

## Product datasheet for **MR200706**

### Calca (NM\_001033954) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calca (NM_001033954) 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:	>MR200706 representing NM_001033954. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGCTTCTGAAGTTCTCCCCTTCTGTTGTGTCAGCATCTTGCTCCTGTACCAGGCATGCAGCCTC
CAGGCAGTGCCTTTGAGGTCAATCTTGAAAGCAGCCAGGCATGGCCACTCTCAGTGAAGAAGAAGTT
CGCCTGCTGGCTGCACTGGTGCAGGACTATATGCAGATGAAAGCCAGGGAGCTGGAGCAGGAGGAAGAG
CAGGAGGCTGAGGGCTCTAGTGTACTGCTCAGAAGAGATCCTGCAACTGCCACCTGTGTGCCCAT
CGGCTGGCAGGTCTGCTGAGCAGATCAGGAGGTGTGGTGAAGGACAACCTTTGTTCCACCAATGTGGC
TCTGAAGCCTTCGGCCGCCCGCCAGGGACCTTCAGGCC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Protein Sequence:	>Peptide sequence encoded by MR200706 Blue=ORF Red=Cloning site Green=Tag(s)
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```
MGFLKFSPLVVSILLLYQACSLQAVPLRSILESSPGMATLSEEEVRLAALVQDYMQMKAQLELEQEEE
QEAEGLSSVTAQKRSCNTATCVTHRLAGLLSRSGVVKDNFVPTNVGSEAFGRRRRDLQA
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Recombinant protein using MR200706 also available, [TP500706](#)

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**


**ACCN:** NM\_001033954

**ORF Size:** 384 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\\_001033954.3](#)

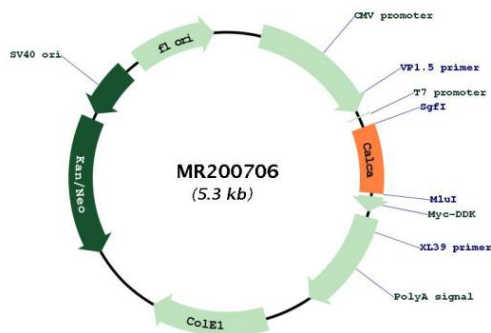
**RefSeq Size:** 1022 bp

**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 katalcalcin. 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 katalcalcin, or CGRP, respectively. Calcitonin and katalcalcin 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 MR200706