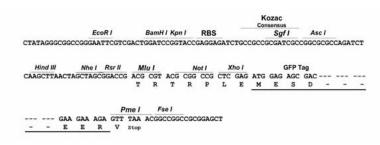
Restriction Sites: Sgfl-Mlul



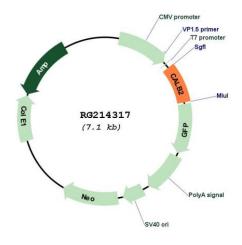


Cloning Scheme:





Plasmid Map:



ACCN: NM_007087

ORF Size: 537 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.



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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 007087.2</u>

RefSeq Size:1413 bpRefSeq ORF:539 bpLocus ID:794

Cytogenetics: 16q22.2

Domains: EFh

Gene Summary: This gene encodes an intracellular calcium-binding protein belonging to the troponin C

superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun

2010]