

## Product datasheet for **RG214258**

### 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:** TurboGFP  
**Symbol:** CALB2  
**Synonyms:** CAB29; CAL2; CR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG214258 representing NM\_007088  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGGCCCGCAGCAGCAGCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAA  
 TATGGAAGCACTTTGACGCAGACGAAATGGGTATATTGAAGGTAAGAGCTAGAAAACCTTTTCCAAGA  
 GCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACCTTGGAGAAAAGATGAAGGAG  
 TTCATGCAGAAGTATGATAAAAACCTCAGATGGGAAAATCGAGATGGCAGAGCTGGCGCAGATCCTGCCAA  
 CCGAAGAGAACTTCCTTCTGTGCTTCAGGCAGCACGTGGGCTCCAGCGCCGAGTTTATGGAGGCTTGCCG  
 GAAGTACGACACAGACAGGAGTGGCTACATCGAAGCCAATGAGCTCAAGGGATTCCTGTCAGACCTGCTG  
 AAGAAGGCGAACCAGCGCCGTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTG  
 ACTTGAACGGGGATGGCAAATTTGGGCTCTCAGAGATGTCCCGGATAGAAGCGGCTACATTGACGAGCAT  
 GAGCTGGATGCCCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG214258 representing NM\_007088  
 Red=Cloning site Green=Tags(s)

MAGPQQQPPYLHLAELTASQFLEIWKHFDADGNGYIEGKELENFFQELEKARKGSGMMSKSDNFGEKMK  
 FMQKYDKNSDGKIEMAELAQILPTEENFLLCFRQHVGSSEAFMEAWRKYDTRSGYIEANELKGFLLS  
 KKANRPYDEPKLQEYQTILRMFDLNGDGKLGLEMSRIEAATLTSMWMPF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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

**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]