

Product datasheet for **SC303063**

Calcitonin (CALCA) (NM_001741) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calcitonin (CALCA) (NM_001741) Human Untagged Clone
Tag: Tag Free
Symbol: Calcitonin
Synonyms: CALC1; CGRP; CGRP-alpha; CGRP-I; CGRP1; CT; KC; PCT
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001741 edited
GGGCCGCGCGAATTCATGGGCTTCCAAAAGTTCTCCCCCTTCCTGGCTCTCAGCATCT
TGGTCTGTTGCAGGCAGGCAGCCTCCATGCAGCACCATTGAGTCTGCCCTGGAGAGCA
GCCCAGCAGACCCGCGCCAGCCTCAGTGAGGACGAAGCGCCCTCCTGCTGGCTGCACTGG
TGCAAGACTATGTGCAGATGAAGGCCAGTGAGCTGGAGCAGGAGCAAGAGAGAGAGGGCT
CCAGCCTGGACAGCCCCAGATCTAAGCGGTGCGGTAATCTGAGTACTTGCATGCTGGGCA
CATACACGCAGGACTTCAACAAGTTTCACACGTTCCCCAACTGCAATTGGGGTTGGAG
CACCTGGAAGAAAAGGGATATGTCCAGCGACTTGAGAGAGACCATCGCCCTCATGTTA
GCATGCCCCAGAATGCCAACTAACTCGACTCTAGATTGCGGCCGCGG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001741 unedited
GACAAAATTTGTAATACGACTCACTATAGGNNCGCCGCGNNAATTCATGGGCTTCCAA
AAGTTCTCCCCCTTCCTGGCTCTCAGCATCTTGGTCTGTTGCAGGCAGGCAGCCTCCAT
GCAGCACCATTGAGTCTGCCCTGGAGAGCAGCCAGCAGACCCGCGCCAGCCTCAGTGAG
GACGAAGCGCGCCTCCTGCTGGCTGCACTGGTGCAGGACTATGTGCAGATGAAGGCCAGT
GAGCTGGAGCAGGAGCAAGAGAGAGAGGGCTCCAGCCTGGACAGCCCCAGATCTAAGCGG
TGCGGTAATCTGAGTACTTGCATGCTGGGCACATACACGCAGGACTTCAACAAGTTTCAC
ACGTTCCCCAACTGCAATTGGGGTTGGAGCACCTGGAAGAAAAGGGATATGTCCAGC
GACTTGGAGAGAGACCATCGCCCTCATGTAGCATGCCCCAGAATGCCAACTAACTCGAC
TCTAGATTGCGGCCGCGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTG
ACCCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTG
TCCTAATAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATATTATGGG
GTGGAGGGGGGGTGGTATGGGAGCAAGGGGNAAGTGGGAAGNACACCTGTNAGGCCTGC
GGGGTCTATTGGGGACCAAGCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCNAATCTC
CGCTCCCTGGTTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTTGTTGGGGATTCCAGC
ATGCATGACCAGGCTCAGCTAATTTTTGGTTTTTTTGGTAGAGACGGGGTTTCACCATAT
TGCCAAGCTGGT



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Restriction Sites:	Please inquire
ACCN:	NM_001741
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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_001741.2 , NP_001732.1
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:	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' and 3' UTRs and the coding region compared to variant 3. The resulting protein has a longer and distinct C-terminus compared to calcitonin gene-related peptide 1. Variants 1 and 2 encode the same protein, which is cleaved to yield calcitonin (CT), a thyroid peptide-hormone product, and katalcalcin peptides.</p>