

Product datasheet for RC214258

Calretinin (CALB2) (NM_007088) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calretinin (CALB2) (NM_007088) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Calretinin
Synonyms: CAB29; CAL2; CR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214258 representing NM_007088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGCCCGCAGCAGCAGCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAA
 TATGGAAGCACTTTGACGCAGACGAAATGGGTATATTGAAGGTAAGAGCTAGAAAACCTTTTCCAAGA
 GCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACCTTTGGAGAAAAGATGAAGGAG
 TTCATGCAGAAGTATGATAAAAACCTCAGATGGGAAAATCGAGATGGCAGAGCTGGCGCAGATCCTGCCAA
 CCGAAGAGAACTTCCTTCTGTGCTTCAGGCAGCACGTGGGCTCCAGCGCCGAGTTTATGGAGGCTTGCCG
 GAAGTACGACACAGACAGGAGTGGCTACATCGAAGCCAATGAGCTCAAGGGATTCCTGTACAGACCTGCTG
 AAGAAGGCGAACCAGCGCCGTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTG
 ACTTGAACGGGGATGGCAAATTTGGGCTCTCAGAGATGTCCCGGATAGAAGCGGCTACATTGACGAGCAT
 GAGCTGGATGCCCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214258 representing NM_007088
 Red=Cloning site Green=Tags(s)

MAGPQQPPYLHLAELTASQFLEIWKHFDADGNGYIEGKELENFFQELEKARKGSGMMSKSDNFGEKMK
 FMQKYDKNSDGKIEMAELAQILPTEENFLLCFRQHVGSSEAFMEAWRKYDTRSGYIEANELKGFLLSDLL
 KKANRPYDEPKLQEYQTILRMFDLNGDGKLGLEMSRIEAATLTSMSWMPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007088

ORF Size: 576 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_007088.3](#), [NP_009019.1](#)

RefSeq Size: 1391 bp

RefSeq ORF: 579 bp

Locus ID: 794

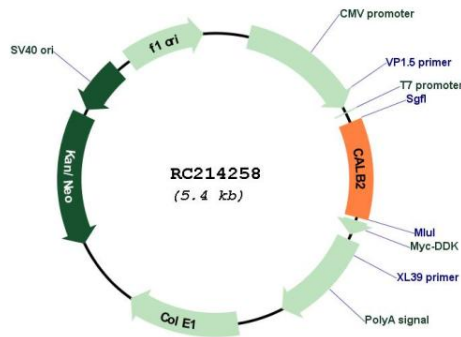
UniProt ID: [P22676](#)

Cytogenetics: 16q22.2

MW: 22.2 kDa

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]

Product images:



Circular map for RC214258