

## Product datasheet for **MR228000**

### Calca (NM\_001289444) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Calca (NM\_001289444) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Calca  
**Synonyms:** C; CA; Calc; Calc1; Cg; Cgrp; CGRP-1; CGRP1; Ct; Ctn  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR228000 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTTCTGAAGTTCTCCCTTTCTGGTTGTCAGCATCTTGCTCCTGTACCAGGCATGCAGCCTCC  
AGGCAGTGCCTTTGAGGTCAATCTTGGAAAGCAGCCAGGCATGGCCACTCTCAGTGAAGAAGAAGTTCCG  
CCTGCTGGCTGCACTGGTGCAGGACTATATGCAGATGAAAGCCAGGGAGCTGGAGCAGGAGGAAGAGCAG  
GAGGCTGAGGGCTCTAGTGTCACTGCTCAGAAGAGATCCTGCAACTGCCACCTGTGTGACCCATCGGC  
TGGCAGGTCTGTGAGCAGATCAGGAGGTGGTGAAGGACAACCTTGTCCCACCAATGTGGGCTCTGA  
AGCCTTCGGCCGCCGCCAGGGACCTCAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228000 protein sequence  
Red=Cloning site Green=Tags(s)  
MGFLKFSPLVVSILLLYQACSLQAVPLRSILESSPGMATLSEEEVRLAALVQDYMQMKAQRELEQEEEEQ  
EAEGSSVTAQKRSCNTATCVTHRLAGLLSRSGGVKDNFVPTNVGSEAFGRRRRDLQA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_001289444

**ORF Size:** 387 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\\_001289444.1](#), [NP\\_001276373.1](#)

**RefSeq Size:** 1046 bp

**RefSeq ORF:** 387 bp

**Locus ID:** 12310

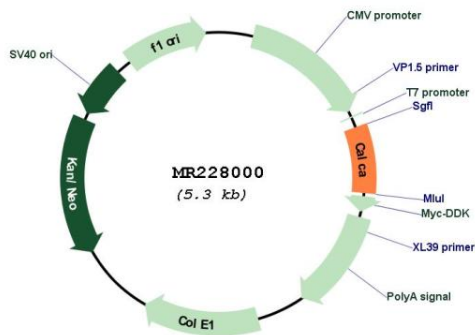
UniProt ID: [Q99JA0](#)

Cytogenetics: 7 59.99 cM

MW: 14.1 kDa

**Gene Summary:** This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide (CGRP) and katacalcin. Alternative splicing of the mRNA results in multiple variants that encode either calcitonin or CGRP preproteins. Post-translational processing of the calcitonin and CGRP propeptides results in either calcitonin and katacalcin, or CGRP, respectively. Calcitonin and katacalcin modulate calcium levels in the blood stream. CGRP can function as a vasodilator and play a role in the transmission of pain. The human homolog of CGRP was found to have antimicrobial activity. [provided by RefSeq, Mar 2015]

**Product images:**



Circular map for MR228000