

Product datasheet for **RG214594**

Calcitonin (CALCA) (NM_001741) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calcitonin (CALCA) (NM_001741) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Calcitonin
Synonyms: CALC1; CGRP; CGRP-alpha; CGRP-I; CGRP1; CT; KC; PCT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214594 representing NM_001741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTTCCAAAAGTTCTCCCCTTCTGGCTCTCAGCATCTTGGTCTGTTGCAGGCAGGCAGCCTCC
 ATGCAGCACCATTAGGTCTGCCCTGGAGAGCAGCCAGCAGACCCGCCACGCTCAGTGAGGACGAAGC
 GCGCTCTGCTGGCTGCACTGGTGCAGGACTATGTGCAGATGAAGGCCAGTGAGCTGGAGCAGGAGCAA
 GAGAGAGAGGGCTCCAGCCTGGACAGCCCCAGATCTAAGCGGTGCGGTAATCTGAGTACTTGCATGCTGG
 GCACATACAGCAGGACTTCAACAAGTTTACACGTTCCCCAACTGCAATTGGGGTTGGAGCACCTGG
 AAAGAAAAGGGATATGTCCAGCGACTTGGAGAGAGACCATCGCCCTCATGTTAGCATGCCCCAGAATGCC
 AAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214594 representing NM_001741
 Red=Cloning site Green=Tags(s)

MGFQKFSPLAL SILVLLQAGSLHAAPFRSALESSPADPATLSEDEARLLLAALVQDYVQMKASELEQEQ
 EREGSSLDSPRSKRCGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAPGKKRDMSSDLERDHRPHVSMQPNA
 N

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001741

ORF Size: 423 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_001741.3](#)

RefSeq Size: 792 bp

RefSeq ORF: 426 bp

Locus ID: 796

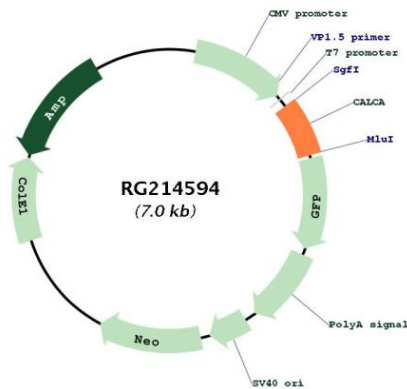
UniProt ID: [P01258](#)

Cytogenetics: 11p15.2

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katalcalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator and as an antimicrobial peptide while katalcalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2014]

Product images:



Circular map for RG214594